POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. PGS-I/1-405/AC/2017

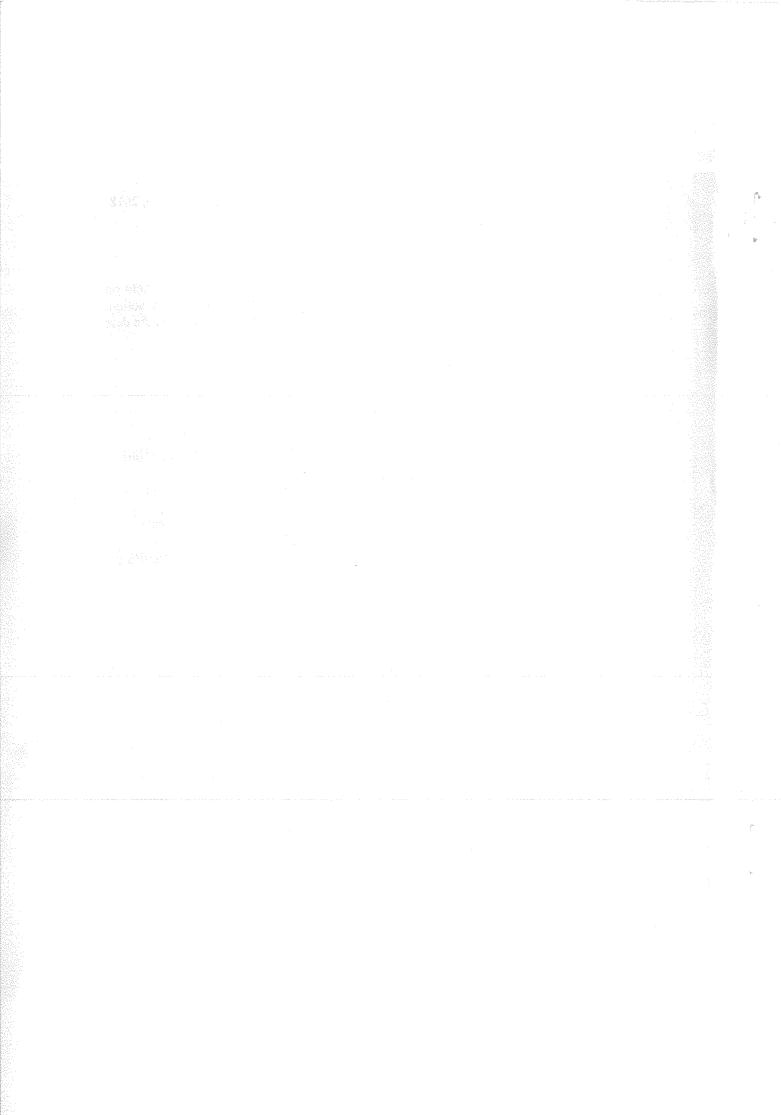
January 9, 2018

ENDORSEMENT

A copy of the proceedings of the 405th meeting of the Academic Council held on 16th December, 2017 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council and concerned Officers (By name)
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. School Hostel Office
- 5. Sr. Admn. Officer, IMC (35 copies for members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PS to Registrar/PS to Comptroller
- 7. Shri A. K. Tyagi, Chief Technical Officer, P.G. School
- 8. Dr. S.K. Tyagi, Chief Technical Officer, P G School
- 9. Assistant Administrative Officer, Post Graduate School-II
- 10. Concerned Dealing Assistants, PGS-I

(K.M. Manjaiah) Associate Dean



PROCEEDINGS OF THE 405th MEETING OF THE ACADEMIC COUNCIL HELD ON DECEMBER 16, 2017 AT 11.00 AM IN THE CONFERENCE HALL OF Prof. M.S.SWAMINATHANLIBRARY, IARI, NEW DELHI - 110012

The following members were present:

| The following members were present: | |
|---|-------------------------------------|
| Dr.A.K. Singh, Director (Additional charge), IARI Dr. R.K. Jain, Dean & Joint Director (Edn.), IARI Dr. C. Ramasamy, Former Vice Chancellor, TNAU | Chairman Vice-Chairman Member |
| 4. Dr. J. S. Samra, Former CEO, National Rainfed Area Authori | ty Member |
| 5. Dr. H.S. Gaur, Former Vice-Chancellor, SVPUA&T, Meerut | * |
| 6. Dr. S.K. Datta, Former DDG(CS), ICAR | Member |
| 7. Dr. K.V. Prabhu, Joint Director (Research) | Member |
| 8. Dr. J.P. Sharma, Joint Director (Ext.) | Member |
| 9. Dr. Kuldeep Singh, Director, NBPGR | Member |
| 10. Dr. N.K. Singh, Director (Acting), NRCPB | Member |
| 11. Dr. P.K. Mishra, Director, IISWC, Dehradun | Member |
| 17 Dr Man Singh Project Director (Action) WTC 1B C | Member |
| 12. Dr. Man Singh, Project Director (Acting), WTC and Professor 13. Dr. K.M. Manjaiah, Associate Dean and Registrar, PG School | r, WST - Member - |
| 14. Dr.(Ms.) Shashi Bala Singh, Professor, Agricultural Chemical | Member |
| 15 Dr (Ms.) Alka Singh Professor, Agricultural Flaguerical | |
| 15. Dr. (Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| 16. Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 17. Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 18. Dr.V.K. Sehgal, Professor, Agricultural Physics 19. Dr. Y.S. Shivay, Professor, Agronomy | Member |
| 20 Dr (Ms) Aruno Tuggi Drofossor Diaghanting | Member |
| 20. Dr. (Ms.) ArunaTyagi, Professor, Biochemistry | Member |
| 21. Dr. A.R. Rao, Professor, Bioinformatics | Member |
| 22. Dr. Sudeep Marwaha, Professor, Computer Application | Member |
| 23. Dr. Subhash Chander, Professor, Entomology | Member |
| 24. Dr. K.P. Singh, Professor, Floriculture and Landscape Archite | |
| 25. Dr.O.P. Awasthi, Professor, Fruits and Hort. Tech. | Member |
| 26. Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| 27. Dr. Sunil Pabbi, Professor, Microbiology | Member |
| 28. Dr. R.C. Bhattacharya, Professor, MBB | Member |
| 29. Dr. (Ms.) RekhaChaudhury, Professor, PGR | Member |
| 30. Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| 31. Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| 32. Dr. S.P. Datta, Professor, SS&AC | Member |
| 33. Dr. T.K. Behera, Professor, Vegetable Crops | Member |
| 34. Mr. Sanchal Bilgrami, Comptroller | Member |
| 35. Dr. B.S. Tomar, Head, Vegetable Sciences | Member |
| and Faculty Representative to the Academic Council | v |
| 36. Ms. Sunita Gupta, Incharge, Library Services | Member |
| 37. Mr. Satish Naik, President, PGSSU | Member |
| 38. Ms. Priyanka Upreti, Students' Representative | Member |
| i anno 15 i | |
| Leave of absence was sought and granted to the following member | rs: |
| 1. Dr. N.S. Rathore, Deputy Director General (Edn.) | Member |
| 2. Dr.A.K. Choubey, Director (Acting), IASRI | Member |
| 3. Dr. K.K. Singh, Director, CIAE, Bhopal | Member |
| 4. Dr. M.R. Dinesh, Director, IIHR | Member |
| 5. Dr. Seema Jaggi, Professor, Agricultural Statistics | Member |
| 6. Dr. Anil Sirohi, Professor, Nematology and MOHR, PG Ho | stels Member |
| 7. Dr. Soora Naresh Kumar, Professor, Environmental Sciences | Member |
| | |

| 8. | Dr. S.K. Jain, Professor, Seed Science & Technology | Member |
|-------|---|--------|
| 9. | Dr. S.K. Jha, Professor, Post Harvest Technology | Member |
| 10. | Dr. Bhupinder Singh, Principal Scientist, CESCRA | Member |
| | and Faculty Representative to the Academic Council | |
| ment) | Mr. M.K. Jain, Joint Director (Admn.) (Acting) | Member |

Dr. R.K.Jain, Dean and Joint Director (Edn.) extended a formal welcome to Dr.A.K. Singh, Director (Additional Charge) for attending his first meeting. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. He also welcomed the new members of the Academic Council who were attending the meeting for the first time:

New members

- 1. Dr. A.K. Singh, Deputy Director General (Agril. Extension) as Director (Additional Charge), IARI
- 2. Dr. (Ms.) Shashi Bala Singh, Professor, Agricultural Chemicals
- 3. Dr. Madan Pal Singh, Professor, Plant Physiology
- 4. Ms. Sunita Gupta, Incharge, Library Services
- 5. Mr. Satish Naik, President, Post Graduate School Students Union (PGSSU)
- 6. Ms. Priyanka Upreti, Student Representative to the Academic Council

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

- 1. Dr. Jeet Singh Sandhu, Former Deputy Director General(Crop Sciences) as Director (Additional charge), IARI
- 2. Dr. U.C. Sud, Former Director, IASRI
- 3. Dr.(Ms.) Irani Mukheriee, Former Professor, Agricultural Chemicals
- 4. Dr. V.P. Singh, Professor, Plant Physiology
- 5. Ms. Usha Khemchandani, Former Incharge, Library Services
- 6. Mr. Bhoopesh Punera, Former President, Post Graduate School Students Union (PGSSU)
- 7. Ms. Anu Kumari, Former Student Representative to the Academic Council
- 8. Ms. Shashi Prabha Razdan, Former Registrar and Joint Director (Admn.)

Thereafter, the following agenda items were taken up for consideration:

| Agenda Item | Description of Agenda Items | | |
|----------------|--|--|--|
| 495.1 | Confirmation of the proceedings of the 404 th meeting of the Academic Council held on July 7, 2017 | | |
| 405.2 | Action Taken Report on the Proceedings of 404 th meeting of the Academic Council held on July 7, 2017 | | |
| 405.3 | Recommendations of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its meeting held on 11.10.2017 | | |
| 495.4 | Recommendations of the Standing Committee on Courses Curricula and Academic Affairs made in its meeting held on 22.11.2017 | | |
| 405.5 | Recommendations of the Standing Committee on Faculty & Discipline made in its meeting held on 5.12.2017 | | |
| 405.6 | Finalization of the Academic Calendar for the 61 st Academic Session 2018-19 | | |
| 405.7 | Finalization of "Convocation Week" programme | | |
| 405.8 | List of candidates who have become eligible for the award of their respective degrees of M.Sc., M.Tech. & Ph.D. | | |

| 405.9 | Finalization of number of seats and qualification for admission to M.Sc., M.Tech. and Ph.D. degree programmes for the Academic Session 2018-19 |
|--------|---|
| 405.10 | Recommendations of the Committee constituted for a special IARI Merit Medal for the best Ph.D. student from the North Eastern Region. |
| 405.11 | Relaxation in 18 month contact period condition for Split Ph.D. Programme |
| 405.12 | Consideration of IARI-ANASTU Collaboration |
| | Creation of supernumerary seats to grant 5% reservation to the candidates belonging to children/widows of eligible personnel of Security Forces in Master and Ph.D. Programme at IARI |
| 402.14 | Any other item with the permission of the Chair |

Agenda Item No. 405.1 Confirmation of the proceedings of the 404th meeting of the Academic Council held on 7.7.2017

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 404th meeting. Since no comment was there, the proceedings of the previous meeting were confirmed.

Agenda Item No. 405.2 Action Taken Report on the Proceedings of 404th meeting of the Academic Council held on 7.7.2017

Action taken report (ATR) was presented by the Dean and Joint Director (Education). On the issue of increasing tuition fee from the Post Graduate Students, the Academic Council has approved that an incremental increase of about 10% be made after the approval of ICAR.

Agenda Item No. 405.3: Consideration of the proceedings of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its meeting held on 11.10.2017

The Academic Council approved the following recommendations of Standing Committee. The decision of Chairman, Academic Council on disbursement of Scholarship on the recommendations of the Standing Committee was also ratified by the Academic Council.

- 405.3.1 As per P.G. School Calendar para 15.3.3, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. (Commencement of the Academic Year 2017-18 is 31.07.2017)
- 405.3.2 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to 140 candidates admitted to IARI, New Delhi.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE_ENROL |
|--------|----------------------------|---------|------------------------|---|
| 1. | ROHAN SARKAR | 10931 | AGRICULTURAL CHEMICALS | 78/07/2017 |
| 2. | SAMEER RANJAN MISRA | 10932 | AGRICULTURAL CHEMICALS | |
| 3. | Ms. USHA KUMARI | 10933 | AGRICULTURAL CHEMICALS | *************************************** |
| 4. | Ms. NAMRATA LASKAR | 10934 | AGRICULTURAL CHEMICALS | |
| 5. | PHILIP KURIACHEN | 10935 | AGRICULTURAL ECONOMICS | |
| 6. | BISWAJITSEN | 10936 | AGRICULTURAL ECONOMICS | # ## |
| 7. | SHARATH SHASHIDHAR YELIGAR | 110938 | AGRICULTURAL ECONOMICS | |

| 3. | YOGESH H. C. | 10939 | AGRICULTURAL ECONOMICS | 38 |
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| 5. | Ms. SANGITA ABA KHATAI | 10959 | AGRICULTURAL ENGINEERING | |
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| , 52. | Ms HELEN MARY ROSE | 111026 | ENVIRONMENTAL SCIENCES | 8 |
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| 13. 14. | Ms. SRIJANA PRADHAN | 11027 | ENVIRONMENTAL SCIENCES FLORICULTURE AND LANDSCAPE ARCHITECTURE | |
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| 56. | Ms. T. RIHNE | 200 (C) (C) | FLORICULTURE AND LANDSCAPE ARCHITECTURE | |
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| 57. | SATYABRATA PRADHAN | 111034 | FRUIT SCIENCE | etinonomo por en en en electricio de la companio d B |
| 58. | Ms. PREETI SINGH | 11035 | FRUIT SCIENCE | |
| 59 | Ms. THEIVANAI M. | 11038 | FRUIT SCIENCE | # |
| 60. | ASHOK KUMAR MAHAWER | 11039 | FRUIT SCIENCE | |
| 61. | PANKAJ KUMAR | 11040 | FRUIT SCIENCE | T9 |
| 62 | Ms. SEEMA SHEORAN | 11045 | GENETICS AND PLANT BREEDING | |
| 63. | THRIBHUVAN R. | 11046 | GENETICS AND PLANT BREEDING | *** |
| 64. | MANDEEP SINGH | 11047 | GENETICS AND PLANT BREEDING | |
| 85. | JEET RAM CHOUDHARY | 11048 | GENETICS AND PLANT BREEDING | |
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| 67. | JUNBEN | 11052 | GENETICS AND PLANT BREEDING | * |
| 68. | Ms. NEETHU MOHAN | 11053 | GENETICS AND PLANT BREEDING | * |
| 69. | Ms. ARCHANA R. | 11055 | GENETICS AND PLANT BREEDING | |
| 70. | RATHAN N. D. | 11056 | GENETICS AND PLANT BREEDING | ###################################### |
| 71. | RANJIT SAROJ | 11057 | GENETICS AND PLANT BREEDING | |
| 72. | AMAN TIGGA | 11058 | GENETICS AND PLANT BREEDING | \$ |
| 73. | Ms. NOOR E MUJJASSIM | 11059 | GENETICS AND PLANT BREEDING | |
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| 76. | Ms. LAVANYA A. K. | 11062 | MICROBIOLOGY | |
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| 78. | Ms. DHIVYA PRIYA THENAPPAN | 111065 | MICROBIOLOGY | Secretaria de la companya della companya della companya de la companya della comp |
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| 91. | Ms. MANJU KUMARI | 11081 | PLANT GENETIC RESOURCES | # |
| 92. | SUNIL NAIK S. | 11082 | PLANT GENETIC RESOURCES | |
| 93. | JANTO JAMES | 11083 | PLANT GENETIC RESOURCES | |
| 94. | DEEPAK D. A. | 11084 | PLANT GENETIC RESOURCES | |
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| 02. | BASAVARAJ CHILAZARI | 11092 | PLANT PATHOLOGY | 31/07/2017 |
| 103. | VIVEK KUMAR KHARE | 11094 | PLANT PATHOLOGY | 28/07/2017 |
| 104. | SANDEEP ADAVI B. | J 1095 | PLANT PHYSIOLOGY | Ħ |
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| 106. | ELANGOVAN A. | 11098 | PLANT PHYSIOLOGY | |
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| 108. | Ms. DEVIKAS. | 11100 | PLANT PHYSIOLOGY | |
| 109. | Ms. PAYAL PRIYADARSINI | 11101 | PLANT PHYSIOLOGY | T |
| l 10. | Ms. SWARAJYA LAXMI NAYAK | 11102 | POST HARVEST TECHNOLOGY | interes de respectación de la compansión d Por |
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| 22. | JAGADISH GOWDA K. S. | 11120 | SEED SCIENCE AND TECHNOLOGY | ************************************** |
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| 26. | Ms. ANKITA TRIVEDI | 11124 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | |
| 27. | Ms. PRITI TIGGA | 11125 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | territ erhente til i i kreg grenne menne premiense premiense fra til til stor storet seger engan en en enge E |
| 28. | Ms. KHUSHBOO RANI | 11126 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | *5 |
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| 30. | SOURAV CHOUDHURY | 11128 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | |
| 31, | MUDAVATH RAVINDRA NAIK | 11129 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | ** |
| 32. | WNAY N. D. | 11130 | VEGETABLE SCIENCE | vijihanen — biisaksaan paalikainin kasikuska kiringi # |
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| 36. | AMIT KUMAR MATHUR | 11136 | VEGETABLE SCIENCE | in in initial property and the second se |
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| 38. | Ms. BLESSY V. A. | 11140 | WATER SCIENCE AND TECHNOLOGY | |
| 39. | MADHAVANANDA GUNDAPPAGOL | 11141 | WATER SCIENCE AND TECHNOLOGY | iki kanamada ata inggani manaman na kanamada na pada dipada manamada na kanamada na kanamada na kanamada na ka Elifa |
| 40. | SANJAY KUMAR | 111149 | WATER SCIENCE AND TECHNOLOGY | |

405.3.3 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to the following 16 students admitted under IARI PG outreach programme at ICAR-IIHR, Bengaluru.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE ENROL |
|-------|-----------------------------|---------|--|--|
| 1. | SOUDAMANI KARJEE | 11030 | FLORICULTURE AND LANDSCAPE ARCHITECTURE | 28/07/2017 |
| 2. | PARVATHI BENNURMATH | 11031 | and the second and th | popularione management de la displace de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de la companya del la com |
| 3. | ANAMIKA GURUNG | 11032 | | |
| 4. | PRASHANT SANTRAM KALAL | 11036 | FRUIT SCIENCE | *** |
| Š. | NUSRAT PERVEEN | 11037 | ### ################################# | |
| 6. | KIRAN KUMAR G N | 11041 | | |
| 7. | NANDKISHOR MADHAVRAO KANADE | 11042 | | . # |
| 8. | PRADEEP KUMAR VISHWAKARMA | 11044 | | and the first to the state of t |
| 9. | ANUSREE ANAND | 11104 | POST HARVEST TECHNOLOGY | \$ |
| 10. | SACHINAJ | 11105 | | 答 |
| 11. | DEEP LATA | 11106 | | and an example of the contract |
| 12. | KARTHIK NAYAKA V S | 11107 | | |
| 13. | SOURAV MAHAPATRA | 11132 | VEGETABLE SCIENCE | |
| 14. | KOUSHIK SAHA | 11133 | | |
| 15. | SWAMINI BHOI | 11137 | | |
| 16. | MANISHA | 11138 | | |

405.3.4 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to the following 12 students admitted under IARI PG outreach programme at ICAR-CIAE, Bhopal.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE_ENROL |
|-------|---------------------------|---------|---|--|
| 1. | ANUPAM AMITABH | 10943 | AGRICULTURAL ENGINEERING | 28/07/2017 |
| 2. | PRAMOD SHIVAJI SHELAKE | 10944 | B | |
| 3. | MOUSUMI SABAT | 10945 | | |
| 4. | ANJALI SUDHAKAR | 10946 | | in the state of th |
| 5. | BHUKYA JITHENDER | 10947 | * | |
| ŝ. | SANKET RAMNATH SAWANT | 10948 | N | \$ A |
| 7. | MANISHA HANUMANT JAGADALE | 10951 | | |
| | PRABHAKAR SHUKLA | 10952 | en en esta en esta en | # |
| | PREM VEER GAUTAM | 10953 | | |
| IO. | KONGA UPENDAR | 10956 | | |
| 14. | SUSHANTA PADHAN | 10957 | # | |
| 12. | VIKAS PAGARE | 10968 | *** | |

405.3.5 Award of Institute Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 10 students who were admitted under Faculty Up-gradation Scheme.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE ENROL |
|-------|---|---------|--------------------|--|
| di. | Ms. POLA SUNITHA Dr. YSRH UNIV. ANDHRA PRADESH | 11021 | ENTOMOLOGY | 28/07/2017 |
| 2. | YANA YENKANNA SRI KL TSH UNIV., HYDERABAD | 11022 | ** | na akan kan akan akan kalunda pangunya menan manga akan angunaphan manga kapan angunaphan manga kapan angunaph Tipan Tipan |
| 3. | SRIDHAR RAMACHANDRA UAHS SHIV., KARNATAKA | 11043 | FRUIT SCIENCE | ¥ |
| 4, | RAVI KIRAN TIRUMALA K | 11049 | GENETICS AND PLANT | . 19 |

| | ICAR-CSSRI, KARNAL | | BREEDING | |
|-----|--|-------|------------------------------|---|
| 5. | VENKATA R PRAKASH REDDY ACHARYA NGRA UNIV, GUNTUR | 11051 | # | |
| 6. | JOGDANDE SAI PRASAD PROF, JTSAU, HYDERABAD | 11067 | MICROBIOLOGY | the formula on the state of the property of the state of |
| | MADEM GURIVI REDDY ACHARYA NGRA UNIV. GUNTUR | 11093 | PLANT PATHOLOGY | |
| 8. | SREENATHA A. UNIV. OF HORT, SCIENCES, BAGALKOT | 11112 | POST HARVEST TECHNOLOGY | |
| 9. | HARI KRISHNA B. PROF. JTSAU, HYDERABAD | 11144 | WATER SCIENCE AND TECHNOLOGY | |
| (O) | SUNIL MAND! ICAR-CTRI RES. STATION, DINHATA - WB | 10999 | AGRONOMY | \$ |

405.3.7 Award of Contingent grant only @ Rs.10,000/- per annum to the following two students who was admitted under Dept.-Scientific Category.

| - 3 | | In Association and Control of the Co | | |
|---------|--|--|---|--|
| Officer | S.NO. NAME OF THE STUDENT | | | |
| 1 | | ROLL NO | DISCIPLINE | CAYP PARK |
| ŧ | RISHI RAJ | A State of the same of the sam | Professional Control of the Control | DATE ENROL |
| 900 | in the state of th | 10987 | AGRONOMY | |
| - 4 | | | 1.01.21.0141 | ananan |
| - 1 | 2. Ms. MADHU BALA PRIYADARSHI | 11013 | | 28/07/2017 |
| - 1 | in the second of | 11013 | COMPUTER APPLICATION | : |
| | | | | , de la companya de l |
| | | The state of the s | | |

405.3.8Following 14 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Sr. Scholarship from IASRI, New Delhi.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | BATE ENDA: |
|-------|---------------------------|---------|--|------------|
| 1 | DIPANKAR MITRA | 10972 | AGRICULTURAL | 28/07/2017 |
| 2 | AKHILESH JHA | 10973 | STATISTICS * | 4 |
| 3 | NO. YEASIN | 10974 | | |
| 4 | ASHIS RANJAN UDGATA | 10975 | | |
| 5 | RONIT JAISWAL | 10976 | | |
| 6 | SAMIR BARMAN | 10977 | | |
| 7 | Ms. RITWIKA DAS | 11005 | BIOINFORMATICS | |
| 8 | Ms. SNEHA MURMU | 11006 | Division Control (CO) | |
| 9 | Ms. SHWETA KUMARI | 11007 | | |
| 10 | Ms. SAPNA NIGAM | 11008 | and the state of t | # |
| 11 | ARPAN KUMAR MAJI | 11010 | COMPUTER APPLICATION | *** |
| 12 | ASIT KUMAR PRADHAN | 11011 | | * |
| 13 | HIMANSHUSHEKHAR CHAURASIA | 11012 | | ## |
| 14 | DILIP KUMAR | | | 3 |
| - | | 11148 | ¥ | # |

405.3.9 The award of Institute Sr. Scholarship to the following 6 in-service students was not recommended as they have already availed the benefit of Scholarship during their last admission at IARI and left the course incomplete. Further, (i) the necessary recovery on account of Surety Bond etc. as per rule may also be made from these students, if still due and (ii) to avoid second time award of fellowship, a suitable undertaking to the effect that the students has not availed the benefit of Scholarship earlier from or through IARI/ICAR, may be obtained, in future.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE ENROL | Scheme |
|-------|---------------------|---------|--------------------------------|------------|-------------------|
| 1, | VIKAS SHARMA | 11064 | MICROBIOLOGY | 28/07/2017 | FUS |
| 2. | SURESH KUMAR | 10937 | AGRICULTURAL ECONOMICS | 28/07/2017 | ICAR In-service |
| 3. | PRAVEEN K.V. | 10941 | | 2887770147 | 10447 111-3614103 |
| 4. | MUKESH SANKAR S. | 11054 | GENETICS AND PLANT BREEDING | 28/07/2017 | 9 |

| 5. | CHANDRAMANI DATTATRAYA WAGHMARE | 11079 | NEMATOLOGY | 28/07/2017 | 5 |
|----|------------------------------------|-------|------------------|------------|---|
| 6. | PRINCE CHOYAL | 11096 | PLANT PHYSIOLOGY | 28/07/2017 | 8 |

405.3.10 Award of IARI Jr. Scholarship@ 7,560/- per month + Rs. 6,000/- per annum as contingent grant to the following 57 M.Sc./M.Tech. students (including 6 students admitted for IARI-Assam and 5 students for IARI-Jharkhand) who have not been awarded ICAR-JRF.

| ši. Vo. | NAME OF THE STUDENT | ROLLNO | DISCIPLINE | DATE_ENRO |
|-----------------------------|------------------------------|--------|---|---------------------------|
| ARI, | NEW DELKI | | | |
| 1. | INAGARJUN T. R. | 20911 | AGRICULTURAL CHEMICALS | 17/07/2017 |
| 2. | Ms. MADHU TIPPANANAVAR | 20912 | TAGRICULTURAL CHEMICALS | 18/07/2017 |
| 3. | ÁSUBHASIS SARKAR | 20913 | TAGRICULTURAL CHEMICALS | 118/07/2017 |
| 4. | Ms. GEETHA M. L. | 120918 | AGRICULTURAL ECONOMICS | 18/07/2017 |
| 5. | AKSHAY SANJAY MAHADIK | 20923 | JAGRICULTURAL ENGINEERING | 118/07/2017 |
| 6. | RATHOD SUNIL KUMAR | 20924 | AGRICULTURAL ENGINEERING | 18/07/2017 |
| 7. | KUNDAN KUMAR | 20927 | AGRICULTURAL ENGINEERING | 18/07/2017 |
| 8. | PRADEEP TIPPANNANAVAR | 20931 | TAGRICULTURAL EXTENSION | 118/07/2017 |
| 9. | CHANDAN GOWDA H. | 120932 | AGRICULTURAL EXTENSION | 117/07/2017 |
| 10. | SONA KUMAR | 20934 | AGRICULTURAL PHYSICS | 18/07/2017 |
| 11. | Ms. PRIYA BHATTACHARYA | 120935 | JAGRICULTURAL PHYSICS | 118/07/2017 |
| 12. | KOUSHIK BAG | 20936 | AGRICULTURAL PHYSICS | 118/07/2017 |
| 13. | ARAVNOK S. | 20937 | AGRICULTURAL PHYSICS | 118/07/2017 |
| 14. | Ms. RUXANABI NARAGUND | 20945 | TAGRONOMY | 117/07/2017 |
| 15. | R RUSTUM ZHIIPAO | 120946 | TAGRONOMY | 18/07/2017 |
| 16. | DURGASI VENKATA BHARGAV | 20952 | BIOCHEMISTRY | 118/07/2017 |
| 17 | IASHOK KUMAR SAU | 20967 | ENTOMOLOGY | 18/07/2017 |
| 18, | DEEPANSHU JANGID | 120971 | ENVIRONMENTAL SCIENCES | 18/07/2017 |
| 19. | RAHLI KARJEE | 20972 | ENVIRONMENTAL SCIENCES | 118/07/2017 |
| 20. | Ms. DIVYA POOJA B. | 20973 | ENVIRONMENTAL SCIENCES | 118/07/2017 |
| 21. | IROCKY KUMAR | 20974 | ENVIRONMENTAL SCIENCES | 117/07/2017 |
| 22. | Ma. VINITA | 120975 | ENVRONMENTAL SCIENCES | 117/07/2017 |
| 23. | DAVENDRA KUMAR | 120978 | FLORICULTURE AND LANDSCAPE ARCHITECTURE | 118/07/2017 |
| 24. | Ns. MEGHA R. | 120979 | FRUIT SCIENCE | 18/07/2017 |
| 25. | : ISHIVANAGOUDA PATIL N. | 121030 | GENETICS AND PLANT BREEDING | 127/07/2017 |
| 26. | Ms. SNEHA G. R. | 120993 | MICROBIOLOGY | 18/07/2017 |
| 27. | MUHAMMED SHAMNAS V. | 20994 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | |
| 28. | KRISHNAYAN PAUL | 20996 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 18/07/2017 18/07/2017 |
| 29. | Ms. SOWYA GUPTA | 21043 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | |
| 30. | ABHISHEK GOWDA A. P. | 21002 | NEMATOLOGY | [25/07/2017 |
| 31. | Ms. DEEPIKA D. D. | 21006 | PLANT GENETIC RESOURCES | 118/07/2017 |
| 32. | K SRINIVAS | 21007 | PLANT GENETIC RESOURCES | 117/07/2017 Tabbanana |
| 33. | Ms. MONIKA JHA | 21008 | PLANT GENETIC RESOURCES | 118/07/2017 |
| | LHAM DORJEE | 121009 | PLANT PATHOLOGY | 17/07/2017 |
| عشيدة ننصرت | Ms. RASHMIE, R. | 121012 | PLANT PATHOLOGY | [18/07/2017 |
| ورويده والمراجعة | Ms. CHARISHMA K. | 21013 | PLANT PATHOLOGY | 118/07/2017 |
| | IUMESH KUMAR | 21015 | PLANT PATHOLOGY |]18/07/2017 |
| فالمنافذ والمنافذ والمناوات | ÎRAVEENDRAN M. | 121018 | PLANT PHYSIOLOGY | |
| Manager State | TURNE SUMIT BHAUSAHEB | 20921 | POST HARVEST TECHNOLOGY | 19/07/2017 |
| 40. | Ms. SAMPADASHANKAR | 121024 | POST HARVEST TECHNOLOGY | 17/07/2017 |
| ومجزز سائستهامت | Ms. SHRUTI KUMARI | 121025 | SEED SCIENCE AND TECHNOLOGY | 118/07/2017 Tremanna |
| 42. | TAKASH A. | 121029 | SEED SCIENCE AND TECHNOLOGY |]18/07/2017 |
| | MOHANKUMAR K. T. | 21032 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 18/07/2017 118/07/2017 |
| 44. | ICHAUHAN SHOHAIB SHEIKH AYUB | 121035 | VEGETABLE SCIENCE | 115/07/2017 |
| 45. | Ms. DIANA DHAYAL | 21040 | WATER SCIENCE AND TECHNOLOGY | 117/07/2017 |
| 46. | RAINEESH KUMAR | 121042 | WATER SCIENCE AND TECHNOLOGY | 18/07/2017 117/07/2017 |

| IARI | ASSAM | | | |
|------------|--|--|--|---|
| SI. No. | NAME OF THE STUDENT | CO The second of | DISCIPLINE | DATE ENRO |
| 47. | JAKSHAY KUMAR YOGI | 50034 | IAGRONOMY | 26/07/2017 |
| 48. | CHETHAN KUMAR V. | 50025 | GENETICS AND PLANT BREEDING | 17/07/2017 |
| 49 | MS JANANI R | 50029 | VEGETABLE SCIENCE | 118/07/2017 |
| 50. | CHANDANT. | 50031 | WATER SCIENCE AND TECHNOLOGY | 18/07/2017 |
| 51. | YOGESH LAL | 50032 | WATER SCIENCE AND TECHNOLOGY | 17,07/2017 |
| 52 | Ms. AROCKIA ANUSTY J. | 50033 | WATER SCIENCE AND TECHNOLOGY | 117/07/2017 |
| ARI, | JHARKHAND | | o des estados (miles) e destributados desenvirantes en la constitución de la constitución de la constitución d La constitución de la constitución | A CONTRACTOR OF STREET |
| SI. Vo. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE_ENROL |
| 53 | CHUNENDRA PRAKASH | 60020 | AGRONOMY | 18/07/2017 |
| 54. | MANORANIAN SENAPATI | 160022 | GENETICS AND PLANT BREEDING | in in the second programme and the second |
| 55. | APONETS. | 60031 | VEGETABLE SCIENCE | 18/07/2017 |
| 56. | SHARANAYYA | 160029 | WATER SCIENCE AND TECHNOLOGY | 26/07/2017 |
| 57. | VED PRAKASH MEENA | 60030 | WATER SCIENCE AND TECHNOLOGY | 18/07/2017 |
| Assalayii, | and the second s | g the set the set side. | LIGHT ONE ONE WAS LECUIALITY | 17/07/2017 |

405.3.11 Following 14 M.Sc. students who were admitted in the disciplines of Agricultural Statistics, Bioinformatics and Computer Application will get their Scholarship from IASRI subject to fulfilment of prescribed formalities by IASRI, New Delhi.

| i.No | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE ENFOL |
|------|---------------------|---------|-------------------------|--|
| 1. | VINAYAKA | 20938 | AGRICULTURAL STATISTICS | 18/07/2017 |
| 2. | Ms. TANIMA DAS | 20939 | AGRICULTURAL STATISTICS | 18/07/2017 |
| 3. | VINAYKUMAR L. N. | 20940 | AGRICULTURAL STATISTICS | 17/07/2017 |
| 4 | RAHUL KUMAR GUPTA | 20943 | AGRICULTURAL STATISTICS | 17/07/2017 |
| 5. | Ms. ANKITA VERMA | 20944 | AGRICULTURAL STATISTICS | 17/07/2017 |
| 6. | NITESH KUMAR SHARMA | 20954 | BIOINFORMATICS | 18/07/2017 |
| 7. | NAVEENKUMAR H.S. | 20955 | BIOINFORMATICS | 17/07/2017 |
| 8. | BAIBHAV KUMAR | 20957 | BIOINFORMATICS | 17/07/2017 |
| 9. | JUTANDAS | 20958 | BIOINFORMATICS | 17/07/2017 |
| 10. | ABHISHEKH M. P. | 20959 | COMPUTER APPLICATION | 17/07/2017 |
| 11. | AMIT SAHA | 1 20960 | COMPUTER APPLICATION | والمتعارض والمتعادلة و |
| 12. | MOHIT KUMAR | 1 20961 | COMPUTER APPLICATION | 18/07/2017 |
| 13. | 8. JAGDISH NAIK | 20962 | COMPUTER APPLICATION | 17/07/2017 |
| 14. | Ms. LISHI KUMARI | 20964 | COMPUTER APPLICATION | 18/07/2017 21/08/2017 |

Agenda Item No. 405.4: Consideration of the proceedings of the meeting of the Standing Committee on Course Curricula and Academic Affairs held on 22.11.2017.

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

405.4.1 The Academic Council agreed on the proposal of PGR for renaming the "Plant Genetic Resources" degree as "Plant Genetic Resources and Economic Botany" to widen the career opportunities for the students subject to the condition that the BOS of PGR discipline may review and revise the existing courses in light of the changed degree nomenclature.

- **405.4.2** Consideration of a proposal of ICAR-IIHR, Bengaluru for renaming the PHT degree as Horticulture (Post Harvest Technology)
- 405.4.3 Consideration of a proposal of Board of Studies, PIIT, IARI for renaming M.Sc. degree as M.Sc. Horticulture (Post Harvest Technology)
- 405.4.4 Consideration of a proposal to retain the nomenclature of the degree in the discipline Computer Application and Bioinformatics as M.Sc. (Computer Application) and M.Sc. (Bioinformatics), not pre-fixing with M.Sc. (Agriculture) as approved in 404th Meeting of the Academic Council

The Academic Council discussed the above issues in detail and decided that keeping in view the uniform nomenclature for M.Sc. degree as recommended by the 5th Deans' Committee, the same should be maintained at IARI in all the disciplines as already decided by the Academic Council, in its 404th meeting held on 7.7.2017 except for the disciplines of Bioinformatics, Computer Application and Molecular Biology and Biotechnology, subject—to the clarification from the Education Division.

- 405.4.5. The Academic Council discussed the instructions of UGC, as recommended by the Standing Committee to make students aware about disaster management, planning for natural disasters and emergencies and decided that a Non Credit Compulsory E-Course "PGS 507" (one Credit) may be developed by the Discipline of Agricultural Extension from 2018-19 session covering the aspects: (i) Bomb threat, (ii) Earthquake, (iii) Explosion, (iv) Hazardous materials spill/release, (v) Campus shooting, (vi) Terrorist incidence and (vii) Financial emergency such as (a) A sudden health emergency, (b) unexpected loss of income, (c) Death in the family or other family emergency, (d) Rent in arrears and risk of eviction and (e) Natural disaster, (f) the social aspect/dealing with above threats, etc.
- 405.4.6 Keeping in view the availability of one Research Guide and six faculty members at ICAR-CIAE, Bhopal, the Academic Council approved the start of third sub discipline of Agricultural Engineering: Soil and Water Conservation Engineering at ICAR-CIAE, Bhopal by allocating one seat for Ph.D. for admission during the academic session 2018-19.
- 405.4.7 The Academic Council discussed the views of Director, ICAR-IISWC, Dehradun showing their inability to start M.Sc./M.Tech. degree programme at IISWC, Dehradun from the Academic Session 2018-19. Keeping in view of the above, the Academic Council decided to defer the start of academic programme at IISWC, Dehradun till the creation/development of minimum necessary students' amenities/facilities. Further, the expertise of the ICAR-IISWC scientists could be utilised in the research programme of IARI students in the discipline of Agricultural Engineering.
- **405.4.8.** The Academic Council approved the proposal to hold discipline-wise common qualifying exam for Ph.D. students at IARI (instead of single student based) of the concerned students after completion of 75% of course work both in the major and minor fields.

Agenda Item No. 405.5: Consideration of the proceedings of the meeting of the Standing Committee on Faculty & Discipline held on 5.12.2017

The Academic Council approved the following recommendations made by the Standing Committee on Faculty and Discipline:

405.5.1 Recommended the candidature of following **twenty one** Scientists for induction into P.G. Faculty in their respective disciplines.

| S. No. | Name & Designation | Name of the Discipline |
|--|---|--|
| | IARI, New Delhi | |
| 1 | Dr. Teekam Singh, Senior Scientist | Agronomy |
| Ser 2 | Dr. Arun Kumar Shukla, Principal Scientist, IARI RS Shimla | Fruit Science |
| 3. | Dr.(Mrs.) PrachiShripatroa Yadav, Scientist | Genetics and Plant Breeding |
| 4. | Dr.Ambrish Kumar Sharma, Principal Scientist | Genetics and Plant Breeding |
| 5. | Dr. Gyan Prakash Mishra, Scientist | Genetics and Plant Breeding |
| 6. | Dr. NaliniRanjan Kumar, Principal Scientist, NAIP | Agricultural Economics |
| 7. | Dr. Harbir Singh, Principal Scientist | Agricultural Economics |
| 8. | Dr. Jitendra Kumar Ranjan, Senior Scientist | Vegetable Science |
| 9. | Dr. Rashid Pervez, Principal Scientist | Nematology |
| Can Can | Dr. D. Vijay, Senior Scientist | Seed Science & Technology |
| | Dr. Yasin Jeshma K, Scientist, NBPGR | Bioinformatics |
| 12. | Dr. Anil Kumar Singh, Principal Scientist, IARI RS Indore | Agricultural Extension |
| 13. | Dr.KuldeepTripathi, Scientist | Plant Genetic Resources |
| 14. | Dr. NeerajPatanjali, Scientist, SSAC | Agricultural Chemicals |
| 15. | Dr. Sarika, Scientist | Agricultural Statistics |
| | ICAR-IIHR, Bengaluru | |
| 16. | Dr. Smaranika Mishra, Scientist, IIHR Bengaluru | Vegetable Science |
| place of the state | Dr. T.R. Rupa, Principal Scientist, IIHR Bengaluru | Soil Science and Agricultural Chemistry |
| | ICAR-CIAE, Bhopal | and the second s |
| 8. | Dr. N.S. Chandel, Scientist | Agricultural Engineering (FMP) |
| 19. | Dr. Manoj Kumar, Scientist | Agricultural Engineering (FMP) |
| 20. | Dr.Adinath Kate, Scientist | Agricultural Engineering (ASPE) |
| Standillocation control to take the standillocation of the standillo | Dr. K.V. Ramana Rao, Principal Scientist | Agricultural Engineering (SWCE) |

405.5.2 The application of following scientists should be routed through the Board of Studies of their concerned parent disciplines.

| S. No. | Name & Designation | Name of the present Discipline | Ph.D. Degree in |
|---|---|-----------------------------------|-----------------------|
| | Dr. Vijay Singh Meena, Scientist | Plant Genetic Resources | Horticulture |
| L. | Dr. Surendra Pal Singh, Principal Scientist | Plant Genetic Resources | Entomology |
| J. | Dr. Archana Watts, Scientist | Plant Physiology | Molecular Biology and |
| Egypter (/ / / / / / / / / / / / / / / / / | | | Biotechnology |

| 9-01-60-00-00-00-00-00-00-00-00-00-00-00-00- | 4. | Dr.Pranita Jaiswal, Principal Scientist | Microbiology | Botany |
|--|----|---|-------------------------|--------------------|
| Section 2 | 5. | Dr. S. Vimla Devi, Senior Scientist | Plant Genetic Resources | Genetics and Plant |
| Oktobered | | | | Breeding |

405.5.3 Did not recommend the induction of following ten scientists as Faculty Members as they do not meet the prescribed requirement of teaching and/research publications.

| S. No. | Name & Designation | Name of the Discipline | Reason for Declining |
|-------------|---|------------------------------------|---|
| Televació . | Dr.Arun Kumar T V, Scientist | Agricultural Engineering (ASPE) | Short of one Research Publication |
| 2. | Er. A P Pandurang, Scientist | Agricultural Engineering (ASPE) | Short of three years post M.Tech. experience as Scientist and short of two Research Publication |
| 3. | Dr. AshutoshPradeeprao, Scientist, CIAE, Bhopal | Agricultural Engineering (FMP) | Short of one Research Publication |
| 4. | Er. Ajit Kumar Naik, Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of three Research Publication |
| 5. | Dr. Mukesh Kumar, Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of one Research Publication |
| 6. | Er. RadheRavindra D Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of two Research Publication |
| 7. | Er. Waghaye Abhishek M. Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of three Research Publication |
| 8. | Dr. Yogesh Rajwade Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of two Research Publication |
| 9. | Dr. Raghu B R, Scientist, IIHR, Bengaluru | Genetics and Plant Breeding | Want of Publications |
| 10. | Mrs. Pushpa Chetan Kumar, Scientist, IIHR, Bengaluru | Post Harvest Technology | Want of Publications, MSc. Degree and Transcript |

405.5.4 Recommended the following fifteen faculty members as Research guides for M.Sc. guidance in their respective disciplines as they meet the prescribed requirement for becoming the research guides.

| S. No. | Name & Designation | Name of the Discipline |
|-----------|--|--------------------------------|
| y have | Dr. R.P. Pant, Principal Scientist | Plant Pathology |
| 2. | Dr. Kanhaiya Singh, Principal Scientist | Fruit Science |
| 3. | Dr. Tushar Kanti Bag, Principal Scientist | Plant Pathology |
| 4. | Dr. Madhubala Thakre, Scientist | Fruit Science |
| 5, | Dr. Mir Asif Iqebal, Scientist | Agricultural Statistics |
| 6. | Dr. Wasi Alam, Scientist | Agricultural Statistics |
| 7. | Dr. Neelu Jain, Senior Scientist | Genetics and Plant Breeding |
| 8. | Dr. Venu Lenin, Senior Scientist | Agricultural Extension |
| 9. | Dr. K.K. Chaturvedi, Senior Scientist | Bioinformatics |
| 10. | Dr. D.C. Mishra, Scientist | Bioinformatics |
| 11, | Dr. Praveen Kumar Singh, Principal Scientist | Vegetable Science |
| 12. | Dr. T. Nepolean, Principal Scientist | Bioinformatics |
| 13. | Dr. Sanjeev Kumar, Scientist | Bioinformatics |
| 14. | Dr. Satish DevramLande, Scientist | Agricultural Engineering (FPE) |

15. * Dr. C. Vasugi, Principal Scientist, IIHR, Bengaluru Fruit Science

*eligible and recommended for Ph.D. guidance

405.5.5 Did not recommend the recognition of the following thirteen faculty members as Research Guides as they do not meet the prescribed requirement of teaching experience/student guidance.

| S. | Name and Designation | | |
|--|--|---------------------------------|--|
| No. | | Name of the Discipline | Reason for declining |
| 1. | Dr. Sandhya Gupta, Principal Scientist, NBPGR, New Delhi | Plant Genetic Resources | Short of One year teaching experience |
| 2. | Dr. Nimisha Sharma, Scientist, IARI, New Delhi | Fruit Science | Short of One year teaching experience |
| 3. | Dr. M. Sankaran, Principal Scientist, IIHR, Bengaluru | Fruit Science | Short of one student guidance |
| 4. | Dr. J. Satisha, Principal Scientist, IIHR, Bengaluru | Fruit Science | Short of one year teaching experience and one student guidance |
| | Dr. Anuradha Sane, Principal Scientist, IIHR, Bengaluru | Fruit Science | Short of two year teaching experience and two student guidance |
| 6. | Dr. H.S. Oberoi, Principal Scientist, Microbiology, IIHR, Bengaluru | Post Harvest Technology | Not eligible for PHT as his parent discipline is Microbiology (also Short of one year teaching |
| 7, | Dr. T. Sakthivel, Principal Scientist, IIHR, Bengaluru | Fruit Science | experience and student guidance) Short of two year teaching experience and two student guidance |
| 8. | Dr. Saroj Kumar Giri, Principal Scientist, CIAE, Bhopal | Agricultural Engineering (ASPE) | Short of two student guidance |
| 9. | Dr. K.P. Singh, Senior Scientist, CIAE, Bhopal | Agricultural Engineering (FPE) | Short of two student guidance |
| (All of the second seco | Dr. B.M. Nandede, Scientist, CIAE, Bhopal | Agricultural Engineering (FPE) | Short of one year teaching experience, two research publications and two student guidance |
| Total State of State | Dr. Sandeep Gangil, Principal Scientist, CIAE, Bhopal | Agricultural Engineering (FPE) | Short of one year teaching experience and two student guidance |
| 12. | Dr. K.V. Ramana Rao, Principal Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of two research publications and two student guidance |
| *3, ····· | Dr. C.K. Saxena, Senior Scientist, CIAE, Bhopal | Agricultural Engineering (SWCE) | Short of two research publications and two student guidance |

- 405.5.6 The Academic Council agreed on the recommendation of the Standing Committee that the candidature of **Dr. Ashwani Kumar**, Former Director, ICAR-IIWM for recognition of **Adjunct faculty** in the discipline of Water Science and Technology, IARI as per prescribed guidelines approved by the Academic Council in its 402nd meeting held on 30/11/2016 and notified vide Notification No. PGS/1-402/AC/2016 dated 20/1/2017.
- 405.5.7 The Academic Council discussed the recommendations of the Standing Committee on the representations from the Principal Scientists of Nematology/Agricultural Chemicals/Faculty Representative and opined that the existing Assessment Criteria for nomination of Professor should be continued.

Agenda Item No. 405.6 Consideration of the Academic Calendar for the 61st Academic Session 2018-19

The Academic Council approved the Academic Calendar of the P G School for the 61st Academic Session.

| | Admission | Process for the Academic Session 2018-2019 | | | |
|---------------------------------|---|--|--|--|--|
| 2018 | / #4################################### | is rucess for the Academic Session 2018-2019 | | | |
| March 10-11 | Saturday & Sunday | Advertisement for inviting on line applications for Ph.D. admission will be published in all the leading national news papers | | | |
| March 12 | Monday | Receipt of online applications for Ph.D. admission starts | | | |
| April 16 | Monday | The state of the s | | | |
| April 23 | Monday Last date for receipt of through proper channel applications and documents submission | | | | |
| June 03 | Sunday | Entrance Examination for admission to Ph.D. Programme | | | |
| June 18 | Vonday | Last date for submission of thesis by IARI M.Sc. students who have applied for admission to the Ph.D. Programme | | | |
| June 23 | Saturday | Declaration of result of Written Test for admission to Ph.D. programme | | | |
| June 30 | Saturday | Last date for receipt of mark sheet from the candidates who are studying in M.Sc. final year | | | |
| July 02 | Monday | Interview for admission to Ph.D. Programme in the respective disciplines | | | |
| July 07 | Saturday | Academic Council meeting for finalization of results for M.Sc. & Ph.D. admissions 2018-19 | | | |
| July 26-27 | Thursday & Friday | Verification of original documents and online Registration of newly admitted M.Sc. and Ph.D. Programmes 2018-19 | | | |
| July 28 | Saturday | Orientation Programme: Newly admitted students to be addressed by Dean and Director, IARI | | | |
| l – Trimester | | | | | |
| 113°y 30 | Monday | First Trimester begins, payment of fees and online registration of continuing students | | | |
| July 31 | Tuesday | Commencement of Class Work | | | |
| August 16 | Thursday | Last date for adding/dropping of course | | | |
| September 05 | Wednesday | Teacher day celebration and lecture | | | |
| November 12 | Monday | National Agricultural Education day celebration and lecture | | | |
| Vovember 13 o Vovember 17 | Tuesday to Saturday | Final Examination of I Trimester | | | |
| I – Trimester | | | | | |
| lovember 19 | Monday | Online Registration of students | | | |
| iovember 20 | Tuesday | Commencement of Class Work | | | |
| ecember 02 | Sunday | Agricultural Education Day | | | |
| ecember 04 | Tuesday | Last date for adding/dropping of courses | | | |
| Vecember 16) Vecember 30 | Sunday to Sunday | Winter Break | | | |

| 2009 | | |
|----------------------------------|--------------------------|--|
| January 28 | Monday | Last date for holding of Final Viva- Voce Examination for consideration for award of IARI Merit Medals and award of degree in the 57 th Convocation, 2019 |
| February 04 | Monday | Commencement of 57th Convocation Week Programme |
| February 07 | Thursday | 49 th Lal Bahadur Shastri Memorial Lecture |
| February 08 | Friday | 57 th Convocation |
| February 23 to February 25 | Saturday to Monday | Annual Sports Meet (Tentative) |
| March 25 to March 30 | Monday to Saturday | Final Examination of II Trimester |
| III - Trimesie | | |
| April 01 | Monday | Online Registration of students |
| April 02 | Tuesday | Commencement of Class Work |
| April 16 | Tuesday | Last date for adding/dropping of course |
| May 26 to June 16 | Sunday to Sunday | Summer Vacation |
| July 15 to July 20 | Monday to Saturday | Final Examination of III Trimester |
| July 21 to July 28 | Sunday to Sunday | Trimester Break |

Agenda Item No. 405.7: Finalisation of 56th Convocation Week Programme

The Academic Council approved the following 56th Convocation programme of IARI scheduled from February 5-9, 2018.

Venue: Dr. B.P. PalAuditorium Monday, February 05, 2018

| | cravitatila properti de contra de co |
|------------------|--|
| 09.30-18.00 hrs. | Presentation of "Significant Post Graduate Students Research" by M.Sc. & |
| | Ph.D. students for "Merit Medals" and "Best Student of the Year" award |

Tuesday, February 06, 2018

Presentation of Significant Educational Achievements for the year 2017 by the Professors representing different schools of the teaching disciplines

| 09.30-11.15 hrs. | Session I – Crop Improvement |
|------------------|------------------------------------|
| 11.30-13.00 hrs. | Session II - Crop Protection |
| 14.00-15.45 hrs. | Session III - Resource Management |
| 16.00-17.00 hrs. | Session IV – Basic Sciences |
| 17.15-18.30 hrs. | Session V - Horticultural Sciences |

Wednesday, February 07, 2018

Presentation of Significant Educational Achievements for the year 2017 by the Professors representing different schools of the teaching disciplines

09.30-10.45 hrs.

Session VI - Social Sciences

Award Lectures

11.00-12.15 hrs.

Lecture by the Recipient of SukumarBasu Memorial Award

12.30-13.45 hrs.

Lecture by the Recipient of Shri HarikrishnaShastri Memorial Award

15.00-16.15 hrs.

Lecture by the Recipient of Dr. A.B. Joshi Award

Thursday, February 08, 2018

Venue: Conference Hall, IARI Library

09.30-10.30 hrs.

406th Meeting of the Academic Council, IARI

11.00-12.00 hrs.

Meeting of Board of Management, IARI

12.15-13.00 hrs.

Press Conference

Venue: Dr. B.P. Pal Auditorium

14.00-15.30 hrs.

48th Lal Bahadur Shastri Memorial Lecture

Venue: Lawns of Dr. B.P. PalAuditorium

15.45-16.30 hrs.

Full Dress Rehearsal

Friday, February 09, 2018

Venue: Lawns of Dr. B.P. PalAuditorium

10.00-12.00 hrs.

56thConvocation

Venue: Dr. B.P. PalAuditorium

18.00 hrs.

Cultural Programme by P. G. Students

Venue: Lawns of Genetics Division

20.00 hrs.

Convocation Dinner

The process on the following items has already been completed with the approval of the Chairman of the Academic Council to enable the P.G. School to complete all the pre-convocation requirements well in time. The action taken was approved by the Academic Council.

- 1. Finalization of Chief Guest
- Chairpersons for the various Programmes
 - i) Chairman, Judging Committee and Convenor for the programme "Significant Post Graduate Students Research-2017 presentation" by the PG students for IARI Merit Medals" and Best Student of the Year Award on Monday, February 05, 2018 (Convener: Dr. D.K. Singh, Professor, Agricultural Engineering)
 - ii) Chairpersons and Conveners for the Programme "Presentation of Significant Educational Achievements of IARI for the year 2017" by the Professors of teaching disciplines representing different schools on Tuesday, February 06, 2018 (Convener: Dr. T.K. Behera, Professor, Vegetable Science)

- 3. Lecture by the recipients of the following awards
 - i) SukumarBasu Memorial Award
 - ii) Shri Hari Krishna Shastri Memorial Award
 - iii)Dr. A.B. Joshi Memorial Award
- 4. Speaker to deliver 48thLal Bahadur Shastri Memorial Lecture:
- 5. Chairman for the 48thLal Bahadur Shastri Memorial Lecture:
- 6. Chairpersons for the below mentioned Committees:

| i) Pandal and Seating Arrangements Committee | Dr.Indra Mani, Head, Agricultural Engineering |
|--|---|
| ii) Catering Arrangement Committee | Shri M.K. Jain, Joint Director (Admn.)(Acting) |
| iii) Invitation Committee | Dr. (Ms.) Rashmi Aggarwal, Head, Plant Pathology |
| iv) Reception Committee | Dr. B.S. Dwivedi, Head, SS&AC |
| v) Cultural Programme & Invocation Song Committee | Dr. (Mrs.) K. Annapurna, Head, Microbiology |
| vi) Decoration Committee | Dr.Markandey Singh, Senior Scientist, FLS |
| vii) Publicity Committee | Dr. R.N. Padaria, Professor, Agricultural Extension |
| viii) Transport and Accommodation Committee | Sh. Pushpender Kumar, Chief Admn. Officer |

Agenda Item No.405.8:

Consideration of the list of the candidates who have become eligible for award of their respective degrees of Master of Science and Doctor of Philosophy as on 13.12.2017

The Academic Council approved the list of 137 candidates for the award of degree of M.Sc./M.Tech. and 50 candidates for Doctor of Philosophy who have completed all the prescribed requirement including their Final Viva-Voce Examination as on 13.12.2016 (Appendix-I).

Agenda Item No. 405.9: Finalization of number of seats and qualification for admission to M.Sc./M.Tech. and Ph.D. degree programmes for the Academic Session 2018-19

The number of seats for M.Sc./M.Tech. and Ph.D. programmes in various disciplines at IARI, New Delhi, IARI, Jharkhand and IARI, Assam required for the Academic Session 2018-19 was approved by the Academic Council.

M. Sc./M.Tech. Programme: The seat requirement will be sent to the Education Division of ICAR as they hold the All India Entrance Examination for admission (AIEEA – PG-2018) and Award of ICAR-JRF to Master's degree programme of IARI, IVRI, NDRI, CIFE, CAU and SAU's.

| S.No. | Discipline | GEN |)BC | scl | STĮ | 2H[| Total |
|-------------------------------|---|-----|-------------------|-----|-----|------|--|
| A. 1 | ARI, NEW DELHI | | | | | | |
| 1. | AGRICULTURAL CHEMICALS | 2 | 2 | 1 | 0 | 0 | 5 |
| 2. | AGRICULTURAL ECONOMICS | 2 | 1 | 1 | 0 | 0 | 4 |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & | 1 | 0 | 0 | 0 | 0 | 1) |
| and commenter our comment the | Structure) | | alaandan ee a a a | | | 2009 | e de la companya de l |

| S.No. | 30 0 4 4 5 5 C 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | GEN | OBC | SC | ST | PH | Total |
|--|--|---|--|---|--|-------------------------|--|
| A. | IARI, NEW DELHI | december of the second | historia | Secretary and | Same of the same o | ir annessa L | ACCORDING TO SERVICE AND ADDRESS OF THE PERSONS ASSESSED. |
| 4. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 1 | 1 | 1 | 1 | 0 | distribution of the second |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 3 | A second | 10 | 10 | 0 | Propriority and the second |
| 6. | AGRICULTURAL EXTENSION | 3 | <u> </u> | 4 | 1 0 | 0 | *************************************** |
| 7. | AGRICULTURAL PHYSICS | 1 Ž | <u> Janaanana</u> | Joseph John John John John John John John Joh | Janes, | | |
| 8. | AGRICULTURAL STATISTICS | 3 | Johnney Linder | 1 | ļ | | 4 |
| 9. | TAGRONOMY | 3 | igua de la composição de | garana, a | نسسطيق | 0 | 7 |
| . 10. | BIOCHEMISTRY | 3 | distribution and the second | Jan Britannia | j. | 0 | |
| 11. | BIOINFORMATICS | <u> </u> | <u> James and and and and and and and and and and</u> | garania. | <u> </u> | 1 | 5 |
| 12. | COMPUTER APPLICATION | 1 3 | | Landa. | janan. | o | |
| 13. | | 3 | | 2) Ogranistikasisi | Printeralisas | 0 | 6 |
| 14. | and the second s | 1 2 | فينتب شنائي | Similari | - | | 5 |
| 15. | | 1 | girian menining | - Barrellander | Series in the series of the | | |
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| 17. | | 3 | Singapanananan | إنسسا | إعتمنسه | فإستسست | 5 |
| 18. | | 3 | | | humanin' | A see | 6 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 3 | 2 | | - | <u>0</u> | 5 7 |
| 20. | NEMATOLOGY | 3 | سبيتسبسسب | j. | | <u>0</u> 1 | <u>ڔڔڔؙڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔڔ</u> |
| 21. | PLANT GENETIC RESOURCES | 2 | | رورون المستدماني المرون المستدماني | | 10 | 4 |
| 22. | PLANT PATHOLOGY | 3 | 2 | إستيستخضي | إعمييت | 0 | 4 |
| 23. | PLANT PHYSIOLOGY | 3 | 1 | إيمانين عبوط اً | في تشديد | 1 | 7 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | - 3 1 | 2 | | | 01 | 5 |
| 25. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 0 | 1 | - | أسيبين | 0 | 4 |
| 26. | SEED SCIENCE AND TECHNOLOGY | | | ينبورستان | | | |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 3 | 4 | | 1 | 1 | 6 |
| 28. | VEGETABLE SCIENCE | 2 | 1 | inerverse | 0 | -01 | 4 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 2 | 1 | | | -01 | 4 |
| | | 1 | 1 | hammen (| | 0 | 2 |
| 8. | IARI, ASSAM | 67 | J0 | 20 | 101 | 4] | 133 |
| l | AGRONOMY | Marine Strategy | ~ | - | | eroninasispassa en 1 | |
| | GENETICS AND PLANT BREEDING | 1 | 01 | 1 | 0 | 0 | 2 |
| driveljoniskie redisinkajskyskisk | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2 | A section of the sect | _01 | 0 | 01 | 3 |
| | VEGETABLE SCIENCE | 1 | den e | _01 | 1 | 0]_ | 3 |
| | | 4 | 1 | 1 | 0 | _0[_ | 3 |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | IARI, JHARKHAND | 51 | 3] | 21 | 11 | 01. | 44 |
| | AGRONOMY | iningen en e | in in instance of the second | in and the second | | in in the second | والمتناعة والمسائدة |
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| kanadanan ajan, | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2] | 0_ | -1 | 0] | 1 | 3 |
| | VEGETABLE SCIENCE | 1 | 1 | -01 | 1 | 0 | 3 |
| | | 1 | 1 | _01 | 0 | 0] | 2 |
| بالمادون والمناحظ فالمناطقة | TOTAL-C | | 3 | 1 | 1 | 1 | -11 |
| وموسد ورسده والمدون والمعاولة والمالة | Grand Total) | 78 | 42 | 23 | 12] | 5] | 155 |

Ph. D. Programme: The all India Entrance Examination to the Ph.D. degree programmes at IARI is conducted by the Post Graduate School with the assistance of Examination Committee constituted by the Chairman, Academic Council.

| | İscipline | [GEN | OBC | sc | ST | PH | Total |
|--|--|----------------|-----|----|-----|--|-----------------------------|
| A. IARI, NEW DELHI | | | | | | | |
| 1. AGRICULTURAL CHEMIC | ALS | 3 | 2 | 1 | O. | n n | A |
| 2 AGRICULTURAL ECONO | MICS | 1 2 | 4 | 4 | 4 | | |
| B. AGRICULTURAL ENGG. | Agricultural Procession & | 4 | - | 4 | ~~~ | 0 | - J |
| Structure) | | and the second | V . | | Ų | U | 2 |
| A. AGRICULTURAL ENGG. | Farm Power & Fruinment | 1 | | | | Mariento de la compansión | nee-likeetimityityingajajag |
| A Company of the control of the cont | Charles to the state of the sta | 1 | l. | U | | U | 4 |

| S.No. | Discipline | GEN | OBC | SC | ST | PH | Total |
|-------|--|--|---|-------------------|--|-------------|--|
| A. | IARI, NEW DELHI | Parameter (2000) | Benjaran Keranak padapan | Reparence | Bassasana d | | |
| 5. | AGRICULTURAL ENGG.(Soil & Water Conservation Engineering) | ž. | | 0 | 0 | 0 | 3 |
| Ď. | AGRICULTURAL EXTENSION | 4 | 2 | 4 | 0 | 0 | 7 |
| 7. | AGRICULTURAL PHYSICS | 3 | 4 | 1 | 0 | 0 | 5 |
| 3 | AGRICULTURAL STATISTICS | 3 | 3 | 1 | 1 | 0 | 8 |
| 9. | AGRONOMY | 5 | 2 | 3 | 0 | 0 | 10 |
| 0. | BIOCHEMISTRY | 3 | 2 | 0 | 0 | 0 | 5 |
| 11. | BIOINFORMATICS | 3 | 4 | | 0 | Ō. | 5 |
| 12 | COMPUTER APPLICATION | 3 | 1 | No. | 1 | 1 | 6 |
| 13. | ENTOMOLOGY | 3 | 1 | 1 | 0 | 0 | 5 |
| 14. | ENVIRONMENTAL SCIENCES | 2 | 2 | 1 | 4 | | 6 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 1 | 4 | 0 | 0 | |
| 16. | FRUIT SCIENCE | 3 | 1 | | 0 | 0 | 5 |
| 17. | GENETICS AND PLANT BREEDING | 7 | 3 | 1 | 2 | 0 | 13 |
| 18. | MICROBIOLOGY | 3 | 2 | Īī | 0 | 0 | 6 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 2 | 1 | 1 | 0 | 8 |
| 20. | NEMATOLOGY | 2 | 1 | 4 | 0 | 0 | 4 |
| 21. | PLANT GENETIC RESOURCES | 3 | 1 | 10 | 1 | 0 | 5 |
| 22. | PLANT PATHOLOGY | 4 | 3 | 4 | 1 | 4 | 9 |
| 23. | PLANT PHYSIOLOGY | 3 | 2 | 1 | 0 | 0 | 6 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 1 | 1 | | 0 | 0 | 2 |
| 25. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 0 | 1 | 0 | 0 | 0 | 4 |
| 26. | SEED SCIENCE AND TECHNOLOGY | 3 | 4 | 1 | 1 | 1 | 6 |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 5 | 3 | 1 | 0 | ol | 9 |
| 28. | VEGETABLE SCIENCE | 4 | 2 | 2 | 2 | 4 | 10 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 4 | 2 | 1 | 0 | 0 | 7 |
| | TOTAL-A | 87 | 46 | 26 | 13 | 5 | 172 |
| 8. | CIAE, BHOPAL | and the state of t | Santa para para para para para para para pa | S-ruini | American | المتصنصينسك | والمراوية والمستوارة و |
| | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 3 | - Van | diameter services | Name of the last o | - Appendix | 6 |
| | AGRICULTURAL ENGG. (Farm Power & Equipment) | 3 | 2 | 1 | Ō | 0 | 6 |
| | AGRICULTURAL ENGG. (Soil and Water Conservation Engg.) | | 0 | 0 | 0 | 0 | 4 |
| | TOTAL-B | 7 | 3 | 2 | 1 | 4 | 13 |
| | Grand Total | 94 | 49 | 28 | 14 | 6 | 185 |

The following schedule related to Ph.D. Programme was approved by the Academic Council.

Date of Entrance Examination

: 3.6.2018 (Sunday)

Name of the Examination Centres: Anand, Bengaluru, Ludhiana, Coimbatore, Delhi, Guwahati, Jabalpur, Hyderabad, Patna, Kolkata, Pune, Udaipur and Varanasi.

In addition to the seats finalized for open stream, seats for admission to M.Sc. & Ph.D. programmes under other streams are detailed below:

Faculty Up-gradation Scheme ICAR-In-Service Nominee Scheme Departmental (Scientific Cadre) Departmental (Technical Cadre)

Foreign Students

10 seats for Ph.D. only

10 seats for Ph.D. only

10 seats (Provisional) for Ph.D. only

26 seats for M.Sc. & Ph.D. 30 seats for M.Sc. & Ph.D.

Agenda Item No. 405.10: Recommendations of the Committee constituted for a special IARI Merit Medal for the best Ph.D. student from the North Eastern Region.

The Academic Council deliberated on the recommendations of the Committee on Institution of a special IARI Merit Medal for the best Ph.D. student from the North Eastern Region and was of the opinion that there should be only one platform and uniform criteria for all the students in this competitive event. Creation of any special medal for selected group of states/region will dilute the spirit and purpose of this competitive event which was instituted for encouraging high quality research and meritorious performance during the Ph.D. curriculum.

Agenda Item No. 405.11: Relaxation in 18 month contact period condition for Split Ph.D. Programme

The Academic Council discussed the issue at length and did not agree to relax 18 months contact period condition for split Ph.D. programme. However students who have (a) successfully completed 100% of course work requirement; (b) successfully completed qualifying examination; (c) has got approved his/her ORW from Dean and completed most of the research works certified by the Advisory committee as well as the BOS and (d) completed more than 24 months with P.G. School, they could be permitted to seek temporary relief from Ph.D. programme for accepting employment in Government/Public/Private sector with the condition that after rejoining the programme, should complete the residential requirement of 36 months.

The Academic Council also decided that the concerned Standing Committee shall also examine the further continuance of Split Ph.D. programme in future.

Agenda Item No. 405.12: Consideration of Joint Degree Programme between IARI-ANASTU

The Academic Council discussed the issue at length and agreed in principle the Joint Degree Programme between IARI and ANASTU subject to (i) the fulfilment of course credit requirements of the PG School, IARI, New Delhi and (ii) the intimation to UGC/Ministry of External Affairs (MEA).

Agenda Item No. 405.13: Creation of supernumerary seats to grant 5% reservation to the candidates belonging to children/widows of eligible personnel of Security Forces in Master and Ph.D. Programme at IARI.

The Academic Council discussed the request of Home Secretary, Govt. of India to implement the similar provision as available with Delhi University reserving 5% seats in each courses and give 5% mark in the minimum eligibility requirement in the qualifying examination to the children/widows of following eligible personnel of Security Forces: After detailed deliberation, Academic Council decided to allocate 5 seats for M.Sc. & Ph.D. from the academic session 2018-19 in addition to the seats finalised for open streams for the following order of priority for admission of candidates belonging to children/widows of eligible personnel of Security Forces:

i) Widows/Wards of Defence Personnel killed in action.

- Wards of serving personnel and ex-servicemen disabled in action.
- iii) Widows/Wards of Defence personnel who died in peace time with death attributable to military service.
- Wards of Defence personnel disabled in peace time with disability attributable 1 to military service.
- v) Wards of Ex-servicemen personnel and serving personnel including personnel of police forces who are in receipt of Gallantry awards. Category (V):-Gallantry Awards include: ParamVir Chakra, Ashok Chakra, Sarvottam Yudh Seva Medal, Maha Vir Chakra, Kirti Chakra, Uttam Yudh Seva Medal, Vir Chakra, Shaurya Chakra, YudhSeva Medal, Sena, NauSena-Vayusena Medal, Mention-in-Despatchees.
- vi) President's Police Medal for Gallantry, Police Medal for Gallantry.

They shall also be eligible for relaxation in the minimum educational qualification criteria as available to other reserved category. These seats shall be specifically for the ward/widows of the defence personnel only and not to be transferred and filled by any other category.

Agenda Item No. 405.14: Any other item with the permission of the Chair

- 405.14.1 On the issue of Ms. Revathi C, Roll No.9716 for not completing her FVVE in prescribed period of study after submission of thesis on 03/02/2016, the Academic Council decided that one last warning with a time limit may be issued to her for completion of FVVE. If she fails to do so, her name may be removed from the rolls of P.G. School.
- 405.14.2 On the issue of submission of thesis in only soft form in the Professor M.S. Swaminathan Library due to lack of space, the Academic Council was of the opinion that the status quo may be maintained and theses should also be kept in the the hard form.
- 405.14.3 The issue of changing Degree nomenclature from M.Sc. to M.Tech. for the students of Water Sciences and Technology was not agreed to by the Academic Council.

The meeting ended with a vote of thanks to the chair.

(K.M. Manjaiah)

Member-Secretary

. 611218

(A.K. Singh) Chairman

Vice Chairman

List of candidates who have successfully completed all the requirements including final viva-voce examination for the award of degree of Master of Science as on 13.12.2017

| No. | | NAME OF THE STUREAT | little of Tiesels |
|------------------|-------|-------------------------------|--|
| AG | RICUL | TURAL CHEMICALS | |
| Agrees . | 20629 | ROHAN SARKAR | PROFILING, ANTIOXIDANT ACTIVITY AND IN-VITRO BIOAVAILABILITY OF ANTHOCYANIN(S) IN Carissa carandas FRUITS |
| 2 | 20630 | SHUVAJIT DUTTA | MONOTERPENIC CONSTITUENTS FROM Trachyspermum ammi (L.) SEEDS AND THEIR ANTIOXIDANT ACTIVITY |
| 3 | 20632 | Ms. USHA KUMARI | SORPTION AND LEACHING OF FLUCELOSULFURON IN SOIL |
| 4 | 20633 | Ms, NAMRATA LASKAR | PERSISTENCE, MOBILITY AND MICROBIAL DEGRADATION OF PENTACHLOROPHENOL |
| AG | RICUL | TURAL ECONOMICS | |
| 5 | 20634 | BISWAJIT SEN | ECONOMIC ANALYSIS OF AGRICULTURAL DIVERSIFICATION AND ITS IMPACT ON FARM INCOME IN BIHAR |
| 6 | 20535 | PHILIP KURIACHEN | CLIMATE CHANGE AND VEGETABLE PRODUCTION: AN ANALYSIS OF IMPACTS AND FARMERS' ADAPTATION STRATEGIES IN KARNATAKA |
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| 8 | 20637 | SUNIL KUMAR B R | ECONOMIC ANALYSIS OF THE CLIMATE VARIABILITY AND ITS IMPACT ON CROP PRODUCTION IN MARATHWADA REGION OF MAHARASHTRA |
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| 9 | 20638 | Ms. MAHANGADE PRIYANKA SHARAD | DEVELOPMENT OF GREEN ENERGY BASED VEGETABLE TRANSIT STORAGE UNIT |
| 10 | 20639 | MANJUNATH | DESIGN AND DEVELOPMENT OF SENSOR CONTROLLED MECHANISM OF SEED METERING FOR CHECK ROW PLANTING |
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| 18 | 20647 | Ms. SONITA RANI SETHY | IDENTIFICATION AND VALIDATION OF INDICATORS OF A MODEL VILLAGE |
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| 19 | 20648 | VIKAS KUMAR RAI | MODELING SOIL HYDROTHERMAL DYNAMICS, ROOT WATER UPTAKE AND RADIATION USE IN PIGEONPEA UNDER CONSERVATION AGRICULTURE |
| 20 | 20649 | RAM NARAYAN SINGH | MICROMETEOROLOGICAL AND BIOPHYSICAL PARAMETERS OF CHICK PEA UNDER THE INTERACTION OF ELEVATED SURFACE OZONE AND CARBON DIOXIDE |
| 21 | 20650 | MADANMOHAN MEENA | MODELING SOIL WATER DYNAMICS AND ROOT WATER UPTAKE IN WHEAT UNDER DIFFERENT TILLAGE AND IRRIGATION PRACTICES |
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| 66 | 20688 Ms. SEEMA SHEORAN | GENOTYPIC AND PHENOTYPIC EVALUATION OF BACKCROSS DERIVED LINES OF CHICKPEA FOR DROUGHT TOLERANCE |
| 67 | 20689 J. JORBEN | INHERITANCE OF FERTILITY RESTORATION AND CHARACTERIZATION OF RESTORER AND MAINTAINER LINES OF A4 CYTOPLASM IN PEARL MILLET [Pennisetum glaucum (L). R. BR.] |
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| 69 | 50010 JEET RAM CHOUDHARY | GENETIC EVALUATION AND QTL VALIDATION FOR IRON TOXICITY TOLERANCE IN NORTH-EAST INDIAN RICE GERMPLASM UNDER ACIDIC LOWLAND ECOLOGY |
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| 116 20728 | VISHNU ANAND | IMPROVING QUALITY AND DIGESTIBILITY OF GLUTEN FREE AMARANTH PASTA USING HYDROCOLLOIDS. |
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| 130 50008 | RAVINDRA KUMAR REKWAR | SOIL CARBON POOLS IN RELATION TO PEDOGENIC PROCESSES UNDER DIFFERENT CROPPING SYSTEMS IN THE BRAHMAPUTRA VALLEY OF ASSAM |
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| 132 60008 | Ms. KHUSHBOO RANI | SOLUBILIZATION OF POTASSIUM FROM WASTE MICA AS AFFECTED BY POTASSIUM SOLUBILIZING |

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List of candidates who have successfully completed all the requirements including final vivavoce examination for the award of degree of Doctor of Philosophy as on 13.12.2017

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| AG | RICU | TURAL ECONOMICS | |
| orași în | 9921 | BALAJI S. J. | AGRICULTURAL GROWTH, RURAL NON-FARM EMPLOYMENT AND POVERTY IN INDIA |
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| 2 | 9630 | INGLE VISHAL KESHAORAO | HYDROLOGIC MODELING OF WATERSHED IN TAPI RIVER CATCHMENT USING SWAT MODEL FOR WATERSHED RESTORATION MANAGEMENT PLANS |
| 3 | 9781 | ARUN KUMAR T V | DEVELOPMENT OF SORGHUM BASED SNACK FOOD THROUGH EXTRUSION PROCESSING |
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| 8 | 10382 | Ms. THINGUJAM BIDYALAKSHMI | DEVELOPMENT OF AUTOMATED SOLAR DRYER FOR VEGETABLE SEEDS |
| 9 | 10386 | KRISHNAKUMAR P | DEVELOPMENT OF BARNYARD MILLET BASED NUTRI- FUNCTIONAL SNACK FOOD |
| 10 | 10389 | SHAHZAD FAISAL | DEVELOPMENT OF EXTRUDED MAIZE- SOY- APPLE POMACE SNACKS FOOD |
| AG | RICUL | TURAL EXTENSION | |
| overdit. | 10402 | MADAN SINGH | IMPACT ASSESSMENT OF IARI-VOLUNTARY ORGANIZATIONS PARTNERSHIP EXTENSION MODEL: A MULTIDIMENSIONAL STUDY |
| AG | RICUL | TURAL PHYSICS | |
| 12 | 9641 | Ms. ADITI SRIVASTAVA | REGIONAL SCALE CROP GROWTH AND YIELD ASSESSMENT LINKING REMOTE SENSING INPUTS AND |
| AG | RIGUL | TURAL STATISTICS | CROP SIMULATION MODELS |
| 13 | 9944 | NIRUPAM GHOSH | SOME CONTRIBUTIONS TO CALIBRATION ESTIMATORS IN SUCCESSIVE SAMPLING |
| 14 | 10095 | YASHAVANTH B S | VECTOR AUTOREGRESSIVE TIME SERIES MODELS AND THEIR APPLICATIONS IN AGRICULTURE |
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| AGRONOMY 15 9814 PANCH RAM MIRJHA CROP DIVERSIFICATION AND NUTRIENT MANAGEMENT IN MANGO (Mangifres Indica L.) BASED AGRI-HORTICUL TURE SYSTEM NUTRIENT MANAGEMENT AND CONSERVATION TILLAGE EFFECTS ON MAIZE-WHEAT-MUNGBEAN PRODUCTION SYSTEM NUTRIENT MANAGEMENT AND CONSERVATION TILLAGE EFFECTS ON MAIZE-WHEAT-MUNGBEAN PRODUCTION SYSTEM CONSERVATION AGRICULTURE AND WEED CONTROL EFFECTS ON PRODUCTIVITY AND RESOURCE-USE EFFICIENCY IN RICE-WHEAT CROPPING SYSTEM 18 10262 SUDHIR KUMAR RAJPOOT EVALUATION OF METHODS OF CROP ESTABLISHMENT FOR ENHANCING THE PRODUCTIVITY AND RESOURCE USE EFFICIENCY OF DIVERSIFIED BT. COTTON BASED CROPPING SYSTEM 19 10419 VIJAYAKUMAR S POTASSIUM MANAGEMENT IN AEROBIC RICE -WHEAT CROPPING SYSTEM BIOCHEMISTRY 20 9819 Ms. NABANEETA BASAK RNAI MEDIATEO SILENCING OF IPK1 GENE FOR REDUCED PHYTATE CONTENT IN SOYBEAN SEEDS ENDOYED MOSTER GENE IN SOYBEAN (Bygine max L.) FOR PHYTATE REDUCTION 21 9959 Ms. VANITA PANDEY SEED SPECIFIC SILENCING OF MRP ABC TRANSPORTER GENE IN SOYBEAN (Bygine max L.) FOR PHYTATE REDUCTION 22 9961 AJEET SINGH STUDY OF MOLECULAR MECHANISMS INVOLVED IN DEFENCE RESPONSES DURING VIRLI INFECTION IN SOLANACEOUS PLANTS DECEMBERING REGULATORY MECHANISM(S) UNDERLYING ISOFLAVONE BIOSYNTHESIS AND ACCUMULATION IN SOYBEAN (Glycine max L.) SEEDS ENTOMOLOGY 24 9964 ACHINTYA PRAMANIK BIOSYSTEMATIC STUDIES ON FIG WASPS OF INDIA NICHE PARTITIONING OF RICE PLANTHOPPERS AND ACCUMULATION IN SOYBEAN (Glycine max L.) SEEDS ENTOMOLOGY 24 9964 ACHINTYA PRAMANIK BIOSYSTEMATIC STUDIES ON FIG WASPS OF INDIA NICHE PARTITIONING OF RICE PLANTHOPPERS AND ACCUMULATION IN SOYBEAN (GLYCHE MIRACLO SOLE PARTITIONING OF RICE PLANTHOPPERS AND INCHE PARTITIONING OF RICE PLANTHOPPERS (BPH) AND PREDATION POTENTIAL OF WOLF SPIDER (BPH) AND PREDATION OF MOLECULAR MARKERS FOR SEED COAT PERMEABILITY IN SOYBEAN (BREDULTION OF MOLECULAR MARKERS FOR SEED COAT PERMEABILI | ħ. | | HAME OF THE STUDENT | Title of Thesis |
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| MARKERS FOR SEED COAT PERMEABILITY IN | GE | NETIC | S | |
| | 27 | 10449 | SUBHASH CHANDRA | MARKERS FOR SEED COAT PERMEABILITY IN |

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| 30 | 10293 | Ms. LAKSHMI DURGA MADDUKURI | DEVELOPMENT OF SITE SPECIFIC INTEGRATED NUTRIENT MANAGEMENT SYSTEMS FOR GLADIOLUS (Gladiolus hybridus HORT.) AND MARIGOLD (Tagetes patula L.) USING SOIL TEST CROP RESPONSE CORRELATION STUDIES |
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| | | THORAT YOGESH EKANATHRAO | DEVELOP ROOT-KNOT NEMATODE, Meloidogyne Incognita SPECIFIC GENE EXPRESSION SYSTEM IN |
| PL | ANT G | ENETIC RESOURCES | |
| 43 | 10023 | SUBHASH CHANDER | STUDIES ON DESIGNATION AND VALIDATION OF CORE |

43 10023 SUBHASH CHANDER

STUDIES ON DESIGNATION AND VALIDATION OF CORE
COLLECTION OF FOXTAIL MILLET (Setaria italica (L.)
P.Beauv.) USING MORPHOLOGICAL AND MOLECULAR

MARKERS

4 10326 PERUMALLA KIRAN BABU STUDIES ON SEED DETERIORATION IN SOYBEAN CONSERVED FOR LONG-TERM IN GENEBANK

Ra. Rall Ra Title of Thosis **PLANT PATHOLOGY**

45 10173 RAM PRASNNA MEENA GENOME CHARACTERIZATION AND DEVELOPMENT OF

DIAGNOSTICS OF Citrus yellow vein clearing virus (CYVCV)

ASSOCIATED WITH CITRUS IN INDIA

46 10512 LAXMAN SINGH RAJPUT SIMULATION OF CYCLIC ADENOSINE MONOPHOSPHATE

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ACTIVITY IN RELATION TO APPRESORIUM FORMATION

IN MAGNAPORTHE GRISEA

POST HARVEST TECHNOLOGY

SANDEEP KUMAR DUHAN

DEVELOPMENT OF CONTINUOS MICROWAVE PASTEURIZATION SYSTEM FOR LIQUID FOODS

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10046 PRAVEEN KUMAR SINGH ASSESSMENT OF GENETIC PURITY AND

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SOILS

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE **NEW DELHI-110012**

No. PGS-I/1-408/AC/2018

January 7, 2019

A copy of the proceedings of the 408th meeting of the Academic Council held on 14th December, 2018 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council and concerned Officers (By
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. School Hostel Office
- 5. Sr. Admn. Officer, IMC (For members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PS to Registrar/PS to Comptroller
- 7. Dr. S.K. Tyagi, Chief Technical Officer, P G School
- 8. Assistant Administrative Officer, Post Graduate School-II
- 9. Concerned Dealing Assistants, PGS-I

Registrar

PROCEEDINGS OF THE 408th MEETING OF THE ACADEMIC COUNCIL HELD ON DECEMBER 14, 2018 AT 11.00 AM IN THE CONFERENCE HALL OF PROF. M.S. SWAMINATHAN LIBRARY, IARI, NEW DELHI -110012

The following members were present:

| The following members were present: | |
|---|-------------|
| 1. Dr. A.K. Singh, Director (Additional charge), IARI | Chairman |
| | - Chairman |
| J.D.(Res.) and Dean & J.D. (Edn.)(Additional charge) IARI | - Chairman |
| 3. Dr. H.S. Gaur, Former Vice-Chancellor, SVPUA&T, Meerut | Mamban |
| 4. Dr. S.K. Datta, Former DDG(CS), ICAR | Member |
| 5. Dr. M.R. Dinesh, Director, IIHR | Member |
| 6. Dr. Man Singh, Project Director (Acting), WTC and Professor, WS7 | Member |
| 7. Dr. K.M. Manjaiah, Associate Dean, PG School | |
| 8. Dr.(Ms.) Shashi Bala Singh, Professor, Agricultural Chemicals | Member |
| 0. Dr. D.V. Singh Drofogger Agricultural Engineering | Member |
| 9. Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 10. Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 11. Dr. V.K. Sehgal, Professor, Agricultural Physics | Member |
| 12. Dr. T.K. Das, Professor, Agronomy | Member |
| 13. Dr. (Ms.) Aruna Tyagi, Professor, Biochemistry | Member |
| 14. Dr. Subhas Chander, Professor, Entomolgy | Member |
| 15. Dr. Soora Naresh Kumar, Professor, Environmental Sciences | Member |
| 16. Dr. K.P. Singh, Professor, Floriculture and Landscape | Member |
| 17. Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| 18. Dr. R.C. Bhattacharya, Professor, MBB | Member |
| 19. Dr. M.R. Khan, Professor, Nematology | Member |
| 20. Dr.(Ms.) Veena Gupta, Professor, PGR | Member |
| 21. Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| 22. Dr. S.K. Jain, Professor, Seed Science & Technology | Member |
| 23. Dr. S.P. Datta, Professor, SS&AC | Member |
| 24. Dr. T.K. Behera, Professor, Vegetable Science | Member |
| 25. Dr. Anil Sirohi, MOHR, PG Hostels | Member |
| 26. Mr. Sanchal Bilgrami, Comptroller, IARI | Member |
| 27. Dr. A. Nagaraja, Senior Scientist, Fruit Science | Member |
| and Faculty Representative to the Academic Council | |
| 28. Dr. Mahesh C. Yadav, Principal Scientist, NBPGR | Member |
| and Faculty Representative to the Academic Council | · * |
| 29. Mrs. Rajshree Anand, Incharge, IARI Library | Member |
| 30. Mr. B.R. Tribhuvan, President, PGSSU | Member |
| 31. Ms. Priti Priyadarshni, Students' Representative to the AC | Member |
| 20 M 77 O T 11 D 1 | r Secretary |
| | |
| Leave of absence was sought and granted to the following members: | |
| 1. Dr. N.S. Rathore, Deputy Director General (Edn.) | Member |
| 2. Dr. P.K. Joshi, Director, South Asia, IFPRI | Member |
| 3. Dr. A.K. Singh, Formar Vice-Chancellor, RVSKVV, Gwalior | Member |
| 4. Dr. K.K. Singh, Director, CIAE, Bhopal | Member |
| 5. Dr. Kuldeep Singh, Director, NBPGR | Member |
| 6. Dr. N.K. Singh, Director, NRCPB (Additional Charge) | Member |
| 7. Dr. L.M. Bhar, Director, IASRI (Additional Charge) | Member |
| 8. Dr. P.R. Ojasvi, Director, IISWC, Dehradun(Additional Charge) | |
| 9. Dr. Seema Jaggi, Professor, Agricultural Statistics | Member |
| 10. Dr. (Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| 11. Dr. A.R. Rao Professor, Bioinformatics | Member |
| 11. Divini. Rao i fotossor, Diomnormanes | Member |

| 12. Dr. Sudeep Marwaha, Professor, Computer Application | | Member |
|---|------|--------|
| 13. Dr. O.P. Awasthi, Professor, Fruit Science | | Member |
| 14. Dr. V.K. Baranwal, Professor, Plant Pathology | br 1 | Member |
| 15. Dr.(Mrs.) Radha Prasanna, Professor, Microbiology | | Member |

Dr. J.P. Sharma, Joint Director(Extn.)/Joint Director(Res.)/Dean and Joint Director (Edn.)(Additional Charge) extended a formal welcome to Dr. A.K. Singh, Director, IARI(Additional Charge) and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time:

New members

- 1. Dr. J.P. Sharma as Dean & Joint Director (Edn.) (Additional Charge)
- 2. Dr. T.K. Das, Professor, Agronomy
- 3. Dr. (Mrs.) Veena Gupta, Professor, Plant Genetic Resources
- 4. Mrs. Rajshree Anand, Incharge, IARI Library
- 5. Mr. B.R. Tribhuvan, newly elected President, PGSSU
- 6. Ms. Priti Priyadarshni, newly elected Student Representative to the Academic Council

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

- 1. Dr. R.K. Jain, Former Dean and Joint Director (Edn.), IARI
- 2. Dr. P.K. Mishra, Former Director, IISWC, Dehradun
- 3. Dr. Y.S. Shivay, Former Professor, Agronomy
- 4. Dr. Sunil Pabbi, Former Professor, Microbiology
- 5. Dr.(Mrs.) Rekha Chaudhury, Former Professor, Plant Genetic Resources
- 6. Mr. Anil Kulshrestha, Former Incharge, IARI Library
- 7. Mr. Satish Naik, Former President, PGSSU
- 8. Ms. Priyanka Upreti, Student Representative to the Academic Council

The Director and Chairman, Academic Council apprised the Academic Council about the educational achievements viz. students amissions at IARI/IARI-Jharkhand & Assam and PG outreach Programmes at CIAE, Bhopal; Signing of MoUs with ICAR Institutes; special lectures arranged; Foundation Stone Laying of International student hostel and Kissan Haat by Honorable Union Minister of Agriculture and Farmers' Welfare, Shri Radha Mohan Singh Ji and Institution building activities in other countries.

Thereafter, the following agenda items were taken up for consideration:

| Agenda | Description of Agenda Items | | | | | | |
|--------|--|--|--|--|--|--|--|
| Item | | | | | | | |
| No. | | | | | | | |
| 408.1 | Confirmation of the proceedings of the 407 th meeting of the Academic Council | | | | | | |
| | held on July 7, 2018 | | | | | | |
| 408.2 | Action Taken Report on the Proceedings of 407th meeting of the Academic | | | | | | |
| | Council held on July 7, 2018 | | | | | | |
| 408.3 | Recommendations of the Standing Committee on Scholarships, Financial | | | | | | |
| | Assistance & Academic Progress made in its meeting held on 29.10.2018 | | | | | | |
| 408.4 | Recommendations of the Standing Committee on Courses Curricula and | | | | | | |
| | Academic Affairs made in its meeting held on 03.12.2018 | | | | | | |

| 408.6 | Finalization of the Academic Calendar for the 62 nd Academic Session 2019-20 |
|--------|---|
| 408.7 | Finalization of "Convocation Week" programme |
| 408.8 | List of candidates who have become eligible for the award of their respective |
| | degrees of M.Sc., M.Tech. and Ph.D. |
| 408.9 | Finalization of number of seats and eligibility qualification for admission to |
| | M.Sc., M.Tech. and Ph.D. degree programmes for the Academic Session 2019-20 |
| 408.10 | Renewal of all the four Standing Committees' composition of the Academic |
| * . | Council for the period of two years (2019-20) |
| 408.11 | Any other item with the permission of the Chair |

Agenda Item No. 408.1: Confirmation of the proceedings of the 407th meeting of the Academic Council held on 7.7.2018

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 407th meeting. Comments received from Professor, Plant Pathology on marking scheme on the approved guidelines for IARI awards was considered by the Academic Council at Agenda Item No.408.4.3. Since no other comment was there, the proceedings of the previous meeting was confirmed.

Agenda Item No. 408.2: Report on action taken on the proceedings of the 407th meeting of the Academic Council held on 7.7.2018

Action taken report was presented by the Dean and Joint Director (Education).

Agenda Item No. 408.3: Consideration of the proceedings of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its meeting held on 29.10.2018

The Academic Council approved the following recommendations of Standing Committee. The decision of Chairman, Academic Council on disbursement of Scholarship was also ratified by the Academic Council.

408.3.1 As per P.G. School Calendar para 15.3.3, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. (Commencement of the Academic Year 2018-19 is 30.07.2018)

408.3.2 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to 156 candidates admitted at IARI, New Delhi.

| S. No. | NAME OF THE STUDENT | ROLL NO. | DISCIPLINE | DATE OF ENROLMENT |
|--------|-----------------------|-------------|------------------------|----------------------|
| 1 . | ARKADEB MUKHOPADHYAY | 11155 | AGRICULTURAL CHEMICALS | 27/07/2018 |
| 2 | KAILASH PATI TRIPATHI | 11156 | , pr >39 | 27/07/2018 |
| 3 | DEBDAS CHAND | 11157 | 33. | 27/07/2018 |
| 4 | AJITH M | 11158 | *** | 28/07/2018 |
| 5 | SUTANWA SAHA | 11159 | " | 27/07/2018 |
| 6 | SUDAMA RAM SAHU | 11160 | " | 27/07/2018 |
| 7 | MUTHUPRASAD T | 11161 | AGRICULTURAL ECONOMICS | 27/07/2018 |
| 8 | NIRANJAN SIVALINGAM . | 11162 | ** | 27/07/2018 |
| 9 | BJ GIRIDHAR | 11163 | » | 27/07/2018 |
| 10 | SRINATHA T N | 11164 | » | 27/07/2018 |
| 11 | NAVEEN KUMAR NAIK | 11165 | 99 | 27/07/2018 |

| 12 | ABHINAV DUBEY | 11166 | 4 AGRICULTURAL ENGINEERING | 27/07/2018 |
|----------------|---|-------------------------|---|--|
| 13 | MONIKA SATANKAR | 11170 | >> | 27/07/2018 |
| 14 | PANKAJ MALKANI | 11176 | " | 27/07/2018 |
| 15 | MOHIT KUMAR | 11177 | ", | 27/07/2018 |
| 16 | MUKESH KUMAR CHOUDHARY | 11181 | >> | 27/07/2018 |
| 17 | ASHA K R | 11186 | ,, | 27/07/2018 |
| 18 | VENKATESH . | 11187 | ,, | 27/07/2018 |
| 19 | ALOK GUPTA | 11188 | " | 27/07/2018 |
| 20 | SHEEJA P.S | 11191 | . , . , ., | 27/07/2018 |
| 21 | ATISH SAGAR | 11192 | 2) | 27/07/2018 |
| 22 | KETHAVATH AJAYKUMAR | 11193 | " | 27/07/2018 |
| 23 | RADHIKA SAHU | 11194 | " · | 27/07/2018 |
| 24 | AISWARYA S | 11195 | AGRICULTURAL EXTENSION | 27/07/2018 |
| 25 | Gangu Bai Shivappa Manguli | 11197 | " | 27/07/2018 |
| 26 | MANJUNATH H | 11198 | " | 27/07/2018 |
| 27 | SANJAY KUMAR GUPTA | 11199 | " | 27/07/2018 |
| 28 | ANA RAJ J | 11200 | " | 27/07/2018 |
| 29 | SUNNY ARYA | 11201 | AGRICULTURAL PHYSICS | 27/07/2018 |
| 30 | SUJAN ADAK | 11202 | ** | 27/07/2018 |
| 31 | DEBASISH ROY | 11203 | > > | 27/07/2018 |
| 32 | MOHAMMED SHAFEEQ P M | 11204 | 27 | 27/07/2018 |
| 33 | VIMAL KUMAR | 11205 | ** | 27/07/2018 |
| 34 | VARATHARAJAN T | 11212 | AGRONOMY | 27/07/2018 |
| 35 | SOMANATH NAYAK | 11214 | >> | 27/07/2018 |
| 36 | SHUBHAM MARAK | 11215 | " | 27/07/2018 |
| 37 | NIRAJ BISWAKARMA | 11216 | , » | 27/07/2018 |
| 38 | RADHESHYAM | 11217 | >> | 27/07/2018 |
| 39 | AYESHA FATIMA | 11218 | >> | 27/07/2018 |
| 40 | VIJAY PRATAP | 11219 | >> | 27/07/2018 |
| 41 | MANU S M | 11220 | >> | 27/07/2018 |
| 42 | RAJESH KUMAR | 11221 | >> | 27/07/2018 |
| 43 | PRATHAP V JOSHNA JOSE | 11222 | BIOCHEMISTRY " | 27/07/2018 27/07/2018 |
| 45 | SWAPNIL S. THAKARE | 11223 | . 22 | 27/07/2018 |
| 46 | RANJITH H V | 11224 | ENTOMOLOGY | 27/07/2018 |
| 47 | TANMAYA KUMAR BHOI | 11235 | ************************************** | 27/07/2018 |
| 48 | ARYA PS | 11237 | 2) | 27/07/2018 |
| 49 | GAURAV SINGH · | 11238 | 99 | 27/07/2018 |
| 50 | MOGILI RAMAIAH | 11240 | y y | 27/07/2018 |
| 51 | ANIL | 11241 | *** | 28/07/2018 |
| 52 | KIRAN KUMAR | 11243 | *** | 28/07/2018 |
| 53 | GOPALAKRISHNAN | 11244 |) | 27/07/2018 |
| 54 | ANAND HARSHANA | 11366 | 39 | 6/8/2018 |
| 55 | PARTHA PRATIM MAITY | 11246 | ENVIRONMETAL SCIENCE | 27/07/2018 |
| 56 | JITU MANDOL | 11247 | " | 27/07/2018 |
| 57 | PRIYANKA MEENA | 11248 | 27 | 27/07/2018 |
| 58 | CHANDRA PRAKASH | 11249 | 27 | 27/07/2018 |
| 59 | PRATIBHA PRAKASH | 11252 | 99 | 27/07/2018 |
| 60 | SETHUPATHI.N. | 11369 | . 77 | 21/07/2018 |
| 61 | BIBIN POULOSE | 11253 | FLORICULTURE AND LANDSCAPING | 27/07/2018 |
| 62 | UZMA MEHRAJ | 11254 | " | 27/07/2018 |
| 63 | POOJA A | 11255 | >> | 27/07/2018 |
| 64 | PRIYA_YADAV | 11256 | • ,, | 27/07/2018 |
| 65 | NEERAJ SINGH NEGI | 11257 | >> | 27/07/2018 |
| 66 | CHANDER PRAKASH | 11258 |) | 27/07/2018 |
| 67 | SHWETA K HADAKAR | 11259 | FRUIT SCIENCE | 27/07/2018 |
| 68 | PRASAD SHIVAPPA KAROSHI | 11260 |) | 27/07/2018 |
| 69 | NARENDRA SINGH | 11261 | " | 27/07/2018 |
| 70 | REENA PRUSTY | 11263 | " | 27/07/2018 |
| 71 | NAVEEN KUMAR MAURYA | 11264 | " | 27/07/2018 |
| 72 | KULDEEP PANDEY | 11265 | " | 27/07/2018 |
| | | . — | | 27/07/2018 |
| 73 | AMOL KAILAS JADHAV | 11266 | · • • • • • • • • • • • • • • • • • • • | |
| 73 74 75 | AMOL KAILAS JADHAV SUMAN DUTTA ABHIJITH K P | 11266 11268 11269 | GENETICS AND PLANT BREEDING " | 27/07/2018 27/07/2018 27/07/2018 |

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| 117 BIRENDRA KUMAR PADHAN 11318 PLANT PHYSIC 118 PANDURANG RAGHUNATH D 11319 " 119 DIPANKAR BARMAN 11320 " 120 MALINI MK 11321 " 121 NISHA 11323 " 122 VIJAY R 11324 " 123 MONIKA G TOTAD 11325 POST HARVEST AND 124 POOJA B. K. 11326 " 125 GOWTHAM R 11327 " 126 NIRANJAN PRASAD H P 11328 SEED SCIENCE AND T 127 SATISH KUMAR 11329 " 128 KARABI BANIA 11330 " 129 PRAVEEN KUMAR YADAV 11331 " 130 DILSHAD AHMAD 11332 " 131 JAYASRI S 11333 " | 27/07/2018 |
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| 126 NIRANJAN PRASAD H P 11328 SEED SCIENCE AND T 127 SATISH KUMAR 11329 " 128 KARABI BANIA 11330 " 129 PRAVEEN KUMAR YADAV 11331 " 130 DILSHAD AHMAD 11332 " 131 JAYASRI S 11333 " | 27/07/2018 |
| 127 SATISH KUMAR 11329 " 128 KARABI BANIA 11330 " 129 PRAVEEN KUMAR YADAV 11331 " 130 DILSHAD AHMAD 11332 " 131 JAYASRI S 11333 " | |
| 129 PRAVEEN KUMAR YADAV 11331 " 130 DILSHAD AHMAD 11332 " 131 JAYASRI S 11333 " | 27/07/2018 |
| 129 PRAVEEN KUMAR YADAV 11331 "" 130 DILSHAD AHMAD 11332 "" 131 JAYASRI S 11333 "" | 27/07/2018 |
| 131 JAYASRI S 11333 " | 27/07/2018 |
| 131 JAYASRI S 11333 " | 27/07/2018 |
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| 132 PREETI SAGAR NEGI 11334 " | 27/07/2018 |
| 133 ANSHUMAN DAS 11335 SOIL SCIENCE AND AGRICUI | |
| 134 KINGSHUK MODAK 11336 " | 27/07/2018 |
| 135 MD BASIT RAZA 11337 " | 27/07/2018 |
| 136 AJIN S ANIL 11338 " | 27/07/2018 |
| 137 ATHULYA S 11339 " | 27/07/2018 |
| 138 NAVEEN KUMAR A 11340 "" | 27/07/2018 |
| 139 GANPAT LOUHAR 11341 " | 27/07/2018 |

| 140 | JYOTIRMAYA SAHOO | 11342 | » | 27/07/2018 |
|-----|-----------------------|-------|---|------------|
| 141 | KAVITHA PANDU JADHAV | 11343 | >> | 27/07/2018 |
| 142 | BHANUSHREE N | 11344 | VEGETABLE SCIENCE | 27/07/2018 |
| 143 | ABHAY VIKRAM SINGH | 11345 | " | 27/07/2018 |
| 144 | PUNEETH P V | 11346 | " | 27/07/2018 |
| 145 | IPSITA PANIGRAHI | 11347 | ,, | 27/07/2018 |
| 146 | YOGANANDA H S | 11348 | •• | 27/07/2018 |
| 147 | RAMESHWAR MEENA | 11349 | " | 27/07/2018 |
| 148 | SAHANA K P | 11350 | " | 27/07/2018 |
| 149 | HARISHA S M (FUS) | 11352 | " | 27/07/2018 |
| 150 | VISHWANATH BIDARAMALI | 11354 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 27/07/2018 |
| 151 | MANJUNATH DALI | 11355 | WATER SCIENCE AND TECHNOLOGY | 27/07/2018 |
| 152 | MAHEKPREET KAUR | 11356 | . " | 27/07/2018 |
| 153 | NEHA SINGHAL | 11357 | " | 27/07/2018 |
| 154 | RAGHAV MAURYA | 11358 | " | 27/07/2018 |
| 155 | ASHOK IRAPPA HALLI | 11359 | " | 27/07/2018 |
| 156 | SMITA JAISWAL | 11360 | " | 27/07/2018 |

408.3.3 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to the following 13 students admitted at CIAE, Bhopal under IARI PG Outreach Programme

| S. No. | NAME OF THE STUDENT | ROLL NO | HMCCIDI INIC | DATE OF ENROLMENT |
|--------|-------------------------|---------|--|----------------------|
| 1. | RAM P KUMAR | 11167 | AGRICULTURAL ENGINEERING(AP&S) | 27/07/2018 |
| 2. | RAJEEV R THAKUR | 11168 | >> | 27/07/2018 |
| 3. | LAVANYA PURAMSHETTI | 1,1169 | 25 | 27/07/2018 |
| 4. | KANUPRIYA CHOUDHARY | 11171 | 3) | 27/07/2018 |
| 5. | RAJASEKHAR MATHANGI | 11174 | >> | 27/07/2018 |
| 6. | LALITA | 11175 | >> | 27/07/2018 |
| 7. | AMAN MAHORE | 11178 | AGRICULTURAL ENGINEERING(FP&E) | 27/07/2018 |
| 8. | NALAWADE ROHIT DILIP | 11180 | " | 27/07/2018 |
| 9. | ABHISHEK KUMAR | 11182 | " | 27/07/2018 |
| 10. | BHAGWAN SINGH NARWARIYA | 11183 | >> | 27/07/2018 |
| 11. | JAGJEET SINGH | 11185 | ************************************** | 27/07/2018 |
| 12. | JYOTIRMAY MAHAPATRA | 11365 | | 27/07/2018 |
| 13. | ABHISHEK PATEL | 11189 | AGRICULTURAL ENGINEERING(S&WCE) | 27/07/2018 |

408.3.4 Award of Institute Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 7 students who were admitted under Faculty Up-gradation Scheme/ICAR-Inservice-Scheme.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROLMENT |
|--------|---|---------|--------------------------------|----------------------|
| 1. | PRABHULINGA T, CICR Nagpur, ICAR In service | 11242 | ENTOMOLOGY | 27/08/2018 |
| 2. | RAJENDER JATOTH, PJTSAU, Aswaraopet, FUS | 11317 | PLANT PATHOLOGY | 27/07/2018 |
| 3. | PADMANABHA K, Univ.Hort.S, Bagalkot, FUS | 11351 | VEGETABLE SCIENCE | 27/07/2018 |
| 4. | HIRA SINGH, PAU, Ludhiana, FUS | 11353 | " | 27/07/2018 |
| 5. | ARUDRA SRINIVASA RAO, ANGRAU, Guntur, FUS | 11184 | AGRICULTURAL ENGINEERING(FP&E) | 27/07/2018 |
| 6. | MONALISHA PRAMANIK, IISWC, Dehradun, ICAR In service | 11361 | WATER SCIENCE AND TECHNOLOGY | 27/08/2018 |
| 7. | YADAV RAHUL SUBHASH, DFR, Pune(Enrolled at CIAE, Bhopal), ICAR In service | 11173 | AGRICULTURAL ENGINEERING(AP&S) | 27/07/2018 |

408.3.5 Award of Contingent grant only @ Rs.10,000/- per annum to the following four students who were admitted under Departmental-Scientific Scheme.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROLMENT |
|-----------|--|------------|----------------------------------|----------------------|
| 1. | NAYAN DEEPAK G, Fruit Sci., IARI, New Delhi | 11267 | FRUIT SCIENCE | 27/08/2018 |
| 2. | SHEEL YADAV, NBPGR, New Delhi | 11291 | MOLECULAR BIOLOGY & BIOTECHOLOGY | 27/07/2018 |
| 3. | SHASHI MEENA, Pl. Physiology, IARI, New Delhi | 11322 | PLANT PHYSIOLOGY | 30/07/2018 |
| 4. | RAKESH KUMAR, NCIPM, New Delhi | 11245 | ENTOMOLOGY | 27/07/2018 |

408.3.6 Following 14 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Sr. Scholarship from IASRI.

| S.N O. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROLMENT |
|-----------|------------------------------|------------|-------------------------|----------------------|
| 1. | GARIMA SINGH | 11206 | AGRICULTURAL STATISTICS | 27/07/2018 |
| 2. | KAPIL CHOUDHARY | 11207 | " | 27/07/2018 |
| 3. | JITENDRA KUMAR | 11208 | " | 27/07/2018 |
| 4. | SANDIPAN SARKAR | 11209 | - 33 | 27/07/2018 |
| 5. | MAHALINGARAYA | 11210 | " | 27/07/2018 |
| 6. | SAYANTANI KARMAKAR | 11211 | " | 27/07/2018 |
| 7. | ANKITA NEGI | 11225 | BIOINFORMATICS | 27/07/2018 |
| 8. | AAMIR KHAN | 11226 | " | 27/07/2018 |
| 9. | DIPRO SINHA | 11227 | " | 27/07/2018 |
| 10. | DEBDALI CHOWDHURY | 11228 | COMPUTER APPLICATION | 27/07/2018 |
| 11. | VAIJANATH S. KUMASAGI | 11229 | 27 | 27/07/2018 |
| 12. | VIVEK KUMAR | 11230 | " | 27/07/2018 |
| 13. | LAKSHMI MAHADEV SONKUSALE | 11231 | " | 27/07/2018 |
| 14. | RAMESH PRAJAPAT | 11232 | >> | 27/07/2018 |

408.3.7 The Standing Committee did not recommend award of Institute Sr. Scholarship to the following six students as they have already availed the benefit of Scholarship during their last admission at IARI and left the course incomplete. Further, the Standing Committee was also of the view that necessary recovery on account of Surety Bond etc. as per rule may also be made from these students, if still due. Further to avoid second time award of fellowship, a suitable undertaking to the effect that the students has not availed the benefit of Scholarship earlier from or through IARI/ICAR, may be obtained.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROLMENT |
|-------|------------------------|------------|------------------------------------|----------------------|
| 1. | ASLAM LATIF PATHAN | 11190 | AGRICULTURAL ENGINEERING(S&WCE) | 25/08/2018 |
| 2. | DARSHAN MANIKRAO KADAM | 11262 | FRUIT SCIENCE | 27/08/2018 |
| 3. | SUHAS GORAKH KARKUTE | 11288 | MOLECULAR BIOLOGY & BIOTECHOLOGY | 27/08/2018 |
| 4. | MANOJ KUMAR YADAV | 11311 | PLANT PATHOLOGY | 27/08/2018 |
| 5. | HEMAVATI RANEBENNUR | 11314 | • 39 | 27/08/2018 |
| 6. | SAWANT RAMNATH SANKET | 11172 | AGRICULTURAL ENGINEERING(AP&S) | 27/07/2018 |

President, PGSSU apprised that Mr. Sawant Ramnath Sanket at Sr. No.6 above is not an inservice candidate hence should be awarded Scholarship. The Academic Council was of the opinion that the issue may be examined by P.G. School for further consideration of Chairman, Academic Council.

408.3.8 During the current academic session 2018-19, Education Division of ICAR referred 155 candidates for admission to M.Sc. degree programmes in different disciplines at IARI through online counseling held during September-October 2018. Out of 155, two students did not report for admission. In addition to this, two students have taken admission as Departmental candidates.

The candidates who are not awarded ICAR P.G. Scholarship are considered for award of Institute Scholarship. This year M.Sc./M.Tech. students were admitted late in September-October 2018. Award of ICAR-PG Scholarship is yet to be decided by the Education Division, ICAR. To avoid hardship to these students, the Academic Council has decided to pay them also from IARI funds subject to necessary adjustment on obtaining funds for ICAR-P.G. Scholarship from ICAR.

Agenda Item No. 408.4: Consideration of the proceedings of the meeting of the Standing Committee on Course Curricula and Academic Affairs held on 03.12.2018

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

408.4.1 Existing and proposed codes of FHT/FLA/VSC disciplines as suggested by Professors of respective disciplines

The Academic Council approved the uniformity of the codes for the following six courses:

| Existing Course Codes | Name of the Course | Trim ester | Credits | Proposed Course Codes |
|------------------------------|--|---------------|---------|-----------------------|
| HORT502/HORT502/VSC504 | NUTRITIONAL REQUIREMENT OF HORTICULTURAL CROPS | I | 3L+1P | FSC506/FLA506/VSC506 |
| HORT501/FLA570/VSC570 | BASIC HORTICULTURE | I | 3L+2P | FSC507/FLA507/VSC507 |
| HORT601/HORT601/VSC670 | EXPORT ORIENTED HORTICULTURE | I | 3L+1P | FSC603/FLA603/VSC603 |
| HORT611/FLA672/VSC672 | PROTECTED CULTIVATION OF HORTICULTURAL CROPS | II . | 3L+1P | FSC612/FLA612/VSC612 |
| HORT622/FLA674/VSC674 | PLANT TISSUE CULTURE IN THE IMPROVEMENT OF HORTICULTURAL CROPS | Ш | 2L+2P | FSC625/FLA625/VSC625 |
| HORT521/HORT521/VSC673 | GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS | II | 3L+1P | FSC523/FLA523/VSC523 |

408.4.2 Introduction of two New Courses (i) FSC 621: Advances in Growth and Development of Fruit Crops (ii) FSC 604: Hi-Tech Fruit Production

The Academic Council approved two new courses; (i) FSC 621 (3L+1P) - Advances in Growth and Development of Fruit Crops and (ii) FSC 604 (4L+0P) - Hi-Tech Fruit Production in the discipline of Fruit Science.

408.4.3 Consideration of the request of Professor, Plant Pathology on allocation of marks for publications in different awards of the Institute

The Academic Council discussed the proposal and approved that the Corresponding author may also get equal marks as that of first author of research paper.

408.4.4 The issue of compulsory internship of IARI students with industry/organizations as part of PG Course curricula was discussed in detail and was not agreed for making it compulsory.

Agenda Item No. 408.5: Consideration of the proceedings of the meeting of the Standing Committee on Faculty & Discipline held on 4.12.2018

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

408.5.1 Recommended the candidature of the following **seven** Scientists for induction into P.G. Faculty in their respective disciplines.

| S. No. | Name & Designation | Name of the Discipline |
|-----------|--|-------------------------------------|
| 1. | Dr. Punitha P, Scientist | Agricultural Extension |
| 2. | Mr. Pravin Kumar Upadhyay, Scientist | Agronomy |
| 3. | Dr. Vartika Srivastava, Scientist, NBPGR | Fruit Science |
| 4. | Dr. S.N. Bhowmik, Principal Scientist | Microbiology |
| 5. | Dr. Anshul Watts, Scientist, NRCPB | Molecular Biology and Biotechnology |
| 6. | Dr. Shivani Nagar, Scientist | Plant Physiology |
| 7. | Dr. Gograj Singh Jat, Scientist | Vegetable Science |

408.5.2 The Academic Council was of the opinion that keeping in view the present scenario of developments in science, P.G. School faculty guidelines (para 3.23.2.) concerning posting of Scientists of a particular parent discipline in different departments/institutes, shall be revised by a Committee.

In view of the above, the Academic Council was of the opinion that the candidature of the following Scientists and also similar cases in future, if any, may be considered after the recommendation of above Committee.

| S. No. | Name & Designation | Name of the Discipline |
|-----------|------------------------------------|---|
| 1. | Dr. M.A. Khan, Principal Scientist | Soil Science and Agricultural Chemistry |
| 2. | Dr. Archanna Watts, Scientist | Plant Physiology |

408.5.3 Recommended the following twelve faculty members as Research guides for M.Sc. guidance in their respective disciplines as they met the prescribed requirement for becoming the research guides.

| S. | Name & Designation | Name of the Discipline |
|------|---|--|
| No. | • • • • • • • • • • • • • • • • • • • | *! |
| 1. | Dr. Anirban Dutta, Scientist | Agricultural Chemicals |
| 2. | Dr. Sudipta Paul, Scientist | Agricultural Extension |
| 3. | Dr. Kapila Shekhawat, Senior Scientist | Agronomy |
| 4. * | Dr. Gyan Prakash Mishra, Senior Scientist | Genetics and Plant Breeding |
| 5. | Dr. Navin Chandra Gupta, Scientist, NRCPB | Molecular Biology and Biotechnology |
| 6. | Dr. Archana P. Raina, Principal Scientist, NBPGR | Plant Genetic Resources |
| 7. * | Dr. Sundeep Kumar, Principal Scientist, NBPGR | Plant Genetics Resources |
| 8. | Dr. Dhandapani R., Scientist (SS) | Plant Physiology |
| 9. * | Dr. Jeetendra Kumar Ranjan, Senior Scientist | Vegetable Science |
| 10. | Dr. Sharawan Singh, Scientist | Vegetable Science |
| 11. | Dr. Shyam Sundar Day, Scientist | Vegetable Science |
| 12. | Ms. Rosin K.G., Scientist | Water Science and Technology |
| | | The state of the s |

^{*}Keeping in view of their previous teaching and guiding experience at their previous University

- **408.5.4 Did not recommend** the recognition of the candidature of Dr. G. Prakash, Scientist, Plant Pathology as Research Guide as he did not meet the prescribed requirement of three year teaching experience (short of one year teaching experience).
- 408.5.5 The Academic Council approved the recommendation of the Standing Committee that the CVs of the Scientists for recognition as Co-Research Guide in their respective disciplines at IIVR Varanasi, NIBSM, Raipur and NIASM, Baramati may be sent to the Board of Studies of respective disciplines of IARI to consider and recommend only those applications as per the need and with clear justification. As per the executed MoUs, the CVs received for induction as Faculty Member was not considered.
- 408.5.6 On the issue of following four applications for recognition of Adjunct Faculty received from the Professors of respective Disciplines, the Academic Council was of the opinion that the respective BOS should follow the guidelines of Adjunct Faculty, identify specific teaching/research needs of the discipline and resubmit the proposals.

| S. No. | Name & Designation | Name of the Discipline |
|-----------|---|--------------------------------------|
| 1. | Dr. K.C. Bansal, Former Director, NBPGR | Molecular Biology and Biotechnology |
| 2. | Dr. Pitam Chandra, Former Director, CIAE Bhopal | Post Harvest Technology |
| 3. | Dr. Prabhakar, Former PC, AICRP on Small Millets, ICAR, IIHR | Genetics & Plant Breeding (at IIHR). |
| 4. | Dr. R. Chitraichelvan, Former Head, Div. of Fruit Crops, IIHR | Fruit Science (at IIHR) |

Consideration of the Academic Calendar for the 62nd Academic Session 2019-20

The Academic Council approved the $\,$ Academic Calendar of the P G School for the Academic Session 2019-20 .

| 2019 | Admissio | n Process for the Academic Session 2019-20 | | | |
|----------------------------------|---|--|--|--|--|
| March 09-10 | Saturday & Sunday | Advertisement for inviting on line applications for Ph.D. admission will be published in all the leading national news papers | | | |
| March 11 | Monday | Receipt of online applications for Ph.D. admission starts | | | |
| April 15 | Monday | Last date for receipt of online applications for admission to Ph.D. Programme | | | |
| April 22 | Monday | Last date for receipt of through proper channel applications and documents submission | | | |
| May 26 | Sunday | Entrance Examination for admission to Ph.D. Programme | | | |
| June 21 | Friday | Last date for submission of thesis by IARI M.Sc. students who have applied for admission to the Ph.D. Programme | | | |
| June 22 | Saturday | Declaration of result of Written Test for admission to Ph.D. programme | | | |
| June 29 | Saturday | Last date for receipt of mark sheet from the candidates who are studying in M.Sc. final year | | | |
| July 01 | Monday | Interview for admission to Ph.D. Programme in the respective disciplines | | | |
| July 06 | Saturday | Academic Council meeting for finalization of results for M.Sc. & Ph.D. admissions 2019-20 | | | |
| July 25-26 | Thursday & Friday | Verification of original documents and online Registration of newly admitted M.Sc. and Ph.D. students for the Academic Session 2019-20 | | | |
| July 27 | Saturday | Orientation Programme: Newly admitted students to be addressed by Dean and Director, IARI | | | |
| I – Trimeste | ender in der der de deutsche der der der der der der der der der de | | | | |
| July 29 | Monday | First Trimester begins, payment of fees and online registration of continuing students | | | |
| July 30 | Tuesday | Commencement of Class Work | | | |
| August 13 | Tuesday | Last date for adding/dropping of course | | | |
| September 05 | Thursday | Teacher day celebration and lecture | | | |
| November 11 | Monday | National Agricultural Education day celebration and lecture | | | |
| November 12 to November 16 | Tuesday to Saturday | Final Examination of I Trimester | | | |
| II – Trimester | • | | | | |
| November 18 | Monday | Online Registration of students | | | |
| November 19 | Tuesday | Commencement of Class Work | | | |
| December 03 | Tuesday | Agricultural Education Day | | | |

| December 04 | Wednesday | Last date for adding/dropping of courses |
|----------------------------------|--------------------------|--|
| December 15 to December 29 | Sunday to Sunday | Winter Break |
| 2020 | | · · · · · · · · · · · · · · · · · · · |
| January 27 | Monday | Last date for holding the Final Viva-Voce Examination for consideration for the award of IARI Merit Medals and award of degree in the 58 th Convocation, 2020 |
| February 03 | Monday | Commencement of 58th Convocation Week Programme |
| February 06 | Thursday | 50 th Lal Bahadur Shastri Memorial Lecture |
| February 07 | Friday | 58 th Convocation |
| February 22 to February 24 | Saturday to Monday | Annual Sports Meet (Tentative) |
| March 23 to March 28 | Monday to Saturday | Final Examination of II Trimester |
| III - Trimeste | r | <i>\$</i> |
| March 30 | Monday | Online Registration of students |
| March 31 | Tuesday | Commencement of Class Work |
| April 14 | Tuesday | Last date for adding/dropping of course |
| May 24 to June 14 | Sunday to Sunday | Summer Vacation |
| July 13 to July 18 | Monday to Saturday | Final Examination of III Trimester |
| July 19 to July 26 | Sunday to Sunday | Trimester Break |

Agenda Item No. 408.7: Finalisation of 57th Convocation Week Programme

The Academic Council approved the following 57th Convocation programme of IARI.

Venue: Dr. B.P. Pal Auditorium

Monday, February 04, 2019

09.30-18.00 hrs.

Presentation of "Significant Post Graduate Students Research" by M.Sc./M.Tech. & Ph.D. students for "Merit Medals" and "Best Student of the Year" award

Tuesday, February 05, 2019

Presentation of Significant Educational Achievements for the year 2018 by the Professors representing different Schools of the teaching disciplines

09.30-11.15 hrs.

Session I – Crop Improvement

11.30-13.00 hrs.

Session II - Crop Protection

14.00-15.45 hrs. Session III – Resource Management

16.00-17.00 hrs. Session IV – Basic Sciences

17.15-18.30 hrs. Session V – Horticultural Sciences

Wednesday, February 06, 2019

Presentation of Significant Educational Achievements for the year 2018 by the Professors representing different Schools of the teaching disciplines

09.30-10.45 hrs. Session V

Session VI – Social Sciences

Award Lectures

11.00-12.15 hrs. Lecture by the Recipient of Dr. B.P. Pal Medal

12.30-13.45 hrs. Lecture by the Recipient of XIX Shri Harikrishna Shastri Memorial

Award

15.00-16.15 hrs. Lecture by the Recipient of XXV Hooker Award

16.30-17.45 hrs. Lecture by the Recipient of VII Rao Bahadur B. Vishwanath Memorial

Award

Thursday, February 07, 2019

Venue: Conference Hall, IARI Library

09.30-10.30 hrs. 408th Meeting of the Academic Council, IARI

11.00-12.00 hrs. Meeting of Board of Management, IARI

12.15-13.00 hrs. Press Conference

Venue: Dr. B.P. Pal Auditorium

14.00-15.30 hrs. 49th Lal Bahadur Shastri Memorial Lecture

Venue: Lawns of Dr. B.P. Pal Auditorium

15.45-16.30 hrs.

Full Dress Rehearsal

Friday, February 08, 2019

Venue: Lawns of Dr. B.P. Pal Auditorium

11.00-13.00 hrs.

57th Convocation

Venue: Dr. B.P. Pal Auditorium

18.00 hrs.

Cultural Programme by P. G. Students

Venue: Lawns of Genetics Division

20.00 hrs.

Convocation Dinner

The process on the following items has already been completed with the approval of the Chairman of the Academic Council to enable the P.G. School to complete all the pre-convocation requirements well in time. The action taken is submitted for kind information of the Academic Council and its ratification.

- 1. Finalization of Chief Guest
- 2. Chairpersons for the various Programmes
 - i) Chairman, Judging Committee and Convenor for the programme "Significant Post Graduate Students Research-2018 presentation" by the PG students for IARI Merit Medals" and Best Student of the Year Award on

Monday, February 04, 2019 (Convenor: Dr.(Mrs.) Radha Prasanna, Professor, Microbiology)

- ii) Chairpersons and Conveners for the Programme "Presentation of Significant Educational Achievements of IARI for the year 2018" by the Professors of teaching disciplines representing Schools on Tuesday, February 05, 2019 (Convenor: Dr. S. Naresh Kumar, Professor, Environmental Science)
- 3. Lecture by the recipients of the following awards
 - i) Shri Hari Krishna Shastri Memorial Award
 - ii) Hooker Award
 - iii) Rao Bahadur B. Vishwanath Memorial Award
 - iv) Dr. B.P. Pal Medal
- 4. Speaker to deliver 49th Lal Bahadur Shastri Memorial Lecture:
- 5. Chairman and Convenor for the 49th Lal Bahadur Shastri Memorial Lecture:

6. Chairpersons for the below mentioned Committees:

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Agenda Item No.408.8:

Consideration of the list of the candidates who have become eligible for award of their respective degrees of Master of Science and Doctor of Philosophy as on 12.12.2018

The Academic Council approved the list of 137 candidates for the award of degree of M.Sc./M.Tech. and 39 candidates for Doctor of Philosophy who have completed all the requirements including their final viva-voce examination as on 12.12.2018 (Appendix-I).

Agenda Item No. 408.9: Finalization of number of seats and eligibility qualification for admission to M.Sc./M.Tech. and Ph.D. degree programmes for the Academic Session 2019-20

408.9.1 The number of seats for M.Sc./M.Tech. and Ph.D. programmes in various disciplines at IARI, New Delhi, IARI, Jharkhand and IARI, Assam required for the Academic Session 2019-20 was approved by the Academic Council.

M. Sc./M.Tech. Programme: The seat requirement will be sent to the Education Division of ICAR as they conduct the All India Entrance Examination for admission (AIEEA – PG- 2019) and Award of ICAR-JRF to Master's degree programme of IARI, IVRI, NDRI, CIFE, CAU and SAU's.

| SI. N | o. Discipline | Total |
|---|--|----------|
| 20.000000000000000000000000000000000000 | IARI, New Delhi | |
| 1. | AGRICULTURAL CHEMICALS | 5 |
| 2. | AGRICULTURAL ECONOMICS | 4 |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 2 |
| 4. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 4 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 3 |
| 6. | AGRICULTURAL EXTENSION | 6 |
| 7. | AGRICULTURAL PHYSICS | 4 |
| 8. | AGRICULTURAL STATISTICS | 7 |
| 9. | AGRONOMY | 5 |
| 10. | BIOCHEMISTRY | 7 4 |
| 11. | BIOINFORMATICS | 5 |
| 12. | COMPUTER APPLICATION | 6 |
| 13. | ENTOMOLOGY | 5 |
| 14. | ENVIRONMENTAL SCIENCES | 5 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 3 |
| 16. | FRUIT SCIENCE | 5 |
| 17. | GENETICS AND PLANT BREEDING | 6 |
| 18. | MICROBIOLOGY | 5 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 7 |
| 20. | NEMATOLOGY | 2 |
| 21. | PLANT GENETIC RESOURCES | 4 |
| 22. | PLANT PATHOLOGY | 5 |
| 23. | PLANT PHYSIOLOGY | 4 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 2 |
| 25. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 1 |
| 26. | SEED SCIENCE AND TECHNOLOGY | 4 |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 4 |
| 28. | VEGETABLE SCIENCE | Ì 4 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 2 |
| | TOTAL-A | 123 |
| B. | IARI, Assam | |
| a. | AGRONOMY | 2 |
| b. | GENETICS AND PLANT BREEDING | 2 |
| c. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2 |
| d. | VEGETABLE SCIENCE | 2 |
| | TOTAL-B | <u> </u> |
| C. | IARI, Jharkhand | S |
| a. | AGRONOMY | 2 |
| b. | GENETICS AND PLANT BREEDING | 2 |
| c. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2 |
| d. | VEGETABLE SCIENCE | 2 |
| <u>u,</u> | TOTAL-C | 8 |
| i | Grand TOTAL =A+B+C | 139 |

Ph. D. Programme: The all India Entrance Examination for admission to Ph.D. degree programmes at IARI is conducted by the Post Graduate School with the assistance of Examination Committee constituted by the Chairman, Academic Council.

| SI. | No. Discipline, | GEN | OBC | SC | ST | PH | Total |
|-----|---|-----|-----|-----|----------|----------|-------|
| A. | IARI, New Delhi | | | ť. | | | |
| 1. | AGRICULTURAL CHEMICALS | . 3 | 2 | 1 | <u>.</u> | | 6 |
| 2. | AGRICULTURAL ECONOMICS | 3 | 1 | 1 | | _ | 5 |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 1 | - | 1 | - | - | 2 |
| 4. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | 1 | | 1 | - | 4 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation | 2 | 1 | _ | - | | 3 |
| | Engineering) | | | | | | E. |
| 6. | AGRICULTURAL EXTENSION | 4 | 2 | 1 | _ | (1) | 7 |
| 7. | AGRICULTURAL PHYSICS | 3 | 1 | 1 | - | - | 5 |
| 8. | AGRICULTURAL STATISTICS | 3 | . 3 | 1 | 1 | (1) | 8 |
| 9. | AGRONOMY | 5 | 3 | 1 | 1 | 1 | 10 |
| 10. | BIOCHEMISTRY | 3 | 2 | - | - | • | 5 |
| 11. | BIOINFORMATICS | 3 | 1 | 1 | | | ·5 |
| 12. | COMPUTER APPLICATION | 3 | 1 | 1 | 1 | - | 6 |
| 13. | ENTOMOLOGY | 3 | - 2 | 1 | - | - | 6 |
| 14. | ENVIRONMENTAL SCIENCES | 2 | 2 | 1 | 1 | 1 | 6 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 1 | 1 | - | - | 4 |
| 16. | FRUIT SCIENCE . | 3 | 1 | 1 | - | - | 5 |
| 17. | GENETICS AND PLANT BREEDING | 6 | 3 | 2 | · 2 | | 13 |
| 18. | MICROBIOLOGY | 3 | 2 | 1 | - | - | 6 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 2 | - 1 | 1 | - (1) | 8 |
| 20. | NEMATOLOGY | 2 | 1 | 1 | - | - | 4 |
| 21. | PLANT GENETIC RESOURCES | 3 | 1 | - | 1 | - | 5 |
| 22. | PLANT PATHOLOGY | 4 | 2 | 2 | 1 | (1) | 9 |
| 23. | PLANT PHYSIOLOGY | 3 | 3 | 1 | - | - | . 7 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 2 | 1 | - | - | - | 3 |
| 25. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | - | 1 | - | - | - | 1 |
| 26. | SEED SCIENCE AND TECHNOLOGY | 3 | 1 | 1 | 1 | (1) | 6 |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 6 | 2 | 2 | - | - | 10 |
| 28. | VEGETABLE SCIENCE | 5 | | | 1 | - | 10 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 3 | 2 | 2 | 1 | - | 8 |
| | Total-A | 89 | 48 | 27 | 13 | (5) | 177 |
| B. | CIAE, Bhopal | | | | | | |
| a. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 1 | 1 | | 1 | ` - | 3 |
| b. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | - | 1 | - | - | 3 |
| C. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 1 | 1 | - | - | - | 2 |
| | Total-B | 4 | 2 | 1 | 1 | | 8 |
| C. | IIHR, Bangalore | | | | | | |
| a. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 1 | 1 | | | <u> </u> | 2 |
| b. | FRUIT SCIENCE | 1 | | : · | 1 | - | 2 |
| C. | POST HARVEST TECH. (PHT of Horticultural Crops) | 1 | | 1 | | - | 2 2 2 |
| d. | VEGETABLE SCIENCE | 1 | 1 | | | | 2 |
| | Total-C | 4 | 2 | 1 | 1 | | 8 |
| | Grand Total | 97 | 52 | 29 | 15 | (5) | 193 |

408.9.2 The following proposals received from concerned BOS was considered by the Academic Council and decided the following:

| TS. No. | Discipline | Existing Qualification for Ph.D. Programme | Deletion | Decision of of Academic Council |
|------------|--|--|---|---|
| 1. | Post Harvest Technology | For Post Harvest Engineering and Technology: Agricultural Processing and Structures / Food Engineering / Post Harvest Engineering / Biochemical Engineering (Prerequisite: B.Sc., B.Tech/B.E. in Agricultural Engineering) | B. Tech. (Agricultural Engineering) | Deletion of B. Tech. (Agricultural Engineering) Addition of Food Science & Tech./Food Tech. |
| 2. | Soil Science and Agricultural Chemistry | Soil Science and/ OR Agricultural Chemistry / Environmental Sciences/ Agricultural Microbiology/ Chemistry / Agricultural Physics with specialization in Soil Physics | Environmental Sciences and Agricultural Microbiology | Not agreed for any deletion, existing qualification shall be continued |

408.9.3 The following schedule related to All India Entrance Examination for admission to Ph.D. Programme was approved by the Academic Council.

Date of Entrance Examination : 26.05.2019 (Sunday)

Name of the Examination Centres: Anand, Bengaluru, Ludhiana, Coimbatore,

Delhi, Guwahati, Jabalpur, Hyderabad, Patna, Kolkata, Pune, Udaipur and

Varanasi

In addition to the seats finalized for open stream, seats for admission to M.Sc. & Ph.D. programmes under other streams are detailed below:

Faculty Up-gradation Scheme - 10 seats for Ph.D. only ICAR-In-Service Nominee Scheme - 10 seats for Ph.D. only Departmental (Scientific Cadre) - 10 seats for Ph.D. only Departmental (Technical Cadre) - 10 seats for M.Sc. & Ph.D. Foreign Students - 30 seats for M.Sc. & Ph.D. Children/widows of Security Forces - 5 seats for M.Sc. & Ph.D.

Agenda Item No. 408.10:

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Renewal of all the four Standing Committees' composition of the Academic Council for the period of two years i.e. January 2019 to December 2020.

The Academic Council approved the re-composition of all the four Standing Committees for the term of two years (January 2019 to December, 2020).

STANDING COMMITTEE ON COURSES CURRICULA & ACADEMIC AFFFAIRS

| | ,) | 10 |
|----|--|---------------------|
| 1. | Dr. Alka Singh, Professor, Agricultural Economics | Chairperson |
| 2. | Dr. Vinod, Professor, Genetics & Plant Breeding | Member |
| 3. | Dr. A.R. Rao, Professor, Bioinformatics | Member |
| 4. | Dr. S. Naresh Kumar, Professor, Environmental Sciences | Member |
| 5. | Dr. Mahesh C. Yadav, Principal Scientist, NBPGR and Faculty Representative to the Academic Council | Member |
| 6. | Ms. Priti Priyadarshni, Student's Representative to the Academic Council | Member |
| 7. | Dr. K.M. Manjaiah, Associate Dean, P.G. School | Member Secretary |

STANDING COMMITTEE ON FACULTY & DISCIPLINE

| 1. | Dr. Seema Jaggi, Professor, Agricultural Statistics | Chairperson |
|----|---|---------------------|
| 2. | Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 3. | Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 4. | Dr. S.P. Datta, Professor, SS&AC | Member |
| 5. | Dr. A. Nagaraja, Senior Scientist, FHT & Faculty Representative to the Academic Council | Member |
| 6. | Dr. K.M. Manjaiah, Associate Dean, P.G. School | Member Secretary |

STANDING COMMITTEE ON SCHOLARSHIPS, FINANCIAL ASSISTANCE AND ACADEMIC PROGRESS

| 1. | Dr. Subhash Chander, Professor, Entomology | Chairman |
|----|--|---------------------|
| 2. | Dr. S.K. Jha, Professor, Post Harvest Technology | Member |
| 3. | Dr. M.R. Khan, Professor, Nematology | Member |
| 4. | Dr. T.K. Das, Professor, Agronomy | Member |
| 5. | Mr. Tribhuvan R., President, PGSSU | Member |
| 6. | Ms. Priti Priyadarshni, Student's Representative to the Academic Council | Member |
| 7. | Mr. Kailash Chandra Joshi, Registrar | Member Secretary |

STANDING COMMITTEE ON STUDENT'S PROBLEMS, DISCIPLINE, WELFARE BOARD AND RESIDENCES

| Γ | 1. | Dr. Man Singh, Project Director (Additional Charge) and | Chairman |
|---|----|---|----------|
| | | Professor, WST | |
| | 2. | Dr. Aruna Tyagi, Professor, Biochemistry | Member |
| | 3. | Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| | 4 | Dr. Veena Gunta, Professor, PGR | Member |

- 1. In view of the revision in ICAR PG & SRF from 2018-19 session and notified by the ICAR, the Academic Council was of the view that the IARI students admitted through All India Entrance Examination too deserve a similar increase in their Institute Scholaships. The details on the additional budget requirements duly vetted by Comptorller, IARI should be sent to the ICAR for sanction and remittance of increased Fellowship funds.
- 2. On the issue of shortage of hostel accommodation, the Academic Council decided to inscribe clearly in the Information Bulletin for the next academic session 2019-20 that students admitted shall be allotted accommodation in hostels based on merit and rest have to arrange themselves outside the campus.
- 3. On the issue of student collaboration proposal received from Rani Laxmibai Central Agricultural University, Jhansi the Academic Council was of the view that the concerned authorities from the University may be invited for discussion with Dean and Director, IARI.
- 4. On the issues raised by the Students Representatives, the Academic Council decided that:
 - Font size of Ph.D. entrance exam question papers must be kept easiest readable.
 - On the issue of online fee submission by P.G. Students, Comptroler and Registrar shall take immediate necessary action to put the online payment gateway in place.
 - (iii) On the issue of statistical software training to the students, the Professor, Agricultural Statistics shall arrange a training in each Trimester.
 - (iv) On the issue of health insurance to students of IARI, the Academic Council decided that MOHR and President PGSSU shall take appropriate action at the earliest to be applicable compulsorily to all students from next Academic Session 2019-20.
 - On the issue of teaching Hindi to the Staff and students specially the foreign students, Hindi Section of IARI shall make necessary arrangement of initiating Hindi classes on regular basis.

The meeting ended with the vote of thanks to the Chair.

Member-Secretary

(J.P. Sharma)

Vice Chairman

(A.K. Singh) Chairman

List of candidates who have successfully completed all the requirements including final viva-voce examination for the award of degree of Master of Science/Master of Technology as on 12/12/2018

| No. | ROLL NO | NAME OF THE STUDENT | Title of Thesis |
|-----|---------|----------------------------|--|
| AG | RICUL | TURAL CHEMICALS | |
| 1 · | 20755 | KAILASH PATI TRIPATHI | DEVELOPMENT OF LC-MS/MS METHOD FOR ESTIMATION OF MANCOZEB, A DITHIOCARBAMATE FUNGICIDE RESIDUE |
| 2 | 20756 | ARKADEB MUKHOPADHYAY | BIOINSECTICIDAL FORMULATIONS OF Steinernema thermophilum WITH IMPROVED SHELF-LIFE:LIPID METABOLISM GUIDED IMMOBILIZATION IN CROSS-LINKED BIOPOLYMER GELLING CARRIERS |
| 3 | 20757 | DEBDAS CHAND | PERSISTENCE OF FLUCETOSULFURON HERBICIDE AS AFFECTED BY BIOTIC AND ABIOTIC FACTORS IN INDIAN SOILS |
| 4 | 20758 | AJITH. M | BIOASSAY GUIDED PROFILING OF ESSENTIAL OILS FROM AROMATIC PLANTS FOR POSSIBLE NEMATICIDAL ACTIVITY IN RICE |
| 5 | 20759 | Ms. SUTANWA SAHA | PERSISTENCE AND MOBILITY OF SULFONMIDE ANTIBIOTICS IN SOILS. |
| AG | RICUL | TURAL ECONOMICS | |
| 6 | 20760 | SUBRATA GORAIN | SOCIO-ECONOMIC IMPACT OF DRIP IRRIGATION IN' NORTHERN MAHARASHTRA |
| 7 | 20761 | TAHEER FIRDOSE K. | ROLE OF VALUE ADDITION IN ENHANCING FARM INCOME- A CASE STUDY ON TOMATO IN ANDHRA PRADESH |
| 8 | 20762 | MANASWI B. H. | ENHANCING SMALL FARMERS' ACCESS TO MARKET, FINANCE AND TECHNOLOGY THROUGH FARMER PRODUCER ORGANISATIONS: A CASE STUDY OF TELANGANA |
| AG | RICUL | TURAL ENGINEERING | |
| 9 | 20763 | ABHINAV DUBEY | DEVELOPMENT OF SOLAR POWERED AIR INFLATED GRAIN DRYER. |
| 10 | 20764 | PADMAPANI EKNATH PACHPINDE | DESIGN AND DEVELOPMENT OF MIXED-MODE SOLAR DRYER FOR SELECTED FLOWERS |
| 11 | 20765 | AMAN MAHORE | DEVELOPMENT OF REAL TIME TRACTOR WHEEL SLIP MEASURING DEVICE |
| 12 | 20766 | PANKAJ MALKANI | DESIGN AND DEVELOPMENT OF SELF-PROPELLED FOLIAR APPLICATOR FOR UAN |
| 13 | 20767 | Ms. ASHA K. R. | DEVELOPMENT OF SENSOR-BASED SAFETY ALARM SYSTEM FOR INJURY PREVENTION IN FODDER CUTTER MACHINE |
| 14 | 20769 | VENKATESH | TENSIOMETER AUTOMATION DEVICE FOR GREEN HOUSE IRRGATION SCHEDULING |

| No. | ROLL NO | NAME OF THE STUDENT | Title of Thesis |
|-----|---------|--------------------------|---|
| A | GRICU | LTURAL EXTENSION | |
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| 10 | 9960 | GAURAV KUMAR | FUNCTIONAL SIGNIFICANCE OF Tomato leaf curl New Delhi virus PATHOGENICITY FACTORS IN REDIRECTING HOST GENE REGULATION AND THEIR INVOLVEMENT IN HOST-VIRUS INTERFACE |
| 11 | 10107 | Ms. KALPANA TEWARI | ISOLATION AND FUNCTIONAL ANALYSIS OF THE PROMOTERS OF y-tocopherol methyl transferase (y-TMT) GENE FROM HIGH AND LOW o -tocopherol CONTAINING GENOTYPES OF SOYBEAN (Glycine max) |
| 12 | 10108 | ASHISH MARATHE | ASSOCIATION PATTERNS OF GENE EXPRESSION AND METABOLITE PROFILES FOR PHYTATE BIOSYNTHESIS DURING SEED DEVELOPMENT AND RNA INDUCED DOWNREGULATION OF ITPK2 IN SEEDS THROUGH Agrobacterium MEDIATED GENETIC TRANSFORMATION FOR LOW PHYTATE SOYBEAN |
| | | | |

| No. | ROLL NO | NAME OF THE STUDENT | Title of Thesis | |
|-----|------------|--------------------------|--|--|
| EN | ENTOMOLOGY | | | |
| 13 | 9968 | DIVEKAR PRATAP ADINATH | STUDY ON PLANT PHYSICO-CHEMICAL BASES OF RESISTANCE IN MAIZE AGAINST SHOOT FLY AND PINK STEM BORER | |
| 14 | 10278 | JONI KUMAR | EFFECT OF SEMIOCHEMICALS ON NATURAL ENEMIES OF Lipaphis erysimi (Kaltenbach) AND Myzus persicae (Sulzer) OCCURRING IN MUSTARD | |
| GE | ENETIC | S AND PLANT BREEDING | | |
| 15 | 10287 | AMIT KUMAR | CHARACTERIZATION OF ISOCYTOPLASMIC RESTORER LINES DERIVED FROM ELITE RICE HYBRIDS AND THEIR UTILIZATION IN HYBRID DEVELOPMENT | |
| 16 | 10289 | SUMAN PARRE | IDENTIFICATION OF QUANTITATIVE TRAIT LOCI FOR PLANT TYPE, SEED YIELD COMPONENTS AND BIOCHEMICAL TRAITS RELATED TO POD BORER RESISTANCE IN PIGEONPEA [Cajanus cajan(L) MILLSPAUGH] | |
| 17 | 10458 | Ms. PHILANIM W.S. | GENOME WIDE ASSOCIATION MAPPING OF YIELD TRAITS IN CHICKPEA (Cicer arietinum L.) | |
| HC | PRTICL | ILTURE | | |
| 18 | 10139 | CHAVLESH KUMAR | MORPHOLOGICAL AND MOLECULAR DIVERSITY ANALYSES OF WILD APPLE (Malus sp.) GERMPLASM | |
| 19 | 10297 | Ms. OMEM TAMUT | EXPLOITATION OF HETEROSIS FOR QUANTITATIVE TRAITS IN MARIGOLD THROUGH INTER-SPECIFIC HYBRIDIZATION | |
| 20 | 10459 | ABHAY KUMAR GAURAV | PHYLOGENETIC RELATIONSHIPS IN THE GENUS Rosa (Rosaceae): BASED ON MORPHOLOGICAL AND MOLECULAR MARKERS | |
| 21 | 10462 | Ms. PRATIKSHA KUMARI | IMPROVEMENT IN CHINA ASTER [Callistephus chinensis (L.) NEES.] THROUGH HYBRIDIZATION AND MUTATION | |
| 22 | 10463 | VELURU BHARGAV | MORPHO-BIOCHEMICAL AND MOLECULAR CHARACTERIZATION OF CHINA ASTER [Callistephus chinensis (L.) NEES] | |
| 23 | 10476 | NIMBOLKAR PRASHANT KISAN | STUDIES ON SALT TOLERANCE IN POLYEMBRYONIC MANGO (Mangifera indica L.) ROOTSTOCK SEEDLINGS | |
| 24 | 10477 | RAHUL KUMAR | MAP-BASED MOLECULAR DIVERSITY ANALYSIS AND ASSOCIATION MAPPING STUDIES OF HORTICULTURAL TRAITS IN CUCUMBER | |
| 25 | 10486 | Ms. NANGSOL DOLMA BHUTIA | ASSESSMENT OF HETEROSIS FOR YIELD AND QUALITY TRAITS AND MOLECULAR MAPPING OF CLUSTER BEARING HABIT IN Luffa | |
| 26 | 10548 | Ms. THANESHWARI | INDUCTION OF EMBRYOGENY AND PLANT REGENERATION THROUGH INDUCED ANDROGENESIS/GYNOGENESIS IN MARIGOLD (Tagetes spp. L.) | |
| 27 | 10634 | VIJAYAKUMAR RATHOD | GENETIC STUDIES AND TAGGING OF GENE(S) RELATED TO ECONOMIC TRAITS IN BITTER GOURD (Momordica charantia L.) | |
| MI | CROBI | OLOGY | | |
| 28 | 10308 | JAIRAM CHOUDHARY | APPROACHES FOR SIMULTANEOUS SACCHARIFICATION AND FERMENTATION OF LIGNOCELLULOSIC BIOMASS | |

| No. | ROLL NO | NAME OF THE STUDENT | Title of Thesis | |
|-----|-----------------------------|------------------------------|--|--|
| PL | ANT P | ATHOLOGY | A grant | |
| 29 | 10165 | RISHIKESH KUMAR | INVESTIGATION ON THE POSSIBLE ROLE OF XopN-T3SS EFFECTOR IN MODULATING BACTERIAL BLIGHT DISEASE IN POMEGRANATE (Punica granatum L.) | |
| 30 | 10336 | NENAVATH BALRAM | CHARACTERIZATION OF SATELLITE MOLECULES ASSOCIATED WITH COTTON LEAF CURL DISEASE COMPLEX IN PUNJAB AND RAJASTHAN AND IDENTIFICATION OF RESISTANCE SOURCE | |
| 31 | 10513 | GOPALA | CHARACTERIZATION AND NATURAL SPREAD SOURCES OF PHYTOPLASMA DISEASES ASSOCIATED WITH IMPORTANT ORNAMENTAL CROPS | |
| PL | ANT P | HYSIOLOGY | | |
| 32 | 10037 | KRISHNA KUMAR G. | MOLECULAR ANALYSIS OF ROOT SYSTEM ARCHITECTURE IN RICE UNDER DROUGHT STRESS | |
| PC | POST HARVEST TECHNOLOGY | | | |
| 33 | 10342 | JANAGAM VENU MADHAV | ENHANCEMENT OF POSTHARVEST LIFE OF GUAVA (psidium guajava I.) FRUIT BY APPLICATION OF GRAS SUBSTANCES | |
| 34 | 10522 | K. RAMA KRISHNA | STUDIES ON JELLY SEED DISORDER IN MANGO AND ITS DETECTION WITH X-RAY IMAGING | |
| 35 | 10658 | K PRASAD | POST HARVEST LOSS REDUCTION AND QUALITY RETENTION OF MANGO FRUITS UNDER AMBIENT STORAGE | |
| SE | SEED SCIENCE AND TECHNOLOGY | | | |
| 36 | 10551 | MURALI C N | SEED DEVELOPMENT, MATURATION AND CHARACTERIZATION IN SELECTED MARIGOLD (Tagetes spp) | |
| 37 | 10705 | VISHWANATH ROHIDAS YALAMALLE | STUDIES ON APPLICATION OF POLYMER, POLYAMINES AND SCAPE REGULATION ON SEED YIELD AND QUALITY IN ONION (Allium cepa L.) | |
| SC | IL SCI | ENCE AND AGRICULTURAL C | HEMISTRY | |
| 38 | 10192 | DEBARUP DAS | EFFECT OF LONG-TERM FERTILIZATION AND MANURING ON POTASSIUM DYNAMICS IN SOILS OF VARYING MINERALOGICAL MAKE-UP | |
| 39 | 10197 | ARIJIT BARMAN | MANGANESE DYNAMICS IN DIFFERENT SOILS IN RELATION TO ITS AVAILABILITY TO WHEAT (Triticum sp.) | |
| | | | | |

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. PGS-I/1-411/AC/2019

December 13, 2019

ENDORSEMENT

A copy of the proceedings of the 411th meeting of the Academic Council held on 14th November, 2019 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council and concerned Officers (By name)
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. School Hostel Office
- 5. Sr. Admn. Officer, IMC (For members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PA to Registrar/PS to Comptroller
- 7. Technical Assistant, P G School (IT Cell/Stats. Cell)
- 8. Assistant Administrative Officer, Post Graduate School-II
- 9. Concerned Dealing Assistants, PGS-I

King 12-14

(Ratnesh Kumar)

Registrar

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PROCEEDINGS OF THE 411th MEETING OF THE ACADEMIC COUNCIL HELD ON NOVEMBER 14, 2019 AT 10.30 AM IN THE CONFERENCE HALL OF PROF. M.S. SWAMINATHAN LIBRARY, IARI, NEW DELHI -110012

The following members were present:

| 1. | Dr. A.K. Singh, Director (Additional charge), IARI | Chairman |
|-----|--|-----------------|
| 2. | Dr. (Mrs.) Rashmi Aggarwal, Dean & J.D. (Edn.) (Additional charge), IARI V | ice-Chairperson |
| 3. | Dr. P.K. Joshi, Director, South Asia, IFPRI | Member |
| 4. | Dr. A.K. Singh, Former Vice-Chancellor, RVSKVV, Gwalior | Member |
| 5. | Dr. S.N. Puri, Former VC, CAU, Imphal | Member |
| 6. | Dr. J.P. Sharma, Joint Director (Extn.) | Member |
| 7. | Dr. A.K. Singh, Joint Director (Res.) (Additional charge), IARI | Member |
| 8. | Dr. P.S. Tiwari, Director, CIAE, Bhopal (Additional charge) | Member |
| | Dr. Man Singh, Project Director (Acting), WTC and Professor, WST | Member |
| | Dr. K.M. Manjaiah, Associate Dean, PG School | Member |
| | Dr.(Ms.) Neera Singh, Professor, Agricultural Chemicals | Member |
| | Dr.(Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| | Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| | Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| | Dr. V.K. Sehgal, Professor, Agricultural Physics | Member |
| | Dr. Seema Jaggi, Professor, Agricultural Statistics | Member |
| | Dr. T.K. Das, Professor, Agronomy | Member |
| | Dr. Anil Dahuja, Professor, Biochemistry | Member |
| | Dr. A.R. Rao Professor, Bioinformatics | Member |
| | Dr. Sudeep Marwaha, Professor, Computer Application | Member |
| | Dr. Subhas Chander, Professor, Entomolgy | Member |
| 22. | Dr. Soora Naresh Kumar, Professor, Environmental Sciences | Member |
| | Dr. K.P. Singh, Professor, Floriculture and Landscape Architecture | Member |
| | Dr. O.P. Awasthi, Professor, Fruit Science | Member |
| | Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| 26. | Dr. (Ms.) Radha Prasanna, Professor, Microbiology | Member |
| 27. | Dr. M.R. Khan, Professor, Nematology | Member |
| 28. | Dr. (Ms.) Veena Gupta, Professor, PGR | Member |
| 29. | Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| 30. | Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| 31. | Dr. S.K. Jha, Professor, PHT | Member |
| 32. | Dr. S.K. Jain, Professor, Seed Science & Technology | Member |
| 33. | Dr. S.P. Datta, Professor, SS&AC | Member |
| 34. | Dr. T.K. Behera, Professor, Vegetable Science | Member |
| 35. | Dr. Anil Sirohi, MOHR, PG Hostels | Member |
| 36. | Shri. V.R. Srinivasan, Comptroller, IARI | Member |
| 37. | Dr. Mahesh C. Yadav, Principal Scientist, NBPGR | Member |
| | and Faculty Representative to the Academic Council | |
| 38. | Mrs. Rajshree Anand, Incharge, Library Services | Member |
| 39. | Mr. Jagmohan Singh, President, PGSSU | Member |
| 40. | Mr. Rahul Kumar, Students' Representative to the AC | Member |
| 41. | Shri. Ratnesh Kumar, Registrar & Joint Director (Admn.) Member | Secretary |

Leave of absence was sought and granted to the following members:

| 1. | Dr. R.C. Agarwal, Deputy Director General (Edn.), ICAR, (A | Additional charge) Member |
|----|--|---------------------------|
| 2. | Dr. H.S. Gupta, Former DG, BISA & Director, IARI | Member |
| 3. | Dr. Kuldeep Singh, Director, NBPGR | Member |
| 4. | Dr. N.K. Singh, Director, (NIPB) (Additional charge) | Member |
| 5. | Dr. Tauqueer Ahmad, Director, IASRI (Additional Charge) | Member |
| 6. | Dr. M.R. Dinesh, Director, IIHR | Member |
| 7. | Dr. Debasis Pattanayak, Professor, MBB | Member |
| 8. | Dr. A Nagaraja, Principal Scientist, Fruit Science | Member |

Dr. Rashmi Aggarwal, Joint Director (Edn.) extended a formal welcome to Dr. A.K. Singh, Director, IARI and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time:

New members

1. Dr. P.S. Tiwari, Director, CIAE, Bhopal (Additinal charge)

and Faculty Representative to the Academic Council

- 2. Dr. Anil Dahuja, Professor, Biochemistry
- 3. Mr. Jagmohan Singh, newly elected President, PGSSU
- 4. Mr. Rahul Kumar, newly elected Students' Representative to the Academic Council

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

- 1. Dr. N.S. Rathore, Former Deputy Director General (Edn.), ICAR
- 2. Dr. Maharani Din, Former Director, CIAE, Bhopal (Additional charge)
- 3. Dr. L.M. Bhar, Former Director, IASRI (Additional charge)
- 4. Dr. (Mrs.) Aruna Tyagi, Former Professor, Biochemistry
- 5. Mr. B.R. Tribhuvan, Former President, PGSSU
- 6. Ms. Preeti Priyadarshni, Former Students' Representative to the Academic Council

The Director and Chairman, Academic Council apprised the Academic Council about the educational, research, extension and other activities/achivements of the Institute.

Thereafter, the following agenda items were taken up for consideration:

| Agenda Item No. | Description of Agenda Items | |
|--------------------|--|--|
| 411.1 | Confirmation of the proceedings of the 410 th meeting of the Academic Council | |
| | held on July 25, 2019 | |
| 411.2 | Action Taken Report on the Proceedings of 410th meeting of the Academic | |
| | Council held on July 25, 2019 | |
| 411.3 | Recommendations of the Standing Committee on Scholarships, Financia | |
| | Assistance & Academic Progress made in its meeting held on 02.11.2019 | |
| 411.4 | Recommendations of the Standing Committee on Courses Curricula a | |
| | Academic Affairs made in its meeting held on 07.11.2019 | |
| 411.5 | Recommendations of the Standing Committee on Faculty & Discipline made | |
| | in its meeting held on 08.11.2019 | |
| 411.6 | Finalization of the Academic Calendar for the 63 rd Academic Session 2020- | |
| | 2021 | |

| 411.7 | Finalization of "Convocation Week" programme | | |
|--------|--|--|--|
| 411.8 | List of candidates who have become eligible for the award of their respective | | |
| | degrees of M.Sc./M.Tech. and Ph.D. | | |
| 411.9 | Finalization of number of seats and eligibility qualification for admission to | | |
| | M.Sc./M.Tech. and Ph.D. degree programmes for the Academic Session 2020- | | |
| | 2021 | | |
| 411.10 | Consideration of Dual degree PhD exchange programme between WSU- | | |
| | IARI, New Delhi | | |
| 411.11 | Any other item with the permission of the Chair | | |

Agenda Item No. 411.1: Confirmation of the proceedings of the 410th meeting of the Academic Council held on 25.7.2019

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 410th meeting. Since no comment was there, the proceedings of the previous meeting was confirmed by the house.

Agenda Item No. 411.2: Report on action taken on the proceedings of the 410th meeting of the Academic Council held on 25.7.2019

Action taken report was presented by the Dean and Joint Director (Education) which was approved by the house, except on item No. 410.4.6. On the Item No.410.4.6 regarding recognition of two scientists from IIVR, Varanasi as Co-Research Guides, the Academic Council was of the opinion that the decision needs a review and decided that henceforth not to consider such proposals from any other ICAR Institutes.

Agenda Item No. 411.3: Consideration of the proceedings of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its meeting held on 02.11.2019

The Academic Council approved the following recommendations of Standing Committee. The decision of Chairman, Academic Council on disbursement of Scholarship was also ratified by the Academic Council.

- 411.3.1 As per P.G. School Calendar para 15.3.3 and 15.3.5, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. The payment of Scholarship/Fellowship shall be reviewed at the end of 3rd trimester and only those students will be permitted to continue getting fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of 3rd trimester (Commencement of the Academic Year 2019-20 is 29.07.2019).
- 411.3.2 Award of Institute's Sr. Scholarship @ Rs.25,000/- per month + Rs.10,000/- per annum as contingent grant to 205 candidates (Appendix-I) admitted at IARI, New Delhi.
- 411.3.3 Award of Institute's Sr. Scholarship @ Rs.25,000/- per month + Rs.10,000/- per annum as contingent grant to the following 12 students admitted at CIAE, Bhopal under IARI PG Outreach Programme.

| SI. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROLMENT |
|---------|----------------------------------|------------|---------------------------------|----------------------|
| 1. | Ms. BOGALAPRAVALLIKA | 11391 | AGRICULTURAL ENGINEERING (APS) | 19/08/2019 |
| 2. | RAJENDRA HAMAD | 11394 | -do- | 19/08/2019 |
| 3. | Ms. ASEEYA WAHID | 11398 | -do- | 19/08/2019 |
| 4. | PARMANANDSAHU | 11404 | AGRICULTURAL ENGINEERING (FPE) | 19/08/2019 |
| 5. | ABHISHEK PATEL | 11405 | -do- | 19/08/2019 |
| 6. | Ms. MATTAPARTHI LAKSHMI DURGA | 11407 | -do- | 19/08/2019 |
| 7. | NAVEEN KUMAR T | 11413 | -do- | 19/08/2019 |
| 8. | KANTHAVEL | 11420 | AGRICULTURAL ENGINEERING (SWCE) | 19/08/2019 |
| 9. | GOTTAM KISHORE | 11422 | -do- | 19/08/2019 |
| 10. | VINOD KUMAR S | 11423 | -do- | 19/08/2019 |
| 11. | Ms. SHILPA S SELVAN | 11647 | AGRICULTURAL ENGINEERING (APS) | 03/09/2019 |
| 12. | Ms. LAKSHMI POOJITHACHALLA | 11658 | AGRICULTURAL ENGINEERING (SWCE) | 11/09/2019 |

411.3.4 Award of Institute's Sr. Scholarship @ Rs.25,000/- per month + Rs.10,000/- per annum as contingent grant to the following 12 students admitted at IIHR, Bengaluru under IARI PG Outreach Programme.

| S.No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROLMENT |
|-------|------------------------|------------|--|----------------------|
| 1. | Ms. SANGEETHAPRIYA S | | FLORICULTURE AND LANDSCAPE ARCHITECTURE | 19/08/2019 |
| 2. | Ms. CHETNAJYOTI | 11504 | -do- | 19/08/2019 |
| 3. | Ms. AYESHA N | 11505 | -do- | 19/08/2019 |
| 4. | NITIN P S | 11512 | FRUIT SCIENCE | 19/08/2019 |
| 5. | Ms. SUSHMITHA B H | 11516 | -do- | 19/08/2019 |
| 6. | Ms. BINDU H | 11591 | POST HARVEST TECHNOLOGY OF HORTICULTURAL CROPS | 19/08/2019 |
| 7. | HARISH T | 11594 | -do- | 19/08/2019 |
| 8. | VITTALKAMBLE | 11595 | -do- | 19/08/2019 |
| 9. | YATHISH V C | 11623 | VEGETABLE SCIENCE | 19/08/2019 |
| 10. | Ms. PYDIROSHNI | 11625 | -do- | 19/08/2019 |
| 11. | Ms. LAVANYA H N | 11631 | -do- | 19/08/2019 |
| 12. | Ms. S PHIBAHUNJAISYIEM | 11634 | -do- | 19/08/2019 |

411.3.5 Award of Institute's Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 7 (6 IARI + 1 CIAE) students who were admitted under Faculty Up-gradation Scheme/ICAR-Inservice Scheme/ Inservice Candidate of Open scheme.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROLMENT |
|--------|---|------------|---------------------------------|----------------------|
| 1. | GOPAL CARPENTER, CISH, LUCKNOW | 11402 | AGRICULTURAL ENGINEERING (FPE) | 19/08/2019 |
| 2. | ABHISHEK MITARAMWAGHAYE, CIAE, BHOPAL | 11418 | AGRICULTURAL ENGINEERING (SWCE) | 19/08/2019 |
| 3. | KAMLESH KUMAR, IIFSR, MODIPURAM | 11452 | AGRONOMY | 19/08/2019 |
| 4. | AMRUT SANJAY MORADE, IISWC, DEHRADUN | 11510 | FRUIT SCIENCE | 19/08/2019 |
| 5. | SREEKANTH H S, COLLEGE. OF HORT. BENGALURU | 11518 | -do- | 19/08/2019 |
| 6. | DEVINDRAPPA, IIPR, KANPUR | 11560 | NEMATOLOGY | 19/08/2019 |
| 7. | ALOK KUMAR, IIPR, KANPUR | 11655 | SEED SCIENCE AND TECHNOLOGY | 04/09/2019 |

411.3.6 Award of Contingent grant only @ Rs.10,000/- per annum to the following 5 (4 IARI + 1 CIAE) ICAR Inservice/Departmental Technical Candidates working at the same station.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROLME NT |
|--------|--|------------|--|--------------------------|
| 1. | VIJAY KUMAR, CIAE, BHOPAL | 11403 | AGRICULTURAL ENGINEERING (FPE) | 19/08/2019 |
| 2. | LOKENDRA SINGH, IARI, NEW DELHI | 11507 | FLORICULTURE AND LANDSCAPE ARCHITECTURE | 19/08/2019 |
| 3. | HARENDRA KUMAR YADAV, IARI, NEW DELHI | 11506 | -do- | 19/08/2019 |
| 4. | SHIV KUMAR SINGH, IARI, NEW DELHI | 11538 | GENETICS AND PLANT BREEDING | 19/08/2019 |
| 5. | Ms. PAVITHRA S, NIAP, NEW DELHI | 11388 | AGRICULTURAL ECONOMICS | 19/08/2019 |

411.3.7 Following 19 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Institute Sr. Scholarship from IASRI.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROMENT |
|-------|----------------------------|------------|---------------------------|---------------------|
| 1. | KRISHNA PADA SARKAR | 11436 | AGRICULTURAL STATISTICS | 19/08/2019 |
| 2. | DEBOPAMRAKSHIT | 11437 | -do- | 19/08/2019 |
| 3. | Ms. TANIMA DAS | 11438 | -do- | 19/08/2019 |
| 4. | Ms. ANKITAVERMA | 11439 | -do- | 19/08/2019 |
| 5. | VINAYKUMAR L N | 11440 | -do- | 19/08/2019 |
| 6. | RAHUL KUMAR GUPTA | 11441 | -do- | 19/08/2019 |
| 7. | VINAYAKA | 11442 | -do- | 19/08/2019 |
| 8. | PRABHAT KUMAR | 11443 | -do- | 19/08/2019 |
| 9. | RAJUBHAIHARJIBHAICHAUDHARI | 11444 | -do- | 19/08/2019 |
| 10. | Ms. TANWYDASMANDAL | 11465 | BIOINFORMATICS | 19/08/2019 |
| 11. | NITESH KUMAR SHARMA | 11466 | -do- | 19/08/2019 |
| 12. | BAIBHAV KUMAR | 11467 | -do- | 19/08/2019 |
| 13. | JUTAN DAS | 11468 | -do- | 19/08/2019 |
| 14. | ABHISHEKH M P | 11469 | COMPUTER APPLICATION | 19/08/2019 |
| 15. | AMIT SAHA | 11470 | -do- | 19/08/2019 |
| 16. | Ms. PREETYDAGAR | 11471 | -do- | 19/08/2019 |
| 17. | BANOTHJAGDISHNAIK | 11472 | -do- | 19/08/2019 |
| 18. | ROHIT KUMAR SINGH | 11474 | -do- | 19/08/2019 |
| 19. | MURARI KUMAR | 11475 | -do- | 19/08/2019 |

411.3.8 The Standing Committee did not recommend award of Institute's Sr. Scholarship to the following 4 In-service candidates as they have already availed the benefit of Scholarship during their previous admission at IARI for the same programme and left the course incomplete. Further, the Standing Committee was also of the view that necessary recovery on account of Surety Bond, Felllowship amount, etc. as per rules may also be made from these students, if due. Further, to avoid second time award of fellowship, a suitable undertaking to the effect that the students has not availed the benefit of Scholarship for the same programme earlier from or through IARI/ICAR, may be obtained.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/Sub-Discipline | DATE OF ENROL. |
|-------|---|------------|--|-------------------|
| 1. | DEEPAK SABAJITHORAT, CIAE, BHOPAL | 11400 | AGRICULTURAL ENGINEERING (FPE) | 19/08/2019 |
| 2. | MANJUNATHA GOWDA THONDIHALU, IIVR, VARANASI | 11554 | NEMATOLOGY | 19/08/2019 |
| 3. | MANISH KUMAR MITTAL, DMAPR, ANAND | 11563 | PLANT GENETIC RESOURCES | 19/08/2019 |
| 4. | CHANDERBHAN, SKRAU, BIKANER | 11596 | POST HARVEST TECHNOLOGY OF HORTICULTURAL CROPS | 19/08/2019 |

411.3.9. During the current academic session 2019-20, Education Division of ICAR referred 192 candidates including 12 for IARI Assam and 12 for IARI Jharkhand for admission to M.Sc. degree programmes in different disciplines at IARI through online counseling. Out of 192, two students did not report for admission and six have been removed from the rolls. For these 8 vacant seats offline counseling was held and seven seats were filled. One seat remained vacant in the discipline of WST as no candidate reported for admission.

The candidates who are not awarded ICAR P.G. Scholarship are considered for award of Institute Scholarship. Award of ICAR-PG Scholarship is yet to be received from the Education Division, ICAR. The Academic council decided that the duly filled application form for IARI Jr. Scholarship may be obtained from all the M.Sc./M.Tech. students at the earliest and to avoid financial hardship, the Scholarship may be paid to these students from IARI fund after obtaining the approval from the Chairman, Academic Council. After the award of ICAR-PG Scholarship, the duly filled application forms (from these students) be sent to ICAR Education Division for further necessary action (i.e. regarding release of funds). On obtaining the funds from ICAR, necessary adjustment may be made accordingly.

Agenda Item No. 411.4: Consideration of the proceedings of the meeting of the Standing Committee on Course Curricula and Academic Affairs held on 07.11.2019

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

411.4.1: Introduction of two New Courses :(i) Science and Society PGS 508, (ii) Information Technologies for Agricultural Extension (CA 579/AG EXT 579)

The Academic council discussed the recommendation of the Standing Committee and decided to Introduce a compulsory Course to all PhD students "Science and Society" (PGS 508) wef 2019-20 (I/II/III Trimester) academic session.

With regard to "Information Technologies for Agricultural Extension (CA 579/AG EXT 560)" course, the Academic Council suggested to revise the title and contents, to include ICT applications in agriculture and more emphasis on practical aspects. Board of Studies of the Division of Agricultural Extension to revise the compulsory course for implementation from III-Trimester of 2019-20 session for the PhD students of Agricultural Extension.

411.4. 2: Introduction of new Course "Non-coding RNAs "BI 644" in the discipline of Bioinformatics

The Academic Council approved the Introduction of above new Course(Optional) as per detail given below:

Title of the Course: Non-coding RNAs BI 644

Number of credits: 1L + 1P

To be offered: II/III

Objective: To orient the students towards the developments recently taken place in the field of non-coding RNAs and their characterization, prediction using computational algorithms, pipelines and tools.

Course contents (Theory)

UNIT I

Course overview; RNA molecules: biogenesis, types, structure and functions. Introduction to ncRNAs: types of ncRNAs, small ncRNAs, long ncRNAs, function of ncRNAs, Role of ncRNAs in plants and animals

UNIT II

Small ncRNA: Introduction, miRNAs, siRNAs, hiRNAs, piRNAs, shRNAs; Post-transcriptional processing of microRNA; microRNA: target pairing and RISC function; miRNA target genomics; Functions and roles of miRNAs in growth & development of plants and animals. Stress responsive miRNAs, oncomiRs&tumour suppresser miRNAs.

UNIT III

IncRNAs: biogenesis, classifications, structure & function of IncRNAs. Endogenous target mimic IncRNAs, triplet associated IncRNAs (miRNA, mRNA, IncRNAs); Circular RNAs: structure and functions. Role of circular RNA in cancer, growth and development.

UNIT IV

Splicing and splice variants; Alternative splicing; Alternative splicing regulation; Nonsense mediated RNA decay; RNA editing.

UNIT-V

Coding and non-coding sequences; TEs; lincRNAs and lncRNAs; Bacterial RNAs; riboswitches; Introduction to CRISPRs.

Practical

Exploration of databases and tools for identification and characterization of ncRNAs (miRNA, lncRNAs, circular RNAs); Prediction and characterization of ncRNAs from RNA-seq profiles; Structure prediction and validation of ncRNAs; Generation of new ncRNA resources and submission to genomic databases.

Suggested additional Readings

- 1. Ernesto Picardi (Ed.). 2015. RNA bioinformatics. Springer
- 2. Gordokin, Jan Ruzyo, L.Walter (Eds.). 2014. RNA sequence, structure and function: computational and bioinformatic methods –Springer
- 3. Jocelyn E. Krebs, Benjamin Lewin, Elliott S. Goldstein, Stephen T. Kilpatrick. 2014. Lewin's Genes XI- Jones & Bartlett Publishers
- 4. MRS Rao. (ed.). 2017. Long non-coding RNA biology -- springer
- 5. James Darnell .2011.RNA: Life's indispensable molecule CSH press KrishnaraoAppasani. 2008. microRNA-from basic science to disease biology- Cambridge university press

411.4.3: Introduction of Ph.D. programme in Development Economics and Policy at NIAP, New Delhi

The Academic Council discussed the issue in detail and decided that Board of Studies of the Discipline of Agricultural Economics shall prepare a comparative note and authorized the Chairman to constitute a committee for further discussion/deliberations on this issue.

411.4.4: Institution of new award: Best Extension Scientist Award for outstanding contribution in Agricultural Extension

The Academic Council approved the Institution of new award: Best Extension Scientist Award for outstanding contribution in Agricultural Extension received from the Board of Studies of Discipline of Agricultural Extension commencing from the biennial 2019-20. The guidelines, marking scheme and proforma approved by the Academic Council is placed at Appendix-II.

411.4.5: To make MB 607 Microbial Genetics (3L+1P) as Core Course for M.Sc. Students

The Academic Council approved the proposal of Board of Studies of Microbiology for making Course MB 607 Microbial Genetics (3L+1P) as a Core Course for M.Sc. students.

411.4.6: NAAS rating of 3.50 out of 10.00 / NAAS rating of 5.00 out of 10.00 for meeting the requirement of PhD thesis submission

The Academic Council discussed the current status/trends of publication of research papers from PhD theses and decided to enhance the NAAS rating requirement to ≥ 6.0 out of 10.0 from 2019-20 academic session (with the exception to Discipline of Agricultural Engineering, Agricultural Extension, Agricultural Economics, Agricultural Statistics and Computer Application).

The Academic Council also recommended for the revision of guidelines of the IARI Merit Medal.

Agenda Item No. 411.5: Consideration of the proceedings of the meeting of the Standing Committee on Faculty & Discipline held on 08.11.2019

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

411.5.1: Induction of following 14 Scientists into PG School Faculty in their respective disciplines at IARI (8) and IARI PG outreach Programme at IIHR (3) and IARI-Jharkhand/IARI Assam (3) as they meet the qualifications/eligibility as per the prescribed guidelines.

| S. No. | Name & Designation | Name of the Discipline | | |
|--------|---|-----------------------------|--|--|
| | IARI, New Delhi | | | |
| 1. | Dr. Raju Kumar, Scientist | Agricultural Statistics | | |
| 2. | Dr. M. Balasubramanian, Scientist | Agricultural Economics | | |
| 3. | Dr. Chavlesh Kumar, Scientist | Fruit Science | | |
| 4. | Dr. Rajna S., Scientist | Entomology | | |
| 5. | Dr. T. Boopathi, Sr. Scientist | Entomology | | |
| 6. | Dr. Gowthami R., Scientist | Genetic and Plant Breeding | | |
| 7. | Dr. Sudhir Srivastava, Scientist | Bioinformatics | | |
| 8. | Dr.Vandita Kumari, Scientist | Agricultural Statistics | | |
| | IIHR, Bengalur | 1 | | |
| 9. | Ms. Rohini M.R, Scientist | Plant Genetic Resource | | |
| 10. | Dr. Raja Shankar, Principal Scientist | Vegetable Science | | |
| 11. | Dr. Linta Vincent, Scientist | Fruit Science | | |
| , | For IARI-Assam | 1 | | |
| 12. | Dr. Amit Kumar, Scientist, NEH (Umiam) | Genetics and Plant Breeding | | |
| 13. | Dr. Harish G.D, Scientist (ICAR-NBPGR R.S-Shillong) | Genetics and Plant Breeding | | |
| | For IARI-Jharkhand | | | |
| 14. | Dr. Shashi Bhushan Choudhary, Scientist (SS) (Ranchi) | Genetics and Plant Breeding | | |

411.5.2: Keeping in view the Academic Council decision taken in its 410th meeting held on 25/7/2019, approved transfer of faculty membership of following three faculty as per detail given below:

| S. No. | Name & Designation | Faculty membership transferred from | Faculty membership transferred to Discipline of |
|-----------|---------------------------------|-------------------------------------|---|
| | | Discipline of | |
| 1 | Dr. Soumen Pal, Scientist | Agricultural Statistics | Computer Application |
| 2 | Dr. Tejpal Singh, Sr. Scientist | Plant Genetic Resources | Seed Science & |
| | 31 5 7 | | Technology |
| 3 | Dr. Nagamani Sandra, Scientist | Plant Pathology | Seed Science & |
| | , | | Technology |

411.5.3 Recognition of following 3 faculty members of IARI as Research guides for M.Sc. guidance in their respective disciplines as they meet the prescribed requirements for becoming the research guides:

| S. No. | Name & Designation | Name of the Discipline |
|--------|-------------------------------------|-----------------------------|
| 1 | Dr. Kumar Durgesh, Scientist | Genetics and Plant Breeding |
| 2 | Dr. Manjunath Prasad C.T, Scientist | Seed Science & Technology |
| 3 | Dr. Ankur Biswas, Scientist | Agricultural Statistics |

- 411.5.4 Recognition of Dr. Karan Singh, Principal Scientist (ComputerApplication), CIAE, Bhopal as PhD Research Guide in the discipline of Agricultural Engineering and in light of the Academic Council decision taken in its 410th meeting held on 25/7/2019 (as a special case, after relaxing requirement of two M.Sc./M.Tech Students guidance experience) in the discipline of Agricultural Engineering (FMP).
- 411.5.5 Non-Recognition of the following three faculty members of CIAE, Bhopal as Research Guides as they did not meet the prescribed requirement of teaching experience/Research Publications:

| S. No. | Name and Designation | Name of the Discipline | Reason for declining |
|--------|---|----------------------------------|---|
| 1 | Dr. Chandra Kant Saxena, Principal Scientist | Agricultural Engineering(SWCE) | Short of Research papers, two M.Sc./M. |
| | | | Tech students guidance experience |
| 2 | Dr. N.S. Chandel, Scientist | Agricultural Engineering(FPE) | Short of teaching, two M.Sc./M. Tech students |
| | | | guidance experience |
| 3 | Dr. Sandip Mandal, Scientist | Agricultural Engineering | Short of teaching, M.Sc./M. Tech students |
| | | | guidance experience |

411.5.6: Recognition of following four scientists as Adjunct Faculty at IARI as per prescribed guidelines approved by the Academic Council in its 402nd meeting held on 30/11/2016 and notified vide Notification No. PGS/1-402/AC/2016 dated 20/1/2017.

| S. No. | Name & Designation | Name of the Discipline |
|--------|------------------------------------|---|
| | , | |
| 1. | Dr.(Mrs.) Malavika Dadlani, | Plant Physiology |
| | Former Joint Director (Res.), IARI | |
| 2. | Dr. S.C. Datta, | Soil Science and Agricultural Chemistry |
| | Former Principal Scientist, IARI | |
| 3. | Dr. P. Kumar, | Agricultural Economics |
| | Former Head of the Division, IARI | |
| 4. | Dr. V.C. Mathur, | Agricultural Economics |
| | Former Professor, IARI | |

The Academic Council approved the Academic Calendar of the P G School for the Academic Session 2020-21.

| Academic S | Session 2020-2 | |
|--|--|--|
| 2020 | Admission | Process for the Academic Session 2020-21 |
| June 1 | Monday | ICAR AIEEA- 2020 |
| June 26 | Friday | Last date for submission of thesis by IARI M.Sc./M.Tech. students who will apply for admission to Ph.D. Programme |
| June 27 | Saturday | Declaration of result of ICAR AIEEA 2020 for admission to M.Sc./M.Tech. and Ph.D. programme |
| July 04 | Saturday | Last date for receipt of mark sheet from the candidates who are studying in M.Sc./M.Tech. final year |
| July 11 | Saturday | Academic Council meeting |
| July 23-24 | Thursday & Friday | Verification of original documents and online Registration of newly admitted M.Sc./M.Tech. and Ph.D. students for the academic session 2020-21 |
| July 25 | Saturday | Orientation Programme: Newly admitted students to be addressed by Dean and Director, IARI |
| I – Trimeste | er | |
| July 27 | Monday | First Trimester begins, payment of fees and online registration of continuing students |
| July 28 | Tuesday | Commencement of Class Work |
| August 10 | Monday | Last date for adding/dropping of course |
| September 05 | Saturday | Teacher day celebration and lecture |
| November 16 to November 21 | Monday to Saturday | Final Examination of I Trimester |
| II – Trimeste | r | |
| November 23 | Annual contraction of the state | Online Registration of students |
| November 24 | - | Commencement of Class Work |
| December 03 | | Agricultural Education Day |
| December 07 | Monday | Last date for adding/dropping of courses |
| December 20 to January 03 | Sunday to Sunday | Winter Break |
| 2021 | | |

| | | 1 to | | | | | |
|----------------------------------|--------------------------|--|--|--|--|--|--|
| February 1 | Monday | Last date for holding the Final Viva-Voce Examination for consideration for the award of IARI Merit Medals and award of degree in the 59 th Convocation, 2021 | | | | | |
| February 08 | Monday | Commencement of 59 th Convocation Week Programme | | | | | |
| February 11 | Thursday | 51st Lal Bahadur Shastri Memorial Lecture | | | | | |
| February 12 | Friday | 59 th Convocation | | | | | |
| February 20 to February 22 | Saturday to Monday | Annual Sports Meet (Tentative) | | | | | |
| March 22 to March 27 | Monday to Saturday | Final Examination of II Trimester | | | | | |
| III - Trimest | er | | | | | | |
| March 29 | Monday | Online Registration of students | | | | | |
| March 30 | Tuesday | Commencement of Class Work | | | | | |
| April 14 | Wednesday | Last date for adding/dropping of course | | | | | |
| May 23 to June 13 | Sunday to Sunday | Summer Vacation | | | | | |
| July 12 to July 17 | Monday to Saturday | Final Examination of III Trimester | | | | | |
| July 18 to July 25 | Sunday to Sunday | Trimester Break | | | | | |

Agenda Item No. 411.7: Finalisation of 58th Convocation Week Programme February 3-7, 2020

The Academic Council approved the following 58th Convocation programme of IARI.

Venue: Dr. B.P. Pal Auditorium

Monday, February 03, 2020

09.30-18.00 hrs. Presentation of "Significant Post Graduate Students Research" by M.Sc./M.Tech.& Ph.D. students for "Merit Medals" and "Best Student of the Year" award

Tuesday, February 04, 2020

Presentation of Significant Educational Achievements for the year 2019 by the Professors representing different schools of the teaching disciplines

| 09.30-11.15 hrs. | Session I – Crop Improvement |
|------------------|------------------------------------|
| 11.30-13.00 hrs. | Session II – Crop Protection |
| 14.00-15.45 hrs. | Session III – Resource Management |
| 16.00-17.00 hrs. | Session IV – Basic Sciences |
| 17.15-18.30 hrs. | Session V – Horticultural Sciences |

Wednesday, February 05, 2020

Presentation of Significant Educational Achievements for the year 2019 by the Professors representing different schools of the teaching disciplines

09.30-10.45 hrs. Session VI – Social Sciences

Award Lectures

| 11.00-12.15 hrs. | Lecture by the Recipient of XXI th Sukumar Basu Memorial Award |
|------------------|---|
| 12.30-13.45 hrs. | Lecture by the Recipient of XX^{th} Shri Harikrishna Shastri Memorial Award |
| 15.00-16.15 hrs. | Lecture by the Recipient of 1st Best Extension Scientist Award |
| 16.30-17.15 hrs. | Lecture by the Recipient of V th Dr. A.B. Joshi Memorial Award |

Thursday, February 06, 2020

Venue: Conference Hall, Prof. M.S.Swaminathan Library

09.30-10.30 hrs. 412th Meeting of the Academic Council, IARI

11.00-12.00 hrs. Meeting of Board of Management, IARI

12.15-13.00 hrs. Press Conference

Venue: Dr. B.P. Pal Auditorium

14.00-15.30 hrs. 50th Lal Bahadur Shastri Memorial Lecture

Venue: New Auditorium, NASC Complex

15.45-16.30 hrs. Full Dress Rehearsal

Friday, February 07, 2020

Venue: New Auditorium, NASC Complex

11.00-13.00 hrs. **58thConvocation**

18.00 hrs. Cultural Programme by P. G. Students

20.00 hrs. Convocation Dinner

The process on the following items has already been initiated/completed with the approval of the Chairman of the Academic Council to enable the P.G. School to complete all the pre-convocation requirements well in time. The action taken is submitted for kind information of the Academic Council and its ratification.

- 1. Finalization of Chief Guest
- 2. Chairpersons for the various Programmes
 - i) Chairman, Judging Committee and Convenor for the programme "Significant Post Graduate Students Research-2019 presentation" by the PG students for IARI Merit Medals" and Best Student of the Year Award on Monday, February 03, 2020 (to be finalised in due course of time)
 - ii) Chairpersons and Conveners for the Programme "Presentation of Significant Educational Achievements of IARI for the year 2019" by the Professors of teaching disciplines representing schools on Tuesday, February 04, 2020(to be finalised in due course of time)
- 3. Lecture by the recipients of the following awards
 - i) Shri Hari Krishna Shastri Memorial Award
 - ii) Sukumar Basu Memorial Award
 - iii) Best Extension Scientist Award

- iv) Dr. A.B. Joshi Memorial Award
- 4. Speaker to deliver 50th Lal Bahadur Shastri Memorial Lecture:
- 5. Chairman and Convenor for the 50th Lal Bahadur Shastri Memorial Lecture:
- 6. Chairpersons for the below mentioned Committees:

| i) Pandal and Seating Arrangements | Dr. Indra Mani, Head, Agril |
|---|--------------------------------|
| Committee | Engineering, Chairperson |
| ii) Catering Arrangement Committee for | Sh. Ratnesh Kumar, Registrar & |
| Various Occasions | JD (A), Chairperson |
| iii) Invitation Committee | Dr. V.K. Baranwal, Professor, |
| | Plant Pathology, Chairperson |
| iv) Reception Committee | Dr. (Ms.) Anupama Singh, Head, |
| | Divison of Agril. Chemicals, |
| | Chairperson |
| v) Cultural Programme & Invocation Song | Dr. (Mrs.) K. Annapurna, Head, |
| Committee | Microbiology Chairperson |
| vi) Decoration Committee | Dr. Markandey Singh, |
| | Floriculture(Coordinator) |
| vii) Publicity Committee | Dr. Rabindra NathPadaria, |
| | Prof.Agril. Extension, |
| | Chairperson |
| viii) Transport and Accommodation | Sh. Pushpender Kumar, Chief |
| Committee | Admin. Officer, Directorate, |
| | IARI |

Agenda Item No.411.8:

Consideration of the list of the candidates who have become eligible for award of their respective degrees of Master of Science and Doctor of Philosophy as on 11.11.2019

The Academic Council approved the list of 147 candidates who have become eligible for the award of degree of M.Sc./M.Tech. and 30 candidates for Doctor of Philosophy who have completed all the requirements including final viva-voce examination as on 13.11.2019(Appendix-III).

Agenda Item No. 411.9: Finalization of number of seats and eligibility qualification for admission to M.Sc./M.Tech. and Ph.D. degree programmes for the Academic Session

The Academic Council approved the following:

M. Sc./M.Tech. and Ph.D. programme: The seat requirement will be sent to the Education Division of ICAR as they conduct the All India Entrance Examination for Admission (AIEEA – PG- 2020, AIEEA PGS 2020) and Award of ICAR-JRF to Master's degree programme and ICAR-SRF to Doctoral degree programme of IARI, IVRI, NDRI, CIFE, CAU and SAU's. The exam shall be conducted by NTA and 100% of seats at IARI will be filled by this exam.

Discipline-wise Seat positions for M.Sc./M.Tech. programmes at IARI-New Delhi, IARI-Jharkhand and IARI-Assam

| S.No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--|--|-----|-----|-----|----|----|-----|-------|
| 1 | AGRICULTURAL CHEMICALS | 2 | 1 | 2 | 0 | 1 | 0 | 6 |
| 1. | | | | | | | (1) | |
| | AGRICULTURAL ECONOMICS | 2 | 1 | 1 | 1 | 0 | | 5 |
| | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| 6. | AGRICULTURAL EXTENSION | 2 | 0 | 2 | 2 | 1 | 0 | 7 |
| 7. | AGRICULTURAL PHYSICS | 2 | 0 | 2 | 1 | 0 | 0 | 5 |
| 8. | AGRICULTURAL STATISTICS | 3 | 1 | 2 | 1 | 1 | 0 | 8 |
| 9. | AGRONOMY | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| 10. | BIOCHEMISTRY | 2 | 0 | 2 | 1 | 0 | 0 | 5 |
| 11. | BIOINFORMATICS | 3 | 0 | 1 | 1 | 1 | (1) | 6 |
| 12. | COMPUTER APPLICATION | 3 | 1 | 2 | 1 | 0 | 0 | 7 |
| 13. | ENTOMOLOGY | 3 | 1 | 2 | 1 | 0 | 0 | 7 |
| 14. | ENVIRONMENTAL SCIENCES | 2 | 1 | 2 | 1 | 1 | 0 | 7 |
| | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 1 | 1 | 0 | 1 | 0 | 5 |
| 16. | FRUIT SCIENCE | 3 | 1 | 1 | 1 | 0 | 0 | 6 |
| 17. | GENETICS AND PLANT BREEDING | 3 | 1 | 3 | 1 | 0 | 0 | 8 |
| 18. | MICROBIOLOGY | 3 | 0 | 2 | 1 | 1 | 0 | 7 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 0 | 2 | 1 | 1 | 0 | 8 |
| 20. | NEMATOLOGY | 3 | 0 | 1 | 0 | 1 | 0 | 5 |
| 21. | PLANT GENETIC RESOURCES | 2 | 0 | 2 | 1 | 0 | (1) | 5 |
| 22. | PLANT PATHOLOGY | 4 | 0 | 2 | 2 | 1 | 0 | 9 |
| 23. | PLANT PHYSIOLOGY | 2 | 1 | 1 | 1 | 1 | (1) | 6 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 26. | SEED SCIENCE AND TECHNOLOGY | 3 | 0 | 2 | 1 | 1 | 0 | 7 |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2 | 1 | 2 | 0 | 1 | 0 | 6 |
| 28. | VEGETABLE SCIENCE | 2 | 1 | 1 | 1 | 0 | (1) | 5 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| ······································ | Total-A | 68 | 17 | 45 | 25 | 13 | (5) | 168 |

B- IARI, Assam

| S.No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|-------|---|-----|-----|-----|----|----|----|-------|
| | AGRONOMY | 1 | 0 | 1 | 0 | 1 | 0 | 3 |
| 1. | | | | | | | | |
| 2. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 3. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| 4. | VEGETABLE SCIENCE | . 1 | 1 | 0 | 1 | 0 | 0 | 3 |
| | Total-B | 5 | 1 | 3 | 2 | 1 | 0 | 12 |

C- IARI, Jharkhand

| S.No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|---|---|-----|------------|-----|----|----|-----|-------|
| *************************************** | AGRONOMY | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 1. | | | | | | | | |
| 2. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 3. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 4. | VEGETABLE SCIENCE | 2 | 0 | 0 | 0 | 1 | 0 | 3 |
| | Total-C | 5 | 1 | 3 | 2 | 1 | 0 | 12 |
| ****** | Grand Total=A+B+C | 78 | 19 | 51 | 29 | 15 | (5) | 192 |

Discipline-wise Seat positions for Ph.D. programmes at IARI-New Delhi, IARI-PG outreach programme at CIAE and IIHR

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--|--|-----|------------|-----|----|----|-----|-------|
| - | AGRICULTURAL CHEMICALS | 3 | I | 2 | 2 | 0 | 0 | 8 |
| 1. | | | | | | | | |
| 2. | AGRICULTURAL ECONOMICS | 2 | 0 | - 2 | 1 | 1 | (1) | 6 |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| *************************************** | Structure) | | | | | | | |
| 4. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | 1 | 2 | 1 | 1 | 0 | 7 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| 6. | AGRICULTURAL EXTENSION | 3 | 1 | 2 | 2 | 1 | 0 | 9 |
| 7. | AGRICULTURAL PHYSICS | 3 | 0 | 2 | 1 | 0 | 0 | 6 |
| 8. | AGRICULTURAL STATISTICS | 3 | 1 | 3 | 1 | | (1) | 9 |
| 9. | AGRONOMY | 4 | 1 | 4 | 2 | 2 | 0 | 13 |
| 10. | BIOCHEMISTRY | 4 | 1 | 2 | 1 | 0 | 0 | 8 |
| 11. | BIOINFORMATICS | 4 | 1 | 2 | 1 | 0 | (1) | 8 |
| 12. | COMPUTER APPLICATION | 3 | 1 | 2 | 1 | 0 | 0 | 7 |
| 13. | ENTOMOLOGY | 2 | 1 | 2 | 1 | 1 | (1) | 7 |
| 14. | ENVIRONMENTAL SCIENCES | 2 | 1 | 2 | 1 | 1 | (1) | 7 |
| | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 3 | 1 | 1 | 1 | 1 | 0 | 7 |
| 16. | FRUIT SCIENCE | 4 | 1 | 2 | 1 | 1 | 0 | 9 |
| 17. | GENETICS AND PLANT BREEDING | 6 | 2 | 5 | 2 | 1 | (1) | 16 |
| 18. | MICROBIOLOGY | 5 | 1 | 2 | 1 | 0 | 0 | 9 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 1 | 2 | 1 | 1 | 0 | 9 |
| 20. | NEMATOLOGY | 2 | 1 | 0 | 1 | 0 | 0 | 4 |
| 21. | PLANT GENETIC RESOURCES | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| 22. | PLANT PATHOLOGY | 5 | 1 | 3 | 2 | 1 | 0 | 12 |
| 23. | PLANT PHYSIOLOGY | 3 | 0 | 1 | 1 | 0 | 0 | 5 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 2 | 0 | 2 | 1 | 0 | 0 | 5 |
| | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 26. | SEED SCIENCE AND TECHNOLOGY | 3 | 0 | 2 | 1 | 1 | 0 | 7 |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 6 | 1 | 4 | 2 | 1 | (1) | 14 |
| 28. | VEGETABLE SCIENCE | 4 | 1 | 3 | 2 | 1 | 0 | 11 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 3 | 1 | 3 | 1 | 1 | 0 | 9 |
| Commonwealth Commo | Total-A | 91 | 23 | 61 | 34 | 17 | (7) | 226 |
| 3. C | IAE, BHOPAL | | | | | | | |

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--|--|-----|-----|-----|----|----|----|-------|
| 1. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 1 | 1 | 0 | 1 | 0 | 0 | 3 |
| 2. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 1 | 0 | 1 | 0 | 1 | 0 | 3 |
| 3. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| and the second s | Total-B | 3 | 1 | 2 | 1 | 1 | 0 | 8 |

C. IIHR, BENGALURU

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--|---|-----|-----|-----|----|----|-----|-------|
| 1. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 0 | 1 | 0 | 1 | 0 | 4 |
| 2. | FRUIT SCIENCE | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 3. | POST HARVEST TECH. (PHT of Horticultural Crops) | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 4. | VEGETABLE SCIENCE | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| | Total-C | 5 | 1 | 3 | 2 | 1 | 0 | 12 |
| A CONTRACTOR OF THE PARTY OF TH | Grand Total= A+B+C | 99 | 25 | 66 | 37 | 19 | (7) | 246 |

Date of Entrance Examination (ICAR AIEEA-2020) :01.06.2020 (Sunday)

In addition to the seats finalized for open stream, seats for admission to M.Sc. & Ph.D. programmes under other streams are detailed below:

Faculty Up-gradation Scheme - 10 seats for Ph.D.
ICAR-In-Service Nominee Scheme - 10 seats for Ph.D.
Departmental (Scientific) - 10 seats for Ph.D.
Departmental (Technical) - 10 seats (5 seats each for

M.Sc./M.Tech.& Ph.D.)

Foreign Students - 30 seats for M.Sc./M.Tech.& Ph.D.

J & K migrants - 10 seats (5 seats each for M.Sc./M.Tech.

& Ph.D.)

Children/widows of Security Forces - 5 seats for M.Sc./M.Tech. & Ph.D.

Agenda Item No. 411.10: Consideration of Dual degree PhD exchange programme between WSU-IARI, New Delhi

Under the approved broad MoU and agreed work plan between ICAR and Western Sydney University, Australia a dual degree PhD exchange programme which has been finalized recently by the senior officials of both the countries was discussed and agreed by the Academic Council. Under this programme to start with five PhD students, two each in Soil Science & Vegetable Science (Protected Cultivation) and one in the discipline of Agricultural Extension has been finalized for the current academic session 2019-20.

The details of the selected candidates are given below:

| S.No | Name of the Student, Roll No. & Discipline | Name of the Research Guide |
|---------|--|--|
| Agric | ultural Extension | |
| 1. | Mr. Bhagirath Das Roll No. 11425 | Dr. R.N. Padaria Principal Scientist & Professor Division of Agricultural Extension, IARI |
| Soil Sc | ience and Agricultural Chemistry | |
| 2. | Mr. Arkaprava Roy Roll No. 11604 | Dr. S.P. Datta Principal Scientist & Professor Division of Soil Science and Agricultural Chemistry, IARI |
| 3. | Mr. Ranabir Chakraborty Roll No. 11605 | Dr. T.J. Purakayastha Principal Scientist Division of Soil Science and Agricultural Chemistry, IARI |
| Vegeta | ble Science | |
| 4. | Mr. Anjan Das Roll No. 11621 | Dr. A.D. Munshi Principal Scientist Division of Vegetable science, IARI |
| 5. | Mr. Dhananjay A. Hongal Roll No. 11619 | Dr. T.K. Behera Principal Scientist & Professor Division of Vegetable science, IARI |

Agenda Item No. 411.11: Any other item with the permission of the Chair

- 1. The Academic Council discussed the proposal of discipline of "Plant Genetic Resources" for renaming the degree as "Plant Genetic Resources and Agriculture Botany". The Academic Council did not agree to the proposal and was of the opinion that Board of Studies may submit a detailed proposal for further consideration of Standing Committee on Course Curicula and Academic Affairs.
- 2. Regarding the issue of limited hostel accommodation facilities at IARI, the Academic Council constituted a Committee under the Chairmanship of Dean (Members: MOHR, Registrar and President PGSSU) to formulate allotment guidelines for the approval of Director.

The meeting ended with the vote of thanks to the Chair.

(Ratnesh Kumar) Member-Secretary

(A.K. Singh)
Chairman

(Rashmi Aggarwal)
Vice Chairperson

APPENDIX-I

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE/SUB-DISCIPLINE | DATE_ENROLMEN |
|------------|---|----------------|---------------------------|--------------------------|
| 1. | RAKESH KUMAR | 11375 | AGRICULTURAL CHEMICALS | 19/08/2019 |
| 2. | VIJAY KUMAR | 11376 | -do- | 19/08/2019 |
| 3. | Ms. MADHUTIPPANNANAVAR | 11377 | -do- | 19/08/2019 |
| 4. | SUBHASIS SARKAR | 11378 | -do- | 19/08/2019 |
| 5. | RANDEEP KUMAR | 11379 | -do- | 19/08/2019 |
| <u>6.</u> | Ms. NANDINISAHA | 11380 | AGRICULTURAL ECONOMICS | 19/08/2019 |
| 7. | Ms. GEETHA M L | 11381 | -do- | 19/08/2019 |
| 8. 9. | Ms. MOUSUMIPRIYADARSHINI NEELAKANTAPPA P | 11382 | -do- | 19/08/2019 |
| 9. 10. | ATHARE PRAKASH GORAKSHA | 11383 11384 | -do- | 19/08/2019 |
| 11. | OMPRAKASHNAIK N | 11384 | -do- | 19/08/2019 19/08/2019 |
| 12. | SUBRATAGORAIN | 11386 | -do- | 19/08/2019 |
| 13. | VISHALKUMAR SURESH HOSAMANI | 11387 | -do- | 19/08/2019 |
| 14. | DHARMENDER | 11389 | AGRICULTURAL ENGINEERING | 19/08/2019 |
| 15. | Ms. SILPA MANDAL | 11392 | -do- | 19/08/2019 |
| 16. | Ms. KHUSHBOO GUPTA | 11393 | -do- | 19/08/2019 |
| 17. | Ms. CHINMAYEEPARIDA | 11395 | -do- | 19/08/2019 |
| 18. | NRUSINGHCHARAN PRADHAN | 11399 | -do- | 19/08/2019 |
| 19. | OMKAR GUPTA | 11401 | -do- | 19/08/2019 |
| 20. | AJAY KUSHWAH | 11406 | -do- | 19/08/2019 |
| 21. | RAMINENIHARSHA NAG | 11408 | -do- | 19/08/2019 |
| 22. | SOMNATHGANGARAMYAMAGAR | 11409 | -do- | 19/08/2019 |
| 23. | RATHOD SUNIL KUMAR | 11410 | -do- · | 19/08/2019 |
| 24. | SIDHARTHASEKHAR SWAIN | 11411 | -do- | 19/08/2019 |
| 5. | ACHUGATLAKESAV KUMAR | 11412 | -do- | 19/08/2019 |
| 6. | KUNDAN KUMAR | 11415 | -do- | 19/08/2019 |
| 7. | AMIT KUMAR | 11417 | -do- | 19/08/2019 |
| 8. | Ms. SADHANIKUMARI | 11419 | -do- | 19/08/2019 |
| 9. | MALKHAN SINGH JATAV | 11421 | -do- | 19/08/2019 |
| 0. | SUJAYBASAPPAKADEMANI | 11426 | AGRICULTURAL EXTENSION | 19/08/2019 |
| 1. | Ms. JUHEE AGRAWAL | 11427 | -do- | 19/08/2019 |
| 2. | SURJYAKANTA ROY | 11430 | -do- | 19/08/2019 |
| 3. | KOUSHIK BAG | 11431 | AGRICULTURAL PHYSICS | 19/08/2019 |
| 4. | SONA KUMAR | 11432 | -do- | 19/08/2019 |
| 5. | Ms. PRIYA BHATTACHARYA | 11433 | -do- | 19/08/2019 |
| 6. | ARAVIND K S | 11434 | -do- | 19/08/2019 |
| 7. 8. | Ms. SONIA DEVI KIRTTIRANJANBARAL | 11435 | -do- | 19/08/2019 |
| | HARI SANKARNAYAK | 11445 | AGRONOMY | 19/08/2019 |
| 9. 0. | KAMAL GARG | 11446 | -do- | 19/08/2019 |
| 1. | AKSHAY KUMAR YOGI | 11447 11448 | -do- | 19/08/2019 19/08/2019 |
| 2. | SHYAM C S | 11449 | -do- | 19/08/2019 |
| 3. | Ms. ANKURBHAKAR | 11450 | -do- | 19/08/2019 |
| 1. | CHUNENDRA PRAKASH | 11451 | -do- | 19/08/2019 |
| 5. | SANDEEP GAWDIYA | 11453 | -do- | 19/08/2019 |
| _ | R RUSTUMZHIIPAO | 11454 | -do- | 19/08/2019 |
| | MADAM VIKRAMARJUN | 11455 | -do- | 19/08/2019 |
| | ARKAPRAVA ROY | 11456 | -do- | 19/08/2019 |
| | SACHIN K S | 11457 | -do- | 19/08/2019 |
|). | BANKERLANGKHONGWIR | 11458 | -do- | 19/08/2019 |
| | Ms. ARTIKUMARI | 11459 | BIOCHEMISTRY | 19/08/2019 |
| | NAGESH C R | 11460 | -do- | 19/08/2019 |
| _ | SHAHNOORALAM | 11461 | -do- | 19/08/2019 |
| | DURGASIVENKATABHARGAV | 11462 | -do- | 19/08/2019 |
| | ABHISHEK CHITRANASHI | 11463 | -do- | 19/08/2019 |
| | Ms. SIMARDEEP KAUR | 11464 | -do- | 19/08/2019 |
| _ | MAHESH MAHADEVJADHAV | 11476 | ENTOMOLOGY | 19/08/2019 |
| _ | NIRAJGULERIA | 11477 | -do- | 19/08/2019 |
| | K SRINIVAS | 11478 | -do- | 19/08/2019 |

| 60. | SANTHOSH NAIK | 11479 | -do- | 19/08/2019 |
|------------|-------------------------------------|----------------|---|--------------------------|
| 61. | Ms. JAT MONICA | 11480 | -do- | 19/08/2019 |
| 62. | Ms. DEEKSHA M G | 11481 | -do- | 19/08/2019 |
| 63. | ASHOK KUMAR SAU | 11482 | -do- | 19/08/2019 |
| 64. | G R HITHESH | 11483 | -do- | 19/08/2019 |
| 65. | Ms. KARSHANAL J | 11484 | -do- | 19/08/2019 |
| 66. | SANDEEP KUMAR | 11485 | -do- | 19/08/2019 |
| 67. | ANIL KUMAR S T | 11486 | -do- | 19/08/2019 |
| 68. | DEVENDRA KUMAR MEENA | 11487 | -do- | 19/08/2019 |
| 69. | BASAVARAJ N HADIMANI | 11488 | -do- | 19/08/2019 |
| 70. | Ms. PYNHUNLIN NOLA KHARKRANGDOHLING | 11489 | -do- | 19/08/2019 |
| 71. | Ms. DIVYA POOJA B | 11490 | ENVIRONMENTAL SCIENCES | 19/08/2019 |
| 72. | Ms. SHRAVANISANYAL | 11491 | -do- | 19/08/2019 |
| 73. | Ms. MAMTABISHT | 11492 | -do- | 19/08/2019 |
| 74. | Ms. VINITA | 11493 | -do- | 19/08/2019 |
| 75. | Ms. J GAYATHRI | 11494 | -do- | 19/08/2019 |
| 76. | RAVI KUMAR | 11495 | -do- | 19/08/2019 |
| 77. | KUDIMETHA GANESH KUMAR | 11496 | -do- | 19/08/2019 |
| 78. | DAVENDRA KUMAR | 11497 | FLORICULTURE AND LANDSCAPE ARCHITECTURE | 19/08/2019 |
| 79. | SAGAR C T | 11498 | -do- | 19/08/2019 |
| 80. | ROHITH R | 11499 | -do- | 19/08/2019 |
| 81. | TEJUKUMAR B K | 11501 | -do- | 19/08/2019 |
| 82. | Ms. KOPPALADEEPTHI | 11502 | -do- | 19/08/2019 |
| 83. | Ms. RAYAVARAPUTEJASWI | 11502 | -do- | 19/08/2019 |
| 84. | Ms. MEGHA R | 11508 | FRUIT SCIENCE | 19/08/2019 |
| 85. | SANDEEP | 11509 | -do- | 19/08/2019 |
| 86. | NIKHIL H N | 11511 | -do- | 19/08/2019 |
| 87. | Ms. ANUSHA N M | 11513 | -do- | 19/08/2019 |
| 88. | Ms. JNAPIKA K H | 11513 | -do- | 19/08/2019 |
| 89. | RAKESH KUMAR PANDEY | 11514 | -do- | 19/08/2019 |
| 90. | ASHOK DHAKAD | 11517 | | 19/08/2019 |
| 91. | RAHUL | 11517 | -do- GENETICS AND PLANT BREEDING | 19/08/2019 |
| 92. | HRIIPULOU DUO | 11520 | | 19/08/2019 |
| 93. | NANDAKUMAR S | | -do- | |
| 94. | | 11521 | -do- | 19/08/2019 |
| 95. | Ms. SONU MANOJ GOWDA M | 11522 | -do- | 19/08/2019 |
| | ANUJ KUMAR | 11523 | -do- | 19/08/2019 |
| 96. 97. | MANORANJANSENAPATI | 11524 11525 | -do- | 19/08/2019 19/08/2019 |
| 98. | PRASHANT VASISTH | | -do- | 19/08/2019 |
| 99. | I GOPINATH | 11526 | -do- | |
| 100. | | 11528 | -do- | 19/08/2019 |
| | Ms. MENIARITAKU | 11529 | -do- | 19/08/2019 |
| 101. | MANOJ KUMAR PATEL | 11530 | -do- | 19/08/2019 |
| 102. | Ms. SUNAINA YADAV | 11531 | -do- | 19/08/2019 |
| 103. | Ms. NIKKI KUMARI | 11532 | -do- | 19/08/2019 |
| 104. | SHIVANAGOUDAPATIL N | 11533 | -do- | 19/08/2019 |
| 105. | MANJUNATHA P B | 11534 | -do- | 19/08/2019 |
| 106. | NARAYANA BHAT DEVATE | 11535 | -do- | 19/08/2019 |
| 107. | KAMREKRANTHIKUMAR | 11536 | -do- | 19/08/2019 |
| 108. | HARISHA R | 11537 | -do- | 19/08/2019 |
| 109. | Ms. SAGIA S | 11539 | MICROBIOLOGY | 19/08/2019 |
| 110. | Ms. SNEHA G R | 11540 | -do- | 19/08/2019 |
| 111. | Ms. KRUTIKAPATIL | 11541 | -do- | 19/08/2019 |
| 112. | Ms. ASWINI K | 11542 | -do- | 19/08/2019 |
| 113. | Ms. S.RAMYA | 11543 | -do- | 19/08/2019 |
| 114. | Ms. KOKILA V | 11544 | -do- | 19/08/2019 |
| 115. | DILBAG | 11545 | -do- | 19/08/2019 |
| 116. | KRISHNAYAN PAUL | 11546 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 19/08/2019 |
| 117. | MUHAMMED SHAMNAS V | 11547 | -do- | 19/08/2019 |
| 118. | NARESH KUMAR SAMAL | 11548 | -do- | 19/08/2019 |
| 119. | ZAHERUL ISLAM | 11549 | -do- | 19/08/2019 |
| 120. | DEEPESH KUMAR | 11550 | -do- | 19/08/2019 |
| 121. | DHIVYANANDHAM K | 11551 | -do- | 19/08/2019 |
| 122. | GOPAL | 11552 | -do- | 19/08/2019 |
| 123. | ARTHAKUNDU | 11553 | NEMATOLOGY | 19/08/2019 |
| 124. | MANISH KUMAR | 11555 | -do- | 19/08/2019 |
| 125. | ABHISHEK GOWDA A P | 11556 | -do- | 19/08/2019 |

| 126. | SACHINGANGWAR | 11557 | -do- | 19/08/20 |
|--------------|---------------------------------|----------------|-----------------------------|--------------------|
| 127. | PRAKASH YALLAPASHANKHU | 11558 | -do- | 19/08/20 |
| 128. | Ms. VYSHALI | 11559 | -do- | 19/08/20 |
| 129. | Ms. MONIKA JHA | 11561 | PLANT GENETIC RESOURCES | 19/08/20 |
| 130. | Ms. DEEPIKA D D | 11562 | -do- | 19/08/20 |
| 131. | Ms. RAMYA K R | 11564 | -do- | 19/08/2 |
| 132. | Ms. SHARMILA M | 11565 | -do- | 19/08/2 |
| 133. | SHANKAR M | 11566 | -do- | 19/08/2 |
| 134. | Ms. PANKHURISINGHAL | 11567 | PLANT PATHOLOGY | 19/08/2 |
| 135. | Ms. CHARISHMA K | 11568 | -do- | 19/08/2 |
| 136. | Ms. RASHMI E R | 11569 | -do- | 19/08/2 |
| 137. | ROHITH M | 11570 | -do- | 19/08/2 |
| 138. | GANGARAJ R | 11571 | -do- | 19/08/2 |
| 139. | LHAMDORJEE | 11572 | -do- | 19/08/2 |
| <u>140.</u> | Ms. NISHMITHA K | 11573 | -do- | 19/08/2 |
| 141. | MANIKANDAN K | 11575 | -do- | 19/08/2 |
| 142. | SURYAKANTMANIK | 11576 | -do- | 19/08/20 |
| 143. | Ms. SANGHMITRA ADITYA | 11577 | -do- | 19/08/20 |
| 144: | PEDAPUDILOKESHBABU | 11578 | -do- | 19/08/2 |
| 145. | EMMADIVENU | 11579 | -do- | 19/08/20 |
| 146. | Ms. CHAITHRA M | 11580 | -do- | 19/08/20 |
| 147. | JAGADHESAN B | 11582 | PLANT PHYSIOLOGY | 19/08/2 |
| 148. | Ms. JYOTIPRIYA | 11583 | -do- | 19/08/2 |
| 149. | Ms. PRIYA PAUL | 11584 | -do- | 19/08/2 |
| 150. | Ms. NEHA ANAND | 11585 | -do- | 19/08/2 |
| 151. | SURIYAPRAKASHRAJENDRAN | 11586 | -do- | 19/08/2 |
| 152. | Ms. DEEPTI TIWARI | 11587 | -do- | 19/08/2 |
| 153. | AJIT KUMAR SINGH | 11588 | POST HARVEST TECHNOLOGY | 19/08/2 |
| 154. | HARISH H | 11589 | -do- | 19/08/2 |
| 155. | Ms. SAMPADA SHANKAR | 11590 | -do- | 19/08/2 |
| 156. | RAGHAVENDRA H R | 11592 | -do- | 19/08/2 |
| 157. | VIVEKSAURABH | 11593 | -do- | 19/08/20 |
| 158. | URHESUMITBHAUSAHEB | 11597 | -do- | 19/08/20 |
| 159. | Ms. ARCHANA H R | 11598 | SEED SCIENCE AND TECHNOLOGY | 19/08/20 |
| 160. | AKASH A | 11599 | -do- | 19/08/2 |
| 161. | RAMAPPA S | 11600 | -do- | 19/08/20 |
| 162. | Ms. SHOBHARANI M | 11601 | -do- | 19/08/2 19/08/2 |
| 163. | Ms. SHRUTIKUMARI | 11602 | -do- | 19/08/2 |
| 164. | Ms. ASHWINI VIJAY SAKPAL | 11603 | -do- | 19/08/20 |
| | ARKAPRAVA ROY | 11604 | | |
| 166. | RANABIR CHAKRABORTY | 11605 | -do- | 19/08/2 19/08/2 |
| 167. | ANIT DAS | 11606 | -do- | 19/08/20 |
| 168. | KHURSHIDALAM | 11607 | -do- | 19/08/20 |
| 169. | Ms. MOUMITA ASH | 11608 | -do- | 19/08/2 |
| 170. | MOHAN KUMAR K T | 11610 | -do- | 19/08/2 |
| 171. | Ms. MAMTA | 11611 | -do- | 19/08/2 |
| 172. | SUBHADIP PAUL | 11613 | -do- | 19/08/2 |
| 173. | ABHISHEK DAS Ms. PREMLATAMEENA | 11613 | -do- | 19/08/2 |
| 174. | | | | 19/08/2 |
| 175. 176. | Ms. POOJA TAMUK VISHWANATH | 11615 11616 | -do- | 19/08/2 |
| 176. | THUMMALAGIRISHASHANK REDDY | 11617 | -do- | 19/08/2 |
| 177. | Ms. ANN MARIA JOSEPH | 11618 | -do- | 19/08/2 |
| 178. | DHANANJAY A HONGAL | 11619 | VEGETABLE SCIENCE | 19/08/2 |
| 180. | Ms. SANTHIYA S | 11620 | -do- | 19/08/2 |
| 181. | ANJAN DAS | 11621 | -do- | 19/08/2 |
| 181. | ARUNA T S | 11622 | -do- | 19/08/2 |
| 183. | Ms. JANANI R | 11624 | -do- | 19/08/2 |
| 184. | SHOHAIB SHEIKH AYUB CHAUHAN | 11626 | -do- | 19/08/2 |
| 185. | SHUBHAM SINGH | 11627 | -do- | 19/08/2 |
| | | | -do- | 19/08/2 |
| 186. | Ms. BICHHINNAMAITRI ROUT | 11628 | -do- | 19/08/2 |
| 187. | MANJU SN | 11629 | -do- | 19/08/2 |
| 188. | MANJUNATHA K G Ms. PARAMITA ROY | 11630 11632 | -do- | 19/08/2 |
| 189. | | | | 19/08/2 |
| 190. | RAHUL CHANDEL | 11633 | -do- | |

| 192. | Ms. DIANA DHAYAL | 11636 | -do- | 19/08/2019 |
|------|------------------------|-------|---|------------|
| 193. | CHANDAN T | 11637 | -do- | 19/08/2019 |
| 194. | Ms. KIRUTHIGA B | 11638 | -do- | 19/08/2019 |
| 195. | Mr. KISHOR N | 11639 | -do- | 19/08/2019 |
| 196. | Mr. VED PRAKASH MEENA | 11640 | -do- | 19/08/2019 |
| 197. | Ms. RASHMI YADAV | 11641 | -do- | 19/08/2019 |
| 198. | Ms. SANGEETA | 11642 | -do- | 19/08/2019 |
| 199. | GAVHANEKISHORPANDURANG | 11648 | AGRICULTURAL ENGINEERING | 29/08/2019 |
| 200. | EDULAUDAYKUMAR | 11651 | ENTOMOLOGY | 02/09/2019 |
| 201. | CHETHAN KUMAR V | 11652 | GENETICS AND PLANT BREEDING | 30/08/2019 |
| 202. | Ms. CHANDANA BS | 11653 | -do- | 03/09/2019 |
| 203. | RAKTIMMITRA | 11654 | PLANT PHYSIOLOGY | 30/08/2019 |
| 204. | Ms. NIDHILUTHRA | 11656 | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 30/08/2019 |
| 205. | MADHUSUDAN B S | 11657 | AGRICULTURAL ENGINEERING | 09/09/2019 |



Post Graduate School Indian Agricultural Research Institute New Delhi-110012



Application for the Best Extension Scientist Award for the biennial 2019-2020

| Name of the Institute forwa | rding applic | ation: | | Photograph |
|--|--|-------------|----------------------------|--------------------------|
| 1. Name of the candidate: | | | | |
| a) Father's Name b) Mother's name | First | Middle | Surname | |
| 2. Designation: | | | | |
| 3. Address: | | | | |
| 4. Contacts: Office 5. Date of Birth: | TELEPHO E-MAIL Res.: TELEPHO FAX E-MAIL | ONE | FAX | |
| (Please provide the proof) 6. (a) Academic Qualificatio | Day | Mon | th Ye | ear |
| | | | | |
| Degree/Diploma | Year | Major field | University/ Institution | Division/ Distinction |
| Graduation | | | | |
| Masters | | | | |
| Ph.D. | | | | |
| Any other degree/diploma | | | | |
| Post Doctoral Experience | | | | |

(b) Training in India and/or Abroad (In the area relevant to the award)

| Training | Institution/Country | Sponsored by | Duration | Subject |
|----------|---------------------|--------------|----------|---------|
| | | | | |
| | | | | |

7. Employment status

| Designation | Pay scale | Nature of work | Institute (Organization) | Period | |
|-------------|-----------|----------------|--------------------------|---------|-----|
| | (Rs.) | | | (From - | To) |
| | | | | | |
| | | 4 | | | |
| | · | | | | |
| | | | | | |
| | | | | | |

8. Achievements

(a) Research and extension

| SI. No. | Item* | Details in quantifiable and verifiable terms (Whether applicant is a Developer, Codeveloper or Associate) |
|------------|--|--|
| 1. | New extension models/approaches developed | |
| 2. | Technology refined/package of practice developed and transferred to the farmers with the extent of coverage | |
| 3. | New/concepts/methodologies/tools and techniques developed | |
| 4. | Development of Value Chain/Model Village/Seed Village/Custom Hiring Centres/Climate Smart Village/Nutri-Smart Village/Contract Farming Arrangement etc., | |
| 5. | Software/Apps/Web resources/educational videos developed | |
| 6. | Mobilized farmers for group action (Formation of FIG/SHG/FPO/Growers Association/Community seed banks) | |
| 7. | Popularization of technologies and success stories | |

^{*}Documentary evidence should be enclosed for the product/technology, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

(b) Teaching

| S.No. | Item | Detail | Year |
|-------|--|--------|------|
| 1. | Courses taught and number of classes taken in each course | | |
| 2. | M.Sc./Ph.D. Students Guided as Chairman | | |
| 3. | New concept introduced in course/Design of innovative course curriculum/New Course introduced or course(s) revised | | |
| 4. | Success of students (in terms of their recognition for awards) | | |
| 5. | Books/Manuals/Bulletins/ Quality reference material | | |
| 6. | Organization/participation in Training/Summer or Winter school | | |

| (c) Please state the most significant achievements in bullet form (Not more than 300 words) | | | | | |
|---|---|--|--|--|--|
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9. Capacity building

| Type of program | Name of the program organized | Sponsoring agency | Year | Period |
|-----------------|-------------------------------|-------------------|------|--------|
| | , | |) | |
| | | | | |
| | | | | |

10. (a) List 20 most important & highest NAAS rated publications in chronological order (attach one set of reprints)

| S.No. | Name of authors | Year of publication | Title of paper | Journal, Volume, issue & page Nos. | NAAS Journal ID and NAAS Score (2019) | Number of citations based on ISI Science Citation Index |
|-------|-----------------|---------------------|-------------------|--|--|---|
| 1 | | | | | | |
| 2 | | | | | | |

| 3 | | | |
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| 4 | | | |
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| 6 | | | |
| 7 | | - | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

10 (b). Other publications

| Categories of publications | Title of publication | Name of authors | First Author (Yes/No) | Year and Number of pages | Publisher |
|---|----------------------|-----------------|-----------------------------|--------------------------------|-----------|
| Practical/ Training Manual/ Books/ Monographs | | | | | |
| Book chapters/ Policy papers/ Economic reviews | | | | | |
| Books authored | | | | | |
| Books edited | | | | | |
| Popular Articles/Short Communications | | | | | |
| Extension Bulletins | | | | | |
| IT Material for Technology Transfer/Human Resource Development | | | | | |

11. Awards and Honors received

| S. No. | Name of the Award/ Honor | Year | National/ International | Academy/Institutional /Professional Society |
|--------|--------------------------|------|----------------------------|---|
| 1 | | | | |
| 2 | | | | |

12. Special attainments

| Special attainment | | | | |
|--------------------------------|-------------------------------|------------------------------------|--|--|
| Category of Special Attainment | Details of Special Attainment | Additional details/ Information | | |
| | | | | |

13. Please mention if this work has been submitted/recognized for any other award.

14. Any other information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Place:

Date:

(Signature of the applicant)

"Certified that the information given by the candidate in this application has been verified and fully authenticated and that there are no disciplinary action or proceedings pending or contemplated against the candidate.

Recommendation of the Head of the Institution

(Signature)

& Seal

Enclosures:

- 1. Application in original, duly forwarded and complete in all respect (5 copies)
- 2. Reprints of one set of papers listed at Sl. No. 10(a) of application
- 3. Documentary proof for all the claims made in the application

Guidelines governing "Best Extension Scientist Award" for outstanding contribution in Agricultural Extension

1. Name of the Award

The "Best Extension Scientist Award" for outstanding contribution in Agricultural Extension

2. Nature of the Award

The award will carry a sum of Rs. 50,000 and a Certificate for the outstanding contribution in Agricultural Extension.

3. Source of fund: Revenue receipt head or unified budget of IARI

4. Objective of the Award

To motivate the Agricultural Scientists by recognizing their outstanding contributions in Agricultural Extension in India.

The award shall be made for either fundamental or applied research as well as outreach and capacity building in agricultural extension leading to results of practical values and empowerment of farming community.

5. Periodicity of the Award

The award shall be made biennium, commencing from 2019-2020.

6. Eligibility for the Award

Applicant should be an active scientist up to the age of 62 years with a standing of 20 years outstanding contributions in the area of agricultural extension while working in India.

The award shall be made for notable research both fundamental and applied as well as outreach and capacity building in agricultural extension as revealed in papers, articles, books, monographs, manuals, modules, e-modules, e-publications; development of concepts, frameworks, tools and techniques; development of extension models and approaches; development of model villages, climate smart villages, seed villages, seed banks, nutri-smart village, etc; development and mobilization of farmers' organizations; patents or any other published account of outstanding research work, education and extension activities.

However, the contributions or achievements which have received any other award, shall not be eligible for consideration of this Award.

7. Administration of the Award

The Institute shall have the sole right of selection of recipients of the award and of the formulation of rules governing such selection from time to time.

8. Screening Committee

Dean and Joint Director (Edn.) will constitute a Screening Committee consisting of five (5) members for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least four (4) members including Chair &Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairman for the Judging Committee and its members. Dean and Joint Director (Edn.), IARI will be the Member- Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairman & Member-Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of the committee and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall be to recommend the name of the recipient for the award in accordance with procedure laid down herein after for approval of the Director, IARI.

In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

10. Procedures for selection of recipient

Applications are invited from Agricultural Scientists for the above award duly forwarded through concerned authorities. Each such application, which shall be in the prescribed form accompanied with detailed statement of the work and attainments of the candidate with documentary evidences, should be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules.

Allocation of marks for scoring applications for the "Best Extension Scientist Award" for the biennial 2019-2020

| S.N. | Criteria | Marks | Weightage |
|------|--|-------|-----------|
| 1. | Research achievements | 40 | 80% |
| 2. | Teaching innovations and achievements | 10 |] |
| 3. | Capacity building of farmers and extension professionals | 10 | |
| 4. | Research Publications | 20 | |
| 5. | Books, manuals, bulletins, quality reference material | 10 | |
| 6. | Awards and Honors/Recognition | 10 | |
| 7. | Total marks | 100 | |
| | Weightage for Judging Committee | | 20% |

1. Research Achievements

(Maximum marks - 40)

- New extension models developed and recognized at national level/ developed technologies with impact on largescale (State/National level)
 5 marks each (Maximum 20)
- Participatory Technology Development (PTD), Technology refined/package of practice developed and transferred to the farmers with large extent of coverage/Large scale success stories - 2 mark each
- New concepts/methodologies/tools and techniques developed
- 1 mark each
- Success stories with impact on a large scale (State/National level).
- 2 marks each
- Development of Value Chain/Model Village/Seed Village/Custom Hiring Centres/Climate Smart
 Village/Nutri-Smart Village/Contract Farming Arrangement etc.,
 3 marks each
- Mobilized farmers for group action (formation of FIG/SHG/FPO/Growers Association/Community
 Seed Bank)
- Software/Apps/Web resources developed 2 marks each Note: Developer (one) shall be awarded 100% marks, Co-developers (max two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for each of the product/technology claimed along with the extent of adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

2. Teaching innovations and achievements 10)

(Maximum marks –

• Must have taught 3 courses with a total 8 credit hour load during each academic year - 0.5 mark for each year of teaching with a cap of maximum 5 marks

- Innovative teaching methods applied Development of e-course, Modules, Teaching
 Model, Case Studies 1 mark each with a cap of maximum 3 marks
- New courses introduced 1 mark each with a cap of maximum 2 marks (Documentary evidence should be enclosed for each of the claim.)

3. Capacity Building of farmers and extension professionals (Maximum marks – 10)

- Organized CAFT/Summer/Winter School/Other training programmes of minimum 21 days' duration
- Organised training courses with duration from 5 to less than 21 days for farmers /extension professionals
 Note: Course Director will get 100% weightage and Coordinators will get 75% marks

(Documentary evidence should be enclosed for each of the claim.)

4. Research Publications

(Maximum marks - 20)

Research publications will be given marks according to the NAAS score of Journals:

- Best twenty research papers (An applicant must identify 20 best research papers published in refereed journals for allocation of score according to current NAAS journal rating (latest). The sum total of NAAS score for 20 publications will be multiplied by 0.2 to obtain Marks).
- First author and corresponding author will get full marks in a publication and rest of the authors 75% marks.

(Documentary evidence should be enclosed for each of the claim.)

5. Books, training manuals, extension bulletins, quality reference material (Maximum marks – 10)

- Books/Monographs with ISBN number of minimum 100 pages published Authored/ Edited. Award 1 Mark for each publication, if first author/editor or award 0.75 Mark for other authors with a cap of maximum 5 marks
- Book Chapters and Training Manuals -0.5 Mark for each publication with a cap of maximum 3 marks.
- Popular articles/Extension folders 0.25 Mark for each publication with a cap of maximum 5 marks
- Policy Papers/Policy Briefs 0.5 Mark for each publication with a cap of maximum 2 marks.

(Documentary evidence should be enclosed for each of the claim.)

6. Awards and Honors/Recognitions (Maximum marks - 10)

- Awards by ICAR, CSIR, DST, DBT, NRDC, Government Ministries etc. 2 marks each
- National Level Institutional Awards
 2 marks each
- National and International level Professional Society and Academy (not covered above)
 Awards/Recognition
 1 each limited to maximum 5 marks
- Recognition such as Member of Taskforce/Policy making bodies at Institute/Zonal/National level
 1 mark each limited to maximum 2 marks
- Recognition such as Member of IRC/RAC/IMC/BOM/Extension Council/Executive
 Council etc. at Institute/Zonal/National level 0.5 mark each limited to maximum 1 mark
- Office bearer (President/Secretary/Joint Secretary/Treasurer) of National/International professional societies -0.5 marks each limited to maximum 1 mark
- Chief editor/Editor of NAAS rated Journals 0.5 marks each limited to maximum 1

(Documentary evidence should be enclosed for each of the claim.)

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. PGS-I/1-413/AC/2020

Dated the August 11, 2020

ENDORSEMENT

A copy of the proceedings of the 413th meeting of the Academic Council held on 27th July, 2020 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council and concerned Officers (By name)_____
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. School Hostel Office
- 5. Sr. Admn. Officer, IMC (For members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PA to Registrar/PS to Comptroller
- 7. Technical Assistants, P G School (IT Cell/Stats. Cell)
- 8. Assistant Administrative Officer, Post Graduate School-II
- 9. Concerned Dealing Assistants, PGS-I

(Ratnesh Kumar)

Registrar

PROCEEDINGS OF THE 413th MEETING OF THE ACADEMIC COUNCIL HELD ONLINE ON JULY 27, 2020 AT 11.00 AM at IARI, NEW DELHI - 110012

The following members attended the Online meeting:

| 1. | Dr. A.K. Singh, Director, IARI | Chairman |
|-----|--|------------------|
| 2. | Dr. (Ms.) Rashmi Aggarwal, Dean & JD (Edn.) (Additional Charge) | Vice Chairman |
| 3. | Dr. R.C. Agrawal, DDG (Edn.), ICAR (Additional Charge) | Member |
| 4. | Dr. H.S. Gupta, Former DG, BISA & Director, IARI | Member |
| 5. | Dr. S.N. Puri, Former VC, CAU, Pune | Member |
| 6. | Dr. P. Das, Former DDG (Ag. Extension), ICAR, New Delhi | Member |
| 7. | Dr. A.K. Sikka, Former DDG (NRM), IWMI, NASC Complex, Pusa | Member |
| | Dr. A.K. Singh, Joint Director (Res.) (Additional charge), IARI | Member |
| 9. | Dr. V.K. Singh, Joint Director (Extn.) (Additional Charge) | Member |
| 10. | Dr. N.K. Singh, Director, NIPB (Additional Charge) | Member |
| | Dr. Tauqueer Ahmed, Director, IASRI (Additional Charge) | Member |
| | Dr. M.R. Dinesh, Director, IIHR, Bengaluru | Member |
| | Dr. C.R. Mehta, Director, CIAE, Bhopal | Member |
| | Dr. K.M. Manjaiah, Associate Dean, PG School | Member |
| | Dr.(Ms.) Neera Singh, Professor, Agricultural Chemicals | Member |
| | Dr.(Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| | Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| | Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| | Dr. V.K. Sehgal, Professor, Agricultural Physics | Member |
| | Dr.(Ms.) Seema Jaggi, Professor, Agricultural Statistics | Member |
| | Dr. T.K. Das, Professor, Agronomy | Member |
| | Dr. Anil Dahuja, Professor, Biochemistry | Member |
| | Dr. Anil Rai, Professor, Bioinformatics | Member |
| | Dr. Sudeep Marwaha, Professor, Computer Application | Member |
| | Dr. Subhas Chander, Professor, Entomolgy | Member |
| | Dr. Soora Naresh Kumar, Professor, Environmental Sciences | Member |
| | Dr. K.P. Singh, Professor, Floriculture and Landscape Architecture | Member |
| | Dr. O.P. Awasthi, Professor, Fruit Science | Member |
| | Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| | Dr.(Mrs.) Radha Prasanna, Professor, Microbiology | Member |
| | Dr. Debasis Pattanayak, Professor, MBB | Member |
| | Dr. M.R. Khan, Professor, Nematology | Member |
| | Dr.(Ms.) Veena Gupta, Professor, PGR | Member |
| | Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| | Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| | Dr. S.K. Jha, Professor, Post Harvest Technology | Member |
| | Dr. S.K. Chakrabarty, Professor, Seed Science & Technology | Member |
| | Dr. S.P. Datta, Professor, SS&AC | Member |
| | Dr. T.K. Behera, Professor, Vegetable Science | Member |
| | Shri. V.R. Srinivasan, Comptroller | Member |
| | Dr. A. Nagaraja, Senior Scientist, Fruit Science | Member |
| | and Faculty Representative to the Academic Council | |
| | Dr. Renu Pandey, Principal Scientist, Plant Physiology | Member |
| | and Faculty Representative to the Academic Council | |
| | Mr. Deep Chand, Incharge, IARI Library | Member |
| | Mr. Jagmohan Singh, President, PGSSU | Member |
| | Mr. Rahul Kumar, Students' Representative to the AC | Member |
| | Mr. Ratnesh Kumar, Registrar & Joint Director (Admn.) | Member Secretary |
| | , | |

The Directors of the following three ICAR Institute attended as Special Invitees:

- 1. Dr. Himanshu Pathak, Director, NIASM, Baramati
- 2. Dr. Arunava Pattanayak, Director, IIAB, Ranchi
- 3. Dr. P.K. Ghosh, Director, NIBSM, Raipur

Leave of absence was sought and granted to the following members:

- 1. Dr. Kuldeep Singh, Director, NBPGR, New Delhi
- 2. Dr. Man Singh, Project Director, WTC (Acting) & Professor, WST
- 3. Dr. Anil Sirohi, MOHR, PG Hostels

Dr. (Ms.) Rashmi Aggarwal, Dean and Joint Director (Edn.) extended a formal welcome to Dr. A.K. Singh, Director, IARI and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members and special invitees present in the meeting. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time. He also placed on record the valuable contributions of the outgoing members of the Academic Council in strengthening the PG education at IARI.

New members

- 1. Dr. V.K. Singh, Joint Director (Extn.) (Additional Charge)
- 2. Dr. Anil Rai, Professor, Bioinfomatics, IARI
- 3. Dr. S.K. Chakrabarty, Professor, Seed Science & Technology, IARI
- 4. Mr. Deep Chand, Incharge, IARI Library

Outgoing Members:

- 1. Dr. J.P. Sharma, Joint Director (Extn.), IARI
- 2. Dr. A.R. Rao, Professor, Bioinfomatics, IARI
- 3. Dr. S.K. Jain, Professor, Seed Science & Technology, IARI
- 4. Mrs. Rajshree Anand, Incharge, IARI Library

Dr. A.K Singh, the Director and Chairman apprised the Academic Council about (i) Dr. Rattan Lal, IARI Alumnus winning the World Food Prize (2020), (ii) constitution of Dr. P.L. Gautam Committee for strengthening of IARI as Global University, (iii) special lectures arranged, (iv) Celebration of Foundation Day of ICAR-IARI Jharkhand; Inauguration of Guesthouse and dedicating of Administrative and Academic block in the name of Pandit Deen Dayal Upadhaya, (v) achievements of IARI Faculty and students by winning 15 ICAR Awards and (vi) initiation of NAHEP-CAST Webinar Series for the benefit of students and faculty of IARI and all other AUs.

Thereafter, the following agenda items were taken up for consideration:

| Agenda | Description of Agenda Items |
|----------|---|
| Item No. | |
| 413.1 | Confirmation of the proceedings of the 412 th meeting of the Academic Council held |
| | on February 13, 2020 |
| 413.2 | Action Taken Report on the Proceedings of the 412th meeting of the Academic |
| | Council held on February 13, 2020 |
| 413.3 | Consideration of the recommendations of the Standing Committee on Faculty & |
| | Discipline made in its meeting held on July 18, 2020 |
| 413.4 | Consideration of the recommendations of the Standing Committee on Courses |
| | Curricula and Academic Affairs made in its meeting held on July 20, 2020 |
| 413.5 | Online Academic activities implemented during Covid-19 pandemic |
| 413.6 | Finalization of number of M.Sc. seats at IARI-Jharkhand for the academic session |

| | 2020-21 |
|-------|--|
| 413.7 | Finalization of number of M.Sc. seats at NIASM, NIBSM and IIAB for the |
| | academic session 2020-21 |
| 413.8 | The proposal on the nomination of two distinguished IARI alumni and world Food |
| | Prize winners viz., Dr. Sanjaya Rajaram and Dr. Rattan Lal for the Conformation of |
| | the degree of Doctorate of Science (Honoris causa). |
| 413.9 | Any other item with the permission of the Chair |

Agenda Item No. 413.1: Confirmation of the Proceedings of the 412th meeting of the Academic Council held on 13.2.2020

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 412th meeting. Since no comment was there, the proceedings of the previous meeting was confirmed by the house.

Agenda Item No. 413.2: Report on action taken on the proceedings of the 412th meeting of the Academic Council held on 13.2. 2020

Dean and Joint Director (Education) presented the action taken report which was approved by the house. On the issue of switching over from Trimester to Semester system at IARI, New Delhi, the Academic Council unanimously approved the change for its implementation from the current Academic Session 2020-21.

Agenda Item No. 413.3 Consideration of the recommendations of the Standing Committee on Faculty and Discipline made in its meeting held on 18.7.2020

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

413.3.1 Induction of the following 18 Scientists into PG Faculty in their respective Disciplines at IARI (9) and for IARI PG outreach Programme at CIAE (3) and IIHR (6) as they met the qualifications/eligibility criteria as per the prescribed guidelines.

| S. No. | Name & Designation | Discipline | |
|--------|--|---------------------------------|--|
| - | IARI, No | ew Delhi | |
| 1 | Dr. Rajkumar Dhakar, Scientist (SS) | Agricultural Physics | |
| 2 | Dr. Aditya K.S., Scientist | Agricultural Economics | |
| 3 | Dr. Harish Kumar H.V, Scientist | -do- | |
| 4 | Dr. Dipaka Ranjana Sena, Principal Scientist | Agricultural Engineering (SWCE) | |
| 5 | Mr. Anooj S, Scientist | Entomology | |
| 6 | Dr. Devaramane Raghavendra, Scientist (SS) | -do- | |
| 7 | Dr. Manimaran B, Scientist | Nematology | |
| 8 | Dr. Gore Padmavati Ganpat, Scientist | Plant Genetic Resources | |
| 9 | Dr. Selvakumar R, Scientist | Vegetable Science | |
| | IARI PG outreach Programme at CIAE, Bhopal | | |
| 1 | Dr. Sawant Chetan Kumar P, Scientist | Agricultural Engineering (FPE) | |
| 2 | Dr. M. Muthamil Selvan, Senior Scientist | -do- | |

| 3 | Dr. Ravindra Naik, Principal Scientist | Agricultural Engineering (APS) | |
|---|---|---------------------------------------|--|
| | IARI PG outreach Programme at IIHR, Bengaluru | | |
| 1 | Dr. R. Senthil Kumar, Principal Scientist | Fruit Science | |
| 2 | Dr. Sridhar Gutam, Senior Scientist | Plant Physiology | |
| 3 | Dr. Rajendiran. S, Scientist | Soil Science & Agricultural Chemistry | |
| 4 | Dr. Ponnam Naresh, Scientist | Vegetable Science | |
| 5 | Dr. Meenu Kumari, Scientist | -do- | |
| 6 | Dr. V. Sankar, Principal Scientist | -do- | |

413.3.2 Recognition of the following 25 faculty members of IARI as Research guides for M.Sc. guidance in their respective Disciplines as they met the prescribed requirements/eligibility criteria for becoming the research guides:

| S. No. | Name & Designation | Discipline |
|--------|---|--------------------------------|
| 1 | Dr. Prashant Kaushik, Scientist | Agricultural Chemicals |
| 2 | Dr. Abhishek Mandal, Scientist | -do- |
| 3 | Dr. Suman Manna, Scientist | -do- |
| 4 | Dr. Neethu Narayanan, Scientist | -do- |
| 5 | Dr. Akriti Sharma, Scientist | Agricultural Economics |
| 6 | Dr. S.K. Srivastava, Scientist | -do- |
| 7 | Dr. Sukanya Barua, Scientist | Agricultural Extension |
| 8 | Dr. Arun Kumar T.V., Scientist | Agricultural Engineering (APS) |
| 9 | Dr. G.A. Rajanna, Scientist | Agronomy |
| 10 | Dr. Sneh Narwal, Principal Scientist | Biochemistry |
| 11 | Dr. Soumen Pal, Scientist | Computer Application |
| 12 | Dr. Muraleedhar S. Aski, Scientist (SS) | Genetics and Plant Breeding |
| 13 | Dr. M.G. Mallikarjuna, Scientist | -do- |
| 14 | Dr. Niranjana M, Scientist | -do- |
| 15 | Dr. Haritha Bollinedi, Scientist | -do- |
| 16 | Dr. Ganapati Mukri, Scientist | -do- |
| 17 | Dr. Rama Prashaat G, Scientist | -do- |
| 18 | Dr. Kiran B. Gaikwad, Scientist(SS) | -do- |
| 19 | Dr. Ranjith Kumar Ellur, Scientist | -do- |
| 20 | Dr. Pranita Jaiswal, Principal Scientist | Microbiology |
| 21 | Dr. Subrata Nath Bhowmik, Principal Scientist | -do- |
| 22 | Dr. D.P. Semwal, Principal Scientist | Plant Genetic Resources |
| 23 | Dr. Amrita Das, Scientist | Plant Pathology |
| 24 | Dr. Basavaraj, Scientist | -do- |
| 25 | Dr. Zakir Hussain, Principal Scientist | Vegetable Science |

413.3.3 Non-Recongniton of Dr. Indu Chopra, Scientist (SS) in the Discipline of Agricultural Chemicals as she did not meet the prescribed requirement of three research publications (short of one research paper).

413.3.4 Recongnition of following Three (3) Faculty members for IARI PG outreach programme at CIAE-Bhopal & Six (7) Faculty Members at IIHR-Bengaluru as Research Guides for Ph.D. guidance as a special case with one time relaxation (but not to be cited in future) due to paucity of Research Guides at these Institutes to run the Ph.D. programme.

| S. No. | Name & Designation | Discipline | Recommended for Research Guide with one time Relaxations |
|-----------|---|--|---|
| 71 | IARI PG outreach Programme at CIAE, Bhopal | | |
| 1 | Dr. Vinod Kumar Bhargav Principal Scientist | Agricultural Engineering (FMP) | Relaxation of 2 M.Tech. students guidance |
| 2 | Dr. Chandra Kant Saxena Senior Scientist | Agricultural Engineering (SWCE) | -do- |
| 3 | Dr. Ranjay Kumar Singh Principal Scientist | Agricultural Engineering (SWCE) | Relaxation of one year teaching & 2 M.Tech. students guidance |
| | IARI | PG outreach Programme | at IIHR, Bengaluru |
| 1 | Dr. H.S. Oberoi Principal Scientist, Microbiology | Microbiology (Sought Research guide in PHT) | Guided one Ph.D. student and approved for the Discipline of PHT as per the guidelines of 410 th Meeting of Academic Council held on 25.7.2019 |
| 2 | Dr. Ranjitha.K Senior Scientist, Microbiology | Microbiology (Sought Research guide in PHT) | Relaxation of One M.Sc. student guidance. Approved for the Discipline of PHT as per the guidelines of 410 th Meeting of Academic Council held on 25.7.2019 |
| 3 | Dr. T. Usha Bharathi Scientist | Floriculture and Landscape Architecture | Guided 2 M.Sc. studensts. Relaxation of 2 year teaching |
| 4 | Dr. G.R.Smitha Scientist | -do- | Guided 2 M.Sc. studensts. Relaxation of 2 year teaching |
| 5 | Dr. Tejaswani Prakash Principal Scientist | Genetics (Sought Research guide in Floriculture and Landscape Architecture Discipline) | Approved the change of Discipline from Genetics to Floriculture & Landscape Architecture as per the guidelines of 410 th meeting of Academic Council held on 25.7.2019 |
| 6 | Dr. Gobindacharya, Principal Scientist | Vegetable Science | Approved for Research Guide as he has already guided one M.Sc. and One Ph.D. student |
| 7 | Dr. S. Shankara Hebbar, Principal Scientist | Agronomy (Sought Research guide in Vegetable Science Discipline) | Keeping in view of his vast experience in Vegetable Science, the Academic Council approved his recognition in the Discipline of Vegetable Sceince |

413.3.5 Non-Recongnition of Dr. Sandip Mandal, Scientist as Research Guide as he did not meet the prescribed requirement of eligibility criteria for becoming Research Guide.

| S. No. | Name & Designation | Discipline | Institute | Reason for declining |
|-----------|--------------------|--------------|-----------|-----------------------------------|
| 1 | Dr. Sandip Mandal, | Agricultural | CIAE | Short of four year teaching and 2 |
| | Scientist | Engineering | | M.Tech. student guidance |
| | ۰ | (FMP) | | |

413.3.6 Induction of the following Three (3) Scientists posted at IARI-Jharkhand into PG Faculty in their respective Disciplines, as they met the qualifications/eligibility criteria as per the prescribed guidelines.

| S. | Name & Designation | Discipline |
|-----|------------------------------|---|
| No. | | |
| 1 | Mr. Monu Kumar, Scientist | Genetics & Plant Breeding |
| 2 | Mr. Santosh Kumar, Scientist | Genetics & Plant Breeding |
| 3 | Ms. Preeti Singh, Scientist | Soil Science and Agricultural Chemistry |

413.3.7a Recongnition of the following Six (6) Scientists posted at IARI-Jharkhand, Nine (9) Scientists posted at ICAR-Research Complex for Eastern Region Farming System Research Centre for Hill and Plateau Region (ICAR RCER FSRCHPR), Ranchi and Three (3) Scientists posted at Central Rainfed Upland Rice Research Station, ICAR-National Rice Research Institute (CRRURRS, NRRI), Hazaribag as Faculty Member and also as Research Guide for M.Sc. guidance as a special case with one time relaxation (but not to be cited in future) to run the programme at IARI-Jharkhand.

| S. No. | Name & Designation | Discipline | Recommended for Research Guide with one time relaxation |
|------------------|--|--|---|
| | S | cientists posted at IARI-J | |
| 1 | Dr. Priya Ranjan Kumar | Seed Science and | He was a Faculty Member at IARI |
| 1 | Principal Scientist | Technology | and taught courses at IARI |
| 2 | Dr. Manoj Chaudhary | Soil Science and | He had taught courses at RLBCAU, |
| 2 | Scientist (Senior Scale) | Agricultural | Jhansi |
| | Scientist (Schor Scare) | Chemistry | Juansi |
| 3 | Dr. Dipak Kumar Gupta | Environmental | Relaxation of 3 years teaching |
| | Scientist | Science | |
| 4 | Dr. Krishna Prakash | Spices Plantation | do |
| | Scientist | Medicinal and | |
| | - | Aromatic Plants | |
| | | (Horticulture) | |
| 5 | Dr Himani Priya | Agricultural | do |
| | Scientist | Microbiology | |
| 6 | Dr. Anima Mahato | Genetics & Plant | do |
| | Scientist | Breeding | |
| | | | System Research Centre for Hill and |
| 1 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh | | Relaxation of one year teaching |
| | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head | Vegetable Science | Relaxation of one year teaching |
| 1 2 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan | FSRCHPR), Ranchi | |
| | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head | Vegetable Science | Relaxation of one year teaching |
| | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan | Vegetable Science | Relaxation of one year teaching |
| 2 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist | FSRCHPR), Ranchi Vegetable Science -do- | Relaxation of one year teachingdo— |
| 2 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das | FSRCHPR), Ranchi Vegetable Science -do- | Relaxation of one year teachingdo— |
| 2 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science | Relaxation of one year teachingdodo- |
| 2 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik | FSRCHPR), Ranchi Vegetable Science -do- Horticulture | Relaxation of one year teachingdodo |
| 3 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science | Relaxation of one year teachingdodo- |
| 3 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- | Relaxation of one year teachingdo—dododo— |
| 3 4 5 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- Agricultural | Relaxation of one year teachingdodo- |
| 3 4 5 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist Dr. Santosh S. Mali | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- | Relaxation of one year teachingdo—dododo— |
| 2 3 4 5 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist Dr. Santosh S. Mali Senior Scientist | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- Agricultural Engineering Genetics & Plant | Relaxation of one year teaching do do do- do- |
| 2 3 4 5 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist Dr. Santosh S. Mali Senior Scientist Dr. P. Bhavana Senior Scientist | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- Agricultural Engineering Genetics & Plant Breeding | Relaxation of one year teaching do do do- do- |
| 2 3 4 5 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist Dr. Santosh S. Mali Senior Scientist Dr. P. Bhavana | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- Agricultural Engineering Genetics & Plant | Relaxation of one year teaching do do do- do- do do |
| 2 3 4 5 7 | Plateau Region (ICAR RCER) Dr. Arun Kumar Singh Head Dr. Rabi Sankar Pan Principal Scientist Dr. B.K. Jha Principal Scientist Dr. Bikash Das Principal Scientist Dr. Sushanta Kumar Naik Principal Scientist Dr. Santosh S. Mali Senior Scientist Dr. P. Bhavana Senior Scientist Dr. Jaipal Singh Choudhary | FSRCHPR), Ranchi Vegetable Science -do- Horticulture Fruit Science -do- Agricultural Engineering Genetics & Plant Breeding | Relaxation of one year teaching do do do- do do |

| | CRRURRS, NRRI, Hazaribag | | | | |
|---|--|---|--------------------------------|--|--|
| 1 | Dr. Somnath Roy Scientist | Genetics & Plant Breeding | Relaxation of 3 years teaching | | |
| 2 | Dr. Amrita Banerjee Scientist | Plant Pathology | -do- | | |
| 3 | Dr. Bibhash Chandra Verma Scientist | Soil Science and Agricultural Chemistry | -do- | | |

413.3.7b The following two Scientistis who are eligible to be inducted as Faculty Members but Not-Recommended for Research Guidance as they did not meet the prescribed research paper requirements for becoming the Research Guide.

| S. No. | Name & Designation | Discipline | Institute | Reason for declining |
|-----------|------------------------|--------------|-----------------|-----------------------|
| 1 | Dr. V.K. Yadav | Agricultural | ICAR RCER | Short of two Research |
| | Scientist | Extension | FSRCHPR, Ranchi | Papers |
| 2 | Dr. Pankaj Kumar Sinha | Agricultural | IARI-Jharkhand | Short of Two research |
| | Scientist | Extension | | papers |

413.3.8 Induction of the following Scientists of NIASM- Baramati (3), NIBSM- Raipur (6) and IIAB- Ranchi (5) into PG Faculty in their respective Disciplines as they met the qualifications/eligibility criteria as per prescribed guidelines.:

| S. | Name & Designation | Discipline |
|-----|--|--|
| No. | | |
| | NIASM, Baramati | |
| 1 | Dr. Vanita N.S., Scientist SS | Plant Pathology |
| 2 | Dr. Aliza Pradhan, Scientist | Environmental Sciences |
| 3 | Dr. Boraiah K.M., Scientist | Genetics & Plant Breeding |
| | NIBSM, Raipur | |
| 1 | Dr. Lalit Laxman Kharbikar, Scientist | Molecular Biology and Biotechnology |
| 2 | Dr. Sridhar Jandrajupalli, Scientist | Entomology |
| 3 | Dr. Mallikarjuna J, Scientist | Entomology |
| 4 | Dr. Lata Jain, Sr. Scientist, Veterinary Microbiology | Other faculty |
| 5 | Dr. Ashish Marathe, Scientist | Biochemistry |
| 6 | Dr. P. Mooventhan, Scientist | Agricultural Extension |
| | IIAB, Ranchi | |
| 1 | Mr. Shambhu Krishan Lal, Scientist | Molecular Biology and Biotechnology |
| 2 | Mr. Kishore Uttam Rao T., Scientist | -do |
| 3 | Dr. Madan Kumar, Scientist | Plant Physiology |
| 4 | Dr. Soumen Naskar, Sr. Scientist Animal Genetics & Breeding | Other faculty |
| 5 | Dr. Sanjay Kumar Gupta, Scientist (SS) Fisheries Resource Management | Other faculty |

413.3.9 Recongnition of the following scientists of NIASM- Baramati (1), NIBSM- Raipur (5) and IIAB- Ranchi (4) for recognition as Faculty Member and also as Research Guide for both M.Sc and Ph.D. guidance in their respective Disciplines as they met the prescribed requirements.

| S. No. | Name & Designation | Discipline | | | |
|-----------|---|-------------------------------------|--|--|--|
| 140. | NIASM, Baramati | | | | |
| 1 | Dr. Himanshu Pathak, Director | Environmental Sciences | | | |
| | NIBSM, Raipur | | | | |
| 1 | Dr. P.K.Ghosh, Director | Agronomy | | | |
| 2 | Dr. Pankaj Kaushal, Joint Director (Research) | Genetics and Plant Breeding | | | |
| 3 | Dr. Anil Dixit, Principal Scientist | Agronomy | | | |
| 4 | Dr. R.K. Murali Baskaran, Principal Scientist | Entomology | | | |
| 5 | Dr. Kailash Chander Sharma, Senior Scientist | -do- | | | |
| | IIAB, Ranchi | | | | |
| 1 | Dr. Arunava Pattanayak, Director | Genetics and Plant Breeding | | | |
| 2 | Dr. Tilak Raj Sharma, Joint Director (Research) | Molecular Biology and Biotechnology | | | |
| 3 | Dr. Anil Kumar Singh, Sr. Scientist | -do- | | | |
| 4 | Dr. Biplab Sarkar, Sr. Scientist | -do- | | | |

413.3.10 Recongnition of the following Scientists of NIASM- Baramati (6), NIBSM- Raipur (5) and IIAB- Ranchi (6) as Faculty Member and also as Research Guide for M.Sc. guidance as a special case with one time relaxation (but not to be cited in future) to run the programme at these Institutes from the current Academic Session 2020-21.

| S. No. | Name & Designation | Discipline | Recommended for Research Guide with Relaxation |
|-----------|--|---|--|
| | | NIASM, Baramat | i |
| 1 | Dr. Jagdish Rane Principal Scientist | Plant Physiology | Relaxation of 2 years teaching |
| 2 | Dr. Mahesh Kumar Scientist | -do- | Relaxation of 3 years teaching |
| 3 | Dr. Goraksha C.W. Sr. Scientist | Agricultural Engineering (FPE) | Relaxation of One year teaching |
| 4 | Dr. Dhananjaya D.N. Sr. Scientist | Soil & Water Conservation Engineering | Relaxation of One year teaching |
| 5 | Dr. Kamlesh Kumar Meena Sr. Scientist | Environmental Sciences | Relaxation of 2 years teaching |
| 6 | Dr. Ajay Kumar Singh Sr. Scientist | -do- | -do- |
| | | NIBSM, Raipur | |
| 1 | Dr. S.K. Ambast Principal Scientist | Agricultural Engineering (SWCE) | Relaxation of 2 years teaching |
| 2 | Dr. S.K. Sharma Pr. Scientist | Microbiology | -do- |
| 3 | Dr. P.N. Sivalingam Sr. Scientist | Molecular Biology and Biotechnology | -do- |
| 4 | Dr. Vinay Kumar Scientist | -do- | Relaxation of 3 years teaching |

| 5 | Dr. S.K. Jain | Plant Pathology | Relaxation of one year teaching |
|---|-----------------------|--------------------|---------------------------------|
| | Pr. Scientist | | |
| | | IIAB, Ranchi | |
| 1 | Dr. Vijai Pal Bhadana | Genetics and Plant | Relaxation of one year teaching |
| | Principal Scientist | Breeding | |
| 2 | Dr. Sudhir Kumar | Genetics and Plant | Relaxation of 3 years teaching |
| | Scientist | Breeding | |
| 3 | Dr. Sujit Kumar Bishi | Biochemistry | -do- |
| | Scientist (SS) | | a a |
| 4 | Dr. Binay Kumar Singh | Molecular Biology | Relaxation of 2 years teaching |
| | Sr. Scientist | and Biotechnology | · |
| 5 | Dr. Avinash Pandey | Genetics and Plant | Relaxation of One year teaching |
| | Scientist | Breeding | |
| 6 | Dr. Sujatha T.P. | Molecular Biology | Relaxation of 3 years teaching |
| | Scientist | and Biotechnology | |

Agenda Item No. 413.4 Consideration of the Recommendations of the Standing Committee on Course Curricula and Academic Affairs made in its meeting held on 20.7.2020

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

413.4.1 As per the directives of the 411th Academic Council meeting held on 14.11.2019, the revised guidelines of the IARI Merit Medal recommended by the Standing Committee was discussed in detail and the Academic Council approved the guidelines with some modifications.

| Existing Criteria | Revised Criteria Approved |
|--|--|
| 13.1.1 Criteria for assessment of comparative merit (i) The weightage given to the different aspects for consideration of the award of IARI Merit Medal is given below: | 13.1.1 Criteria for assessment of comparative merit (i) The weightage given to the different aspects for consideration of the award of IARI Merit Medal is given below: |
| For M.Sc./M.Tech. (60+30+10 = 100 Marks) | For M.Sc./M.Tech. (50+30+20 = 100 Marks) |
| (a) OGPA: 60 marks (OGPA 10= 60 marks) | (a). OGPA: 50 marks (OGPA 10= 50 marks) |
| (b) Thesis presentation & discussion: 30 marks | (b). Thesis presentation & discussion: 30 marks (c). Research Papers (Maximum 10 marks): |
| (c) Research Papers and patents etc. (Maximum 10 marks): (i) No. of research papers accepted/published in journals with NAAS rating: NAAS rating <6.0 : 4 marks each NAAS rating 6.0 : 6 marks each NAAS rating >6.0 : Marks equal to NAAS rating Patent filed/Software or Prototypes registered/models/methods/verities/IPR options :4 marks each | No. of research papers accepted/ published in journals with NAAS rating NAAS rating 5.00-6.00: 4 marks (Only one paper considered) NAAS rating 6.01-6.99: 6 marks each NAAS rating ≥7.00: 10 marks each NAAS rating ≥7.00: 10 marks each Maximum 10 marks): Measurable and verifiable special achievements/output (Maximum 5 marks): Patent filed/varieties (5 marks each) Software or Prototypes registered |

/Models/Process /Methods/Sequences documented (2.5 marks each)

- (ii). Awards and recognitions from National/International Professional Societies/Govt. bodies (Maximum 2.5 Marks)
- Best Poster award (National): 2 marks each
- Best poster award (International): 2.5 marks each
- Professional Society award/Govt. bodies award: 2.5 marks each
- (iii). Co-Curricular activities (Maxiumum 2.5 Marks)
- Paper/poster presentation in International Conference abroad: 2.5 marks each
- Oral Paper presentation in National/International Conference in India: 2.5 marks each

For Ph.D. (30+40+30 = 100 marks)

- (a) OGPA: 30 marks (OGPA 10=30 marks)
- (b) Thesis presentation & discussion: 40 marks
- (c) Research Papers and patents etc. (Maximum 30 marks):
- (i). No. of research papers accepted/published in journals with NAAS rating:
 NAAS rating <5.00: 4 marks each
 NAAS rating 5.01-5.99: 6 marks each
 NAAS rating 6.00-6.99: 8 marks each
 NAAS rating 7.00-7.99: 10 marks each
 NAAS rating 8.00: 10 marks + additional 2 mark each for every unit increase in NAAS rating
- (ii) Patent filed/Software or Prototypes registered/models/methods/verities/IPR options: 4 marks each

For Ph.D. (20+30+50 = 100 marks)

- (a). OGPA: 20 marks (OGPA 10=20 marks)
- (b). Thesis presentation & discussion: 30 marks
- (c). Research Papers (Maximum 40 marks):

 No. of research papers accepted/ published in journals with NAAS rating NAAS rating

 5.00 6.99: 8 marks each

 NAAS rating 7.00 7.99:12 marks each

 NAAS rating 8.00 8.99:16 marks each

 NAAS rating 9.00 9.99:20 marks each

 NAAS rating ≥10.00:30 marks each
- (d). Special achievements, Awards & Co-Curricular activities (Maximum 10 marks):
- (i). Measurable and verifiable special achievements/output (Maximum 5 marks):
 - Patent filed/varieties (5 marks each)
 - Software or Prototypes registered /Models/Process /Methods/Sequences documented (2.5 marks each)
 - (ii). Awards and recognitions from National/International Professional Societies/Govt. bodies (Maximum 2.5 Marks)
 - Best Poster award (National): 2 marks each
 - Best poster award (International): 2.5 marks each
 - Professional Society award/Govt. bodies award: 2.5 marks each
 - (iii). Co-Curricular activities (Maximum 2.5 Marks)
 - Paper/poster presentation in International Conference abroad: 2.5 marks each
 - Oral Paper presentation in National/International Conference in India: 2.5 marks each
- Fellowship for abroad visit/training (other than that for a conference): 2.5 marks each

Note: The student should be the First author in all the publications/products etc. claimed for the award.

413.4.2: Introduction of Ph.D. programme in **Development Economics and Policy at NIAP**, New Delhi

Initiation of Ph.D. programme in **Development Economics and Policy at NIAP**, New Delhi was deliberated and the Academic Council was of the opinion that the proposal may be developed jointly by NIAP and Division of Agricultural Economics, IARI for further considertaion of Standing Committee and Academic Council.

413.4.3 The Academic Council discussed the proposal for the revision in **Best Extension**Scientist Award for outstanding contribution in Agricultural Extension instituted during 2019-2020. After detailed deliberations, the Academic Council approved the revised criteria for allocation of marks:

| S.N. | Criteria | Marks | Weightage |
|------|--|-------|-----------|
| 1 | Research achievements | 30 | 80% |
| 2 | Imapact of technology | 10 | |
| 3 | Teaching innovations and achievements | 10 | |
| 4 | Capacity building of farmers and extension professionals | 10 | |
| 5 | Research Publications | 20 | |
| 6 | Books, manuals, bulletins, quality reference material | 10 | |
| 7 | Awards and Honors/Recognition | 10 | |
| | Total marks | 100 | |
| | Weightage for Judging Committee | | 20% |

Agenda Item No. 413.5 Online Academic activities implemented during Covid -19 pandemic

The Academic Council ratified all the PG School online academic activities implemented during the Covid-19 lockdown period and also permitted to continue the online work. Following are the major online activities implemented by PG School:

- Online teaching of courses
- Online registration and fee payment
- Webinar series on topical interest
- Upgradation of PGS Online management system
- Open book examination for comprehensive exam and III-Trimester examination (2019-20 session)
- During II-Trimester (2019-20 session), awarding of grades based on midterm exam marks/assignments.
- Online mode of Thesis submission & evaluation, pre-qualifying & Qualifying exam, Final Viva Voce Exam, Credit seminar, ORW presentation and thesis seminar.
- Online meeting of Standing Committees, Academic Council, Professors meeting, Advisory Committee, and Board of Studies.
- In some special cases, considered changes in approved ORWs without affecting Merit Medal nomination guidelines.

Keeping in view the mandate of the IARI-Jharkhand, the Academic Council approved 32 seats in 12 Disciplines for M.Sc. programme for the academic session 2020-21. It was also decided that senior faculty members from IARI to be included in the student Advisory Committes.

| S No. | Discipline | No. of Faculty & Guides Approved at RS- NRRI, Hazaribag | No. of Faculty & Guides approved at ICAR- RCER Research Centre, Ranchi | No. of Faculty & Guides Approved at IARI- Jharkhand Hazaribag | Total No. of Faculty & Guides Approve d with relaxations as a special case | No. of M.Sc. Seats Approve d |
|---------------------|--|---|--|--|--|--|
| Present Disciplines | | | | | | |
| 1 | Agronomy | 0 | 0 | 0 | 0 | 2* |
| 2 | Genetics and Plant Breeding | 1 | 1 | 1 Guide (2 Faculty) | 3 (2 Faculty) | 6 |
| 3 | Soil Science and Agricultural Chemistry | 1 | 1 | 1 (1 Faculty) | 3 (1 Faculty) | 4 |
| 4 | Vegetable Science | 0 | 2 | 0 | 2 | 3 |
| | itional Disciplines | | | | | |
| appr | | | | | | |
| 5 | Agricultural Engineering (Soil & water conservation Engineering) | 0 | 1 | 0 | 1 | 1 |
| 6 | Agricultural Extension | 0 | 0 (1 Faculty) | 0 (I Faculty) | 0 (2 Faculty) | 3* |
| 7 | Environmental Sciences | 0 | 0 | 1 | 1 | 2 |
| 8 | Entomology | 0 | 1 | 0 | 1 | 2 |
| 9 | Fruit Science | 0 | 3 | 1 | 4 | 3 |
| 10 | Microbiology | 0 | 0 | 1 | 1 | 2 |
| 11 | Plant Pathology | 1 | 0 | 0 | 1 | 2 |
| 12 | Seed Science and Technology | 0 | 0 | 1 | 1 | 2 |
| *0 | Total | 3 | 9 (1 Faculty) | 6 (4 Faculty) | 18 (5 Faculty) | 32 |

^{*}Guides are to be allotted from IARI, New Delhi

Agenda Item No. 413.7 Finalization of M.Sc. seats at NIASM, NIBSM and IIAB

The Academic Council accepted the decision of the DG ICAR and Secretary DARE taken in the ICAR Directors meeting held on May 1, 2020 to initiate the academic programme in collaboration with IARI at NIASM, Baramati, NIBSM, Raipur and IIAB, Ranchi.

As a sepecial case, the Academic Council approved the recommunitions of Standing Committee to induct/recognise scientists from these insitutions as Faculty/Reserch gudies with one time relaxation (Agenda No. 413.3.8 to 413.3.10) and the number of M.Sc. seats in different Disciplines for the current academic session 2020-21.

The Academic Council decided that the students to be admitted during the current session will be accommodated at these institutes and the teaching to be initiated by the faculty of these institutions in collaboration with IARI. Regarding the fellowship, the PG School shall complile and submit the demand to Education Division of ICAR.

NIASM, Baramati

| S No. | Discipline | No of Faculty Approved | No. of Faculty & Guides approved | No. of M.Sc. seats approved |
|----------|---------------------------|---------------------------|----------------------------------|-----------------------------|
| 1 | Agricultural Engineering | | 2* | 2 |
| 2 | Environmental Sciences | 1 | 1 + 2* = 3 | 3 |
| 3 | Genetics & Plant Breeding | 1 | | |
| 4 | Plant Pathology | 1 | | |
| 5 | Plant Physiology | | 2* | 2 |
| | Total | 10 | 7 | 7 |

NIBSM, Raipur

| S | Discipline | No of Faculty | No. of Faculty | No. of M.Sc. |
|-----|--------------------------------|---------------|----------------|----------------|
| No. | : | Approved | & Guides | seats Approved |
| | | | approved | |
| 1 | Agricultural Engineering(SWCE) | | 1* | |
| 2 | Agricultural Extension | 1 | | |
| 3 | Agronomy | | 2 | 2 |
| 4 | Biochemistry | 1 | | |
| 5 | Entomology | 2 | 2 | 2 |
| 6 | Genetics & Plant Breeding | | 1 | 1 |
| 7 | Microbiology | | 1* | 1 |
| 8 | Molecular Biology and | 1 | 2* | 2 |
| | Biotechnology | | | |
| 9 | Plant Pathology | | 1* | 1 |
| 10 | Other faculty | 1 | | |
| | Total | 6 | 10 | 9 |

IIAB, Ranchi

| S No. | Discipline | No of Faculty Approved | No. of Faculty & Guides approved | No. of M.Sc. seats Approved |
|----------|---------------------------|------------------------|----------------------------------|--------------------------------|
| 1 | Biochemistry | | 1* | 1 |
| 2 | Genetics & Plant Breeding | | 1 + 2* = 3 | 4 |
| 3 | Plant Physiology | 1 | | 5 |
| 4 | Molecular Biology and | 2 | 3+3*=6 | |

| | Biotechnology | | | | |
|---|---------------|---|----|----|--|
| 5 | Other faculty | 2 | | | |
| | Total | 5 | 10 | 10 | |

^{*}Approved as Research Guides for M.Sc. guidance as a special case with one time relaxation (but not to be cited in future)

Agenda Item No. 413.8 The proposal on the nomination of two distinguished IARI alumni and world Food Prize winners viz., Dr. Sanjaya Rajaram and Dr. Rattan Lal for the Conformation of the degree of Doctorate of Science (Honoris causa).

On the recommedation of the special Committee constituted by the Director and Chairman, Academic Council, the Academic Council approved the proposal for confirmation of degree of Doctorate of Science (*Honoris causa*) to two eminent IARI alumni namely Dr. Sanjaya Rajaram and Dr. Rattan Lal, the World Food Prize winners who have distinguished themselves in the field of science.

Agenda Item No. 413.9 Any other item with the permission of the Chair.

- 413.9.1 The Academic Council approved the revised proposal received from the Discipline of Molecular Biology and Biotechnology (MBB) recommending Dr. K.C.Bansal, Former, Director, NBPGR as Adjunct Faculty in view of his vast experience in the subject.
- 413.9.2 The Academic Council deliberated on several issues concerning how to improve the visibility and standard of IARI; IARI attaining the status of Global University; IARI as a national leader to train students and faculty of SAUs; emphasis on practical's & hands on training during Covid-19 pandemic; relevance of Ph.D. students research in the context of national policies; balance between basic and applied research, and use of digital technologies in the field of agricultural sciences.

The Academic Council authorised the Director and Chairman, Academic Council to constitute a Committee under the Chairmanship of Dean and Joint Director (Edn.) to visit some of the leading institutions in the country and to come up with recommendations on how the IARI could attain a Global University status.

The meeting ended with the vote of thanks to the Chair.

(Ratnesh Kumar)

Member-Secretary

(Rashmi Aggarwal)
Vice Chairperson

(A.K. Singh) Chairman

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. PGS-I/1-415/AC/2021

October 25, 2021

ENDORSEMENT

A copy of the proceedings of the 415th meeting of the Academic Council held on 1st October, 2021 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council (By name
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. School Hostel Office
- 5. Sr. Admn. Officer, IMC (For members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PS to Registrar/PS to Comptroller
- 7. Technical Assistants, P G School (IT Cell/Stats. Cell)
- 8. Assistant Administrative Officer, Post Graduate School-II
- 9. Concerned Dealing Assistants, PGS-I

(Pushpendra Kumar)

Registrar

PROCEEDINGS OF THE 415th MEETING OF THE ACADEMIC COUNCIL (*Online Mode*) HELD ON OCTOBER 1, 2021 AT 11.00 AM AT IARI, NEW DELHI - 110012

The following members attended online meeting:

| and the same was members uncomme meeting. | |
|---|------------------|
| 1. Dr. A.K. Singh, Director, IARI | Chairman |
| 2. Dr. Rashmi Aggarwal, Dean & JD (Edn.) (Additional Charge) | Vice Chairperson |
| 3. Dr. P. Das, Former DDG (Ag. Extension), ICAR, New Delhi | Member |
| 4. Dr. A.K. Sikka, Former DDG (NRM) IWMI, NASC Complex, Pusa | Member |
| 5. Prof. B. D. Singh, Professor Emeritus, BHU, Varanasi | Member |
| 6. Dr. Seema Jaggi ADG (HRD), ICAR represented DDG(Edn.) | Member |
| 7. Dr. Rajender Parsad, Director, IASRI | Member |
| 8. Dr. C.R. Mehta, Director, CIAE, Bhopal | Member |
| 9. Dr. Ajit Kumar Shashany, Director, NIPB | Member |
| 10. Dr. B.N. Shrinivasa Murthy, Director, IIHR, Bengaluru (Additional Ch | narge) Member |
| 11. Dr. Ashok Kumar, Director, NBPGR (Additional Charge) | Member |
| 12. Dr. B.S. Tomar, JD (Extn.) and Professor, Veg. Science (Additional Charge | ge) Member |
| 13. Dr. Man Singh, Project Director, WTC(Additional Charge) and Professor, WS | ST Member |
| 14. Dr. K.M. Manjaiah, Associate Dean, PG School | Member |
| 15. Dr. Neera Singh, Professor, Agricultural Chemicals | Member |
| 16. Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 17. Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 18. Dr. V.K. Sehgal, Professor, Agricultural Physics | Member |
| 19. Dr. Cini Varghese, Professor, Agricultural Statistics | Member |
| 20. Dr. T.K. Das, Professor, Agronomy | Member |
| 21. Dr. Anil Rai, Professor, Bioinformatics | Member |
| 22. Dr. Alka Arora, Professor, Computer Application | Member |
| 23. Dr. Debjani Dey, Professor, Entomolgy | Member |
| 24. Dr. Soora Naresh Kumar, Professor, Environmental Sciences | Member |
| 25. Dr. K.P. Singh, Professor, Floriculture and Landscape Architecture | Member |
| 26. Dr. O.P. Awasthi, Professor, Fruit Science | Member |
| 27. Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| 28. Dr. Radha Prasanna, Professor, Microbiology | Member |
| 29. Dr. Debasis Pattanayak, Professor, MBB | Member |
| 30. Dr. M.R. Khan, Professor, Nematology | Member |
| 31. Dr. Veena Gupta, Professor, PGR | Member |
| 32. Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| 33. Dr. Madan Pal Singh, Professor, Plant Physiology | Member |
| 34. Dr. V.R. Sagar, Professor, Post Harvest Technology(Additional Charge) | Member |
| 35. Dr. S.K. Chakrabarty, Professor, SST (Additional Charge) | Member |
| 36. Dr. S.P. Datta, Professor, SS&AC | Member |
| 37. Dr. Anil Sirohi, MOHR, P.G. Hostels | Member |
| 38. Dr. V.R. Srinivasan, Comptroller | Member |
| 39. Dr. A. Nagaraja, Principal Scientist, Fruit Science | Member |
| and Faculty Representative to the Academic Council | |
| 40. Dr. Renu Pandey, Principal Scientist, Plant Physiology | Member |
| and Faculty Representative to the Academic Council | |
| 41. Mr. Deep Chand, Incharge, IARI Library | Member |
| 42. Mr. Rahul Kumar, President, PGSSU | Member |
| 43. Mr. Manu S.M., Students' Representative to the AC | Member |
| 44 M D 1 1 77 D 1 | Member Secretary |
| | |

The following members could not attend the meeting:

| Dr. C. Devakumar, Former ADG, ICAR (Outside Member) | Member |
|--|--------|
| Dr. (Mrs.) Alka Singh, Professor, Agricultural Economics | Member |
| Dr. Anil Dahuia, Professor, Biochemistry | Member |

Dr. (Ms.) Rashmi Aggarwal, Dean and Joint Director (Edn.) extended a formal welcome to Dr. A.K. Singh, Director, IARI and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time:

New members

- 1. Dr. Ashok Kumar, Director, NBPGR (Additional Charge)
- 2. Dr. B.N. Shrinivasa Murthy, Director, IIHR Bengaluru
- 3. Dr. B.S. Tomar, Joint Director(Extension) and Professor, Vegetable Science (additional charge)
- 4. Dr. (Mrs.) Cini Varghese, Professor, Agricultural Statistics
- 5. Dr. (Mrs.) Alka Arora, Professor, Computer Application
- 6. Dr. V.R. Sagar, Professor, Post Harvest Technology

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

- 1. Dr. Kuldeep Singh, Former Director, NBPGR
- 2. Dr. M.R. Dinesh, Former Director, IIHR Bengaluru
- 3. Dr. (Ms.) Seema Jaggi, Former Professor, Agricultural Statistics
- 4. Dr. Sudeep Marwaha, Former Professor, Computer Application
- 5. Dr. S.K. Jha, Former Professor, Post Harvest Technology
- 6. Dr. T.K. Behra, Former Professor, Vegetable Science

The following officials attended as Special Invitiees:

- 1. Dr. H. Pathak, Director, NIASM, Baramati
- 2. Dr. Shri Vishal Nath, OSD, IARI Jharkhand

The Director and Chairman, Academic Council apprised the Academic Council about the educational, research, extension and other activities/achievements of the Institute specially the IARI's Global University proposal/presentation before the Hon'ble Union Minister of Agriculture and Farmers Welfare.

Thereafter, the following agenda items were taken up for consideration:

| Agenda | Description of Agenda Items | |
|---------------|--|--|
| Item No. | | |
| 415.1 | Confirmation of the proceedings of the 414 th meeting of the Academic | |
| - | Council held on February 11, 2021 | |
| 415.2 | Action Taken Report on the Proceedings of the 414th meeting of the | |
| | Academic Council held on February 11, 2021 | |
| 415.3 | Consideration of the recommendations of the Standing Committee on | |
| g sanda gasan | Faculty & Discipline made in its meetings held on March 6, 2021 and | |
| , | July 17, 2021 | |
| 415.4 | Consideration of the recommendations of the Standing Committee on | |
| | Scholarships, Financial Assistance & Academic Progress made in its | |

| | meeting held on April 12, 2021 | |
|--------|--|--|
| 415.5 | Consideration of observation of National Agricultural Education Accreditation Board (NAEAB) of ICAR on granting accreditation to IARI, New Delhi | |
| 415.6 | Considerations of degree nomenclature of M.Sc. and Ph.D. of PHT discipline | |
| 415.7 | Consideration of the recommendations of the meeting of the Standing Committee on Course Curricula and Academic Affairs held on July 17, 2021 to discuss on three non-accredited programmes | |
| 415.8 | Consideration of the recommendations of the Committee constituted for revision of guidelines of existing institute awards and framing guidelines for new awards | |
| 415.9 | Finalization of number of seats for admission to M.Sc./M.Tech. and Ph.D. degree programmes at IARI, New Delhi and at PG outreach institutions for the Academic Session 2021-22 | |
| 415.10 | Any other item with the permission of the Chair | |

Agenda Item No. 415.1: Confirmation of the Proceedings of the 414th meeting of the Academic Council held on 11.2.2021

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 414th meeting. Since no comment was there, the proceedings of the previous meeting was confirmed by the house.

Agenda Item No. 415.2: Report on action taken on the proceedings of the 414th meeting of the Academic Council held on 11.2.2021

Dean and Joint Director (Education) presented the action taken report which was approved by the house.

Agenda Item No. 415.3 Consideration of the proceedings of the meeting of the Standing Committee on Faculty and Discipline held on 06.03.2021 and 17.07.2021

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

Meeting held on 06.03.2021

415.3.1: Induction of the following 31 Scientists into PG Faculty in their respective disciplines at IARI, New Delhi (18), IARI PG outreach Programme at IIHR-Bengaluru (4), NIASM-Baramati (6) and NIBSM-Raipur (3) as they met the qualifications/eligibility criteria as per the prescribed guidelines.

| S. No. | Name of the Scientist & Designation | Name of the Discipline |
|-----------|---|------------------------|
| | IARI, New Dell | hi |
| 1 | Dr. Gulab Singh Yadav, Scientist (Senior Scale) | Agronomy |
| 2 | Mr. Rishi Raj, Scientist (Senior Scale) | -do- |
| 3 | Dr. Dibakar Mahanta, Senior Scientist | -do- |

| 4 | Dr. Anuja A.R., Scientist | Agricultural Economics |
|----|--|--|
| 5 | Dr. Raju R., Scientist | -do- |
| 6 | Dr. Dilip Kushwaha, Scientist | Agricultural Engineering(FMPE) |
| 7 | Er. Utpal Ekka, Scientist | -do- |
| 8 | Dr. Ajeet Singh, Scientist | Biochemistry |
| 9 | Dr. Sunil Kumar, Principal Scientist | Bioinformatics |
| 10 | Dr. K.P. Mohapatra, Principal Scientist, NBPGR | Environmental Sciences |
| 11 | Dr. Jang Bahadur Singh, Senior Scientist | Genetics and Plant Breeding |
| 12 | Dr. Chandan Kapoor, Scientist | -do- |
| 13 | Dr. Manjeet Kumar, Scientist | -do- |
| 14 | Dr. Joshitha Vijayan, Scientist | Molecular Biology and Biotechnology |
| 15 | Dr. Mahesh Rao, Scientist | -do- |
| 16 | Dr. Subhash Chander, Scientist | Plant Genetic Resources |
| 17 | Dr. Vijayakumar H.P., Senior Scientist | Seed Science and Technology |
| 18 | Dr. Prasenjit Ray, Scientist(SS) | Soil Science |
| | IARI PG outreach Programme | at IIHR, Bengaluru |
| 1 | Dr. Raghu, B.R., Scientist | Genetics and Plant Breeding |
| 2 | Ms. Poornima K N, Scientist | Molecular Biology and Biotechnology |
| 3 | Dr. Vijay Rakesh Reddy, S., Scientist | Post Harvest Technology |
| 4 | Dr. M. Thangam, Principal Scientist | Vegetable Science |
| | IARI PG Outreach Programme | at NIASM, Baramati |
| 1 | Dr. Paritosh Kumar, Scientist | Environmental Science |
| 2 | Mr. N. Karthikeyan, Scientist | Microbiology |
| 3 | Dr. Gurumurthy S., Scientist | Plant Physiology |
| 4 | Dr. KhaptePratap Singh Suresh, Scientist | Vegetable Science |
| 5 | Dr. Neeraj Kumar, Scientist | Other faculty |
| 6 | Dr.ChavanSangram Bhanudas, Scientist | -do- |
| | IARI PG Outreach Programm | e at NIBSM, Raipur |
| 1 | Dr. Binod Kumar Choudhary, Senior Scientist | Other faculty |
| 2 | Dr. Mamta Choudhary, Senior Scientist | -do- |
| 3 | Dr. Soumya Dash, Scientist | -do- |

415.3.2: Recognition of the following 11 faculty members of IARI as Research guides for M.Sc. guidance in their respective disciplines as they meet the prescribed requirements/eligibility criteria for becoming the research guides:

| S. No. | Name of the Scientist & Designation | Name of the Discipline |
|-----------|--|-------------------------|
| 1 | Dr. Jyoti Ranjan Mishra, Principal Scientist | Agricultural Extension |
| 2 | Dr. Kaustav Aditya, Scientist | Agricultural Statistics |

| 3 | Dr. U.B. Angadi, Principal Scientist | Bioinformatics | |
|----|--------------------------------------|---|--|
| 4 | Dr.Kumaranag K.M., Scientist | Entomology | |
| 5 | Dr. Prativa Anand, Scientist | Floriculture and Landscape Architecture | |
| 6 | Dr. Vanlalruati, Scientist | -do- | |
| 7 | Dr. Deepak Singh Bisht, Scientist | Molecular Biology & Biotechnology | |
| 8 | Dr. Amit Kumar Singh, Sr. Scientist | Plant Genetic Resources | |
| 9 | Dr. KuldeepTripathi, Scientist | -do- | |
| 10 | Dr. Nagamani Sandra, Scientist | Seed Science and Technology | |
| 11 | Dr. Indu Chopra, Scientist (SS) | Soil Science | |

- **415.3.3** The Academic Council approved the revised research paper requirement guidelines for both faculty induction and for research guide:
 - (a) For the Faculty induction: Three full length peer reviewed research papers published during the last five years with senior/ sole authorship or as corresponding author and with NAAS score of 6.0 and above to be considered.
 - (b) For Research Guide: Three full length peer reviewed research papers published during the last five years with senior/ sole authorship or as corresponding author and with NAAS score of 6.0 and above to be considered.

Meeting held on 17.07.2021

415.3.4 Induction of following 4 Scientists into PG Faculty in their respective disciplines at IARI, New Delhi as they met the qualifications/eligibility criteria as per the prescribed guidelines.

| | Name & Designation | Name of the Discipline |
|--------|---|------------------------------|
| S. No. | * *** | 1 |
| 1. | Dr. Vijay Kumar Prajapati, Scientist | Water Science and Technology |
| 2. | Dr. Archana Anokhe, Scientist | Entomology |
| 3. | Dr. Raj Kumar Gautam, Principal Scientist | Plant Genetic Resources |
| 4. | Dr.Chandan Kumar Deb, Scientist | Computer Application |

Recognition of the following 06 faculty members of IARI, New Delhi (5) and IIHR, Bengaluru(1) as Research guides for M.Sc. guidance in their respective disciplines as they meet the prescribed requirements for becoming the research guides:

| S. No. | Name & Designation | Name of the Discipline | | |
|--------|---|-------------------------|--|--|
| | IARI, New | Delhi | | |
| 1. | Mr. Achchhelal Yadav, Scientist | Agricultural Physics | | |
| 2. | Dr.Sangita Bansal, Principal Scientist | Plant Genetic Resources | | |
| 3. | Dr.Seema Sangwan, Scientist (SS) | Microbiology | | |
| 4. | Dr.Abir Dey, Scientist | Soil Science | | |
| 5. | Dr.Gograj Singh Jat, Scientist (SS) | Vegetable Science | | |
| | IARI PG outreach Programme at IIHR, Bengaluru | | | |
| 6.* | Dr.Ponnam Naresh, Scientist,IIHR | Vegetable Science | | |

- 415.3.6 Recognition of Dr. Arun Kumar T.V. and Dr. Sangeeta Chopra Scientists from Agricultural Engineering discipline as duel faculty in Postharvest Engineering & Technology for guidance and teaching of on roll students.
- 415.3.7 The Academic Council approved the recommendation of the Standing Committee that **Dr.**Arun Kumar Tripathi, Director General, National Institute of Solar Energy (NISE),
 Government of India, as Adjunct Faculty in the discipline of Agricultural Engineering.

Agenda Item No. 415.4 Consideration of the recommendations of the meeting of the Standing Committee on Scholarships, Financial Assistance & Academic Progress held on 12.04.2021

The Academic Council ratified the decision of Chairman, Academic Council on disbursement of Scholarship/Fellowship as per the following recommendation of Standing Committee.

During the Academic Session 2020-21, a total number of 259 candidates were admitted to Ph.D. degree programme under different Schemes at IARI and IARI PG Outreach Institutes. On the basis of the application/undertaking/proforma submitted by the students, forwarded by the concerned Professors and duly verified by the PGS-II Section, the Standing Committee made the following recommendations:

- 415.4.1 The rate and tenure of Fellowship as per the ICAR i.e., Rs. 31,000 for the First two years and Rs. 35000 for the third year, Contingency of Rs. 10000/p.a. and maximum duration of fellowship is only for three years as per the terms and conditions of ICAR SRFs.
- 415.4.2 As per P.G. School Calendar para 15.3.3 and 15.3.5, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. The payment of Scholarship/Fellowship shall be reviewed at the end of 2nd Semester and only those students will be permitted to continue getting fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of 2nd Semester (Commencement of the Academic Year 2020-21 is 28.12.2020).
- 415.4.3 141 students enrolled at IARI, New Delhi/CIAE Bhopal/IIHR Bengaluru who are awarded/eligible for ICAR-JRF @Rs.31000/-per month for first two years and @Rs.35,000/- per month + Rs.10,000/- contingency grant for third year will get their Fellowship from ICAR.

| S. No. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE_ENROL |
|-----------|------------|----------------------------|--------------------------|--------------|
| 1 | 11669 | Ajmal S | Agricultural Economics | 28/12/2020 |
| 2 | 11670 | Aditi Agrawal | do | 28/12/2020 |
| 3 | 11671 | S Rohith | do | 28/12/2020 |
| 4 | 11672 | Jagadeesh M S | do | 28/12/2020 |
| 5 | 11673 | Thrilok Belli B M | do | 28/12/2020 |
| | | Padigapati Venkata Naga | a a | |
| 6 | 11674 | Sindhuja | do | 28/12/2020 |
| 7 | 11675 | Patil Rajvardhan Kiran | Agricultural Engineering | 28/12/2020 |
| 8 | 11676 | Rahul Kumar | do | 28/12/2020 |
| 9 | 11679 | Sanghani Vikas Narayanbhai | do | - 28/12/2020 |

| 10 | 11680 | Ramkishor Kurmi | do | 28/12/2020 |
|----------|----------------|---------------------------------------|-----------------------------|--------------------------|
| 11 | 11684 | Manojit Chowdhury | do | 28/12/2020 |
| 12 | 11688 | Prakashbhai Bijalbhai Ahir | do | 28/12/2020 |
| 13 | 11689 | Ajay Narayanrao Satpute | do | 28/12/2020 |
| 14 | 11690 | Amit Kumar | do | 28/12/2020 |
| 15 | 11692 | Satish Manda | do | 28/12/2020 |
| 16 | 11694 | Sushmita Saini | Agricultural Extension | 28/12/2020 |
| 17 | 11695 | Praveen Kumar | do | 28/12/2020 |
| 18 | 11696 | Sai Priyanka Pagadala | do | 28/12/2020 |
| 19 | 11697 | Th.D Grace Chiru | do | 28/12/2020 |
| 20 | 11698 | Sudip Kumar Gorai | do | 28/12/2020 |
| 21 | 11699 | Preeti Yadav | do | 28/12/2020 |
| 22 | 11700 | Sonali Mallick | do | 28/12/2020 |
| 23 | 11701 | Sk Wasaful Quader | do | 28/12/2020 |
| 24 | 11702 | Vishwanatha B P | do | 28/12/2020 |
| 25 | 11703 | Tridiv Ghosh | Agricultural Physics | 28/12/2020 |
| 26 | 11709 | Lokeshwari M | do | 28/12/2020 |
| 27 | 11710 | Sandip Garai | do | 28/12/2020 |
| 28 | 11718 | Kiranmoy Patra | Agronomy | 28/12/2020 |
| 29 | 11719 | Sasmita Tripathy | do | 28/12/2020 |
| 30 | 11720 | Sandeep Kumar | do | 28/12/2020 |
| 31 | 11721 | Alekhya Gunturi | do | 28/12/2020 |
| 32 | 11722 | Kadapasreenivasareddy | do | 28/12/2020 |
| 33 | 11723 | Ajmul Hasan | do | 28/12/2020 |
| 34 | 11724 | Rakesh Dawar | do | 28/12/2020 |
| 35 | 11725 | Sunil Kumar | do | 28/12/2020 |
| 36 | 11726 | Shyam Karan | do | 28/12/2020 |
| 38 | 11728 | Bixapathi Banoth | do | 28/12/2020 |
| 39 | 11729 11730 | Faris P | do | 28/12/2020 |
| 40 | 11730 | Smruti Ranjan Padhan Chandrika Das | do | 28/12/2020 |
| 41 | 11733 | Shreya Mandal | Biochemistry | 28/12/2020 |
| 42 | 11754 | Vadivel C | Entomology | 28/12/2020 |
| 43 | 11755 | Rakesh Kumar Behera | do | 28/12/2020 |
| 44 | 11756 | Kishore Chandra Sahoo | do | 28/12/2020 28/12/2020 |
| 45 | 11757 | Hemant Kumar | do | 28/12/2020 |
| 46 | 11758 | | do | 28/12/2020 |
| 47 | 11759 | K Chandra Kumara | do | 28/12/2020 |
| 48 | 11760 | Mugundhan N | do | 28/12/2020 |
| 49 | 11761 | Machanuru Raviteja | Environmental Sciences | 28/12/2020 |
| 50 | 11763 | Sibananda Darjee | do | 28/12/2020 |
| | | V | Floriculture and Landscape | 20/12/2020 |
| 51 | 11768 | Vaishali C | Architecture | 28/12/2020 |
| 52 | 11769 | Vidyashree S | do | 28/12/2020 |
| 53 | 11770 | Girish P M | do | 28/12/2020 |
| 54 | 11779 | Vishal Balasaheb Mhetre | Fruit Science | 28/12/2020 |
| 55 | 11780 | Chaithra T S | do | 28/12/2020 |
| 56 | 11781 | Amulya S | do | 28/12/2020 |
| 57 | 11782 | Anagha P K | do | 28/12/2020 |
| 58 | 11783 | Kripa Shankar | do | 28/12/2020 |
| 59 60 | 11784 | Chandana M R | do | 28/12/2020 |
| 61 | 11785 | Mude Ramya Sree | do | 28/12/2020 |
| 62 | 11786 | Chukkamettu Anusha | do | 28/12/2020 |
| 63 | 11791 11792 | Ramesh Govinda Rai Sarma | Genetics and Plant Breeding | 28/12/2020 |
| 64 | 11792 | Nitesh Kushwaha | do | 28/12/2020 |
| 65 | 11793 | Shivaprasad K M | do | 28/12/2020 |
| 66 | 11796 | Danakumara T | do | 28/12/2020 |
| 67 | 11797 | Vinay Rojaria | do | 28/12/2020 |
| 68 | 11798 | Harshitha B S | do | 28/12/2020 28/12/2020 |
| | | | | 20/12/2020 |

| 69 | 11799 | Karthik Kumar M | do | 28/12/2020 |
|------------|----------------|--|-----------------------------|------------|
| 70 | 11800 | Amaresh | do | 28/12/2020 |
| 71 | 11801 | Sugumar S | do | 28/12/2020 |
| 72 | 11802 | Adithya P Balakrishnan | do | 28/12/2020 |
| 7 73 | 11803 | Amitava Roy | do | 28/12/2020 |
| 74 | 11805 | Pulak Debbarma | do | 28/12/2020 |
| 75 | 11806 | Saikat Chowdhury | do | 28/12/2020 |
| 76 | 11807 | Udita Pushpad | Microbiology | 28/12/2020 |
| 77 | 11808 | Annayya | do | 28/12/2020 |
| 78 | 11809 | Dipankar Chowdhury | do | 28/12/2020 |
| 79 | 11811 | Elakkya M | do | 28/12/2020 |
| 80 | 11815 | Bipin Bihari Hembrom | do | 28/12/2020 |
| | | Digin Smari Hemorem | Molecular Biology and | 20/12/2020 |
| 81 | 11816 | Samar Deb | Biotechnology | 28/12/2020 |
| 82 | 11817 | Mareyam | do | 28/12/2020 |
| 83 | 11818 | Jeet Roy | do | 28/12/2020 |
| 84 | 11820 | Vibha Kamati | do | 28/12/2020 |
| 85 | 11823 | Anuj Kumar | do | 28/12/2020 |
| 86 | 11824 | Renu Kumari | do | 28/12/2020 |
| 87 | 11825 | Santhoshkumar Ek | Nematology | 28/12/2020 |
| 88 | 11829 | Siddhant Ranjan Padhi | Plant Genetic Resources | 28/12/2020 |
| 89 | 11830 | G J Abhishek | do | 28/12/2020 |
| 90 | 11831 | Rithesh B N | do | 28/12/2020 |
| 91 | 11834 | Nitika Kalia | do | 28/12/2020 |
| 92 | 11835 | Sreenayana B | Plant Pathology | |
| 93 | 11836 | Shanmugaraj C | do | 28/12/2020 |
| 94 | 11837 | Akshay Kumar H M | do | 28/12/2020 |
| 95 | 11838 | Vijay Shree Gahlot | do | 28/12/2020 |
| 96 | 11839 | Sathiyaseelan K | do | 28/12/2020 |
| 97 | 11840 | Abdul Qadir | do | 28/12/2020 |
| 98 | 11841 | Haritha Mohan M | do | 28/12/2020 |
| 99 | 11842 | Yeluru Mohan Babu | do | 28/12/2020 |
| 100 | 11843 | Halima Khatoon | do | 28/12/2020 |
| 101 | 11844 | | do | 28/12/2020 |
| 102 | 11845 | Dharmappa Dhanasing Chavan Vinod Chouhan | do | 28/12/2020 |
| 102 | 11846 | Sudeepta Pattanayak | do | 28/12/2020 |
| 103 | 11847 | Divya Bharathi | | 28/12/2020 |
| 104 | 11848 | - | Plant Physiology | 28/12/2020 |
| 106 | 11849 | Samrat Das | do | 28/12/2020 |
| 107 | 11849 | G.Andonissamy Daniel Taria Sukumar | | 28/12/2020 |
| 107 | 11717 | A Anil Kumar | do | 28/12/2020 |
| 109 | 11852 | Shatakashi Mishra | Post Harvest Technology | 28/12/2020 |
| 110 | 11852 | Shahil Kumar | —do | 28/12/2020 |
| 111 | | | Seed Science and Technology | 28/12/2020 |
| 112 | 11861 11864 | Chaithanya G | do | 28/12/2020 |
| 112 | | Vislavath Ramvilas Pashwan | do | 28/12/2020 |
| 113 | 11865 | Deepak Rao | do | 28/12/2020 |
| 114 | 11867 | Rishbh Kumar Didawat | Soil Science | 28/12/2020 |
| | 11868 | Amit Kumar Dash | do | 28/12/2020 |
| 116 | 11869 | Soura Shuvra Gupta | do | 28/12/2020 |
| 117 | 11870 | Surya Prakash Yadav | do | 28/12/2020 |
| 118 | 11871 | Kritagya Gangwar | do | 28/12/2020 |
| 119 | 11872 | Praveen Kumar | do | 28/12/2020 |
| 120 | 11873 | Prem Kumar B | do | 28/12/2020 |
| 121 | 11874 | Tirunagari Rupesh | do | 28/12/2020 |
| 122 | 11875 | Plabani Roy | do | 28/12/2020 |
| 123 | 11876 | Shilpa Danak Kaman Manka | do | 28/12/2020 |
| 124 | 11877 | Deepak Kumar Meena | do | 28/12/2020 |
| 125 | 11879 | Asheesh Kumar | do | 28/12/2020 |
| 126 127 | 11880 11881 | Sourav Das | do | 28/12/2020 |
| | IIXXII | Sushmitha L C | Vegetable Science | 28/12/2020 |

| 128 | 11882 | Koku K. Tara | do | 28/12/2020 |
|-----|-------|-------------------------|------------------------------|------------|
| 129 | 11883 | Anamika Chandel | do | 28/12/2020 |
| 130 | 11884 | Bhargav Kiran | do | 28/12/2020 |
| 131 | 11886 | Pradeepkumara N | do | 28/12/2020 |
| 132 | 11887 | Kakali Das | do | 28/12/2020 |
| 133 | 11889 | Abhilash Kavalgi | do | 28/12/2020 |
| 134 | 11890 | Supriya Mandal | do | 28/12/2020 |
| 135 | 11891 | Pooja Belwal | do | 28/12/2020 |
| 136 | 11895 | Ankit | Water Science and Technology | 28/12/2020 |
| | | EDDE MOUNIKA, CIAE | | |
| 137 | 11677 | BHOPAL | Agricultural Engineering | 28/12/2020 |
| | | PANGAM HERAMB, CIAE | | |
| 138 | 11693 | BHOPAL | do | 28/12/2020 |
| | | CHANDANA S, IIHR | Floriculture and Landscape | |
| 139 | 11778 | BENGALURU | Architecture | 28/12/2020 |
| | | SINCHANA JAIN N R, IIHR | | |
| 140 | 11788 | BENGALURU | Fruit Science | 28/12/2020 |
| | | KOWSALYA K B, IIHR | | - |
| 141 | 11893 | BENGALURU | Vegetable Science | 28/12/2020 |

415.4.4 Award of Institute's Sr. Scholarship @ Rs.31,000/- per month for first two years and @Rs.35000/- per month for third year + Rs.10,000/- contingent grant per Annum to 69 candidates admitted at IARI, New Delhi as per the list given below:

| S. | NAME OF THE STUDENT | ROLL | DISCIPLINE | DATE of |
|-----|-------------------------------------|-------|--------------------------|------------|
| No. | | NO. | | ENROLMENT |
| 1. | DebabrataGhoshal | 11661 | Agricultural Chemicals | 28/12/2020 |
| 2. | Harshangkumar GovindbhaiTalaviya | 11662 | -do- | 28/12/2020 |
| 3. | Shreosi Biswas | 11663 | -do- | 28/12/2020 |
| 4. | Partha Chandra Mondal | 11664 | -do- | 28/12/2020 |
| 5. | RajniGodara | 11665 | -do- | 28/12/2020 |
| 6. | Shila Neel | 11666 | -do- | 28/12/2020 |
| 7. | GarimaSethi | 11667 | -do- | 28/12/2020 |
| 8. | Pallavi Singh | 11668 | -do- | 28/12/2020 |
| 9. | Jagjeet Singh | 11681 | Agricultural Engineering | 28/12/2020 |
| 10. | Pradeep Kumar | 11682 | -do- | 28/12/2020 |
| 11. | Harshit Kumar Chauhan | 11683 | -do- | 28/12/2020 |
| 12. | Mude Arjun Naik | 11685 | -do- | 28/12/2020 |
| 13. | SurajGoswami | 11691 | -do- | 28/12/2020 |
| 14. | Shreya Gupta | 11704 | Agricultural Physics | 28/12/2020 |
| 15. | Aatralarasi S | 11705 | -do- | 28/12/2020 |
| 16. | Nandita Mandal | 11706 | -do- | 28/12/2020 |
| 17. | Selvaprakash R | 11707 | -do- | 28/12/2020 |
| 18. | PritamSaha | 11727 | Agronomy | 28/12/2020 |
| 19. | SohelRahaman | 11732 | Biochemistry | 28/12/2020 |
| 20. | Minakshi Dutta | 11734 | -do- | 28/12/2020 |
| 21. | RosalinLaishram | 11735 | -do- | 28/12/2020 |
| 22. | Nandini G A | 11736 | -do- | 28/12/2020 |
| 23. | Anjali Ranjan | 11737 | -do- | 28/12/2020 |
| 24. | BrijeshLekhak | 11738 | -do- | 28/12/2020 |
| 25. | Anandwardhan | 11762 | Environmental Sciences | 28/12/2020 |
| 26. | Ram Krishna Dubey | 11764 | -do- | 28/12/2020 |
| 27. | Mathiyarasi | 11765 | -do- | 28/12/2020 |
| 28. | LukeshwariShyam | 11766 | -do- | 28/12/2020 |
| 29. | Pankaj Kumar Patel | 11767 | -do- | 28/12/2020 |

| 30. | | T | Floriculture and Landscape | |
|-----|-------------------------|-------|-------------------------------------|------------|
| | SaipriyaPanigrahi | 11771 | Architecture | 28/12/2020 |
| 31. | Shantesh Ramesh Kamath | 11772 | -do- | 28/12/2020 |
| 32. | Sindhu K | 11773 | -do- | 28/12/2020 |
| 33. | Deachen Dolma | 11774 | -do- | 28/12/2020 |
| 34. | Sadia Perween | 11804 | Genetics and Plant Breeding | 28/12/2020 |
| 35. | RavinaBeniwal | 11909 | -do- | 28/12/2020 |
| 36. | Amrita Thomas | 11910 | -do- | 28/12/2020 |
| 37. | Mohit Sharma | 11927 | -do- | 23/2/2021 |
| 38. | Shreya Virmani | 11810 | Microbiology | 28/12/2020 |
| 39. | Devashish Pathak | 11812 | -do- | 28/12/2020 |
| 40. | Sudheer K | 11813 | -do- | 28/12/2020 |
| 41. | Nivedha Rm | 11814 | -do- | 28/12/2020 |
| 42. | Priya | 11821 | Molecular Biology and Biotechnology | 28/12/2020 |
| 43. | NitasanaRajkumari | 11822 | -do- | 28/12/2020 |
| 44. | Priyanka Kumari | 11928 | -do- | 18/02/2021 |
| 45. | Patel BhumikabenManilal | 11826 | Nematology | 28/12/2020 |
| 46. | PasupuletiSnehalatha | 11827 | -do- | 28/12/2020 |
| 47. | Jithoop D | 11828 | -do- | 28/12/2020 |
| 48. | Chethan Kumar K B | 11832 | Plant Genetic Resources | 28/12/2020 |
| 49. | Pooja Verma | 11833 | -do- | 28/12/2020 |
| 50. | Pavithra Ks | 11850 | Plant Physiology | 28/12/2020 |
| 51. | Menaka M | 11853 | Post Harvest Technology | 28/12/2020 |
| 52. | Misha Poddar | 11854 | -do- | 28/12/2020 |
| 53. | Vinod B R | 11855 | -do- | 28/12/2020 |
| 54. | Lekshmi S G | 11856 | -do- | 28/12/2020 |
| 55. | Sukanya Mam | 11922 | -do- | 28/12/2020 |
| 56. | Gouthami Shiva Swamy | 11926 | -do- | 05/01/2021 |
| 57. | MonalishaSahoo | 11862 | Seed Science and Technology | 28/12/2020 |
| 58. | Yamanappa | 11863 | -do- | 28/12/2020 |
| 59. | Narender Pal | 11866 | -do- | 28/12/2020 |
| 60. | Dewali Roy | 11878 | -do- | 28/12/2020 |
| 61. | Rakshitha K N | 11885 | Vegetable Science | 28/12/2020 |
| 62. | Yogananda M | 11888 | -do- | 28/12/2020 |
| 63. | SairamArpula | 11896 | Water Science and Technology | 28/12/2020 |
| 64. | Gokulraj S | 11897 | -do- | 28/12/2020 |
| 65. | Shivani Sanjay Buddekar | 11898 | -do- | 28/12/2020 |
| 66. | Suryanshu Yadav | 11899 | -do- | 28/12/2020 |
| 67. | GaddamSidhartha | 11900 | -do- | 28/12/2020 |
| 68. | Vishnu Prasad | 11901 | -do- | 28/12/2020 |
| 69. | B Soujanya | 11902 | -do- | 28/12/2020 |

415.4.5 Award of Institute's Sr. Scholarship @ Rs.31,000/- per month + Rs.10,000/- contingent grant for first two years and @ Rs.35,000/- per month + Rs.10,000- for third year to the following 02 students admitted at CIAE, Bhopal under IARI PG Outreach Programme

| S.No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|----------------------|---------|--------------------------|----------------|
| 1. | Praween Kumar Nishad | 11678 | Agricultural Engineering | 28/12/2020 |
| 2. | Anni Kumar Singh | 11687 | do | 28/12/2020 |

415.4.6 Award of Institute's Sr. Scholarship @ Rs.31,000/- per month + Rs.10,000/- contingent grant for first two years and @ Rs.35,000/- per month + Rs.10,000- for third year to the following 09 students admitted at IIHR, Bengaluru under IARI PG Outreach Programme

| S.No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|------------------------|---------|---|----------------|
| 1. | Labdhi Dilip Dedhia | 11777 | Floriculture and Landscape Architecture | 28/12/2020 |
| 2. | Poojitha S R | 11929 | -do- | 21/02/2021 |
| 3. | NikhilaVaagdeviAnumala | 11930 | -do- | 18/02/2021 |
| 4. | Rakesh Jangid | 11931 | Fruit Science | 20/02/2021 |
| 5. | Ajay Kumar | 11932 | -do- | 19/02/2021 |
| 6. | Chandini M | 11857 | Post Harvest Technology | 28/12/2020 |
| 7. | Pavankumar M | 11858 | -do- | 05/0212021 |
| 8. | SudeshnaKharga | 11894 | Vegetable Science | 28/12/2020 |
| 9. | Meghana D | 11933 | -do- | 18/02/2021 |

415.4.7 Award of Institute's Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 6 (5 IARI + 1 IIHR) students who were admitted under Faculty Up-gradation Scheme/ICAR-Inservice Scheme/ Inservice Candidate of Open scheme.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-----------|---|---------|--------------------------------------|----------------|
| 1. | Satish Kumar, IARI KATRAIN (DEPTT T.) | 11911 | Microbiology | 21/01/2021 |
| 2. | Utkarsh Kumar, VPKAS ALMORA (ICAR-IN SERVICE) | 11905 | Agricultural Engineering | 28/12/2020 |
| 3. | Paresh Baldeorao Chaukhande, CPRI SHIMLA, (ICAR-IN SERVICE) | 11920 | Vegetable Science | 29/12/2020 |
| 4. | Gujjala Narayana Swamy, ANGRAU, GUNTUR, FUS | 11919 | Vegetable Science, IIHR Bengaluru | 24/12/2020 |
| 5. | Monika Singh, ICAR-CISH, LUCKNOW, (OPEN SCHEME In-Service) | 11753 | Computer Application | 01/01/2021 |
| 6. | Karnena Koteswara Rao, ICAR- RCER, PATNA, (ICAR-IN SERVICE) | 11915 | Soil Science | 28/12/2020 |

415.4.8 Award of Contingent grant only @ Rs.10,000/- per annum to the following six (6 IARI) Departmental Technical Candidates working at the same station.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|--------|---------------------------------|---------|-----------------|----------------|
| 1. | Sunita Yadav, IARI New Delhi | | | 29/01/2021 |
| | (DEPTT S.) | 11916 | Soil Science | 23/01/2021 |
| 2. | Kamlesh Kumar Lakhena, IARI New | | | 28/12/2020 |
| | Delhi (DEPTT T.) | 11906 | Agronomy | |
| 3. | Ashok Kumar, IARI New Delhi | | | 28/12/2020 |
| | (DEPTT T.) | 11923 | do | |
| 4. | Ainmisha, IARI New Delhi (DEPTT | | | 03/01/2021 |
| | T.) | 11912 | Plant Pathology | |
| 5. | Binder Singh, IARI New Delhi | | | 03/01/2021 |
| | (DEPTT T.) | 11917 | Soil Science | |
| 6. | Rameshwar Dayal Meena, Iari New | | | 28/12/2020 |
| | Delhi (DEPTT T.) | 11918 | do | |

415.4.9 Following 20 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Institute Sr. Scholarship from IASRI, New Delhi.

| S.NO. | NAME OF THE STUDENT | ROLL NO. | DISCIPLINE | DATE OF ENROL. |
|-------|-----------------------|----------|-------------------------|----------------|
| 1. | G Avinash | 11711 | Agricultural Statistics | 28/12/2020 |
| 2. | Bijoy Chanda | 11712 | -do- | 28/12/2020 |
| 3. | NehataiWamanraoAgashe | 11713 | -do- | 28/12/2020 |
| 4. | MoumitaBaishya | 11714 | -do- | 28/12/2020 |
| 5. | Kamal Sharma | 11715 | -do- | 28/12/2020 |
| 6. | Rishabh Singh Shyam | 11716 | -do- | 28/12/2020 |
| 7. | Sharanbasappa | 11739 | Bioinformatics | 28/12/2020 |
| 8. | Parinita Das | 11740 | -do- | 28/12/2020 |
| 9. | Mailaralinga | 11741 | -do- | 28/12/2020 |
| 10. | Mamatha Y S | 11742 | -do- | 28/12/2020 |
| 11. | NainaKumari | 11743 | -do- | 28/12/2020 |
| 12. | Princy | 11744 | -do- | 28/12/2020 |
| 13. | NimaiCharanMahanandia | 11745 | -do- | 28/12/2020 |
| 14. | Anupama Roy | 11746 | -do- | 28/12/2020 |
| 15. | TamalKundu | 11747 | Computer Application | 28/12/2020 |
| 16. | Mohit Kumar | 11748 | -do- | 28/12/2020 |
| 17. | Sowndarya C A | 11749 | -do- | 28/12/2020 |
| 18. | Lalit Birla | 11750 | -do- | 28/12/2020 |
| 19. | ShaliniKumari | 11751 | -do- | 28/12/2020 |
| 20. | VtShalini | 11752 | -do- | 28/12/2020 |

415.4.10 The Standing Committee did not recommend award of Institute's Sr. Scholarship to the following six In-service students as they have already availed the benefit of Scholarship during their last admission at IARI for the same programme and left the course incomplete. Further, the Standing Committee was also of the view that necessary recovery on account of Surety Bond, Fellowship, etc. as per rules may also be made from these students, if due. Further, to avoid second time award of fellowship, a suitable undertaking to the effect that the students has not availed the benefit of Scholarship for the same programme earlier from or through IARI/ICAR, may be obtained.

| S.N O. | NAME OF THE STUDENT | ROLL NO. | DISCIPLINE | DATE OF ENROL. |
|-----------|--|-------------|-----------------------------|----------------|
| 1. | Borkar Narayan Totaram, ICAR- NRRI ODISHA, OPEN SCHEME, In-Service | 11686 | Agricultural Engineering | 28/12/2020 |
| 2. | Lal Chand, ICAR-CIAH BIKANER, OPEN SCHEME In- Service | 11787 | Fruit Science | 28/12/2020 |
| 3. | Bhargavi, H. A., IGFRI JHANSHI, (ICAR-IN SERVICE | 11908 | Genetics and Plant Breeding | 28/12/2020 |
| 4. | Abhishek Jangir NBSS LUP), (ICAR-IN SERVICE | 11913 | Soil Science | 05/01/2021 |
| 5. | Jogendra Singh, IARI NEW DELHI, (DEPTT S) | 11921 | Vegetable Science | 29/12/2020 |
| 6. | Nand Lal Meena, NBPGR NEW DELHI, (DEPTT S) | 11907 | Biochemistry | 08/01/2021 |

415.4.11 Award of IARI Jr. Scholarship to M.Sc./M.Tech. students admitted during 2020-21 academic session was considered. During the Academic Session 2020-21, a total number of 239 candidates were admitted to M.Sc./M.Tech. degree programme under different Schemes at IARI and IARI PG Outreach Institutes. On the basis of

application/undertaking/proforma submitted by the students, forwarded by the concerned Professors and duly verified by the PGS-II Section, the Standing Committee made the following recommendations.

415.4.12 As per P.G. School Calendar para 15.3.3 and 15.3.5, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. The payment of Scholarship/Fellowship shall be reviewed at the end of 2nd Semester and only those students will be permitted to continue getting fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of 2nd Semester (Commencement of the Academic Year 2020-21 is 28.12.2020).

415.4.13 167 students enrolled at IARI, New Delhi/IARI Assam/IARI Jharkhand/IIAB Ranchi/NIASM Baramati/NIBSM Raipur who are eligible for ICAR-PG Scholarship@Rs.12640/- per month + Rs. 6,000/- will get their Fellowship from ICAR.

NAME OF THE ROLL S. NO. STUDENT NO DISCIPLINE DATE ENROL INSTITUTE IARI, NEW Agricultural Soumyajit Ghoshal Chemicals 21381 28/12/2020 **DELHI** Agricultural 28/12/2020 -do-2 Stanishkar T S 21391 **Economics** -do-28/12/2020 -do-3 Sunil Naik 21390 -do-28/12/2020 -do-4 Ragini P Jambagi 21389 -do-28/12/2020 -do-5 Pavithra 21388 -do-28/12/2020 -do-6 Likhitha.S 21387 Agricultural 28/12/2020 -do-Santosh Kumar Ray 21403 Engineering 28/12/2020 -do--do-8 Resham Chawla 21402 Gauri Umeshrao -do-28/12/2020 -do-Bhagole 21401 -do-28/12/2020 -do-10 Akshay Kumar 21400 -do-28/12/2020 -do-11 Pooja Sakthi Rama S 21399 -do-28/12/2020 -do-Kupendra Babu R 12 21396 -do-28/12/2020 -do-13 Karishma Kumari 21394 -do-28/12/2020 -do-14 Juhi Ranjan 21392 Agricultural 28/12/2020 -do-15 Shreekant 21410 Extension -do-28/12/2020 -do-16 Ananda K R 21408 -do-28/12/2020 -do-17 Ankit Pal 21407 -do-28/12/2020 -do-18 Bhaskar Ghosh 21406 -do-28/12/2020 -do-19 Alok Dube 21405 -do-28/12/2020 -do-20 Veesam Haripriya 21404 28/12/2020 -do-21 Sudipta Basu 21411 Agricultural Physics Agricultural 28/12/2020 -do-22 Pathi Devendra Kumar 21423 Statistics -do-28/12/2020 -do-23 Anita Sarkar 21421 -do-28/12/2020 -do-24 Ankit Kumar Singh 21417 -do-28/12/2020 -do-25 Bappa Saha 21416 28/12/2020 -do-Manjunatha M A 26 21429 Agronomy 28/12/2020 -do--do-27 Pranab Ranjan Sahu 21428 -do-28/12/2020 -do-28 Tarun Sharma 21427 -do-28/12/2020 29 -do-Rakesh Prajapati 21426 -do-28/12/2020 30 Ayan Sarkar -do-21425

| 31 | Vipin Kumar | 21424 | -do- | 28/12/2020 | -do- |
|-----|---------------------------------|-------|---|------------|------|
| 32 | Harish Dhal | 21433 | Biochemistry | 28/12/2020 | -do- |
| 33 | Durga Lakshmi | 21432 | -do- | 28/12/2020 | -do- |
| 34 | Pradyumn Dasharath Ghatate | 21431 | -do- | 28/12/2020 | -do- |
| 35 | Tejveer Singh | 21430 | -do- | 28/12/2020 | -do- |
| 36 | Soutrik Mukherjee | 21438 | Bioinformatics | 28/12/2020 | -do- |
| 37 | Sauvik Chatterjee | 21444 | Computer Application | 28/12/2020 | -do- |
| 38 | Jarpla Mounika | 21444 | Entomology | 28/12/2020 | -do- |
| 39 | Reshma R | 21454 | -do- | 28/12/2020 | -do- |
| 40 | Chandana G B | 21453 | -do- | 28/12/2020 | -do- |
| 41 | Vavilapalli Rajesh | 21452 | -do- | 28/12/2020 | -do- |
| 42 | Neelakanta Raja Rushi | 21451 | -do- | 28/12/2020 | -do- |
| 43 | Karthik Reddy M | 21430 | -do- | 28/12/2020 | -do- |
| 44 | Thesnim P | 21449 | -do- | 28/12/2020 | -do- |
| 44 | Theshin P | 21448 | Environmental | 28/12/2020 | -do- |
| 45 | Bharath M N | 21459 | Sciences | 20/12/2020 | -40- |
| 46 | Azhar Mehmood | 21455 | -do- | 28/12/2020 | -do- |
| 47 | Naveen Kumar Myadam | 21466 | Floriculture and Landscape Architecture | 28/12/2020 | -do- |
| 48 | Vamsi Yarra | 21465 | -do- | 28/12/2020 | -do- |
| 49 | Eram Arzoo | 21464 | -do- | 28/12/2020 | -do- |
| 50 | Khushboo Faroog | 21463 | -do- | 28/12/2020 | -do- |
| 51 | Nivya K R | 21462 | -do- | 28/12/2020 | -do- |
| 52 | Akshay | 21472 | Fruit Science | 05/01/2021 | -do- |
| 53 | Vasudev.N | 21472 | -do- | 28/12/2020 | -do- |
| 54 | Gulshan Kumar | 21471 | -do- | 28/12/2020 | -do- |
| 55 | Vittal Hatkari | 21469 | -do- | 28/12/2020 | -do- |
| 56 | Amina Shukoor | 21468 | -do- | 28/12/2020 | -do- |
| 57 | Kalieswari K | 21467 | -do- | 28/12/2020 | -do- |
| 58 | Abhirup Mazumder | 21480 | Genetics and Plant Breeding | 28/12/2020 | -do- |
| 59 | Ankit Dawar | 21479 | -do- | 28/12/2020 | -do- |
| 60 | Lovely Arya | 21479 | -do- | 28/12/2020 | -do- |
| 61 | Mayank Kumar Sinha | 21478 | -do- | 28/12/2020 | -do- |
| 62 | Amiruddinali Husensab Bijjur | 21477 | -do- | 28/12/2020 | -do- |
| 63 | Premakumar | 21475 | -do- | 28/12/2020 | -do- |
| 64 | Swarnadip Ghosh | 21473 | -do- | 28/12/2020 | -do- |
| 65 | Vadla Chandrika | 21474 | -do- | 28/12/2020 | -do- |
| 66 | Brunda B N | | | 28/12/2020 | -do- |
| 67 | | 21487 | Microbiology -do- | 28/12/2020 | -do- |
| 68 | Koj Haniya | 21486 | -do- | 28/12/2020 | -do- |
| 69 | Manoj S H | 21484 | -do- | 28/12/2020 | -do- |
| 70 | Roopam Kumawat Haritha G | 21483 | -do- | 28/12/2020 | -do- |
| 71 | | 21482 | -do- | 28/12/2020 | -do- |
| / 1 | Yaadesh S | 21481 | Molecular Biology | 28/12/2020 | -do- |
| 72 | Ramesh R | 21495 | and Biotechnology | | |
| 73 | Nuzat Banu | 21494 | -do- | 28/12/2020 | -do- |
| 74 | Manish Dev Pratap | 21493 | -do- | 28/12/2020 | -do- |

| 75 | Yogesh Kumar S | 21492 | -do- | 28/12/2020 | -do- |
|-----|------------------------|--------|-----------------------------|--|------|
| 76 | Pyla Bhuvaneswari | 21491 | -do- | 28/12/2020 | -do- |
| 77 | Rishika K S | 21490 | -do- | 28/12/2020 | -do- |
| 78 | Adil Rahim Magray | 21490 | -do- | 28/12/2020 | -do- |
| 79 | Sagnik Chanda | 21488 | -do- | 28/12/2020 | -do- |
| 80 | Naveenkumar K R | 21499 | | 28/12/2020 | -do- |
| 81 | Amulya K N | 21499 | Nematology -do- | 28/12/2020 | -do- |
| 82 | Aabid Hussain Sheikh | 21498 | -do- | 28/12/2020 | -do- |
| 83 | Monika | 21497 | -do- | 28/12/2020 | -do- |
| 83 | WIOIIIKa | 21490 | Plant Genetic | 28/12/2020 | -do- |
| 84 | Latief Bashir | 21501 | Resources | 20/12/2020 | -40 |
| 85 | Amjada S Khan | 21514 | Plant Pathology | 28/12/2020 | -do- |
| 86 | Chemy Doker | 21513 | -do- | 28/12/2020 | -do- |
| 87 | Ram Mohan | 21512 | -do- | 28/12/2020 | -do- |
| 88 | Dudekula Hamida | 21510 | -do- | 28/12/2020 | -do- |
| 89 | Nishith Reddy Yaratha | 21509 | -do- | 28/12/2020 | -do- |
| | Dornadula Venkata | | -do- | 28/12/2020 | -do- |
| 90 | Dinesh | 21508 | | | |
| 91 | Velmurugan S | 21507 | -do- | 28/12/2020 | -do- |
| 92 | Prashant Patidar | 21506 | -do- | 28/12/2020 | -do- |
| 93 | Pavithra K | 21520 | Plant Physiology | 28/12/2020 | -do- |
| 94 | Gopal Masanta | 21519 | -do- | 28/12/2020 | -do- |
| 95 | Purbali Mukherjee | 21518 | -do- | 28/12/2020 | -do- |
| 96 | Baiarilang Chyne | 21517 | -do- | 28/12/2020 | -do- |
| 97 | Mouneesh Kumar M | 21515 | -do- | 28/12/2020 | -do- |
| 98 | Rahul Kumar Thakur | 21527 | Post Harvest Technology | 28/12/2020 | -do- |
| | Shubhangi Venkatchari | 21321 | -do- | 28/12/2020 | -do- |
| 99 | Arvelli | 21526 | | | 700 |
| 100 | Abarna S | 21525 | -do- | 28/12/2020 | -do- |
| 101 | Neethu K | 21522 | -do- | 28/12/2020 | -do- |
| 102 | Rajan Mahendra | 21521 | -do- | 28/12/2020 | -do- |
| 102 | Davida Marilla Carilla | 21.524 | Seed Science and | 28/12/2020 | -do- |
| 103 | Barla Madhu Sudhan | 21534 | Technology Seed Science And | 28/12/2020 | 4- |
| 104 | Srikant | 21533 | Technology | 26/12/2020 | -do- |
| 105 | Gaurav | 21532 | -do- | 28/12/2020 | -do- |
| 106 | Rajan Vishal | 21531 | -do- | 28/12/2020 | -do- |
| 107 | Poomani S | 21530 | -do- | 28/12/2020 | -do- |
| 108 | Hariprasad S K | 21529 | -do- | 28/12/2020 | -do- |
| 109 | Abhik Roy | 21528 | -do- | 28/12/2020 | -do- |
| 110 | Manindra Barman | 21540 | Soil Science | 28/12/2020 | -do- |
| 111 | Prince Kumar | 21538 | -do- | 28/12/2020 | -do- |
| 112 | Bikramjit Mandal | 21537 | -do- | 28/12/2020 | -do- |
| 113 | Priyanka Patel | 21536 | -do- | 28/12/2020 | -do- |
| 114 | Ann Theresa Jose | 21535 | -do- | 28/12/2020 | -do- |
| 115 | Shreyas Aradhya C S | 21545 | Vegetable Science | 28/12/2020 | -do- |
| 116 | Ganesh H K | 21544 | -do- | 28/12/2020 | -do- |
| 117 | Manjunath K S | 21543 | -do- | 28/12/2020 | -do- |
| 118 | Neha Kumari Mandal | 21542 | -do- | 28/12/2020 | -do- |
| | Mallikarjun Basayya | 21312 | -do- | 28/12/2020 | -do- |
| 119 | Hiremath | 21541 | | and the second of the second o | |

| 120 | Bhawna Verma | 21546 | Water Science and Technology | 28/12/2020 | -do- |
|-----|----------------------------------|-------|---------------------------------|------------|--------------------|
| 121 | M E Krishna Babu | 50063 | Agronomy | 28/12/2020 | IARI, ASSAM |
| 122 | Mrinal Sen | 50062 | -do- | 28/12/2020 | -do- |
| 123 | V Om Subham Raju | 50061 | -do- | 28/12/2020 | -do- |
| 124 | Meda.Alekya | 50066 | Genetics and Plant Breeding | 28/12/2020 | -do- |
| 125 | Deepak M P | 50065 | -do- | 28/12/2020 | -do- |
| 126 | Haragopal Dutta | 50064 | -do- | 28/12/2020 | -do- |
| 127 | Goutam Parida | 50069 | Soil Science | 28/12/2020 | -do- |
| 128 | Saloni Tripathy | 50068 | -do- | 28/12/2020 | -do- |
| 129 | Mayurakshi Chanda | 50067 | -do- | 28/12/2020 | -do- |
| 130 | Poornima H P | 50072 | Vegetable Science | 28/12/2020 | -do- |
| 131 | Mallikarjuna K N | 50071 | -do- | 28/12/2020 | -do- |
| 132 | Sikha Manoharan | 50070 | -do- | 28/12/2020 | -do- |
| 133 | Thogata Nagaraju | 60064 | Agricultural Extension | 28/12/2020 | IARI, JHARKHAND |
| 134 | Rajat Kumar Nath | 60062 | -do- | 28/12/2020 | -do- |
| 135 | Abhijit Mandal | 60066 | Agronomy | 28/12/2020 | -do- |
| 136 | Soumyadarshi Muduli | 60065 | -do- | 28/12/2020 | -do- |
| 137 | Rayudu Sai Padmini | 60068 | Entomology | 28/12/2020 | -do- |
| 138 | Pooja Kumari | 60067 | -do- | 28/12/2020 | -do- |
| 139 | Amar Ba | 60073 | Fruit Science | 28/12/2020 | -do- |
| 140 | Vasanth Vinayak Vara Prasad N | 60072 | -do- | 28/12/2020 | -do- |
| 141 | Abeer Ali | 60071 | -do- | 28/12/2020 | -do- |
| 142 | Shweta Pandhari Sathawane | 60079 | Genetics and Plant Breeding | 28/12/2020 | -do- |
| 143 | Abhijeet Mudhale | 60078 | -do- | 28/12/2020 | -do- |
| 144 | Suraj Mishra | 60077 | -do- | 28/12/2020 | -do- |
| 145 | Abhishek E | 60076 | -do- | 28/12/2020 | -do- |
| 146 | Shivaraj Ramapur | 60075 | -do- | 28/12/2020 | -do- |
| 147 | Vinodh Kumar P N | 60074 | -do- | 28/12/2020 | -do- |
| 148 | Saniya T K | 60081 | Microbiology | 28/12/2020 | -do- |
| 149 | S Syam | 60080 | -do- | 28/12/2020 | -do- |
| 150 | Chandu Anagani | 60083 | Plant Pathology | 28/12/2020 | -do- |
| 151 | Komal | 60082 | -do- | 28/12/2020 | -do- |
| 152 | Abshiba | 60088 | Soil Science | 28/12/2020 | -do- |
| 153 | Deepasree A | 60087 | -do- | 28/12/2020 | -do- |
| 154 | Adarsha Divyadarshan | 60086 | -do- | 28/12/2020 | -do- |
| 155 | Aravindh Chinnaiyan | 60092 | Vegetable Science | 28/12/2020 | -do- |
| 156 | Rachana K S | 60091 | -do- | 28/12/2020 | -do- |
| 157 | Manoj B P | 60090 | -do- | 28/12/2020 | -do- |
| 158 | Dharmendra Kumar | 70002 | Agricultural Engineering | 28/12/2020 | NIASM, BARAMATI |
| 150 | Doulomi Delevert | 00000 | A | 28/12/2020 | NIBSM, |
| 159 | Poulomi Debnath | 80002 | Agronomy | 28/12/2020 | RAIPUR -do- |
| 160 | Rohan Dalal | 80001 | -do- | 28/12/2020 | -do- |
| 161 | Priyanshu Pawar | 80004 | Entomology | 28/12/2020 | -do- |
| 162 | Pravin Panda | 80003 | -do- Genetics and Plant | | 10-20-5 |
| 163 | Deepankar Tiwari | 80005 | Breeding | 28/12/2020 | -do- |

| 164 | Swagata Thakur | 80009 | Plant Pathology | 28/12/2020 | -do- |
|-----|--------------------|-------|--------------------|------------|--------|
| | Bellary Nunna Hari | | Genetics and Plant | 28/12/2020 | IIAB, |
| 165 | Vijaya Teja | 90004 | Breeding | | RANCHI |
| 166 | Shubham Sachan | 90003 | -do- | 28/12/2020 | -do- |
| 167 | Mahak Anwar | 90002 | -do- | 28/12/2020 | -do- |

415.4.14 Award of Institute's Jr. Scholarship @ Rs.7,560/- per month + Rs.6,000/- contingent grant per Annum to 57 candidates admitted at IARI, New Delhi including the students who have been placed under outreach programme at IARI Assam/ IARI Jharkhand/ NIASM Baramati/ NIBSM Raipur/ IIAB Ranchi.

LIST OF STUDENTS ENROLLED AT IARI NEW DELHI/IARI ASSAM/IARI JHARKHAND/IIAB RANCHI/NIASM BARAMATI/NIBSM RAIPUR IN M.SC. PROGRAMME IN THE ACADEMIC YEAR 2020-2021 ELIGIBLE FOR INSTITUTE SCHOLARSHIP @ Rs. 7560/- P.M. WITH CONTINGENCY @ Rs. 6000/-P.A.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE_ENROL | |
|--------|--|---------|------------------------------|------------|--|
| 1. | Joydeep Karan | 21382 | Agricultural Chemicals | 28/12/2020 | |
| 2. | Dharini A K | 21383 | -do- | 28/12/2020 | |
| 3. | Brendon Lalchawimawia | 21384 | -do- | 28/12/2020 | |
| 4. | JeetramChoudhary | 21385 | -do- | 28/12/2020 | |
| 5. | Atanu Sarkar | 21386 | -do- | 28/12/2020 | |
| 6. | Yashaswini S.N | 21393 | Agricultural Engineering | 28/12/2020 | |
| 7. | RohitAnand | 21395 | -do- | 28/12/2020 | |
| 8. | ShailendraToppo | 21397 | -do- | 28/12/2020 | |
| 9. | Uday Kiran M | 21398 | -do- | 28/12/2020 | |
| 10. | Shaibal Biswas | 21409 | Agricultural Extension | 28/12/2020 | |
| 11. | BhavyaTr | 21412 | Agricultural Physics | 28/12/2020 | |
| 12. | AbhilashaKumari | 21413 | -do- | 28/12/2020 | |
| 13. | Debjyoti Ray | 21414 | -do- | 28/12/2020 | |
| 14. | Deepti Joshi | 21415 | -do- | 28/12/2020 | |
| 15. | Unnita Chakraborty | 21434 | Biochemistry | 28/12/2020 | |
| 16. | Apoorva M S | 21456 | Environmental Sciences | 28/12/2020 | |
| 17. | Anushka Anil | 21457 | -do- | 28/12/2020 | |
| 18. | Yadaraboyana Sandeep Kumar | 21458 | -do- | 28/12/2020 | |
| 19. | Rishabh Srivastava | 21460 | -do- | 28/12/2020 | |
| 20. | Gulshan | 21461 | -do- | 28/12/2020 | |
| 21. | Jahid Hassan | 21485 | Microbiology | 28/12/2020 | |
| 22. | Anamika | 21500 | Nematology | 28/12/2020 | |
| 23. | Thendral U S | 21502 | Plant Genetic Resources | 28/12/2020 | |
| 24. | RinkyResma Panda | 21503 | -do- | 28/12/2020 | |
| 25. | Shashank H G | 21504 | -do- | 28/12/2020 | |
| 26. | Sridhar A | 21505 | -do- | 28/12/2020 | |
| 27. | AartiSharadchandraGauns | 21511 | Plant Pathology | 28/12/2020 | |
| 28. | Dineshkumar G | 21516 | Plant Physiology | 28/12/2020 | |
| 29. | Rohith R Hegde | 21551 | -do- | 28/12/2020 | |
| 30. | PrasoonGunjan | 21523 | Post Harvest Technology | 28/12/2020 | |
| 31. | Brijesh Kumar Yadav | 21561 | -do- | 19/02/2021 | |
| 32. | Ankireddypalli Jaya Kishore Kumar Reddy | 21539 | Soil Science | 28/12/2020 | |
| 33. | Dheeraj | 21553 | Vegetable Science | 28/12/2020 | |
| 34. | SumitJangra | 21547 | Water Science And Technology | 28/12/2020 | |
| 35. | Arul Selvam K A | 21548 | -do- | 28/12/2020 | |

| 36. | Chinnali Das | 50073 | Agronomy | 28/12/2020 |
|-----|------------------------|-------|-----------------------------|------------|
| 37. | Abhishek Paul | 60061 | Agricultural Engineering | 28/12/2020 |
| 38. | SayakSaha | 60063 | Agricultural Extension | 28/12/2020 |
| 39. | Surendhar P | 60069 | Environmental Sciences | 28/12/2020 |
| 40. | Ankit Kumar Verma | 60070 | -do- | 28/12/2020 |
| 41. | PriyabrataSahu | 60084 | Seed Science And Technology | 28/12/2020 |
| 42. | BhavaniKumari | 60085 | -do- | 28/12/2020 |
| 43. | SaikatBera | 60089 | Soil Science | 28/12/2020 |
| 44. | RajarshiSanyal | 90001 | Biochemistry | 28/12/2020 |
| 45. | Yashaswini J | 90005 | Genetics And Plant Breeding | 28/12/2020 |
| 46. | SampatiraoDilip | 90006 | Molecular Biology And | 28/12/2020 |
| | | | Biotechnology | |
| 47. | MalempatiSriharsha | 90007 | -do- | 28/12/2020 |
| 48. | Olivia Nianglunhoih | 90008 | -do- | 28/12/2020 |
| 49. | PragatiSudhakarGajbhar | 90009 | -do- | 28/12/2020 |
| 50. | GoutamGuruprasad Jena | 70001 | Agricultural Engineering | 28/12/2020 |
| 51. | Siddesh | 70003 | Environmental Sciences | 28/12/2020 |
| 52. | Sadashiva G N | 70004 | -do- | 28/12/2020 |
| 53. | Tamilselvan A | 70006 | Plant Physiology | 28/12/2020 |
| 54. | Sagar P | 70007 | Plant Physiology | 28/12/2020 |
| 55. | Merugu Shashank Goud | 80006 | Microbiology | 19/02/2021 |
| 56. | AnikBasak | 80007 | Molecular Biology And | 28/12/2020 |
| | | | Biotechnology | |
| 57. | LerissaSweetyDsilva | 80008 | -do- | 28/12/2020 |

415.4.15 Award of Contingent grant only @ Rs.6,000/- per annum to the following two (IARI) Departmental Technical Candidates working at the same station.

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|--------|---------------------|---------|--------------|----------------|
| 1. | Mukesh Kumar Yadav | 21549 | Agronomy | 03/01/2021 |
| 2. | Ram BharosMeena | 21552 | Soil Science | 05/01/2021 |

415.4.16 Award of Institute's Jr. Scholarship @ Rs.7,560/- per month + Rs.6,000/- contingent grant per Annum to Following 13 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Institute Jr. Scholarship from IASRI, New Delhi.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|----------------------------|------------|----------------------------|----------------|
| 1. | Ghanshyam Patidar | 21418 | Agricultural Statistics | 28/12/2020 |
| 2. | Gunjan | 21419 | -do- | 28/12/2020 |
| 3. | Rabsanjani Pramanik | 21420 | -do- | 28/12/2020 |
| 4. | Santosh Shivaling Chougala | 21422 | -do- | 28/12/2020 |
| 5. | Chandini B C | 21436 | Bioinformatics | 28/12/2020 |
| 6. | Madhusudhan Cm | 21556 | -do- | 19/02/2021 |
| 7. | Kabilan S | 21557 | -do- | 19/02/2021 |
| 8. | Vanaja V | 21441 | Computer Application | 28/12/2020 |
| 9. | Pavana B | 21442 | -do- | 28/12/2020 |
| 10. | Vivek Dinkar Jadhao | 21443 | -do- | 28/12/2020 |
| 11. | Sakshi Rawat | 21558 | -do- | 18/02/2021 |
| 12. | Akash | 21559 | -do- | 19/02/2021 |
| 13. | Tanvi Kumari | 21560 | -do- | 19/02/2021 |

Agenda Item No. 415.5.: Consideration of observation of National Agricultural Education Accreditation Board(NAEAB) of ICAR on granting accreditation to IARI, New Delhi

The Academic Council was apprised that based on the LoI, IEA, Statement of Compliance and Self Study Report submitted by the University and subsequent report of Peer Review Team, the National Agricultural Education Accreditation Board of ICAR in its XXVII meeting held on 24 February, 2021 approved accreditation of ICAR- Indian Agricultural Research Institute for a period of five years i.e. from 16.03.2020 to 15.03.2025. The University has received overall score of 3.43 equivalent to Grade 'A'.

Accreditation has been granted with the following conditions:-

- 1. The University is required to address the observations of the Board in a time bound manner. As per Board decision, a Mid-term review will be conducted.
- 2. Board further decided that student intake in the programme and strength of Faculty/technical/supporting staff as listed in Self Study Reports and undertaking given by Registrar during Peer Review, if any, must be maintained by the University/College/Programme throughout the accreditation period.
- 3. University should annually upload intake of students in all accredited programmes and faculty positions on its website and convey the copy of same to NAEAB before starting of admissions.

The following Degree Programmes were **not approved** as these are not listed in BSMA (ICAR), which is pre-requisite qualification for accreditation:-

• Environmental Sciences - M.Sc. (Ag.)

Ph.D.

Post Harvest Technology
 M.Sc. (Ag.) PHT Hort. Crop

• (PHT; Horticultural Crops; Post Harvest - M.Tech. PHT

Engineering and Technology)

- Ph.D. in PHTHort Crop

Ph.D. in PH Eng Tech

- Ph.D. in PH-Eng.Tech

• Water Science and Technology - M.Sc. (Ag.)

Ph.D.

Agenda Item No. 415.6: Considerations of degree nomenclature of M.Sc. and Ph.D. of PHT discipline.

The Academic Council discussed the recommendation of the committee constituted under the Chairmanship of Head, Agricultural Engineering and approved the (i) proposed degree nomenclature of M.Sc. Agriculture (Postharvest Technology) and Ph.D. (Postharvest Technology) changed as M.Sc. (Horticulture) Postharvest Management and Ph.D. (Horticulture) Postharvest Management and, (ii) discontinuation of M.Tech. and Ph.D. degree in Postharvest Engineering & Technology.

Agenda Item No. 415.7 Consideration of the proceedings of the meeting of the Standing Committee on Course Curricula and Academic Affairs held on 17.07.2021 to discuss three non-accredited programmes

The Academic Council discussed the recommendation of the Standing Committee on three non-accedited programmes in detail and approved the (i) merger of sub-discipline 'Postharvest Technology of Horticultural Crops' with the sub-discipline of Postharvest Management' under the

discipline of Horticultural Science, and (ii) discontinuation of sub-discipline 'Postharvest Engineering & Technology'.

Academic Council was of the opinion that a request could be sent to the Council for retaining the ongoing degree programmes in the discipline of Water Sciene and Technology and Enivironmental Sciences.

Agenda Item No. 415.8: Consideration of the recommendations of the Committee constituted for revision of guidelines of existing institute awards and framing guidelines for new awards

- 415.8.1 The Academic Council after detailed deliberation approved the recommendations of the Committee constituted under the Chairmanship of Dean and Joint Director(Edn.) on the Guidelines, Proforma and allocation of marks for the following three new awards (Appendix-I).
 - 1. Best Woman Scientist Award
 - 2. Dr. H.K. Jain Memorial Young Scientist Award
 - 3. NABARD Young Scientist Award

The Academic Council also decided that (i) three years cooling period for a previous awardee(IARI awards) to apply for any other IARI award, and (ii) an applicant can be eligible to apply for only one award of IARI announced for that particular year.

- 415.8.2: The Academic Council discussed the recommendation of the Committee on the proposal of NABARD for Institution of NABARD Gold Medal Award at IARI, New Delhi. The Academic Council decided that the IARI Best Student of the year awardee in M.Sc. and Ph.D. will also be given NABARD Gold Medal award with a cash prize of Rs.25000 to each. The Academic Council also opined that the said Medals may be named as Prof. V.L. Chopra-NABARD Gold Medal, subject to approval from NABARD.
- 415.8.3 On the issue of revision of guidelines for the existing awards of IARI, the Academic Council decided that the changes may suitably be incorporated on the line of the above three new awards.

Agenda Item No. 415.9: Finalization of number of seats for admission to M.Sc./M.Tech. and Ph.D. degree programmes at IARI, New Delhi and at PG outreach institutions for the Academic Session 2021-22

The Academic Council finalised the number of seats for M.Sc./M.Tech. and Ph.D. programmes in various disciplines at IARI and PG outreach Institutions for the Academic Session 2021-22.

M.Sc./M.Tech. and Ph.D. Programme: The seat requirement will be sent to the Education Division of ICAR as they conduct the All India Entrance Examination 2021 for admission of 100% seats at ICAR-DUs.

Discipline and category wise Seat positions for M.Sc./M.Tech. Programmes at IARI, New Delhi, IARI-Assam and IARI-Jharkhand, NIASM, Baramati, NIBSM, Raipur and IIAB, Ranchi.

IARI, NEW DELHI

A - IARI, NEW DELHI

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|-------------------------|---|-----|--|-----|----|----|----|-------|
| 1. | AGRICULTURAL CHEMICALS | 3 | 0 | 2 | 1 | 0 | 1 | 6 |
| 2. | AGRICULTURAL ECONOMICS | 3 | 0 | 2 | 0 | 1 | 0 | 6 |
| 3. | AGRICULTURAL ENGG. | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| National Action Control | (Processing & Food Engineering) | | 00000000000000000000000000000000000000 | | | | | |
| 4. | AGRICULTURAL ENGG. | 1 | 1 | 1 | 1 | 1 | 0 | 5 |
| **** | (Farm Machinery & Power Engineering) | | | | | | | |
| 5. | AGRICULTURAL ENGG. | 2 | 0 | 2 | 1 | 0 | 1 | 5 |
| <u> </u> | (Soil & Water Conservation Engineering) | - | | | _ | | | _ |
| 6. - | AGRICULTURAL EXTENSION | 2 | 1 | 2 | 1 | 0 | 1 | 6 |
| 7. | AGRICULTURAL PHYSICS | 2 | 1 | 1 | 0 | 1 | 0 | 5 |
| 8. | AGRICULTURAL STATISTICS | 3 | 1 | 2 | 2 | 0 | 1 | 8 |
| 9. | AGRONOMY | 3 | 1 | 2 | 1 | 1 | 0 | . 8 |
| 10. | BIOCHEMISTRY | 2 | 1 | 1 | 1 | 1 | 0 | 6 |
| 11. | BIOINFORMATICS | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| 12. | COMPUTER APPLICATION | 2 | 0 | 2 | 2 | 1 | 1 | 7 |
| 13. | ENTOMOLOGY | 3 | 1 | 2 | 1 | 1 | 1 | 8 |
| 14. | ENVIRONMENTAL SCIENCES | 4 | 0 | 2 | 1 | 0 | 0 | 7 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 3 | 0 | 2 | 1 | 1 | 1 | 7 |
| 16. | FRUIT SCIENCE | 2 | 0 | 2 | 1 | 1 | 0 | 6 |
| 17. | GENETICS AND PLANT BREEDING | 3 | 1 | 2 | 1 | 1 | 0 | 8 |
| 18. | MICROBIOLOGY | 3 | 1 | 2 | 1 | 0 | 0 | 7 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 1 | 3 | 1 | 0 | 0 | 9 |
| 20. | NEMATOLOGY | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| 21. | PLANT GENETIC RESOURCES | 3 | 1 | 1 | 1 | 1 | 0 | 7 |
| 22. | PLANT PATHOLOGY | 3 | 1 | 2 | 1 | 0 | 1 | 7 |
| 23. | PLANT PHYSIOLOGY | 3 | 0 | 2 | 1 | 1 | 0 | 7 |
| 24. | POST HARVEST TECH. | 2 | 0 | 2 | 0 | 0 | 0 | 4 |
| | (PHT of Horticultural Crops)/PHT MANAGEMENT | | | | , | | | , |
| 25. | POST HARVEST TECH. | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | (PostHarvest Engineering & Technology) | | | | | | | |
| 26. | SEED SCIENCE AND TECHNOLOGY | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| 27. | SOIL SCIENCE | 3 | 1 | 2 | 1 | 0 | 1 | 7 |
| 28. | VEGETABLE SCIENCE | 3 | 0 | 2 | 2 | 1 | 0 | 8 |
| 29. | WATER SCIENCE AND TECHNOLOGY | 2 | 1 | 1 | 0 | 1 | 0 | 5 |
| | Total-A | 72 | 18 | 49 | 27 | 14 | 9 | 180 |

B – IARI-ASSAM (M.Sc. 2021-22)

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|-----------------------------|-----|-----|-----|----|----|----|-------|
| 1. | AGRONOMY | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| 2. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 0 | 1 | 1 | 3 |
| 3. | SOIL SCIENCE | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| 4. | VEGETABLE SCIENCE | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| | Total-B | 5 | 1 | 3 | 2 | 1 | 1 | 12 |

C – IARI-JHARKHAND (M.Sc./M.Tech. 2021-22)

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|---|-----|-----|-----|-----|----|----|-------|
| 1. | AGRICULTURAL ENGINEERING | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | (Soil & Water Conservation Engineering) | | | | | | | |
| 2. | AGRICULTURAL EXTENSION | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 3. | AGRONOMY | 1 | 1 | 1 | 0 | 1 | 0 | 4 |
| 4. | ENTOMOLOGY | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| 5. | ENVIRONMENTAL SCIENCES | 1 | 0 | 1 | 0 | 1 | 0 | 3 |
| 6. | FRUIT SCIENCE | 1 | 0 | 1 | 0 | 0 | 1 | 2 |
| 7. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 8. | MICROBIOLOGY | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 9. | PLANT PATHOLOGY | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 10. | SEED SCIENCE AND TECHNOLOGY | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 11. | SOIL SCIENCE | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 12. | VEGETABLE SCIENCE | 1 | 1 | 0 | . 1 | 0 | 0 | 3 |
| | Total-C | 12 | 3 | 8 | 4 | 2 | 1 | 29 |
| | Grand Total=A+B+C | 89 | 22 | 60 | 33 | 17 | 11 | 221 |

D – NIASM, BARAMATI (M.Sc./M.Tech. 2021-22)

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|--|-----|-----|-----|----|----|----|-------|
| | AGRICULTURAL ENGINEERING (Soil & Water Conservation Engineering) | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 2. | ENVIRONMENTAL SCIENCES | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| 3. | PLANT PHYSIOLOGY | 1 | 0 | 1 | 1 | 1 | 1 | 4 |
| | Total-D | 3 | 1 | 3 | 2 | 1 | 1 | 10 |

E – NIBSM, RAIPUR (M.Sc. 2021-22)

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|-------------------------------------|-----|-----|-----|----|----|----|-------|
| 1. | AGRONOMY | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| 2. | ENTOMOLOGY | 1 | 1 | 1 | 0 | 1 | 0 | 4 |
| 3. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 4. | MICROBIOLOGY | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 5. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 2 | 1 | 0 | 1 | 0 | 1 | 4 |
| 6. | PLANT PATHOLOGY | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| | Total-E | 7 | 2 | 4 | 2 | 1 | 1 | 16 |

F – IIAB, RANCHI (M.Sc. 2021-22)

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|-------------------------------------|-----|-----|-----|----|----|----|-------|
| 1. | BIOCHEMISTRY | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2. | GENETICS AND PLANT BREEDING | 1 | 0 | 1 | 1 | 1 | 1 | 4 |
| 3. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| | Total-F | 3 | 1 | 3 | 2 | 1 | 1 | 10 |

Discipline and category wise Seat positions for Ph.D. Programmes at IARI, New Delhi, IARI PG outreach programme at CIAE and IIHR.

A - IARI, NEW DELHI

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|--------|---|-----|-----|-----|-----------|----|----|-------|
| 1. | AGRICULTURAL CHEMICALS | 4 | 1 | 3 | 1 | 0 | 0 | 9 |
| 2. | AGRICULTURAL ECONOMICS | 3 | 1 | 2 | 1 | 1 | 0 | 8 |
| 3. | AGRICULTURAL ENGG. (Processing & Food Engg.) | 2 | 1 | 0 | 2 | 0 | 0 | 5 |
| 4. | AGRICULTURAL ENGG. (Farm Machinery & Power Engg) | 3 | 0 | 2 | 1 | 1 | 1 | 7 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engg.) | 2 | 0 | 2 | 1 | 0 | 0 | 5 |
| 6. | AGRICULTURAL EXTENSION | 4 | 1 | 3 | 2 | 0 | 1 | 10 |
| 7. | AGRICULTURAL PHYSICS | 2 | 1 | 2 | 1 | 0 | 0 | 6 |
| 8. | AGRICULTURAL STATISTICS | 3 | 1 | 3 | 1 | 1 | 1 | 9 |
| 9. | AGRONOMY | 5 | 2 | 3 | 2 | 1 | 1 | 13 |
| 10. | BIOCHEMISTRY | 4 | 1 | 2 | 1 | 1 | 0 | 9 |
| 11. | BIOINFORMATICS | 2 | 0 | 2 | 1 | 1 | 0 | 6 |
| 12. | COMPUTER APPLICATION | 3 | 1 | 2 | 1 | 1 | 1 | 8 |
| 13. | ENTOMOLOGY | 4 | 1 | 3 | 1 | 1 | 1 | 10 |
| 14. | ENVIRONMENTAL SCIENCES | 2 | 1 | 2 | 1 | 1 | 0 | 7 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 1 | 2 | 1 | 1 | 0 | 7 |
| 16. | FRUIT SCIENCE | 4 | 1 | 3 | 2 | 0 | 0 | 10 |
| 17. | GENETICS AND PLANT BREEDING | 7 | 1 | 4 | 3 | 1 | 1 | 16 |
| 18. | MICROBIOLOGY | 4 | 1 | 2 | 1 | 1 | 1 | 9 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 5 | 1 | 3 | 2 | 1 | 1 | 12 |
| 20. | NEMATOLOGY | 3 | 1 | 2 | 1 | 0 | 0 | 7 |
| 21. | PLANT GENETIC RESOURCES | 4 | 0 | 2 | ⊸1 | 1 | 0 | - 8 |
| 22. | PLANT PATHOLOGY | 6 | 1 | 4 | - 2 | 1 | 1 | 14 |
| 23. | PLANT PHYSIOLOGY | 3 | 1 | 2 | - 1 | 0 | 0 | 7 |
| 24. | POSTHARVEST TECH. (PHT of Horticultural Crops)/POSTHARVEST MANAGEMENT | 2 | 1 | 2 | 0 | 1 | 0 | 6 |
| 25. | SEED SCIENCE AND TECHNOLOGY | 4 | 1 | 3 | 2 | 1 | 1 | 11 |
| 26. | SOIL SCIENCE | 6 | 1 | 4 | 2 | 1 | 1 | 14 |
| 27. | VEGETABLE SCIENCE | 5 | 1 | 3 | 2 | 1 | 1 | 12 |
| 28. | WATER SCIENCE AND TECHNOLOGY | 2 | 1 | 1 | 1 | 0 | 0 | 5 |
| | Total-A | 100 | 25 | 68 | 38 | 19 | 13 | 250 |

B – CIAE, BHOPAL

| S. No. | Discipline | GEN | EWS | ОВС | SC | ST | PH | Total |
|--------|--|-----|-----|-----|----|----|----|-------|
| 1. | AGRICULTURAL ENGG. (Processing & Food Engg.) | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| 2. | AGRICULTURAL ENGG. (Farm Machinery & Power Engg.) | 1 | 0 | 2 | 0 | 1 | 0 | 4 |
| 3. | AGRICULTURAL ENGG. (Soil & Water Conservation Engg.) | 1 | 1 | 1 | 1 | 0 | 1 | 4 |
| | Total-B | 3 | 1 | 3 | 2 | 1 | 1 | 10 |

C – IIHR, BENGALURU

| S. No. | Discipline | GEN | EWS | OBC | SC | ST | PH | Total |
|---------------------------------|--|-----|-----|-----|----|----|----|-------|
| 1. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| 2. | FRUIT SCIENCE | 1 | 1 | 1 | 0 | 1 | 0 | 4 |
| 3. | POST HARVEST TECH. (PHT of Horticultural Crops)/POSTHARVEST MANAGEMENT | 2 | 0 | 1 | 1 | 0 | 1 | 4 |
| 4. | VEGETABLE SCIENCE | 3 | 0 | 1 | 0 | 0 | 0 | 4 |
| | Total-C | 7 | 2 | 4 | 2 | 1 | 1 | 16 |
| ULLUCION STRUCTURA CONTROLOGICA | Grand Total= A+B+C | 110 | 28 | 75 | 42 | 21 | 15 | 276 |

In addition to the seats finalized for open stream, seats for admission to M.Sc./M.Tech. & Ph.D. programmes under Different Schemes are detailed below:

Faculty Up-gradation Scheme - 10 seats for Ph.D. ICAR-In-Service Nominee Scheme - 10 seats for Ph.D. Departmental (Scientific) - 10 seats for Ph.D.

Departmental (Technical) - 10 seats (5 seats each for M.Sc./M.Tech.& Ph.D.)

Foreign Students - 30 seats for M.Sc./M.Tech.& Ph.D.

J & K migrants - 10 seats (5 seats each for M.Sc./M.Tech. & Ph.D.)

Children/widows of Security Forces - 5 seats for M.Sc./M.Tech. & Ph.D.

Agenda Item No.415.10: Any other item with the permission of the Chair

As envisaged in the NEP 2020, the Academic Council decided to initiate Diploma and PG Diploma Courses at IARI, in some of the areas like (i) Organic Farming; (ii) Good Agriculture Practices for Basmati rice cultivation, etc. The Academic Council authorized the Chairman to constitute a committee to come up with suitable suggestion/recommendation.

415.10.2 In the existing procedure of the selection of Professors for different teaching disciplines, the Academic Council revised the assessment criteria of 80 % weightage to achievements in teaching, research & extension and 20 % weightage to interview to 70% and 30 %, respectively. The existing five year tenure shall remain unchanged.

(Rashmi Aggarwal)

Vice Chairperson

The meeting ended with the vote of thanks to the Chair.

(Pushpendra Kumar) Member-Secretary

(A.K. Singh)
Chairperson

24

Guidelines governing "Best Woman Scientist Award"

1. Name of the Award

The name of the award shall be 'Best Woman Scientist Award' for outstanding agricultural scientist in the field of Agricultural Sciences covering all the disciplines

2. Sources of Funds

Rs. 15,00,000/- Revenue receipt head of IARI for the year 2020-21 (code No.501/114199)

3. Nature of the Award

The award will carry a sum of Rs. 50,000 (Fifty thousand rupees only) and a Certificate for the outstanding contributions in any of the branches of Agricultural Sciences.

4. Objective of the Award

To motivate the Agricultural Women Scientists/Faculty from the NARES by recognizing their outstanding contributions in agricultural research, education and extension in India; leadership role in Institution building.

The award shall be given for fundamental or applied research leading to results of practical value with original contributions in research, education and extension.

5. Periodicity of the Award

The periodicity of the award shall be biennium, commencing from the year 2021-22.

6. Eligibility for the Award

Applicant should be an active Scientist, age limit 62 years and should have outstanding contributions to agricultural research, education and extension in any field of agricultural sciences while working in India.

7. Administration of the Award

The right to designate the general fields of endeavor in which the award shall be made will lie with IARI.

The Institute shall have the sole right of selection of recipients of the award and of the formulation of Rules and Eligibility governing such selection from time to time.

8. Screening Committee

The Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas in the respective year for scrutinizing and scoring the applications. The quorum of the Screening Committee for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairperson of the Academic Council will nominate the Chairperson for the Judging Committee and its members relevant to the subject area in the respective year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee for finalizing the recommendation shall be at least 4 members including Chairperson & Member- Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of the committee and replaced by a Scientist/member nominated by the Chairperson, Academic Council in his/her place.

The Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down here in after for approval of the Director, IARI.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

The award shall be given to only one person at one time and will not be shared.

10. Procedure for selection of recipient

Applications are invited from the women scientists from all branches of Agricultural Sciences for the above award duly forwarded through concerned authorities. Duly filled application as per the prescribed format accompanied with detailed statement of the work and attainments of the candidate along with supporting documents should be submitted on or before the prescribed date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks as per score card.

Only after the acceptance of the Recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be conferred during the Convocation of the Institute.

The expenditure relating to the arrangements for the Award and the TA/DA to be paid to the Awardee will be as per the ICAR rules and be met out from the interest accrued from the deposit.

Note: Three years cooling period for a previous awardee(IARI awards) is essential to apply for any other IARI award. An applicant is eligible to apply for only one award of IARI announced for that particular year.



Post Graduate School Indian Agricultural Research Institute New Delhi



Proforma for 'Best Women Scientist Award'

| | | | | | | | | Photograph |
|----------------------------------|-------------|-------------|-------------------------------|--|----------|------------------|------|--------------|
| Name of the Inst | itute Forwa | rding a | pplicat | ion: | | | | |
| Field/Discipline: | | | 2 | | | | | |
| 1. Name of the O | Candidate: | | (Firs | et) | . (| Middle) | (Sur | rname) |
| 2. Designation: | | | | | | | | |
| 3. Address: | | | | | | | | |
| 4. Contacts: | Of | fice: | | | | | | |
| | | | mail: | | | Fax | : | |
| | | Te | e s.: el.: mail: | | | Fax | : | |
| 5. Date of birth: | | | | | | | | |
| (Please provide | the proof) | (Day | /) | (| Month) | (Year) | | |
| 6. (a) Academic Degree/Diplon | | ons Year | Mai | or field | | University/ | Di | ivision/OGPA |
| | | 1041 | 1,141 | or neta | | Institution | | stinction |
| Graduation | | | | | | | | |
| Masters | | | | | | | | |
| Ph.D. | | | | | | | | |
| Any other | | | | | | | | |
| degree/diploma | | | | | | | | _ |
| Post-Doctoral | | | | | | | | |
| Experience | | | | | | | | |
| (b) Training in | India and/ | or abro | ad (In | the area | relevant | to the award) | | |
| Training title | Institution | | | Sponsor | | Duration | | Subject |
| | | | - | 10-10-1 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | | | | ,1000 |
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| 7. Employment | record | н | | | | | | |
| Designation | Pay scale | Nat | ture of | fwork | Instit | ute (Organizatio | n) | Period |

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8. Achievements

(a) Most significant achievements in Research and extension

| SI. | Item* | Details of significant achievements including social impact/adaptation* | Developer/ Co- developer |
|-----|--|---|--------------------------------|
| 1. | Product/Patent/ Variety/Prototype developed | | a |
| 2. | New Concept / Methodology/ Process/ Model developed | | |
| 3. | Copyright/software/database/trademark/app | | |
| 4. | Patents granted with details of Patent No. | | |

^{*}Documentary evidence should be enclosed for the above claims

(b) Teaching achievements

| S.No. | Item | Detail | Year |
|-------|---|--------|------|
| 1. | Courses taught and number of classes taken in each course | | |
| 2. | M.Sc./M.Tech./Ph.D. Students Guided as Chairperson | | |
| 3. | Development of e-course/training module/New Course introduced or Course(s) revised | | |
| 4. | Success of students in academics (in terms of their recognition for Awards) | | |
| 5. | Organization of training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director | | |

Documentary evidence should be provided

| (c) Please state the most significant achievements (Not more than 300 M | words) |
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9. (a) List 30 most important & highest NAAS rated publications in chronological order made in the major discipline (attach first page of all these reprints)

| S.No. Names Year of Title Journal, NAAS Number of In | licate if |
|--|-----------|
|--|-----------|

| | of authors | publication | of paper | Volume, issue & page Nos. | Journal ID and NAAS Score 2021 | citations based on ISI Science Citation Index | Corresponding author |
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9 (b) Other publications:

| S. No. | Item | Detail |
|-----------|---|--------|
| 1 | Authored books with ISBN number (min. 200 pages) | |
| 2 | Edited books with ISBN number (min. 200 pages) | |
| 3 | Policy paper | |
| 4 | Scientific review papers in peer reviewed journal | |
| 5 | Book chapter | |
| 6 | Popular article | |

9 (c) Externally funded projects handled as PI

| Name of the project | Funding agency | Budget | Duration |
|---------------------|---------------------|------------------------------------|---|
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| | | | |
| | Name of the project | Name of the project Funding agency | Name of the project Funding agency Budget |

Documentary evidence should be provided

9 (d) Leadership role in institution building

| S. | Category | Details |
|-----|--|---------|
| No. | | |
| 1 | Chairperson/member of International/National Level Committees | |
| 2 | Member BoM/IMC, RAC, QRT, or equivalent | |
| 3 | Administrative positions (Head of the institution/university; Dean/Joint Director/Director (Research); Head of the Division) | - |
| 4 | Institute level Committees | |
| 5 | Creation of new infrastructure/Lab/facility (above 50 Lakhs) | |
| 6 | Symposia/seminar/workshop/conference as organizing secretary/convenor | |

Documentary evidence should be provided

10. Awards and Recognitions

| S. No. | Name of the Award/recognitions | Year | National/ International | Awarding Academy/Institution/ Professional Society/Government agency |
|--------|-----------------------------------|------|----------------------------|--|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Documentary evidence should be provided

11. Please mention if this work has been submitted/recognized for any other award.

12. Any other information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

| (Signature | of | the | app | plicant) |
|------------|----|-----|-----|----------|
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Place:

Date:

Name:

"Certified that the information given by the candidate in this application has been verified and fully authenticated and that there is no disciplinary action or proceedings pending or contemplated against the candidate.

Recommendation of the Head of the Institution

(Signature) & Seal

Enclosures:

- 1. Application in original, duly forwarded and complete in all respect (2 hard copies and a soft copy)
- 2. Reprints (first page) of the 30 most important papers listed at Sl. No. 9(a) of application
- 3. Documentary proof for the claims made in respect of Awards/recognition, technology, product, patent, externally funded projects handled etc.

Allocation of marks (Best Women Scientist Award)

| SI. | Criteria | Maximum | Weightage |
|-----|--|---------|-----------|
| No. | | Marks | |
| 1 | Research achievements: | 25 | |
| | (i) Products/ variety/Technology | | |
| | (ii) New Concept / Methodology/ Process/ Model | | - |
| | developed/Novel Omics data | | - |
| | (iii) Patents granted | 9 | , |
| - | (iv) Copyright/software/database/app | | |
| 2 | Teaching achievements | 15 | |
| 3 | Publications | 25 | |
| 5 | External funded projects handled as PI | 10 | |
| 6 | Leadership role in institution building | 15 | |
| 7 | Awards/Recognitions | 10 | |
| (7) | Total Marks | 100 | 80% |
| | Weightage for Judging Committee | | 20% |

Research achievements (Maximum 25 Marks):

- (i) Developer of commercialized product or technology/Gazette Notified plant variety (CVRC/SVRC) (5 marks each); Genetic stock registered (1 Mark each); new record of pathogen/pest/microbe/bio-agent along with accession numbers (2 Marks each).
- (ii) New Concept / Methodology/ Process/ Model developed/Novel omics data. All claims in this category should be supported by research publications in peer reviewed journals with citations ≥ 10 (excluding self-citations) (3 Marks each)
- (iii) Copyright/software/database//app (3 marks each)
- (iv) Patents granted with details of Patent No. (5 marks for each patent).

Developer shall be awarded 100% marks, Co-developer shall be awarded 75% marks.

Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 15 Marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.
- (ii) M.Sc. /M.Tech/ Ph.D. Students (Full time) Guided as Chairperson (Maximum 4 marks): Give thesis titles. 1 marks for each M.Sc./M.Tech. and 2.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module/New Course introduced or Course(s) revised (one mark each; Maximum 2 marks)
- (iv) Success of students in academics (in terms of their recognition for Awards) (Maximum 2 marks): Institute level Medals, ICAR/ Institutional Awards, etc. (1 mark each).
- (v) Organization of training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (2 marks each).

Publications (Maximum 25 marks)

- (i) For 30 most important publications in the relevant discipline of the applicant: Cumulative NAAS Score x 0.033 (Maximum 20 Marks).
- (ii) First / corresponding author will get full marks in a publication and rest of the authors 75% marks.
- (iii) Other publications (Maximum 5 Marks): Authored book with ISBN number (min. 200 pages): 2 marks each; Edited book with ISBN number (min. 200 pages): 1 mark each; Policy paper: 1 mark each; 0.5 mark each for scientific review paper in a peer reviewed journal, Book chapter/Popular article: 0.25 Mark each.

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 1 Marks each
- (ii) Projects costing 10-30 Lakhs: 2 Marks each
- (iii) Projects costing >30 Lakhs: 3 Marks each

Leadership role in institution building (Maximum 15 marks)

- (i) Chairperson/member of International/National Level Committees (Chairperson: 2 marks each; member: 1 mark each)
- (ii) Member BoM/IMC, RAC, QRT, or equivalent (One mark each)
- (iii) Administrative positions (Head of the institution/university: 3 marks for each completed year; Dean/Joint Director/Director (Research): 2 mark for each completed year; Head of the Division: One mark for each completed year)
- (iv) Institute level Committees (Chairperson: 2 marks each; Member: 1 mark each)
- (v) Creation of new infrastructure/Lab/facility (above 50 Lakhs) (2 marks each)
- (vi) Symposia/seminar/workshop/conference as organizing secretary/convenor (National: 1 mark each; International: 2 marks each)

Awards/Recognitions (Maximum 10 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates of the Team Award) (2.5 marks each).
- (ii) Fellowship of National Science Academies (5 marks each).
- (iii) Associateship/Young Scientist awards of National Science Academies (2 Marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)
- (v) National and International level Professional Society and Academy Awards/ Recognition (not covered above) (1 mark each).

Guidelines governing "Dr. H.K. Jain Memorial Young Scientist Award"

1. Name of the Award

The name of the award shall be 'Dr. H.K. Jain Memorial Young Scientist Award' which is instituted in the field of Agricultural Sciences covering the disciplines related to basic and applied sciences to commemorate the memory of late Dr. H.K. Jain, former Director of Indian Agricultural Research Institute, New Delhi.

2. Donor of the Award

Rs. 15,00,000/- donated by Mrs. Neera Jain, Daughter of late Dr. H.K. Jain.

3. Nature of the Award

The award will carry a sum of Rs. 50,000 (Fifty thousand rupees only) and a Certificate for the outstanding contributions in any of the branches of Agricultural Sciences.

4. Objective of the Award

To motivate the young Agricultural Scientists/ Faculty from the NARES by recognizing their outstanding contributions to agricultural research, education and extension in India.

The award shall be given for either fundamental or applied research including inventions, discoveries, etc. leading to results of practical value with original contributions in research, education and extension pertaining to the concerned discipline covering basic and applied sciences.

5. Periodicity of the Award

The periodicity of the award shall be annual, commencing from the year 2021-22.

6. Eligibility for the Award

Applicant should be an active Scientist/Faculty, age limit 40 years and should have outstanding contributions to agricultural research, education and extension in any field of basic and applied sciences, while working in India.

The award shall be made for notable or original research in both fundamental and applied areas in a particular subject. Claims should be as evidenced by published research papers, patents or any other publications demonstrating outstanding research work, inventions or discoveries, original contributions in upliftment of education and extension activities in the field of Agriculture (Crop sciences)/Horticulture.

However, contributions or achievements of applicants which have received any other Institutional/ National/ International award, shall not be considered for this Award.

7. Administration of the Award

IARI shall retain the right to designate the general fields of endeavor in which the award shall be made. The Institute shall have the sole right of selection of recipients of the award and of the formulation of Rules and Eligibility governing such selection from time to time.

8. Screening Committee

The Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas in the concerning year for scrutinizing and scoring the applications. The quorum of the Screening Committee for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairperson of the Academic Council will nominate the Chairperson for the Judging Committee and its members concerning the subject

area in the concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairperson & Member-Secretary.

If any member of the Judging Committee himself/ herself is to be considered for the award, he/she shall cease to be a member of the committee and replaced by a Scientist/ member nominated by the Chairperson, Academic Council in his/ her place.

The Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

The award shall be given to only one person at one time and will not be shared.

10. Procedures for selection of recipient

Applications are invited from scientists in the field of Agriculture (Crop sciences)/Horticulture for the above award duly forwarded through competent authorities. Duly filled applications as per the prescribed format accompanied with detailed statement of the work and attainments of the candidate along with supporting documents should be submitted on or before the prescribed date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks as per score card.

Only after the acceptance of the Recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be conferred during the Convocation of the Institute.

The expenditure related to the arrangements for the Award and the TA/DA to be paid to the Awardee will be as per the ICAR rules and be met out from the interest accrued from the donated seed money.

Note: Three years cooling period for a previous awardee(IARI awards) is essential to apply for any other IARI award. An applicant is eligible to apply for only one award of IARI announced for that particular year.



Post Graduate School Indian Agricultural Research Institute New Delhi



Photograph

Proforma for Dr. H. K. Jain Memorial Young Scientist Award

| Field/Discipline: | | | | | | • |
|--|----------------------|-----------------------------------|-------------|---------------|----------------------------|--------------------------|
| 1. Name of the C | Candidate: | (Firs | t) | (Midd | le) | (Surname) |
| 2. Designation: | | | | 4 | | |
| 3. Address: | | | | | | |
| 4. Contacts: | Ofi | Tel.: E-mail: Res.: Tel.: E-mail: | | | Fax: Fax: | |
| 5. Date of birth: (<i>Please provide</i> | the proof) | (Day) | - <u>(N</u> | Month) | (Year) | |
| 6 (a) Acadamia | qualificati | | (1 | violitii) | (rear) | |
| 6. (a) Academic Degree/Diplon | | | Major fie | | University/ Institution | Division/ Distinction |
| Degree/Diplom Graduation | | ons | , | | University/ | Division/ Distinction |
| Degree/Diplon Graduation Masters | | ons | , | | University/ | |
| Graduation Masters Ph.D. | | ons | , | | University/ | |
| Graduation Masters Ph.D. Any other | 12 | ons | , | | University/ | |
| Graduation Masters Ph.D. Any other Degree/Diplom | 12 | ons | , | | University/ | |
| Graduation Masters Ph.D. Any other | 12 | ons | , | | University/ | |
| Graduation Masters Ph.D. Any other Degree/Diplom Post-Doctoral Experience (b) Training in | a India and/o | ons Year | Major fie | eld | University/ Institution | |
| Graduation Masters Ph.D. Any other Degree/Diplom Post-Doctoral Experience (b) Training in | a India and/o | ons Year | Major fie | eld | University/ Institution | |
| Graduation Masters Ph.D. Any other Degree/Diplom Post-Doctoral | a India and/o Instit | ons Year or abroad (In | Major fie | elevant to th | University/ Institution | Distinction |

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8. Achievements

(a) Most significant achievements in Research and Extension

| Sl. No. | Item* | Details of the significant achievements including social impact/adaptation* | Developer/ Co- developer |
|---------|--|---|-----------------------------|
| 1 | Product/Patent/ Variety | | |
| 2 | New Concept / Methodology/ Process/ Model developed/Novel Omics data generated | | |
| 3 | Copyright/software/database/app | | |
| 4 | Patents granted with details of Patent No. | | |

^{*}Documentary evidence should be enclosed for the above claims

(b) Most significant achievements in Teaching

| Sl.No. | Item | Detail | Year |
|--------|---|--------|------|
| 1. | Courses taught and number of classes taken in each course | | |
| 2. | M.Sc./M.Tech./Ph.D. Students Guided as Chairperson | | |
| 3. | Development of e-course/training module/New Course | | |
| | introduced or Course(s) revised | | |
| 4. | Success of students in academics (in terms of their | | |
| | recognition for Awards) | | |
| 5. | Organization of training /Summer or Winter school/ CAFT | | |
| | for a duration of minimum 10 days as Course | | |
| | Coordinator/Course Director | | |

| (c) Please s | state the most Significant achievements (N | ot more than 300 words) | |
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9. (a) List 20 most important & highest NAAS rated publications in chronological order made in the major discipline (attach first page of these reprints)

| SI. No. | Name of author(s) | Year of publication | Title of the paper | Journal, Volume, issue & page Nos. | NAAS Journal ID and NAAS Score | Number of citations based on ISI Science Citation Index | Indicate if Corresponding author |
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9 (b) Other publications:

| S. | Item | Detail |
|-----|---|--------|
| No. | | ac a |
| 1 | Authored books with ISBN number (min. 200 pages) | |
| 2 | Edited books with ISBN number (min. 200 pages) | |
| 3 | Policy paper | |
| 4 | Scientific review papers in peer reviewed journal | |
| 5 | Book chapter | |
| 6 | Popular article | |

9 (c) Externally funded projects handled as PI

| S.No. | Name of the project | Funding agency | Budget | Duration |
|-------|---------------------|----------------|--------|----------|
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Documentary evidence should be provided

10. Awards and recognitions received

| Sl. No. | Name of Recognition | the | Award/ | Year | National/ International | Awarding Academy/ Institution/ Professional Society/Government agency |
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11. Please mention if this work has been submitted/recognized for any other award.

12. Any other information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

(Signature of the applicant)

Place:

Date:

Name:

"Certified that the information given by the candidate in this application has been verified and fully authenticated and that there is no disciplinary action or proceedings pending or contemplated against the candidate.

Recommendation of the Head of the Institution

(Signature) & Seal

Enclosures:

- 1. Application in original, duly forwarded and complete in all respect (2 hard copies and one soft copy)
- 2. Reprints (first page) of the 20 most important papers listed at Sl. No. 9(a) of application
- 3. Documentary proof for the claims made in respect of Awards/recognitions, technology, product, patent, externally funded projects handled, etc.

Allocation of marks (Dr. H.K. Jain Memorial Young Scientist Award)

| SI. | Criteria Criteria | | |
|------|--|---------|--------------|
| No. | Citicità | Maximum | Weightage |
| 110. | | Marks | |
| 1 | Research achievements: | 20 | |
| | (i) Products/ variety/Technology | | |
| | (ii) New Concept / Methodology/ Process/ Model | | |
| | developed/Novel Omics data generated | | |
| | (iii) Patents granted | | |
| | (iv) Copyright/software/database/app | | |
| 3 | Teaching achievements | 20 | |
| 4 | Research Publications | 35 | ш — <u>п</u> |
| 5 | Other publications | 10 | |
| 6 | Awards/Recognitions | 5 | |
| 7 | External funded projects handled as PI | 10 | |
| | Total Marks | 100 | 80% |
| | Weightage for Judging Committee | | 20% |

Research achievements (Maximum 20 Marks):

- (i) Developer of a commercialized product or technology/Gazette Notified plant variety (CVRC/SVRC) (5 marks each); Genetic stock registered (1 Mark each); new record of pathogen/pest/microbe/bioagent along with accession numbers (2 Marks each).
- (ii) New Concept / Methodology/ Process/ Model developed/Novel omics data. All claims in this category should be supported by research publications in peer reviewed journals with citations ≥ 10 (excluding self-citations) (3 Marks each)
- (iii) Copyright/software/database//app (3 marks each)
- (iv) Patents granted with details of Patent No. (5 marks for each patent).

Developer shall be awarded 100% marks, Co-developer shall be awarded 75% marks.

Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 20 Marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.
- (ii) M.Sc. /M.Tech./ Ph.D. Students (Full time) Guided as Chairperson (Maximum 6 marks): Give thesis titles. 2 marks for each M.Sc./M.Tech. and 4.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module/New Course introduced or Course(s) revised (one mark each; Maximum 3 marks)
- (iv) Success of students in academics (in terms of their recognition for Awards) (Maximum 3 marks): Institute level Medals, ICAR/ Institutional Awards, etc. (1 mark each).
- (v) Organization of training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (3 marks each).

Research Publications (Maximum 35 marks)

- (i) For 20 most important publications in the relevant discipline of the applicant: Cumulative NAAS Score x 0.0875
- (ii) First / corresponding author will get full marks in a publication and rest of the authors 75% marks.

Other publications (Maximum 10 marks)

(i) Authored book with ISBN number (min. 200 pages): 2 marks each; Edited book with ISBN number (min. 200 pages): 1 mark each; Policy paper: 1 mark each; 0.5 mark each for scientific review paper in a peer reviewed journal, Book chapter/Popular article: 0.25 Mark each

Awards/Recognitions (Maximum 5 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates of the Team Award) (2.5 marks each).
- (ii) Fellowship of the National Science Academies (5 marks each).
- (iii) Associateship/Young Scientist awards of the National Science Academies (2 Marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)
- (v) National and International level Professional Society and Academy Awards/ Recognition (not covered above) (1 mark each).

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 1 Marks each
- (ii) Projects costing 10-30 Lakhs: 2 Marks each
- (iii) Projects costing >30 Lakhs: 3 Marks each

Guidelines governing "NABARD Scientist of the Year Award"

1. Name of the Award

The name of the award shall be 'NABARD Scientist of the Year Award' which is instituted for the field of Outstanding Work on Rural Credit related issues.

2. Donor of the Award

Rs. 20,00,000/- endowment amount from NABARD.

3. Nature of the Award

The award will carry a sum of Rs. 50,000 (fifty thousand rupees only) and a Certificate for the outstanding contributions in any of the branches of Agricultural Sciences impacting the above issue.

4. Objective of the Award

To motivate the young Agricultural Scientists by recognizing their outstanding contributions in the field of rural credit/ related issues in India.

This will help in pro-poor and pro-farmer policy formulation and move towards achieving the goal of 'inclusive and sustainable development through credit.'

5. Periodicity of the Award

The periodicity of the award shall be annual, commencing from the year 2021-22.

6. Eligibility for the Award

Applicant should be an active scientist, age limit 40 years and should have outstanding research contributions in the area of rural credit related issues while working in India.

However, contributions or achievements which have already received any other award shall not be eligible for consideration of this Award.

7. Administration of the Award

The right to designate the general fields of endeavor in which the award shall be made will lie with IARI. The Institute shall have the sole right of selection of recipients of the award and of the formulation of Rules and Eligibility governing such selection from time to time.

8. Screening Committee

The Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to the concerning year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairperson of the Academic Council will nominate the Chairperson for the Judging Committee and its members concerning the subject area in the concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairperson & Member-Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of the committee and replaced by a Scientist/Member nominated by the Chairperson, Academic Council in his/her place.

The Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI.

The award may be withheld in any year, if no candidate is found suitable, in the opinion of the judging committee, in that year.

The award shall be given to only one person at one time and will not be shared.

10. Procedures for selection of recipient

Applications are invited from scientists of all branches of Agricultural Sciences for the above award duly forwarded through competent authorities. Duly filled applications as per prescribed form accompanied with detailed statement of the work and attainments of the candidate along with supporting documents should be submitted on or before the prescribed date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks as per score card.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

Only after the acceptance of the Recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be conferred during the Convocation of the Institute.

The expenditure relating to the arrangements for the Award and the TA/DA to be paid to the Awardee will be as per the ICAR rules and be met out from the interest accrued from the donated seed money.

Note: Three years cooling period for a previous awardee(IARI awards) is essential to apply for any other IARI award. An applicant is eligible to apply for only one award of IARI announced for that particular year.



Post Graduate School Indian Agricultural Research Institute New Delhi



Proforma for NABARD Scientist of the Year Award

| Name of the Inst | itute Forwai | rding applicat | ion: | | | J. | | Photograph |
|---|-----------------|---|--------------|-----------|-----------|---------------------|------|--------------------------|
| Field/Discipline: | | | | | | | | |
| 1. Name of the O | Candidate: | (Firs | st) | - | (Middle) | | (Sui | rname) |
| 2. Designation: | | | | | | | | |
| 3. Address: | | | | | | | | |
| 4. Contacts: | Off | īce: | | | | | | |
| | | Tel.: E-mail: Res.: Tel.: | | | | Fax: | | |
| | | E-mail: | | | | | | |
| 5. Date of birth: (<i>Please provide</i> | the proof | (Day) | - <u>-</u> | M = 41- \ | _ | (V -) | | |
| (T tease provide | ine prooj) | (Day) | (1 | Month) | | (Year) | | |
| 6. (a) Academic | | | 77.0 | | | 1 | | |
| Degree/Diplon | la | Year | Major fi | eld | | Univers Institut | | Division/ Distinction |
| Graduation | | | | | | | | |
| Masters | | | 3. | | | | | |
| Ph.D. | | | | | | | | |
| Any other | | | | | | | | |
| degree/diploma | | | | | | | | |
| Post-Doctoral | | | | | | | | |
| Experience | | | | | | | | |
| (b) Training in I | ndia and/or a | abroad (In the | e area relev | ant to th | ne award) | | | |
| Training title | | on/Country | Sponsor | | Durat | | | Subject |
| | | 9 | | | | | | |
| | | | | | 4 | | | |
| 7. Employment r | ecord | | | | | | | |
| Designation | Pay scale (Rs.) | Nature of | f work | Instit | ute (Org | anization | * | Period To) |
| | (143.) | | | | * | | (F) | rom - To) |

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8. Achievements

(a) Most significant achievements in Research and extension

| Sl. No. | Item* | Details of the significant achievements including social impact/adaptation* | Developer/ Co- developer |
|---------|--|---|--------------------------------|
| 1 | Product/Patent/ Variety | | |
| 2 | New Concept / Methodology/ Process/ Model developed | | |
| 3 | Copyright/software/database/tradem ark/ app | | |
| 4 | Patents granted with details of Patent No. | | |

^{*}Documentary evidence should be enclosed for the above claims

(b) Most significant achievements in Teaching

| S.No. | Item | Detail | Year |
|-------|---|--------|------|
| 1 | Courses taught and number of classes taken in each course | | |
| 2 | M.Sc./M.Tech./Ph.D. Students Guided as Chairperson | | |
| 3 | Development of e-course/training module/New Course | | |
| | introduced or Course(s) revised | | 9 |
| 4 | Success of students in academics (in terms of their | | |
| | recognition for Awards) | | |
| 5 | Organization of training /Summer or Winter school/ CAFT | | |
| | for a duration of minimum 10 days as Course | | |
| | Coordinator/Course Director | | 77 |

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9 (a) List 20 most important & highest NAAS rated publications in chronological order made in the major discipline (attach first page of these reprints)

| S.No. | Name of authors | Year of publication | Title of paper | Journal, Volume, issue & page Nos. | NAAS Journal ID and NAAS Score | Number of citations based on ISI Science Citation Index | Indicate if Corresponding author |
|-------|-----------------|---------------------|----------------------|---|---|---|--|
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9 (b) Other publications:

| S. No. | Item | Detail |
|-----------|---|--------|
| 1 | Authored books with ISBN number (min. 200 pages) | |
| 2 | Edited books with ISBN number (min. 200 pages) | |
| 3 | Policy paper | |
| 4 | Scientific review papers in peer reviewed journal | |
| 5 | Book chapter | |
| 6 | Popular article | |

9 (c) Externally funded projects handled as PI

| S.No. | Name of the project | Funding agency | Budget | Duration |
|-------|---------------------|----------------|--|----------|
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Documentary evidence should be provided

10. Awards and Recognitions

| S. No. | Name of Award/recognitions | the | Year | National/ International | Awarding Academy/Institution/ Professional Society/Government agency |
|--------|-------------------------------|-----|---|----------------------------|--|
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| 2 | | | | | × |
| 3 | | 9 | , | | |

11. Please mention if this work has been submitted/recognized for any other award.

12. Any other information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

(Signature of the applicant)

Place:

Date:

Name:

"Certified that the information given by the candidate in this application has been verified and fully authenticated and that there is no disciplinary action or proceedings pending or contemplated against the candidate.

Recommendation of the Head of the Institution

(Signature) & Seal

Enclosures:

- 1. Application in original, duly forwarded and complete in all respect (2 hard copies and one soft copy)
- 2. Reprints (first page) of the 20 most important papers listed at Sl. No. 9(a) of application
- 3. Documentary proof for the claims made in respect of Awards/recognitions, technology, product, patent, externally funded projects handled, etc.

Allocation of marks (NABARD Scientist of the Year Award)

| | Anocation of marks (NADARD Scientist o | i the rear | Awaru) |
|-----|--|------------|-----------|
| SI. | Criteria | Maximum | Weightage |
| No. | | Marks | |
| 1 | Research achievements: | 20 | |
| | (i) Products/Technology | | |
| | (ii) New Concept / Methodology/ Process/ Model | | 1 |
| | developed | | 58 |
| | (iii) Patents/Copyright/software/database/app | | |
| 3 | Teaching achievements | 20 | |
| 4 | Research Publications | 35 | |
| 5 | Other publications | 10 | |
| 6 | Awards/Recognition | 05 | |
| 7 | External funded projects handled as PI | 10 | |
| | Total Marks | 100 | 80% |
| | Weightage for Judging Committee | | 20% |

Research achievements (Maximum 20 Marks):

- (i) Technology/products/New Concept / Methodology/ Process/ Model developed. All claims in this category should be supported by documentary proof or research publications in peer reviewed journals with citations ≥ 10 (excluding self-citations) (5 Marks each)
- (ii) Copyright/software/database/app (4 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

Developer shall be awarded 100% marks, Co-developer shall be awarded 75% marks.

Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 20 Marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.
- (ii) M.Sc. /M.Tech/ Ph.D. Students (Full time) Guided as Chairperson (Maximum 6 marks): Give thesis titles. 2 marks for each M.Sc./M.Tech. and 4.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module/New Course introduced or Course(s) revised (one mark each; Maximum 3 marks)
- (iv) Success of students in academics (in terms of their recognition for Awards) (Maximum 3 marks): Institute level Medals, ICAR/ Institutional Awards, etc. (1 mark each).
- (v) Organization of training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (3 marks each).

Research Publications (Maximum 35 marks)

- (i) For 20 most important publications in the relevant discipline of the applicant: Cumulative NAAS Score x 0.0875
- (ii) First / corresponding author will get full marks in a publication and rest of the authors 75% marks.

Other publications (Maximum 10 marks)

(i) Authored book with ISBN number (min. 200 pages): 2 marks each; Edited book with ISBN number (min. 200 pages): 1 mark each; Policy paper: 1 mark each; 0.5 mark each for scientific review paper in a peer reviewed journal, Book chapter/Popular article: 0.25 Mark each

Awards/Recognitions (Maximum 05 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates of the Team Award) (2.5 marks each).
- (ii) Fellowship of National Science Academies (5 marks each).

- (iii) Associateship/Young Scientist awards of National Science Academies (2 Marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)
- (v) National and International level Professional Society and Academy Awards/ Recognition (not covered above) (1 mark each).

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 2 Marks each
- (ii) Projects costing 10-30 Lakhs: 3 Marks each
- (iii) Projects costing >30 Lakhs: 5 Marks each

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. ICAR-IARI/Dte-PGS-I/1-2/2022-AC(417)

October 6, 2022

ENDORSEMENT

A copy of the proceedings of the 417th meeting of the Academic Council held on 27th August, 2022 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- All the members of the Academic Council (By name______
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Master of Halls of Residences, P.G. Hostels
- 5. Sr. Admn. Officer, IMC (For members of Board of Management)
- 6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PS to Registrar/PS to Comptroller
- 7. Technical Assistants, P G School (IT Cell/Stats. Cell)
- 8. Assistant Administrative Officer, Post Graduate School-II
- 9. Concerned Dealing Assistants, PGS-I

(Pushpendra Kumar)

SY Registrar

PROCEEDINGS OF THE 417th MEETING OF THE ACADEMIC COUNCIL (Online Mode) HELD ON AUGUST 27, 2022 AT 10.30 AM AT IARI, NEW DELHI - 110012

The following members attended online meeting:

| 1. Dr. A.K. Singh, Director, IARI | Chairman |
|--|------------------|
| | Chairperson |
| 3. Dr. R.C. Agrawal, Deputy Director General (Edn.), ICAR | Member |
| 4. Prof.B. D. Singh, Professor Emeritus, BHU, Varanasi | Member |
| 5. Dr. C. Devakumar, Former ADG, ICAR | Member |
| 6. Dr. V.V. Sadamate, Former Advisor, Agriculture (Planning Commission) | Member |
| 7. Dr. V.S. Tomar, Former Vice-Chancellor, JNKVV, Jabalpur | Member |
| 8. Dr. B.S. Tomar, JD (Extn.) and Head, Veg. Science (Additional Charge) | Member |
| 9. Dr. C. Viswanathan, Joint Director (Res.) (Additional Charge) | Member |
| and Professor, Plant Physiology | |
| 10. Dr. Rajender Parsad, Director, IASRI | Member |
| 11. Dr. Ajit Kumar Shasany, Director, NIPB | Member |
| 12. Dr. Ashok Kumar, Director, NBPGR (Additional Charge) | Member |
| 13. Dr. C.R. Mehta, Director, CIAE, Bhopal | Member |
| 14. Dr. P.K. Ghosh, Director, NIBSM, Raipur | Member Member |
| 15. Dr. Arunava Pattanayak, Director, IIAB, Ranchi | Member |
| 16. Dr. Jagadish Rane, Director, NIASM, Baramati(Additional Charge)17. Dr. Debi Sharma, Director, IIHR, Bengaluru (Additional Charge) | Member |
| 18. Dr. Man Singh, Project Director, WTC(Additional Charge) and Professor, WST | |
| 19. Dr. K.M. Manjaiah, Associate Dean, PG School | Member |
| 20. Dr. (Ms.) Neera Singh, Professor, Agricultural Chemicals | Member |
| 21. Dr. (Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| 22. Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 23. Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 24. Dr. (Ms.) P. Krishnan, Professor, Agricultural Physics | Member |
| 25. Dr.(Ms.) Cini Varghese, Professor, Agricultural Statistics | Member |
| 26. Dr. T.K. Das, Professor, Agronomy | Member |
| 27. Dr. Anil Dahuja, Professor, Biochemistry | Member |
| 28. Dr. Anil Rai, Professor, Bioinformatics | Member |
| 29. Dr. (Ms.)Alka Arora, Professor, Computer Application | Member |
| 30. Dr. (Ms.) Debjani Dey, Professor, Entomolgy | Member |
| 31. Dr. D.K. Sharma, Professor, Environmental Science | Member |
| 32. Dr. K.P. Singh, Professor, Floriculture and Landscaping | Member |
| 33. Dr. Manish Srivastav, Professor, Fruit Science | Member |
| 34. Dr. Vinod, Professor, Genetics and Plant Breeding | Member |
| 35. Dr. Sunil Pabbi, Professor, Microbiology | Member |
| 36. Dr. Debasis Pattanayak, Professor, MBB | Member Member |
| 37. Dr. M.R. Khan, Professor, Nematology38. Dr. (Ms.) Veena Gupta, Professor, PGR | Member |
| 39. Dr. Robin Gogoi, Professor, Plant Pathology | Member |
| 40. Dr. (Ms.) Monika Atul Joshi, Professor, SST | Member |
| 41. Dr. S.P. Datta, Professor, SS&AC | Member |
| 42. Dr. R.K. Yadav, Professor, Vegetable Science | Member |
| 43. Dr. Anil Sirohi, Mater of Halls of Residences (MOHR) | Member |
| 44. Shri. D.D. Verma, Sr. Comptroller | Member |
| 45. Dr. Mahendra Kumar Verma, Principal Scientist, Fruit Science | |
| and Faculty Representative to the Academic Council | Member |
| | |

| 46. Dr. Praveen Kumar Singh, Principal Scientist, VegetableScience | Member |
|--|------------------|
| and Faculty Representative to the Academic Council | |
| 47. Mr. Deep Chand, Incharge, IARI Library Services | Member |
| 48. Mr. Shohaib Sheikh Ayub Chauhan, President PGSSU | Member |
| 49. Mr. Sujay B.K., Students' Representative to the AC | Member |
| 50. Mr. Pushpendra Kumar, Sr. Registrar | Member Secretary |

Dr. Ram Asrey, Professor, Post Harvest Management could not attend the meeting.

Dr. (Ms.) Rashmi Aggarwal, Dean and Joint Director (Edn.) extended a formal welcome to Dr. A.K. Singh, Director, IARI and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time:

New members

- 1. Dr. C. Viswanathan, Joint Director (Res.) and Professor, Plant Physiology
- 2. Dr. Jagadish Rane, Director (Additional Charge), NIASM, Baramati
- 3. Dr. Sunil Pabbi, Professor, Microbiology
- 4. Dr. Dinesh Kumar Sharma, Professor, Environmental Science
- 5. Shri. D. D. Verma, Sr. Comptroller

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

- 1. Dr. H.Pathak, Director, NIASM, Baramati
- 2. Dr. Indra Mani, Joint Director (Res.)
- 3. Dr. Soora Naresh Kumar, Professor, Environmental Science
- 4. Dr. Madan Pal Singh, Professor, Plant Physiology
- 5. Dr. Radha Prasanna, Professor, Microbiology
- 6. Shri. V.R. Srinivasan, Comptroller

The following officials attended as Special Invitiees:

- 1. Dr. Rajbir Yadav, Head, Genetics.
- 2. Dr. Vishal Nath, OSD and PG Coordinator, IARI, Jharkhand.
- 3. Dr. Khem Bahadur Pun, Former Principal Scientist and Nodal Officer, IARI Assam

Thereafter, the following agenda items were taken up for consideration:

| Agenda | Description of Agenda Items | |
|----------|--|--|
| Item No. | | |
| 417.1 | Confirmation of the proceedings of 416 th meeting of the Academic Council held on | |
| | 10.02.2022 (online mode) | |
| 417.2 | Action Taken Report on the proceedings of 416 th meeting of the Academic Council | |
| | held on 10.02.2022 (online mode) | |
| 417.3 | Consideration of the recommendations of the Standing Committee on Scholarship, | |
| | Financial Assistance & Academic Progress made in its meeting held on 06.05.2022 | |
| 417.4 | Consideration of the recommendations of the Standing Committee on Faculty & | |
| | Discipline made in its meetings held on 12.05.2022 and 17.05.2022 | |
| 417.5 | Consideration of BSMA approved Courses and Syllabi recommended by the | |
| | Standing Committee on Courses and Curricula for implementation from 2022-23 | |
| | academic session | |

| 417.6 | Consideration of Introduction of UG Programme, Diploma and Certificate courses, initiation of Sandwich PhD programme, Self-financing scheme for Indian, foreign |
|--------|--|
| | and non-Resident Indian students and International faculty |
| 417.7 | Consideration of revision in guidelines on Charge of Professorship as decided in HoDs meeting held on 07.05.2022 |
| 417.8 | Consideration of Guidelines for Divisional Gold Medal Award proposal for Master and Doctoral students |
| 417.9 | Considerations of model MoU with SAUs, IRRI and other institutions |
| 417.10 | Finalization of number of seats for admission to B.Sc./B.Tech. M.Sc./M.Tech. and Ph.D. degree programmes at IARI, New Delhi and at outreach Institutions for the academic session 2022-23 |
| 417.11 | Consideration of revision in guidelines of Institute Awards <i>viz.</i> , (i)Best Women Scientist Award, (ii) NABARD Researcher of the Year Award, (iii) Dr. H.K. Jain Memorial Young Scientist Award and (iv) Dr. A.B. Joshi Memorial Award |
| 417.12 | Consideration of change of degree nomenclature of Agricultural Extension to Agricultural Extension Education as per the BSMA Recommendation |

Agenda Item No. 417.1: Confirmation of the proceedings of the 416th meeting of the Academic Council held on 10.02.2022(Online Mode)

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 416th meeting. Since no comment was there, the proceedings of the previous meeting was confirmed by the house.

Agenda Item No. 417.2: Report on action taken on the proceedings of the 416th meeting of the Academic Council held on 10.02.2022 (Online Mode)

Dean and Joint Director(Education) presented the action taken report which was approved by the house.

Agenda Item No. 417.3 Consideration of the proceedings of the meeting of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its Meeting held on 06.05.2022

The Academic Council ratified the decision of Chairman, Academic Council on disbursement of Scholarship/Fellowship as per the following recommendation of Standing Committee.

- 417.3.1 During the Academic Session 2021-22, a total number of 285 candidates were admitted to Ph.D. degree programme under different Schemes at IARI and IARI PG Outreach Institutes. Five (5) students discontinued the programme and hence removed from the rolls of the P.G. School. The applications/undertakings/proforma of all the students (Ph.D. and M.Sc./M.Tech.) completed in all respects, forwarded by the Professors/Director of concerned Institutes and also checked and verified by the PGS-II Section.
 - 1. The rate and tenure of Fellowship as per the ICAR *i.e.*, Rs. 31,000 for the first two years and Rs. 35000 for the third year, contingency of Rs. 10000/p.a. and maximum duration of fellowship is only for three years as per the terms and conditions of ICAR SRFs.
 - 2. As per P.G. School Calendar para 15.3.3 and 15.3.5, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. The payment of

Scholarship/Fellowship shall be reviewed at the end of 2nd Semester and only those students will be permitted to continue getting fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of 2nd Semester (*Commencement of the Academic Year 2021-22 is 03.01.2022*).

3. 148 students enrolled at IARI, New Delhi, CIAE Bhopal and IIHR Bengaluru who are awarded/eligible for ICAR-JRF/SRF @Rs.31000/-per month for first two years and @Rs.35,000/- per month for third year + Rs.10,000/- as Contingent grant per annum will get their Fellowship from ICAR.

| | LIST OF STUDENTS ENROLLED AT IARI, NEW DELHI IN Ph.D. PROGRAMME DURING THE | | | | | | |
|------|--|---------------------------------|-------------------------------------|------------|--|--|--|
| ACA | ACADEMIC SESSION 2021-2022 & ELIGIBLE FOR ICAR-JRF @ Rs. 31000/- P.M. WITH | | | | | | |
| | CONTINGENCY @ Rs. 10000/-P.A. | | | | | | |
| S. | ROLL | NAME OF THE STUDENT | DISCIPLINE | DATE_ENROL | | | |
| No. | NO | | | | | | |
| 1. | 11941 | ARYAKRISHNAN J U | AGRICULTURAL | 31/12/2021 | | | |
| | | | ECONOMICS | | | | |
| 2. | 11942 | SOUMYA CHEELA | -do- | 31/12/2021 | | | |
| 3. | 11943 | PAVANA B A | -do- | 31/12/2021 | | | |
| 4. | 11944 | DIPANSHI AGARWAL | -do- | 31/12/2021 | | | |
| 5. | 11945 | RAJ RATAN PANDAY | -do- | 31/12/2021 | | | |
| 6. | 11948 | SEEMA ARYA | -do- | 31/12/2021 | | | |
| 7. | 11949 | BHASKAR DADASO CHOUGALE | AGRICULTURAL ENGINEERING (PFE) | 31/12/2021 | | | |
| 8. | 11950 | PARVATHY NAYANA N | -do- | 31/12/2021 | | | |
| 9. | 11951 | MONPARA MILAN CHANDULAL | -do- | 31/12/2021 | | | |
| 10. | 11952 | RAMYA C S | -do- | 31/12/2021 | | | |
| 11. | 11954 | SHWETA F MANIK | -do- | 31/12/2021 | | | |
| 12. | 11955 | SOUMYA KRISHNAN V | AGRICULTURAL ENGINEERING ((FMPE) | 31/12/2021 | | | |
| 13. | 11958 | VIKRAM NETAM | -do- | 31/12/2021 | | | |
| 14. | 11960 | MAYANGLAMBAM AARBINDRO SINGH | -do- | 31/12/2021 | | | |
| 15. | 11966 | RUPESH KUMAR | AGRICULTURAL ENGINEERING (SWCE) | 31/12/2021 | | | |
| 16. | 11969 | MANABRAJ MANNA | -do- | 31/12/2021 | | | |
| 17. | 11970 | DARA ROOHA BLESSY | -do- | 24/01/2022 | | | |
| 18. | 11971 | ADARSHA GOPALAKRISHNA BHAT | -do- | 31/12/2021 | | | |
| 19. | 11974 | UMASHANKER | -do- | 31/12/2021 | | | |
| 20. | 11975 | KOTHA SHRAVANI REDDY | -do- | 31/12/2021 | | | |
| 21. | 11976 | SWEETY MUKHERJEE | -do- | 31/12/2021 | | | |
| 22. | 11977 | AMANDEEP RANJAN | -do- | 31/12/2021 | | | |
| 23. | 11978 | ADUPA SHANMUKA | -do- | 31/12/2021 | | | |
| 24. | 11979 | SAURABH TIWARI | -do- | 31/12/2021 | | | |
| 25. | 11981 | GUDLA MANICHANDANA | -do- | 31/12/2021 | | | |
| 26. | 11982 | CHHANDA CHARANA MAHANANDA | -do- | 31/12/2021 | | | |
| 27. | 11983 | SEEMA KUJUR | -do- | 31/12/2021 | | | |
| 28. | 11984 | SETTIPALLI SRAVANI | -do- | 31/12/2021 | | | |
| 29. | 11985 | TARUN KUMAR | AGRICULTURAL PHYSICS | 31/12/2021 | | | |
| 30. | 11991 | TAMILSELVI C | AGRICULTURAL | 31/12/2021 | | | |
| - 21 | 11002 | D.MANIH BLATTIL | STATISTICS | 21/12/2021 | | | |
| 31. | 11992 | B.MANJUNATHA | -do- | 31/12/2021 | | | |
| 32. | 11997 | MANOJ VARMA | -do- | 31/12/2021 | | | |
| 33. | 11999 | HARISH NAYAK G H | -do- | 31/12/2021 | | | |
| 34. | 12000 | PRIYANKA SAHA | AGRONOMY | 31/12/2021 | | | |
| 35. | 12001 | SRIKANTH REDDY KALWALA | -do- | 31/12/2021 | | | |
| 36. | 12002 | SACHIN SINGH | -do- | 31/12/2021 | | | |
| 37. | 12003 | AKSHAY GLOTRA | -do- | 31/12/2021 | | | |

| 38 | 12004 | KAJAL ARORA | -do- | 31/12/2021 |
|------------|----------------|------------------------------|--------------------------------|--------------------------|
| | | SANKETH G D | -do- | 31/12/2021 |
| | 12005 | SWETALEENA MAHANA | -do- | 31/12/2021 |
| 41. | 12007 | GANESH PATEL | -do- | 31/12/2021 |
| 42. | 12008 | MANEESHA | -do- | 31/12/2021 |
| 43. | 12009 | ANAMIKA BARMAN | -do- | 31/12/2021 |
| 44. | 12010 | DEEPAK KUMAR MEENA | -do- | 31/12/2021 |
| 45. | 12011 | SHITAL KUMAR | -do- | 31/12/2021 |
| 46. | 12012 | SHASHANK PATEL | -do- | 31/12/2021 |
| 47. | 12013 | DEEPANYETA GOSWAMI | BIOCHEMISTRY | 31/12/2021 |
| 48. | 12014 | DEBDUT MANNA | -do- | 31/12/2021 |
| 49. | 12020 | ARPITHA S R | -do- | 31/12/2021 |
| 50. | 12021 | ASIF ALI V.K. | BIOINFORMATICS | 31/12/2021 |
| 51. | 12022 | LAL DHARI PATEL | -do- | 31/12/2021 |
| 52. | 12024 | SNEHASIS MALLIK | -do- | 31/12/2021 |
| 53. | 12026 | SUBHASISH SARKAR | COMPUTER APPLICATION | 31/12/2021 |
| 54. | 12027 | HARSH SACHAN | -do- | 31/12/2021 |
| 55. | 12028 | PRATIKSHA SUBBA | -do- | 31/12/2021 |
| 56. | 12032 | CHAITANYA | ENTOMOLOGY | 31/12/2021 |
| 57. | 12033 | RUDRA GOUDA | -do- | 31/12/2021 |
| 58. | 12034 | RAKESH V | -do- | 31/12/2021 |
| 59. | 12035 | KALYANAM SAI ISHWARYA | -do- | 31/12/2021 |
| | | LAKSHMI | | |
| 60. | 12036 | MAHENDRA K R | -do- | 31/12/2021 |
| 61. | 12037 | NANDHINI D. | -do- | 31/12/2021 |
| 62. | 12039 | SHASHIKALA M | -do- | 31/12/2021 |
| 63. | 12041 | AARTHI HELEN P | -do- | 31/12/2021 |
| 64. | 12049 | PANCHAL SANGMESH | FLORICULTURE AND | 31/12/2021 |
| | 12070 | | LANDSCAPING | 21/12/2021 |
| 65. | 12050 | DEVARAI LAVA KUMAR | -do- | 31/12/2021 |
| 66. | 12054 | CHANDANA SHIVASWAMY | -do- | 31/12/2021 |
| 67. 68. | 12056 12192 | LALDUHSANGA SULOCHANA K.H | -do- VEGETABLE SCIENCE | 31/12/2021 31/12/2021 |
| 69. | 12192 | GOWTHAMI | -do- | 31/12/2021 |
| 70. | 12195 | PASUPULA KARISHMA | -do- | 31/12/2021 |
| 71. | 12060 | MUKESH SHIVRAN | FRUIT SCIENCE | 31/12/2021 |
| | 12061 | BHUPENDRA SAGORE | -do- | 31/12/2021 |
| | 12063 | SHIKHA JAIN | -do- | 31/12/2021 |
| 74. | 12064 | SHIKHA SAINI | -do- | 31/12/2021 |
| 75. | 12065 | AJAY KUMAR | -do- | 31/12/2021 |
| 76. | 12066 | PARTH JANARDHAN JADHAV | -do- | 31/12/2021 |
| 77. | 12069 | RAVI VENKANNA BABU | -do- | 31/12/2021 |
| | | MADDELA | | |
| 78. | 12071 | SONAM MEENA | -do- | 31/12/2021 |
| 79. | 12072 | MEGHA M | -do- | 31/12/2021 |
| 80. | 12074 | SHASHIDHAR BR | GENETICS AND PLANT BREEDING | 31/12/2021 |
| 81. | 12075 | REVANTH RAGUL A | -do- | 31/12/2021 |
| 82. | 12076 | KYADA AMITKUMAR | -do- | 31/12/2021 |
| | | DILIPBHAI | | |
| 83. | 12077 | JAYANTH KALLUGUDI | -do- | 31/12/2021 |
| 84. | 12078 | ARVINTH S | -do- | 31/12/2021 |
| 85. | 12079 | UTTARAYAN DASGUPTA | -do- | 31/12/2021 |
| 86. | 12080 | ONTEDDU RESHMA | -do- | 31/12/2021 |
| 87. | 12081 | BOTTA THANDAVA GANESH | -do- | 31/12/2021 |
| 88. | 12082 | SHRIDHAR RAGI | -do- | 31/12/2021 |
| 89. | 12083 | AAVULA NAVEEN | -do- | 31/12/2021 |
| 90. | 12084 | SUBHASH BIJARANIA | -do- | 31/12/2021 |
| 91. | 12086 | BEERA BHAVYA | -do- | 31/12/2021 |

| 02 | 12087 | PAVAN KUMAR NAIK N | -do- | 31/12/2021 |
|------|----------------|--|-------------------|--------------------------|
| 93. | 12087 | SAHANA POLICE PATIL | -do- | 31/12/2021 |
| 94. | 12089 | BHASKAR CHANDRA SAHOO | -do- | 31/12/2021 |
| 95. | 12091 | PRIYA M | MICROBIOLOGY | 31/12/2021 |
| 96. | 12092 | SONAM PRIYADARSHANI | -do- | 31/12/2021 |
| 97. | 12093 | SAGAR S P | -do- | 31/12/2021 |
| 98. | 12094 | VIJAYSRI D | -do- | 31/12/2021 |
| 99. | 12097 | NYSANTH NS | -do- | 31/12/2021 |
| | 12098 | KHUARTI DEBBARMA | -do- | 31/12/2021 |
| | 12099 | ASHFAK SIRAJMAHAMMAD | MOLECULAR BIOLOGY | 31/12/2021 |
| 101. | 120)) | MUJAWAR | AND BIOTECHNOLOGY | 31,12,2021 |
| 102 | 12100 | MACHINDRA SUDHIR NIRGUDE | -do- | 31/12/2021 |
| | 12101 | REKHA MAHATO | -do- | 31/12/2021 |
| | 12102 | MEENA S | -do- | 31/12/2021 |
| | 12103 | MAHI BAANIYA | -do- | 31/12/2021 |
| | 12108 | ANINDITA BARUA | -do- | 31/12/2021 |
| | 12109 | KUMAR NUPUR HRISHIKESHAN | -do- | 31/12/2021 |
| | 12110 | LALSON WESLY J | NEMATOLOGY | 31/12/2021 |
| | 12124 | MEHULEE SARKAR | PLANT PATHOLOGY | 31/12/2021 |
| | 12125 | NIVETHA M | -do- | 31/12/2021 |
| | 12126 | MD FIROZ MONDAL | -do- | 31/12/2021 |
| | 12127 | BOGGALA VAJRAMMA | -do- | 31/12/2021 |
| 113. | 12128 | SHAIVYA SINGH | -do- | 31/12/2021 |
| | 12129 | BABU B | -do- | 31/12/2021 |
| | 12130 | RAHUL PATIDAR | -do- | 31/12/2021 |
| 116. | 12131 | ELANGOVAN M | -do- | 31/12/2021 |
| 117. | 12134 | NATASHA KASHYAP | -do- | 31/12/2021 |
| 118. | 12136 | KARIYAPPA R CHOUDAKER | -do- | 31/12/2021 |
| 119. | 12138 | SINTO ANTOO | PLANT PHYSIOLOGY | 31/12/2021 |
| 120. | 12139 | NIDHI CHATURVEDI | -do- | 31/12/2021 |
| 121. | 12140 | SK RABIUL ALAM | -do- | 31/12/2021 |
| 122. | 12141 | RAMESH R | -do- | 31/12/2021 |
| 123. | 12142 | ANIMIREDDY CHINA | -do- | 31/12/2021 |
| | | MALAKONDAIAH | | |
| | 12143 | ASHA SASTYA | -do- | 31/12/2021 |
| | 12144 | SOLAIYAAN M | -do- | 31/12/2021 |
| 126. | 12155 | PAYAL MATHUR | SEED SCIENCE AND | 31/12/2021 |
| 105 | 10176 | THE PART OF THE PA | TECHNOLOGY | 24/42/2024 |
| | 12156 | VIKRAM V PATIL | -do- | 31/12/2021 |
| | 12157 | MALLANNA | -do- | 31/12/2021 |
| | 12162 | BHANU VERMA | -do- | 31/12/2021 |
| | 12166 | RAVI SAINI | SOIL SCIENCE | 31/12/2021 |
| | 12168 | ARHAM TATER | -do- | 31/12/2021 |
| | 12169 12170 | SAPTAPARNEE DEY | -do- | 31/12/2021 |
| | 12170 | SHARAT KOTHARI ANSHUMAN PATEL | -do- | 31/12/2021 31/12/2021 |
| | 12171 | DEBRUP GHOSH | -do- | 31/12/2021 |
| | 12172 | PRABHAKAR PRASAD | -do- | 31/12/2021 |
| 130. | 141/3 | BARNWAL | -40- | 31/12/2021 |
| 137 | 12174 | CHINMAYEE BEHERA | -do- | 31/12/2021 |
| | 12174 | SWARNASHREE BARMAN | -do- | 31/12/2021 |
| | 12177 | SIYARAM MEENA | -do- | 31/12/2021 |
| | 12178 | MANJU KUMARI | -do- | 31/12/2021 |
| | 12180 | GAYATRI BHIMAPPA KUDARI | VEGETABLE SCIENCE | 31/12/2021 |
| | 12181 | GEETA P KARIGAR | -do- | 31/12/2021 |
| | 12182 | VARUN B H | -do- | 31/12/2021 |
| | 12183 | SIDDESH S | -do- | 31/12/2021 |
| | 12184 | NISHANT | -do- | 31/12/2021 |
| 146. | 12185 | NEHA SHARMA | -do- | 31/12/2021 |
| | | • | | • |

| 147. | 12186 | SAROJ KUMAR SAHU | -do- | 31/12/2021 |
|------|-------|------------------|------|------------|
| 148. | 12191 | RAMYA S | -do- | 31/12/2021 |

4. Award of Institute's Sr. Scholarship @ Rs.31,000/- per month for first two years and @Rs.35000/- per month for third year + Rs.10,000/- contingent grant per annum to 93 candidates admitted at IARI, New Delhi as per the list given below:

LIST OF STUDENTS ENROLLED AT IARI, NEW DELHI IN Ph.D. PROGRAMME DURING THE ACADEMIC SESSION 2021-22 & ELIGIBLE FOR INSTITUTE SCHOLARSHIP @ Rs. 31000/- p.m. WITH CONTINGENCY @ Rs. 10000/-p.a for first two years and @ Rs.35,000/- per month + Rs.10,000/-for third year

| | NS.10,000/-101 till u year | | | |
|-----------|----------------------------|---------------------------------------|--|-------------|
| S. No. | ROLL NO. | NAME OF THE STUDENT | DISCIPLINE | DATE_ENROL. |
| 1. | 11935 | ANIRBAN SIL | AGRICULTURAL CHEMICALS | 31/12/2021 |
| 2. | 11936 | SHYAM KUMAR GUPTA | -do- | 31/12/2021 |
| 3. | 11937 | RENU | -do- | 31/12/2021 |
| 4. | 11938 | SUMIT SHEKHAR | -do- | 31/12/2021 |
| 5. | 11939 | RANJEET KUMAR | -do- | 31/12/2021 |
| 6. | 11940 | BISWAJIT HORIJAN | -do- | 31/12/2021 |
| 7. | 11946 | ARUN D | AGRICULTURAL ECONOMICS | 31/12/2021 |
| 8. | 11947 | HARITHA K | -do- | 31/12/2021 |
| 9. | 11956 | ARUNA T N | AGRICULTURAL ENGINEERING (Farm Machinery & Power Engineering) | 31/12/2021 |
| 10. | 11957 | PRAJWAL R | -do- | 31/12/2021 |
| 11. | 11961 | SARIKONDA LEELA JYOTHI | -do- | 31/12/2021 |
| 12. | 12207 | TUSHAR DHAR | -do- | 11/01/2022 |
| 13. | 11967 | RONGALI MAHESH | AGRICULTURAL ENGINEERING (Soil & Water Conservation Engineering) | 31/12/2021 |
| 14. | 11968 | CHAVDA DHAVALKUMAR RANCHHODBHAI | -do- | 31/12/2021 |
| 15. | 11980 | FATHEEN ABRAR P N | AGRICULTURAL EXTENSION | 31/12/2021 |
| 16. | 11986 | SAILJA RASTOGI | AGRICULTURAL PHYSICS | 31/12/2021 |
| 17. | 11987 | ABHRADIP SARKAR | -do- | 31/12/2021 |
| 18. | 11988 | BIBHUTI BHUSAN SETHI | -do- | 31/12/2021 |
| 19. | 11989 | AKSHITA TOMAR | -do- | 31/12/2021 |
| 20. | 11990 | SUGAVANESHWARAN | -do- | 31/12/2021 |
| 21. | 12015 | SUSHMITHA J | BIOCHEMISTRY | 31/12/2021 |
| 22. | 12016 | TAMIL SELVAN S | -do- | 31/12/2021 |
| 23. | 12017 | KANGKAN PANDIT | -do- | 31/12/2021 |
| 24. | 12018 | GAMPA MALLESH | -do- | 31/12/2021 |
| 25. | 12019 | DURGESHWARI PRABHAKAR GADPAYALE | -do- | 31/12/2021 |
| 26. | 12038 | B V JAYANTH | ENTOMOLOGY | 31/12/2021 |
| 27. | 12040 | BISWAMITRA REANG | -do- | 31/12/2021 |
| 28. | 12042 | BABETLANG KHARSHIING | ENVIRONMENTAL SCIENCE | 31/12/2021 |
| 29. | 12043 | POOJA L R | -do- | 31/12/2021 |
| 30. | 12044 | SHEMEEM SHAH P | -do- | 31/12/2021 |
| 31. | 12045 | ANUSHA B S | -do- | 31/12/2021 |
| 32. | 12046 | MAYANK TIWARI | -do- | 31/12/2021 |
| 33. | 12047 | KOKILA | -do- | 31/12/2021 |
| 34. | 12048 | VIPUL KUMAR | -do- | 31/12/2021 |

| 35. | 12051 | EDIGA AMALA | FLORICULTURE AND LANDSCAPING | 31/12/2021 |
|-------------|-------|------------------------|------------------------------|------------|
| 36. | 12052 | SHREEKANT | -do- | 31/12/2021 |
| | 12053 | CHAITRA K | -do- | 31/12/2021 |
| 38. | 12055 | KURABALAKOTA | -do- | 31/12/2021 |
| 50. | 12033 | MADHAVI | ao | 31/12/2021 |
| 39. | 12067 | ADITYA | FRUIT SCIENCE | 31/12/2021 |
| | 12007 | DNYANESHWAR | 111011 00121 02 | 01,12,2021 |
| | | INGOLE | | |
| 40. | 12068 | POONAM MAURYA | -do- | 31/12/2021 |
| 41. | 12085 | NIRMALARUBAN R | GENETICS AND PLANT BREEDING | 31/12/2021 |
| 42. | 12095 | ARAVINDHARAJAN S | MICROBIOLOGY | 31/12/2021 |
| | | ТМ | | |
| 43. | 12096 | KAVYA T | -do- | 31/12/2021 |
| 44. | 12104 | ALVAKONDA SHEENA | MOLECULAR BIOLOGY AND | 31/12/2021 |
| | | SABATINA | BIOTECHNOLOGY | |
| 45. | 12105 | SOWMYAPRIYA R | MOLECULAR BIOLOGY AND | 31/12/2021 |
| | | | BIOTECHNOLOGY | |
| 46. | 12106 | SHAHINA PERWEEN | -do- | 31/12/2021 |
| 47. | 12217 | YASWANT KUMAR | -do- | 11/01/2022 |
| | | PANKAJ | | |
| 48. | 12111 | VENKADESH G | NEMATOLOGY | 31/12/2021 |
| 49. | 12112 | SWATHI KARTHIKA K | -do- | 31/12/2021 |
| | | S | | |
| 50. | 12113 | KATAKAM RUPINI | -do- | 31/12/2021 |
| | | KRISHNA | | |
| 51. | 12114 | MALLIKARJUN | -do- | 31/12/2021 |
| | | GURRAM | | |
| 52. | 12115 | MANSI | -do- | 31/12/2021 |
| | 12116 | KSHITIZ | -do- | 31/12/2021 |
| 54. | 12117 | SANDIP KUMAR | PLANT GENETIC RESOURCES | 31/12/2021 |
| | 12110 | PANIGRAHI | | 24/42/2024 |
| | 12118 | MITHRAA T | -do- | 31/12/2021 |
| 56. | 12119 | MALLIKARJUN | -do- | 31/12/2021 |
| | 10100 | BIRADAR | | 21/12/2021 |
| <i>5</i> 7. | 12120 | NAGARAJ NAIK D | -do- | 31/12/2021 |
| 58. | 12121 | SIVAKUMAR A | -do- | 31/12/2021 |
| 59. | 12122 | PRAVEEN | -do- | 31/12/2021 |
| <i>c</i> 0 | 10102 | GUMACHANAMARDI | 1. | 21/12/2021 |
| 60. | 12123 | KRISHNAMOORTHI A | -do- | 31/12/2021 |
| 61. | 12132 | SANDEEP KUMAR PANI | PLANT PATHOLOGY | 31/12/2021 |
| 62 | 12133 | SAMRAT PAUL | -do- | 31/12/2021 |
| 62. | | | | |
| 63. | 12135 | PEACE PANMEI | -do- | 31/12/2021 |
| 64. | 12137 | DEEP NARAYAN MISHRA | -do- | 31/12/2021 |
| 65. | 12145 | SAJEEL AHAMAD | POST HARVEST MANAGEMENT | 31/12/2021 |
| 66. | 12145 | T S HANUMESH | -do- | 31/12/2021 |
| 00. | 12140 | GOWDA | -uo- | 31/12/2021 |
| 67. | 12147 | KEERTHANA DAS | -do- | 31/12/2021 |
| 68. | 12147 | SINDHU P M | -do- | 31/12/2021 |
| 69. | 12149 | THIPPESWAMY B | -do- | 31/12/2021 |
| 70. | 12149 | GANESH KUMAR | -do- | 31/12/2021 |
| 70. | 14130 | CHOUPDAR | -uo- | 31/12/2021 |
| 71. | 12158 | ROHIT CHANDI | SEED SCIENCE AND TECHNOLOGY | 31/12/2021 |
| 72. | 12159 | ANBALAGAN A | -do- | 31/12/2021 |
| 73. | 12160 | SUSHMA M K | -do- | 31/12/2021 |
| 74. | 12161 | HEENA KOUSER H M | -do- | 31/12/2021 |
| \vdash | | | | |
| 75. | 12163 | MILU HERBERT | -do- | 31/12/2021 |

| 76. | 12164 | SUSHMITHA C H | -do- | 31/12/2021 |
|-----|-------|-------------------|------------------------------|------------|
| 77. | 12165 | ANGOTH GOUTHAMI | -do- | 31/12/2021 |
| 78. | 12175 | KALYANI VISHWAS | SOIL SCIENCE | 31/12/2021 |
| | | PATIL | | |
| 79. | 12179 | RIAJ RAHAMAN | -do- | 31/12/2021 |
| 80. | 12187 | AMIT KUMAR SINGH | VEGETABLE SCIENCE | 31/12/2021 |
| 81. | 12188 | RESHAV NAIK | -do- | 31/12/2021 |
| 82. | 12189 | PYLA SURESH | -do- | 31/12/2021 |
| 83. | 12190 | ANGELA ROLUAHPUII | -do- | 31/12/2021 |
| 84. | 12196 | BASARAVENI | WATER SCIENCE AND | 31/12/2021 |
| | | GOUTHAMI | TECHNOLOGY | |
| 85. | 12198 | ADITYA V | -do- | 31/12/2021 |
| | | MACHNOOR | | |
| 86. | 12199 | AMARPREET SINGH | -do- | 31/12/2021 |
| 87. | 12200 | VIGNESH PALANIVEL | -do- | 31/12/2021 |
| 88. | 12224 | SHUBHANGI | AGRICULTURAL ENGINEERING | 17/01/2022 |
| | | GORAKHNATH NILE | (Process & Food Engineering) | |
| 89. | 12225 | CHANDANA V | BIOINFORMATICS | 17/01/2022 |
| 90. | 12227 | SHUBHAM JAGGA | FRUIT SCIENCE | 21/03/2022 |
| 91. | 12228 | KANISHK MILIND | MOLECULAR BIOLOGY AND | 21/03/2022 |
| | | DIWEKAR | BIOTECHNOLOGY | |
| 92. | 12230 | RITAMBHARA | SOIL SCIENCE | 21/03/2022 |
| 93. | 12231 | LIKI ETE | WATER SCIENCE AND | 21/03/2022 |
| | | | TECHNOLOGY | |

Award of Institute's Sr. Scholarship @ Rs.31,000/- per month for first two years and @ Rs.35,000/- per month for third year + Rs.10,000 Contingent grant per annum to the following 07 students admitted at CIAE, Bhopal under IARI PG Outreach Programme

| | ROLL NO | NAME OF THE STUDENT | IDISCIPLINE | DATE OF ENROL. |
|----|------------|--------------------------|---------------------------------|-------------------|
| 1. | 11953 | AMAN KUMAR | AGRICULTURAL ENGINEERING (PFE) | 31/12/2021 |
| 2. | 11962 | ABHISHEK UPADHYAY | -do- | 31/12/2021 |
| 3. | 11963 | SRINIDHI G | -do- | 31/12/2021 |
| 4. | 11964 | BHUPENDRA GHRITALAHRE | -do- | 31/12/2021 |
| 5. | 11965 | RAVI KUMAR SAHU | -do- | 31/12/2021 |
| 6. | 11972 | AMIT PRASAD | AGRICULTURAL ENGINEERING (SWCE) | 31/12/2021 |
| 7. | 11973 | SURJEET SINGH ADILE | -do- | 31/12/2021 |

6. Award of Institute's Sr. Scholarship @ Rs.31,000/- per month for first two years and @ Rs.35,000/- per month + Rs.10,000/- Contingent grant per annum to the following 09 students admitted at IIHR, Bengaluru under IARI PG Outreach Programme

| | | NAME OF THE STUDENT | DISCIPLINE | DATE OF ENROL. |
|----|-------|------------------------|------------------------------|-------------------|
| 1. | 12057 | MAYA PRIYA | FLORICULTURE AND LANDSCAPING | 31/12/2021 |
| 2. | 12058 | PRIYA BHUSARADDI | -do- | 31/12/2021 |
| 3. | 12059 | VEERESH | -do- | 31/12/2021 |
| 4. | 12070 | SHIVAM | FRUIT SCIENCE | 31/12/2021 |
| 5. | 12073 | KIRAN K N | FRUIT SCIENCE | 31/12/2021 |
| 6. | 12151 | ASHWIJA B N | POST HARVEST MANAGEMENT | 31/12/2021 |
| 7. | 12153 | BRUNDA N B | -do- | 31/12/2021 |
| 8. | 12194 | MAHEBUB | VEGETABLE SCIENCE | 31/12/2021 |
| 9. | 12229 | NITHIN GOWDA T K | POST HARVEST MANAGEMENT | 21/03/2022 |

7. Award of Institute's Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 09 IARI students who were admitted under Faculty Up-gradation Scheme/ICAR-Inservice Scheme.

| S. No. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE OF ENROL. |
|-----------|------------|---|------------------------------------|-------------------|
| 1. | 12205 | PERKA SHIVA KUMAR, PJTSAU Hyderabad, FUS | AGRICULTURAL ECONOMICS | 13/01/2022 |
| 2. | 12206 | SWAPNAJA KABIRRAO JADHAV, CIAE, Bhopal, ICAR Inservice | AGRICULTURAL ENGINEERING (FMPE) | 13/01/2022 |
| 3. | 12212 | SULUGURI RAMESH,PJTSAU Hyderabad, FUS | ENTOMOLOGY | 13/01/2022 |
| 4. | 12213 | BHANUMURTHY K C, YSRHU,VR Gudem FUS | FLORICULTURE AND LANDSCAPING | 12/01/2022 |
| 5. | 12214 | BINDU PRAVEENA RAVIPATI, ANGRAU, Guntur, FUS | FRUIT SCIENCE | 12/01/2022 |
| 6. | 12215 | NONGTHOMBAM DEVACHANDRA, CAU, Pasighat, FUS | FRUIT SCIENCE | 13/01/2022 |
| 7. | 12218 | SHWETA KUMARI, IIVR Varanasi,ICAR Inservice | PLANT PATHOLOGY | 21/01/2022 |
| 8. | 12220 | SHANTIKUMAR LUKRAM, CAU Imphal, FUS | PLANT PHYSIOLOGY | 13/01/2022 |
| 9. | 12223 | POOJA RANI, CCSHAU, Hissar, FUS | SOIL SCIENCE | 12/01/2022 |

8. Award of Contingent grant only @ Rs.10,000/- per annum to the following 3 Departmental Candidates working at the same station.

| S. No. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE OF ENROL. |
|--------|---------|------------------------------|------------------------|----------------|
| 1. | 12204 | ABRAN SINGH KUSHWAH, IARI, | AGRICULTURAL CHEMICALS | 13/01/2022 |
| | | New Delhi, Deptt. Tech. | | |
| 2. | 12209 | RAJ KUMAR GOURAV IARI, New | AGRONOMY | 20/01/2022 |
| | | Delhi, Deptt. Tech. | | |
| 3. | 12219 | RAJ KIRAN, NBPGR, New Delhi, | PLANT PATHOLOGY | 20/01/2022 |
| | | Deptt. S. | | |

9. Following 10 students who were admitted in the disciplines of Agricultural Statistics, Bioinformatics and Computer Application will get their Institute Sr. Scholarship from IASRI.

| S.NO. | ROLL | NAME OF THE STUDENT | DISCIPLINE | DATE OF |
|-------|-------|---------------------------------|----------------------|------------|
| | NO. | | | ENROL. |
| 1. | 11993 | MUHSINA A | AGRICULTURAL | 31/12/2021 |
| | | | STATISTICS | |
| 2. | 11994 | ASHUTOSH DALAL | -do- | 31/12/2021 |
| 3. | 11995 | KAUSHAL KUMAR YADAV | -do- | 31/12/2021 |
| 4. | 11996 | PRAVEENKUMAR | -do- | 31/12/2021 |
| 5. | 11998 | VEERSHETTY | -do- | 31/12/2021 |
| 6. | 12023 | SHIVADARSHAN SHRISHAIL JIRLI | BIOINFORMATICS | 28/12/2020 |
| 7. | 12025 | RAGINI KUSHWAHA | -do- | 28/12/2020 |
| 8. | 12029 | BHAVESH KUMAR CHOUBISA | COMPUTER APPLICATION | 28/12/2020 |
| 9. | 12030 | SAHANA M R | -do- | 28/12/2020 |
| 10. | 12031 | SARAVANAKUMAR R | -do- | 28/12/2020 |

10. The Standing Committee did not recommend award of Institute's Sr. Scholarship to the following In-service student as he has already availed the benefit of Scholarship during his previous admission at IARI for the same programme and left the course incomplete.

| S.NO. | ROLL | NAME OF THE STUDENT | DISCIPLINE | DATE OF |
|-------|-------|----------------------------|-------------------|------------|
| | NO. | | | ENROL. |
| 1. | 12107 | VIRAJ GANGADHAR | MOLECULAR BIOLOGY | 31/12/2021 |
| | | KAMBLE, IISR, Indore, ICAR | AND BIOTECHNOLOGY | |
| | | Inservice | | |

11. The Standing Committee was also of the view that necessary recovery on account of Surety Bond, fellowship etc., as per rules may be made from the student, if due. Further, to avoid second time award of fellowship, a suitable undertaking to the effect that the student has not availed the benefit of Scholarship for the same programme earlier from or through IARI/ICAR, may be obtained.

417.3.2 Consideration of award of IARI Jr. Scholarship to M.Sc./ M.Tech. students for the award of IARI Jr. Scholarship.

During the Academic Session 2021-22, a total number of 261 candidates were admitted to M.Sc./M.Tech. degree programme under different Schemes at IARI and IARI PG Outreach Institutes. Seven (7) students discontinued the programme and hence removed from the rolls of the P.G. School. The Standing Committee made the following recommendations.

- 1. As per P.G. School Calendar para 15.3.3 and 15.3.5, the scholarships shall be awarded initially for a period of one academic year from the date of joining the Post Graduate School or the commencement of the academic year, whichever is later. The payment of Scholarship/Fellowship shall be reviewed at the end of 2nd Semester and only those students will be permitted to continue getting fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of 2nd Semester (*Commencement of the Academic Year 2021-22 is 03.01.2022*).
- 2. 168 students enrolled at IARI, New Delhi, IARI Assam, IARI Jharkhand, IIAB Ranchi, NIASM Baramati and NIBSM Raipur who are eligible for ICAR-PG Scholarship@ Rs.12640/- per month + Rs. 6,000/- will get their fellowship from ICAR.

LIST OF STUDENTS ENROLLED AT IARINEW DELHI, IARI ASSAM, IARI JHARKHAND, IIAB RANCHI, NIASM BARAMATI and NIBSM RAIPUR IN M.Sc. PROGRAMME UNDER ICAR-PG SCHOLARSHIP IN THE ACADEMIC YEAR 2021-2022 ELIGIBLE FOR ICAR-PGSCHOLARSHIP @ Rs. 12640/- P.M. WITH CONTINGENCY @ Rs. 6000/-P.A.

| S. NO. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE_ENROL | INSTITUTE |
|-----------|---------|------------------------|--------------------------------------|------------|--------------------|
| 1 | 21562 | DIPSIKHA MONDAL | AGRICULTURAL CHEMICALS | 31/12/2021 | IARI, New Delhi-12 |
| 2 | 21568 | SHUBHO PAUL | AGRICULTURAL ECONOMICS | 31/12/2021 | IARI, New Delhi-12 |
| 3 | 21569 | ANKIT | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 4 | 21570 | PAVAN KUMAR KUMAWAT | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 5 | 21571 | SNEHA S B | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 6 | 21572 | HITAISHREE M | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 7 | 21573 | SWATI SINGH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 8 | 21574 | PRABHAT KUMAR OJHA | AGRICULTURAL ENGINEERING (PFE) | 31/12/2021 | IARI, New Delhi-12 |
| 9 | 21575 | MUKESH PATTAIYA | -do- | 31/12/2021 | IARI, New Delhi-12 |

| 10 | 21576 | PIYUSHA MAHENDRA MATONDKAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
|----|-------|-------------------------------|---------------------------------------|------------|--------------------|
| 11 | 21577 | SAURABH KUMAR GUPTA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 12 | 21578 | SUBRATA MANDAL | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 13 | 21579 | MOHANASELVAN .T | AGRICULTURAL ENGINEERING (FMPE) | 31/12/2021 | IARI, New Delhi-12 |
| 14 | 21580 | RADHA KRISHNAN NA S | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 15 | 21581 | NAVEEN RACHAMALLA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 16 | 21582 | SOUBHAGYA SEKHAR NAYAK | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 17 | 21583 | SATHISH KUMAR B N | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 18 | 21584 | JADAV KAUSHIK AMRISHBHAI | AGRICULTURAL ENGINEERING (SWCE) | 31/12/2021 | IARI, New Delhi-12 |
| 19 | 21585 | SRIDHANABHARATHI B | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 20 | 21586 | ATHIRA SAJI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 21 | 21588 | BARNALI SAHA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 22 | 21589 | PASUPULETI SAHITHI | AGRICULTURAL EXTENSION | 31/12/2021 | IARI, New Delhi-12 |
| 23 | 21590 | ANIRBAN JANA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 24 | 21591 | MATHI GIRISHMA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 25 | 21592 | DEVANAND TRIPATHI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 26 | 21593 | OMPRAKASH N | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 27 | 21594 | NAVEEN KUMAR H N | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 28 | 21597 | SUMAN | AGRICULTURAL PHYSICS | 31/12/2021 | IARI, New Delhi-12 |
| 29 | 21599 | AKARSH SINGH | AGRICULTURAL STATISTICS | 31/12/2021 | IARI, New Delhi-12 |
| 30 | 21600 | SAIKATH DAS | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 31 | 21601 | SURYA PRAKASH TRIPATHI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 32 | 21603 | SUBHANKAR BISWAS | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 33 | 21604 | BANAVATH SAMUEL NAIK | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 34 | 21607 | SHUBHAM GROVER | AGRONOMY | 31/12/2021 | IARI, New Delhi-12 |
| 35 | 21608 | SHWETANSH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 36 | 21609 | SOUMYA PRAKASH BHOI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 37 | 21610 | SOUGATA ROY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 38 | 21611 | BIPASHA DAS | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 39 | 21612 | SUBRATA BAG | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 40 | 21614 | PRAKASH DHANAVATH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 41 | 21615 | SHUVARGHYA CHAKRABORTY | BIOCHEMISTRY | 31/12/2021 | IARI, New Delhi-12 |
| 42 | 21618 | SANJAY BEHERA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 43 | 21621 | ABHIK SARKAR | BIOINFORMATICS | 31/12/2021 | IARI, New Delhi-12 |
| 44 | 21630 | SASIKUMARAN S | COMPUTER APPLICATION | 31/12/2021 | IARI, New Delhi-12 |
| 45 | 21631 | ASMITA DAS | ENTOMOLOGY | 31/12/2021 | IARI, New Delhi-12 |

| 46 | 21632 | JESSA JOSEPH | -do- | 31/12/2021 | IARI, New Delhi-12 |
|----|-------|---|---|------------|--------------------|
| 47 | 21633 | DARSHANA BRAHMA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 48 | 21634 | ELIKA PAVAN VENKATA KUMAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 49 | 21635 | EERE VIDYA MADHURI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 50 | 21636 | JAGADAM SAI RUPALI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 51 | 21637 | AASHIQ POON V S | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 52 | 21638 | SINGAM SUDISHMA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 53 | 21645 | SOURAV PANIGRAHI | FLORICULTURE AND LANDSCAPING | 31/12/2021 | IARI, New Delhi-12 |
| 54 | 21646 | MARIYAM FIRDOUS | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 55 | 21647 | NASINA BALAJI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 56 | 21648 | SANGHITA ROY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 57 | 21649 | KUSUMA M.V | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 58 | 21650 | VALLARASU | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 59 | 21651 | CHAITHRA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 60 | 21652 | POOJA | FRUIT SCIENCE | 31/12/2021 | IARI, New Delhi-12 |
| 61 | 21653 | PRABHANJAN BHANUDAS RANE | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 62 | 21654 | LAYA P | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 63 | 21655 | RAUSHAN KUMAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 64 | 21656 | HARSHIT KUMAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 65 | 21658 | BAJJURI DIVYA | GENETICS AND PLANT BREEDING | 31/12/2021 | IARI, New Delhi-12 |
| 66 | 21659 | KAVYA R | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 67 | 21660 | NAMAN RAJ | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 68 | 21661 | SATYAM | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 69 | 21662 | RAGINI R | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 70 | 21663 | JENIA ROY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 71 | 21665 | DHARAVATH HATHIRAM | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 72 | 21667 | BARNANA MAITRA | MICROBIOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 73 | 21668 | YAMINI YADAV | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 74 | 21669 | KARTHIKA K | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 75 | 21670 | SANGRAM GARAI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 76 | 21671 | PRATIBHA BARIK | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 77 | 21673 | THARUN KUMAR C J | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 78 | 21674 | ASHUTOSH DILIPRAO THAKARE | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 79 | 21675 | SOUMYA CHAKRABORTY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 80 | 21676 | BALAJI B | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 81 | 21677 | SANJAY T D | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 82 | 21678 | SONAM BRIJLAL INGLE BRIJLAL INGLE | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 83 | 21679 | SUBHASH A | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 84 | 21680 | BHANU KUMAR TIWARI | -do- | 31/12/2021 | IARI, New Delhi-12 |

| 85 | 21681 | KIRAN MAHAVIR MAGDUM | -do- | 31/12/2021 | IARI, New Delhi-12 |
|-----|-------|-------------------------------------|-----------------------------|------------|--------------------|
| 86 | 21682 | VIMALA G | NEMATOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 87 | 21683 | ADHUNA K P | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 88 | 21684 | VOODIKALA SAI AKHIL | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 89 | 21689 | NETRA KALLEGOUDRA | PLANT PATHOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 90 | 21690 | MANOJ P N | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 91 | 21691 | ELORA PRIYADARSHINI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 92 | 21692 | PRATIBHA MURMU | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 93 | 21693 | AMBALAVANAN A | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 94 | 21694 | POULAMI BASAK | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 95 | 21695 | RASHI JAIN | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 96 | 21696 | PRADEEP | PLANT PHYSIOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 97 | 21697 | KUNKALA RAHUL KARTHIK | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 98 | 21698 | SIVAPRAGASAM | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 99 | 21699 | K.BHARATH CHANDRA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 100 | 21700 | AMOORU HARIKA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 101 | 21702 | AJAY NINANA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 102 | 21707 | SANDEEP | SEED SCIENCE AND TECHNOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 103 | 21708 | TANYA SINGH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 104 | 21709 | SHREYA PATIL | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 105 | 21710 | TUHINA GHOSH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 106 | 21711 | YALLAVVA MADAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 107 | 21712 | ALAPATI NYMISHA | SOIL SCIENCE | 31/12/2021 | IARI, New Delhi-12 |
| 108 | 21713 | JYOTIRMAY ROY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 109 | 21714 | CHAKRAPANI SAIKRISHNA KISHORE | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 110 | 21715 | MANISH KUMAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 111 | 21716 | THUNGASHAN KIKON | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 112 | 21718 | SWAGATA NANDI | VEGETABLE SCIENCE | 31/12/2021 | IARI, New Delhi-12 |
| 113 | 21719 | ANKITA SAHA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 114 | 21720 | LUHANA SOHAMKUMAR CHETANDAS | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 115 | 21721 | BANOTH THARUN | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 116 | 21722 | DHARMENDRA KUMAR VERMA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 117 | 21723 | KISHOR KARSHANBHAI VAROTARIYA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 118 | 21724 | DHARAVATH RAM BABU | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 119 | 21725 | THUSHAL R Y | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 120 | 21739 | BAGSARIYA NISHANT NITESHBHAI | NEMATOLOGY | 15/01/2022 | IARI, New Delhi-12 |

| 121 | 50075 | ROHITASH DOODWAL | AGRONOMY | 31/12/2021 | ASSAM (IARI) |
|-----|-------|----------------------------------|--------------------------------|------------|------------------|
| 122 | 50076 | ABHISHEK PATIDAR | -do- | 31/12/2021 | ASSAM (IARI) |
| 123 | 50077 | DEVENDRA KUMAR DADHICH | -do- | 31/12/2021 | ASSAM (IARI) |
| 124 | 50078 | ROOPA M N | GENETICS AND PLANT BREEDING | 31/12/2021 | ASSAM (IARI) |
| 125 | 50079 | UDAYA BHANU ANGIREKULA | -do- | 31/12/2021 | ASSAM (IARI) |
| 126 | 50081 | PRATHYAKSHA C S | SOIL SCIENCE | 31/12/2021 | ASSAM (IARI) |
| 127 | 50082 | BIJAN KUMAR MONDAL | -do- | 31/12/2021 | ASSAM (IARI) |
| 128 | 50083 | BARNALI MAJUMDER | VEGETABLE SCIENCE | 31/12/2021 | ASSAM (IARI) |
| 129 | 50084 | NABANITA ROY | -do- | 31/12/2021 | ASSAM (IARI) |
| 130 | 60094 | AMIT SINHA | AGRICULTURAL EXTENSION | 31/12/2021 | JHARKHAND (IARI) |
| 131 | 60095 | NUTHAKI VENKATA LEELA KRISHNA | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 122 | 60006 | CHAITHANYA | ACDONOMY | 21/12/2021 | HIADKHAND (IADI) |
| 132 | 60096 | TANMAY DAS | AGRONOMY | 31/12/2021 | JHARKHAND (IARI) |
| 133 | 60097 | KAVYA INUGANTI | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 134 | 60098 | INDRANI SAHA | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 135 | 60099 | SATYAM RAWAT | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 136 | 60100 | ARBUD LALA | ENTOMOLOGY | 31/12/2021 | JHARKHAND (IARI) |
| 137 | 60101 | KIRANKUMAR H | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 138 | 60105 | MADHUMATHI | FRUIT SCIENCE | 31/12/2021 | JHARKHAND (IARI) |
| 139 | 60106 | SAIKAT DEY | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 140 | 60107 | FIROS BASHA T M | GENETICS AND PLANT BREEDING | 31/12/2021 | JHARKHAND (IARI) |
| 141 | 60108 | SAYAN GOSWAMI | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 142 | 60109 | BHARGAVA KOTTE | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 143 | 60110 | RAGHAVENDRA J S | MICROBIOLOGY | 31/12/2021 | JHARKHAND (IARI) |
| 144 | 60112 | AYESHA SIDDIQA | PLANT PATHOLOGY | 31/12/2021 | JHARKHAND (IARI) |
| 145 | 60113 | CHERUKU ROSHINI | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 146 | 60114 | LOKESHA G | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 147 | 60115 | MUJTAHIDA KHATUN | SEED SCIENCE AND TECHNOLOGY | 31/12/2021 | JHARKHAND (IARI) |
| 148 | 60116 | SAYAN MAKUR | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 149 | 60117 | SUBHAJEET SARKAR | SOIL SCIENCE | 31/12/2021 | JHARKHAND (IARI) |
| 150 | 60118 | SARMISTHA PRIYADARSHINI | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 151 | 60119 | ANKIT KUMAR SINHA | VEGETABLE SCIENCE | 31/12/2021 | JHARKHAND (IARI) |
| 152 | 60120 | VASAVI DEVI | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 153 | 60121 | MEGHANA DEVIREDDY | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 154 | 70015 | DHARANI E | PLANT PHYSIOLOGY | 31/12/2021 | NIASM, Baramati |
| 155 | 80010 | DIYAN MANDAL | AGRONOMY | 31/12/2021 | NIBSM, Raipur |
| 156 | 80011 | SHRUTI SANJITA GIRI | -do- | 31/12/2021 | NIBSM, Raipur |
| 157 | 80012 | GOURANGA SAW | ENTOMOLOGY | 31/12/2021 | NIBSM, Raipur |
| 158 | 80013 | SAI MANOJ MARELLA | -do- | 31/12/2021 | NIBSM, Raipur |

| 159 | 80014 | ARCHITA DAS | -do- | 31/12/2021 | NIBSM, Raipur |
|-----|-------|-------------------|----------------|------------|---------------|
| 160 | 80015 | MALAWANTHKAR | -do- | 31/12/2021 | NIBSM, Raipur |
| | | RANI | | | |
| 161 | 80016 | CHANDANA H S | GENETICS AND | 31/12/2021 | NIBSM, Raipur |
| | | | PLANT BREEDING | | |
| 162 | 80017 | CHADUVULA | -do- | 31/12/2021 | NIBSM, Raipur |
| | | ESHWAR SAI PRASAD | | | |
| 163 | 80018 | SAYAN BANERJEE | MICROBIOLOGY | 31/12/2021 | NIBSM, Raipur |
| 164 | 80025 | PRAJJWAL RAI | PLANT | 31/12/2021 | NIBSM, Raipur |
| | | | PATHOLOGY | | |
| 165 | 90011 | JAYA KOTHAPELLY | GENETICS AND | 31/12/2021 | IIAB, Ranchi |
| | | | PLANT BREEDING | | |
| 166 | 90012 | ADEPU | -do- | 31/12/2021 | IIAB, Ranchi |
| | | PRIYADARSHINI | | | |
| 167 | 90013 | MUKESH RAJ | -do- | 31/12/2021 | IIAB, Ranchi |
| 168 | 90014 | KOPPULA SATYA SAI | -do- | 31/12/2021 | IIAB, Ranchi |
| | | KUMAR | | | |

3. Award of Institute's Jr. Scholarship @ Rs.7,560/- per month + Rs.6,000/- contingent grant per annum to 74 candidates admitted at IARI, New Delhi including the students who have been placed under outreach programme at IARI Assam, IARI Jharkhand, NIASM Baramati, NIBSM Raipur and IIAB Ranchi.

LIST OF STUDENTS ENROLLED AT IARI NEW DELHI, IARI ASSAM, IARI JHARKHAND, IIAB RANCHI, NIASM BARAMATI, NIBSM RAIPUR IN M.Sc. PROGRAMME IN THE ACADEMIC YEAR 2021-2022 ELIGIBLE FOR INSTITUTE SCHOLARSHIP @ Rs. 7560/- P.M. WITH CONTINGENCY @ Rs. 6000/-P.A.

| S.NO. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE_ENROL | INSTITUTE |
|-------|---------|---------------------------------------|---------------------------------------|------------|--------------------|
| 1. | 21563 | RIYA KUNDU | AGRICULTURAL CHEMICALS | 31/12/2021 | IARI, New Delhi-12 |
| 2. | 21564 | ASHUTOSH KUMAR SINGH | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 3. | 21565 | SOURABH SUMAN | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 4. | 21566 | ARINDAM RAY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 5. | 21567 | CHAVALI SAIKUMAR REDDY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 6. | 21734 | MALLIKARJUN CHANABASAPPA KALLUR | AGRICULTURAL ECONOMICS | 11/01/2022 | IARI, New Delhi-12 |
| 7. | 60093 | RAUMINSH KUMAR | AGRICULTURAL ENGINEERING (SWCE) | 31/12/2021 | JHARKHAND (IARI) |
| 8. | 70008 | BHAVANI | -do- | 31/12/2021 | NIASM, Baramati |
| 9. | 70009 | GANESH PRASAD SAHOO | -do- | 31/12/2021 | NIASM, Baramati |
| 10. | 70010 | VISHNU SUDHAGONI | -do- | 31/12/2021 | NIASM, Baramati |
| 11. | 21595 | SOURAMITA CHAKRABORTY | AGRICULTURAL PHYSICS | 31/12/2021 | IARI, New Delhi-12 |
| 12. | 21596 | SASHITOSH BEHERA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 13. | 21598 | SHARAN S P | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 14. | 21737 | PRATAHBIDYA NAYAK | -do- | 15/01/2022 | IARI, New Delhi-12 |
| 15. | 21745 | CHAPPALI HARENDRA | AGRONOMY | 21/03/2022 | IARI, New Delhi-12 |
| 16. | 21735 | PRAKASH SONNAD | -do- | 11/01/2022 | IARI, New Delhi-12 |
| 17. | 50074 | AYEKPAM DOLLINA DEVI | -do- | 31/12/2021 | ASSAM (IARI) |
| 18. | 21616 | VIVEK KUMAR | BIOCHEMISTRY | 31/12/2021 | IARI, New Delhi-12 |

| 19. | 21620 | RAMAVATH PREM KUMAR NAIK | -do- | 31/12/2021 | IARI, New Delhi-12 |
|-----|-------|------------------------------|---|------------|--------------------|
| 20. | 21639 | DIVYA SINHA | ENVIRONMENTA L SCIENCE | 31/12/2021 | IARI, New Delhi-12 |
| 21. | 21640 | KEERTHIKUMAR M | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 22. | 21641 | ABHILASHA CHOUDHARY | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 23. | 21642 | AVINASH C | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 24. | 21643 | LOKESH KUMAR MEENA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 25. | 21644 | SUCHITRA KUNDURU | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 26. | 21749 | SHEVAKULA MANASA | -do- | 21/03/2022 | IARI, New Delhi-12 |
| 27. | 60102 | MUTRA BALAKRISHNA REDDY | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 28. | 60103 | SAI KIRAN BURJI | -do- | 12/01/2022 | JHARKHAND (IARI) |
| 29. | 60104 | SUBHRANSU SEKHAR BEHERA | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 30. | 70011 | ASHOK KUMAR SUBUDHI | -do- | 31/12/2021 | NIASM, Baramati |
| 31. | 70012 | CHARISHMA NANDIMANDALAM | -do- | 31/12/2021 | NIASM, Baramati |
| 32. | 70013 | PRERNA KUMARI | -do- | 31/12/2021 | NIASM, Baramati |
| 33. | 21664 | AMIT KUMAR MAZUMDER | GENETICS AND PLANT BREEDING | 31/12/2021 | IARI, New Delhi-12 |
| 34. | 50080 | HARISH WALIKAR | -do- | 31/12/2021 | ASSAM (IARI) |
| 35. | 21672 | SONAM YANGCHAN | MICROBIOLOGY | 31/12/2021 | IARI, New Delhi-12 |
| 36. | 21750 | KONDERU NITEESH VARMA | -do- | 21/03/2022 | IARI, New Delhi-12 |
| 37. | 60111 | NALLAPAREDDY BAVANA REDDY | -do- | 31/12/2021 | JHARKHAND (IARI) |
| 38. | 80019 | PRAJWAL S K | -do- | 31/12/2021 | NIBSM, Raipur |
| 39. | 80020 | PALLAVI S | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 31/12/2021 | NIBSM, Raipur |
| 40. | 80021 | AJAY KUMAR | -do- | 31/12/2021 | NIBSM, Raipur |
| 41. | 80022 | USHA M S | -do- | 31/12/2021 | NIBSM, Raipur |
| 42. | 80023 | SHAKESPEAR.S | -do- | 31/12/2021 | NIBSM, Raipur |
| 43. | 90015 | SHIVAKUMARASWAM Y M | -do- | 31/12/2021 | IIAB, Ranchi |
| 44. | 90016 | MUSTAFA N | -do- | 31/12/2021 | IIAB, Ranchi |
| 45. | 90017 | SUDHEER BISHNOI | -do- | 31/12/2021 | IIAB, Ranchi |
| 46. | 90018 | PRATIK PRASAD SINGH | -do- | 31/12/2021 | IIAB, Ranchi |
| 47. | 90019 | SRADHANJALI JENA | -do- | 31/12/2021 | IIAB, Ranchi |
| 48. | 90020 | ANKIT RAJ | -do- | 21/01/2022 | IIAB, Ranchi |
| 49. | 21740 | KAVITA JAIN | NEMATOLOGY | 15/01/2022 | IARI, New Delhi-12 |
| 50. | 21685 | VIVEK KUMAR | PLANT GENETIC RESOURCES | 31/12/2021 | IARI, New Delhi-12 |
| 51. | 21686 | JYOTSNA VERMA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 52. | 21687 | SAMPA SAHA | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 53. | 21741 | SHRADHA MAHAWAR | -do- | 15/01/2022 | IARI, New Delhi-12 |
| 54. | 21742 | KUNAL | -do- | 18/01/2022 | IARI, New Delhi-12 |
| 55. | 21751 | GUTHI LIKHITHA | -do- | 21/03/2022 | IARI, New Delhi-12 |
| 56. | 21752 | JITENDRA KUMAR YADAV | -do- | 21/03/2022 | IARI, New Delhi-12 |

| 57. | 80026 | MANOJ N S | PLANT | 21/01/2022 | NIBSM, Raipur |
|-----|-------|----------------------------------|---------------|------------|--------------------|
| | | | PATHOLOGY | | |
| 58. | 21701 | SUBRATA DEBNATH | PLANT | 31/12/2021 | IARI, New Delhi-12 |
| | | | PHYSIOLOGY | | |
| 59. | 70014 | SHRICHARAN S | -do- | 31/12/2021 | NIASM, Baramati |
| 60. | 70016 | CHANUMOLU HARI GOPALA KRISHNA | -do- | 31/12/2021 | NIASM, Baramati |
| 61. | 70017 | SHANKAR KUMAR | -do- | 15/01/2022 | NIASM, Baramati |
| 62. | 21703 | SANTURI MOUNIKA | POST HARVEST | 31/12/2021 | IARI, New Delhi-12 |
| | | MANISREE | MANAGEMENT | | Ź |
| 63. | 21704 | RANJANI M | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 64. | 21705 | AJAY RAMESHBHAI | -do- | 31/12/2021 | IARI, New Delhi-12 |
| | | NAROLA | | | |
| 65. | 21706 | VATHSALA. V | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 66. | 21743 | DEEPAK | SOIL SCIENCE | 15/01/2022 | IARI, New Delhi-12 |
| 67. | 21753 | HIMANSHU SINGH | -do- | 21/03/2022 | IARI, New Delhi-12 |
| 68. | 21736 | SPARSH NATHOO | VEGETABLE | 11/01/2022 | IARI, New Delhi-12 |
| | | | SCIENCE | | |
| 69. | 50085 | WAHENGBAM ZENITH | -do- | 15/01/2022 | ASSAM (IARI) |
| | | SINGH | | | , , , |
| 70. | 21726 | KEERTHANA MAVERIL | WATER SCIENCE | 31/12/2021 | IARI, New Delhi-12 |
| | | | AND | | ŕ |
| | | | TECHNOLOGY | | |
| 71. | 21727 | VISHAL SANGWAN | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 72. | 21728 | NAVEEN KUMAR | -do- | 31/12/2021 | IARI, New Delhi-12 |
| 73. | 21729 | KRISHNA PATIDAR | -do- | 18/01/2022 | IARI, New Delhi-12 |
| 74. | 21744 | PAVAN PRABHAKAR | -do- | 18/01/2022 | IARI, New Delhi-12 |
| | | PANZADE | | | |

4. Award of Institute's Jr. Scholarship @ Rs.7,560/- per month + Rs.6,000/- contingent grant per annum to following 12 students who were admitted in the discipline of Agricultural Statistics, Bioinformatics and Computer Application will get their Institute Jr. Scholarship from IASRI.

| S.NO. | ROLL NO | NAME OF THE STUDENT | DISCIPLINE | DATE OF ENROL. |
|-------|---------|---------------------|----------------------------|----------------|
| 1 | 21602 | RAKESH CHHALOTRE | AGRICULTURAL STATISTICS | 31/12/2021 |
| 2 | 21605 | SUBHRADIP ROY | -do- | 31/12/2021 |
| 3 | 21606 | ASHISH GUPTA | -do- | 31/12/2021 |
| 4 | 21622 | RAVI | BIOINFORMATICS | 31/12/2021 |
| 5 | 21623 | DEEKSHA P M | -do- | 31/12/2021 |
| 6 | 21624 | ABHISHEK ANAND | -do- | 31/12/2021 |
| 7 | 21625 | SUBHAM GHOSH | -do- | 31/12/2021 |
| 8 | 21626 | SORNA A M | -do- | 31/12/2021 |
| 9 | 21628 | ROHIT VANSHRAJ | COMPUTER APPLICATION | 31/12/2021 |
| 10 | 21738 | NASIRHUSSAIN M Y | -do- | 15/01/2022 |
| 11 | 21746 | BHAVYA SHREE V | -do- | 21/03/2022 |
| 12 | 21748 | GOURAV MAITRA | -do- | 21/03/2022 |

417.3.3 The Academic Council approved the continuation of the existing guidelines on the extension of the duration of the IARI Fellowship as per para 15.3.1 and 15.3.2 of PG School Calendar (2010-11).

417.3.4 On the issue of (i) to increase the duration of Scholarship for Ph.D. programme from 3 years to 4 years and (ii) to enhance the rate of Institute Junior Scholarship (for M.Sc. students) from Rs.7560/- per month to Rs.12640/- per month at par with the ICAR P.G. Scholarship, the Academic Council opined that the matter comes under the purview of ICAR.

Agenda Item No. 417.4: Consideration of the proceedings of the meeting of the Standing Committee on Faculty and Discipline made in its Meetings held on 12.05.2022 and 17.05.2022

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

417.4.1. Induction of following 16 Scientists for induction into PG Faculty in their respective disciplines at ICAR- IARI, New Delhi (12), IARI PG outreach Programme at ICAR-IIHR, Bengaluru (3) and ICAR-NIASM, Baramati (1) as they met the qualifications/eligibility criteria as per the prescribed guidelines.

| S. No. | Name of the Scientist & Designation | Name of the Discipline | |
|--------|---|-----------------------------|--|
| | IARI, New | Delhi | |
| 1. | Dr. Praveen KV, Scientist (SS) | Agricultural Economics | |
| 2. | Dr. Mohd. Harun, Scientist | Agricultural Statistics | |
| 3. | Dr. Prabina Kumar Meher, Scientist | Agricultural Statistics | |
| 4. | Dr. Prabhu Govindasamy, Scientist (SS) | Agronomy | |
| 5. | Dr. Neeraj Budhlakoti, Scientist | Bioinformatics | |
| 6. | Dr. (Ms.) Ratna Prabha, Scientist | Bioinformatics | |
| 7. | Dr. (Ms.) Bharati Pandey, Scientist | Bioinformatics | |
| 8. | Dr. Ashish Khandelwal, Scientist | Environmental Science | |
| 9. | Dr. (Ms.) Deeksha Joshi, Pr. Scientist | Plant Pathology | |
| 10. | Dr. Soham Ray, Scientist | Plant Physiology | |
| 11. | Dr. (Ms.) Bindvi Arora, Scientist | Post Harvest Management | |
| 12. | Dr. V. R. Yalamalle, Scientist(SS) | Seed Science and Technology | |
| | IARI PG outreach Programm | ne at IIHR, Bengaluru | |
| 1. | Dr. Mahadevaiah, C., Scientist | Genetics and Plant Breeding | |
| 2. | Dr. (Ms.) Deepa Samant, Scientist | Fruit Science | |
| 3. | Dr. Ayyagari V.V. Koundinya, Scientist | Vegetable Science | |
| | IARI PG Outreach Programme at NIASM, Baramati | | |
| 1. | Dr. Hanamant M. Halli, Scientist | Environmental Science | |

417.4.2. Recognition of the following 10 faculty members of IARI as Research guides for M.Sc. guidance in their respective disciplines as they met the prescribed requirements/eligibility criteria for becoming the research guides.

| S. No. | Name of the Scientist & Designation | Name of the Discipline |
|--------|--|------------------------|
| 1. * | Dr. Raju, R. Scientist | Agricultural Economics |
| 2. | Dr. Rajkumar Dhakar, Scientist (SS) | Agricultural Physics |
| 3. | Dr. (Ms.) Monika Kundu, Scientist (SS) | Agricultural Physics |

| 4. | Dr. Subhash Babu, Senior Scientist | Agronomy |
|-----|---|------------------------------|
| 5. | Dr. (Ms.) Yasin Jeshima K., Scientist(SS) | Bioinformatics |
| 6. | Dr. Ajai Kumar Tiwari, Pr. Scientist | Floriculture and Landscaping |
| 7. | Dr. (Ms.) Babita Singh, Scientist | Floriculture and Landscaping |
| 8. | Dr. (Ms.) Manjusha Verma, Pr. Scientist | Plant Genetic Resources |
| 9. | Dr. (Ms.) Ruchi Bansal, Scientist(SS) | Plant Physiology |
| 10. | Dr. Vijayakumar H.P., Senior Scientist | Seed Science and Technology |

^{*} considering the teaching and guidance experience in his previous institution

417.4.3. Recognition of the following two faculty members of IIHR Bengaluru as Research guide for PhD guidance in their respective disciplines as they met the prescribed requirements/eligibility criteria for becoming the research guides.

| S. No. | Name & Designation | Name of the Discipline |
|-----------|-------------------------------------|------------------------|
| 1. | Dr. S. Sriram, Pr. Scientist | Plant Pathology |
| 2. | Dr. K. V.Ravishankar, Pr. Scientist | Plant Physiology |

417.4.4. Provisional and conditional recognition of the following 12 Faculty Members as Research guide for Ph.D. guidance i.e., 8 Faculty members of IIHR Bengaluru and 4 Faculty member of CIAE Bhopal as **special case after giving some relaxations due to paucity of Research Guides at these Institutes to run the programme subject to monitoring and evaluation of their performance by the Standing Committee.**

| S. No. | Name & Designation | Name of the Discipline | Recommended for Research Guide with relaxation | |
|-----------|--------------------------------|----------------------------|---|--|
| | IARI PG outrea | ach Programme at II | HR, Bengaluru | |
| 1 | Dr. (Ms.) Shamina Azeez, | Biochemistry | Relaxation of 1 M.Sc. Student | |
| | Pr. Scientist | | Guidance | |
| 2 | Dr. (Ms.) P.D.Kamala Jayanthi, | Entomology | Relaxation of 2 year teaching | |
| | National Professor | | experience | |
| 3 | Dr. Kundan Kishore, | Fruit Science | do | |
| | Pr. Scientist | | | |
| 4 | Dr. Basavaprabhu L Patil, | MBB | do | |
| | Pr. Scientist | | | |
| 5 | Dr. (Ms.) T.R. Usharani, | MBB | Relaxation of 1 M.Sc. Student | |
| | Senior Scientist | | Guidance | |
| 6 | Dr. (Ms.)G. Sangeetha, | Plant Pathology | Relaxation of 2 year teaching | |
| | Pr. Scientist | | experience | |
| 7 | Dr. Shivashankara K.S., | Plant Physiology | Relaxation of 1 year teaching | |
| | Pr. Scientist | | experience | |
| 8 | Dr. (Ms.)Smaranika Mishra, | Vegetable | Relaxation of 5year teaching | |
| | Scientist | Science | experience | |
| | IARI PG outr | each Programme at (| CIAE, Bhopal | |
| 1. | Dr. Rajwade Yogesh | Agricultural | Relaxation of 2 M. Tech. | |
| | Anand, Scientist | Engineering | students guidance | |
| | | (SWCE) | _ | |

| 2. | Dr. Sandeep Mandal, | Agricultural | do |
|----|------------------------------|-------------------|----|
| | Sr. Scientist | Engineering (FPE) | |
| 3. | Dr. Narendera Singh Chandel, | Agricultural | do |
| | Sr. Scientist | Engineering(FPE) | |
| 4. | Dr. Kate Adinath Eknath, | Agricultural | do |
| | Scientist | Engineering | |
| | | (ASPE) | |

417.4.5. Provisional and conditional recognition of the following 3 Faculty members for NIBSM, Raipur and one each Faculty Members for IIAB, Ranchi and IARI-Jharkhand as Research guide for M.Sc. guidance as special case after giving some relaxations due to paucity of Research Guides at these Institutes to run the programme subject to monitoring and evaluation of their performance by the Standing Committee.

| | IARI PG outreach Programme at NIBSM, Raipur | | | | |
|----|---|----------------------------|---------------------|--|--|
| 1. | Dr. P. Mooventhan, | Agricultural Extension | Relaxation of 3year | | |
| | Scientist | Education | teaching experience | | |
| 2. | Dr. Mallikarjuna, J. | Entomology | do | | |
| | Scientist (Sr.Scale) | | | | |
| 3. | Dr. Shridhar Jandrajupalli | Entomology | do | | |
| | Senior Scientist | | | | |
| | IARI PG outre | each Programme at IIAB, Ra | nchi | | |
| 1. | Dr. Kishor Uttamrao Tribhuvan, | Molecular Biology and | do | | |
| | Scientist | Biotechnology | | | |
| | IIAB, Jharkhand | | | | |
| 1. | Shashi Bhushan Choudhary, | Genetics and Plant | do | | |
| | Sr. Scientist | Breeding | | | |

417.4.6.The Academic Council approved the recommendation of the Standing Committee the candidature of **Dr. S.C. Datta**, Former Emeritus Scientist, IARI for recognition as Adjunct Faculty, for a second term in the discipline of Soil Science.

Regarding other proposals from different disciplines, the Academic Council of the opinion that they may be first put up to the Standing Committee.

Agenda Item No. 417.5: Consideration of BSMA approved Courses and Syllabi recommended by the Standing Committee on Courses and Curricula for implementation from 2022-23 academic session

The Academic Council discussed the recommendations made by the Standing Committeeon the BSMA courses/syllabi for all the teaching disciplines. After detailed discussion the Academic Council approved the following:

- As per BSMA recommendations, Course title, code and credit hour of courses are to be retained.
- For M.Sc./M.Tech. only 500 courses series are applicable.
- For Ph.D. only 600 series courses are applicable.
- For Ph.D. 500 series courses could be opted in supporting/others subjects.

- For Cross listed Courses, the credit hour must be kept same in both/many disciplines.
- New courses may be introduced in addition to BSMA approved recommendations, as per the need of the discipline and NEP provisions.
- The observations and anomalies on the BSMA reports concerning to some of the disciplines of IARI to be sent to DDG (Edn) for consideration.

Credit Requirements

| - | Masters' Programme | Doctoral Programme |
|---------------------|--------------------|--------------------|
| (i) Course work | | |
| Major courses | 20 | 12 |
| Minor courses | 08 | 06 |
| Supporting courses | 06 | 05 |
| Common courses | 05 | - |
| Seminar | 01 | 02 |
| (ii)Thesis Research | 30 | 75 |
| Total | 70 | 100 |

Common Courses (Requirement: 05 Credits)

| Course | Course Title | Credit |
|---------|---|--------|
| Code | | Hours |
| *PGS501 | Library and Information Services | 0+1 |
| *PGS502 | Technical Writing and Communications Skills | 0+1 |
| *PGS503 | Intellectual Property and its management in Agriculture | 0+1 |
| *PGS504 | Basic Concepts in Laboratory Techniques | 0+1 |
| *PGS505 | Agricultural Research, Research Ethics and Rural | 0+1 |
| | Development Programmes | |

The list of courses recommended by BOS of respective Disciplines and approved by the Academic Council are placed at **Appendix –I**

Agenda Item No. 417.6:

Consideration of Introduction of UG Programme, Diploma and Certificate courses, initiation of Sandwich PhD programme, Selffinancing scheme for Indian, foreign and non-Resident Indian students and International faculty

The Academic Council discussed the following proposals and recommendations of the Committees and approved them for initiation from 2022-23 academic session.

| Sr. | Programme | Chairman of the Committee |
|-----|--|-----------------------------------|
| No. | | |
| 1 | B.Sc. (Hons) Agriculture at | Dr. Rajbir Yadav, Head, |
| | IARI, New Delhi, IARI Jharkhand, IARI Assam (60 | Genetics |
| | seats each) | |
| 2 | B. Tech. (Agricultural Engineering) at | Dr. D.K. Singh, Professor, Agril. |
| | IARI New Delhi (30 seats) | Engg. |
| 3 | B.Tech. Biotechnology at | Dr. A.K. Shasany, Director, |
| | NIPB, New Delhi and IIAB, Ranchi (30 seats each) | NIPB |

| 4 | B.Sc. (Hons) Community Science at | Dr. R.N. Padaria, Head & |
|---|--|-------------------------------|
| | IARI, New Delhi (30 seats) | Professor, Agril. Extn. |
| 5 | Diploma/ Certificate Courses | Dr. Alka Singh, Head and |
| | | Professor, Agril. Economics |
| 6 | Sandwich PhD programme, Self-financing scheme for | Dr. C. Viswanathan, JD (Res.) |
| | Indian, foreign and non-Resident Indian students and | |
| | International faculty | |
| | | |

Certificate Courses (Duration: 3 Months)

- 1. Greenhouse Hydroponic and Aeroponic Farming (2022-23)
- 2. Disease and Pest Management (2022-23)
- 3. GAP for basmati farming (2023-24)
- 4. Farm Machinery Operation and Management (2023-24)

PG Diploma (Duration: One year)

- 1. Soil Testing and Nutrient Management (2022-23)
- 2. Seed Production, Processing and Quality Control (2022-23)
- 3. Data Science and Analytics (2022-23)
- 4. Abiotic Stress Management in Field and Horticultural Crops (2022-23)
- 5. Fruit Production Practices and Nursery Management (2023-24)
- 6. Organic Farming (2023-24)
- 7. Integrated Farming System

The Academic Council suggested that action may be taken through different committees as per the 5th Dean's Committee and Minimum requirements prescribed by ICAR for initiating the above new UG programme. The institute should also send a proposal to DDG (Edn.) on budget, fellowship, infrastructure, teaching and non-teaching staff requirement to initiate/support the UG programmes and also to meet the accreditation requirements.

The Academic Council discussed the existing fee structure for UG programme at ICAR-DUs and approved the same for the academic session 2022-23. The Academic Council was of the opinion that the fee should be increased at least by 10% annually for all the UG, PG and PhD programme.

Semester wise Fee Structure for the students admitted to B.Sc./B.Tech. programme

AT THE TIME OF ADMISSION/ REGISTRATION FOR 1st SEMESTER (2022-23)

| i) | Registration Fee | Rs.500/- |
|-------|---|--|
| ii) | Caution Money (Refundable) | Rs.10000/- |
| iii) | Tuition Fee for 1 st Semester | Rs.4000/- |
| iv) | Examination fee | Rs.600/- |
| v) | Hostel Fee | Rs.2000/- (Rs. 6000 for Married Hostel) |
| vi) | Water & Electricity Charges | Rs.1000/- (As per actual for Married and |
| | | International Hostel) |
| vii) | PGS Journal Subscription Fee (Annual) | Rs. 200/- |
| viii) | P.G. School Calendar Charges (One Time) | Rs.200/- |
| ix) | PGSS Union Fee (Annual) | Rs.300/- |
| x) | PGSSU Magazine Fee (Annual) | Rs.100/- |
| xi) | Students' Sports Fund (Annual) | Rs.200/- |
| xii) | PGS Student's Welfare Fund (Annual) | Rs. 200/- |
| xiii) | PGSSU Cultural and Literary Activities Fee (A | Annual)Rs.600/- |
| xiv) | Identity Card Fee (Annual) | Rs.100/- |

xv) IARI Alumni Life Membership Fee (One Time) Rs.250/-

Total Rs. 20,250/-

AT THE TIME OF REGISTRATION FOR IInd SEMESTER (2022-23)

i) Tuition Fee for IInd Semester Rs. 4000/-

ii) Hostel Fee Rs.2000/-(Rs. 6000 for Married Hostel)

iii) Water & Electricity Charges Rs. 1000/- (As per actual for Married

and International Hostel)

Total Rs. 7000/-

The recommendations of the Committee for initiation of Sandwich PhD programme, Selffinancing scheme for Indian, foreign and non-Resident Indian students and International faculty is placed at Appendix-II

The recommendation of the Committee for initiation of Certificate and Diploma Courses is placed at Appendix-III

Agenda Item No. 417.7: Consideration of revision in guidelines on charge of Professorship as decided in HoDs meeting held on 07.05.2022

The Academic Council approved the revised guidelines for nomination of Principal Scientist as Professor to supervise the teaching and other academic activities of the discipline.

| Sl. | Existing Criteria | Revised criteria approved by the | | | |
|-----|--|--|--|--|--|
| No. | S | Academic Council | | | |
| 1 | The Principal Scientist should be a faculty | The Principal Scientist should be a | | | |
| | member of the PG School in a particular | faculty member of the PG School in | | | |
| | discipline and should have at least 10 years | a particular discipline and should | | | |
| | teaching experience (i.e. should have taught at | have at least 10 years teaching | | | |
| | least 18 lectures, per year, at least for 5 years) in | experience (i.e. should have taught | | | |
| | the relevant discipline. | at least 18 lectures, per year, at least | | | |
| | | for 5 years) in the relevant | | | |
| | | discipline. | | | |
| | | For outreach Institution scientists: 5 | | | |
| | | Year teaching experience | | | |
| 2 | He/she should have guided at least four | He/she should have guided at least | | | |
| 2 | M.Sc./M.Tech./Ph.D. in his/her relevant | Four M.Sc./M.Tech./Ph.D.students | | | |
| | discipline subject to the condition that he/she | as Chairperson in his/her relevant | | | |
| | must have guided one Ph.D. student. | discipline. Out of 4, Two must be | | | |
| | must have guided one i mat students | Ph.D. students | | | |
| 3 | The Principal Scientist should have published at | The Principal Scientist should have | | | |
| | least seven research papers during the last 10 | published at least SEVEN research | | | |
| | years of service in reputed journals with NAAS | papers during the last FIVE years of | | | |
| | score of 6 and above. Of the seven research | service with NAAS score of 7 and | | | |
| | papers, at least three papers should be from | above. Out of SEVEN research | | | |
| | his/her M.Sc./M.Tech/Ph.D. students' thesis | papers, at least two papers should be | | | |
| | guided as Chairman. | from his/her M.Sc./M.Tech./Ph.D. | | | |

| | | students' thesis guided as | | |
|---|---|--------------------------------------|--|--|
| | | Chairperson. | | |
| 4 | Selection Procedure | | | |
| | Presentation/interview of short listed candidates | No presentation/interview. | | |
| | before the Judging Committee consisting of | Senior most Principal Scientist who | | |
| | Director, JDs and an External Expert | meets the above eligibility criteria | | |
| | | will be nominated as Professor | | |
| 5 | Assessment criteria | | | |
| | 70% weightage to achievements in teaching, | NA | | |
| | research and extension and 30% weightage to | | | |
| | Interview | | | |
| 6 | Tenure of Professorship | | | |
| | 5 years | Three years and only one term | | |
| | | (he/she should have a minimum 2 | | |
| | | years' service before his/her | | |
| | | superannuation) | | |

Agenda Item No. 417.8: Consideration of Guidelines for Divisional Gold Medal Award proposal for Master and Doctoral Students

The Academic Council discussed the proposal received from Mrs. Urmil Aggarwal, San Diego, California, USAD/o Late Dr. K. N. Synghal, Associate IARI 1945-1947, Joint Commissioner, Ministry of Food and Agriculture (1979) for instituting an annual Gold Medal Award to a graduating student in the School of Crop Enhancement to honor her late father Dr. Krishan Nath Synghal.

The Academic Council approved the following recommendations of the Committee under the chairmanship of Dean & Joint Director (Edn.) on such proposals:

- 1. Divisional level Gold Medal awards may be instituted in the memory of a scientist/ alumni of IARI, who has made outstanding contribution in research, teaching and /or extension in his/her field of specialization.
- 2. For institution of Gold Medal, the proposee (of the Gold Medal) will be required to deposit corpus money of Rs. 10.00 lakh (Ten lakh) with IARI.
- 3. The awardee will be awarded with a Gold Medal, Certificate and a cash prize of Rs. 10, 000 (Rupees ten thousand).
- 4. The amount of cash prizes of all Divisional Gold Medal Awards to be instituted henceforth will be kept same (*i.e.*, Rs. 10,000).

The Academic Council approved proposal to institute Divisional Gold Medal in the division of Soil Science and Agricultural Chemistry. The Gold Medal one each for MSc and PhD students will be awarded to the topper of M.Sc. and PhD students in the School of Natural Resource Management based on the marks obtained in IARI Merit Medal presentations. The propose of the Gold Medal Award would be informed accordingly.

Agenda Item No. 417.9: Considerations of Model MoU with SAUs, IRRI and other institutions

The Academic Council discussed the model framework of MoU between IARI and State Agricultural Universities and IRRI for collaboration in the area of research, teaching, technology transfer, exchange of students and faculty. After the detailed deliberations, the Academic Council approved the model MoU for State Agricultural Universities and IRRI(Appendix-IV). The Chairman Academic Council was authorised to execute the MoU on case-to-case basis as per the requirement of the institute.

Agenda Item No. 417.10 Finalization of number of seats for admission to B.Sc./B.Tech., M.Sc./M.Tech. and Ph.D. degree programmes at IARI, New Delhi and at PG outreach institutions for the Academic Session 2022-23

The Academic Council finalized the number of seats for B.Sc./B.Tech., M.Sc./M.Tech. and Ph.D. programmes in various disciplines at IARI required for the Academic Session 2022-23. The seat requirement will be sent to the Education Division of ICAR as ICAR-NTA conduct the All India Entrance Examination 2022 for admission of 100% seats at ICAR-DUs.

417.10.1 Discipline –wise Seat positions for B.Sc./B.Tech. Programmes at ICAR-IARI, New Delhi, ICAR-IARI, Assam and ICAR 0-ARI, Jharkhand and ICAR – IIAB, Ranchi

IARI-New Delhi

| S. No. | UG | UR+SC+ST | EWS | OBC | Total |
|--------|----------------------------------|----------|------------|-----|-------|
| 1. | B.Sc. (Hons.) Agriculture | 38 | 6 | 16 | 60 |
| 2. | B.Sc. (Hons.) Community Science | 19 | 3 | 8 | 30 |
| 3. | B.Tech. Agricultural Engineering | 19 | 3 | 8 | 30 |
| 4. | B.Tech. Biotechnology | 19 | 3 | 8 | 30 |
| | Total | 60+23+11 | 15 | 41 | 150 |

IARI-Assam

| S. No. | UG | UR+SC+ST | EWS | OBC | Total |
|--------|---------------------------|----------|------------|-----|--------------|
| 1. | B.Sc. (Hons.) Agriculture | 24+9+5 | 6 | 16 | 60 |

IARI-.Iharkhand

| S. No. | UG | UR+SC+ST | EWS | OBC | Total |
|--------|---------------------------|----------|------------|------------|-------|
| 1. | B.Sc. (Hons.) Agriculture | 24+9+5 | 6 | 16 | 60 |

IIAB-Ranchi

| S. No. | UG | UR+SC+ST | EWS | OBC | Total |
|--------|-----------------------|----------|------------|-----|-------|
| 1. | B.Tech. Biotechnology | 12+5+2 | 3 | 8 | 30 |

417.10.2Discipline –wise Seat positions for M.Sc./M.Tech. Programmes at IARI, New Delhi, IARI-Assam and IARI-Jharkhand, NIASM- Baramati, NIBSM- Raipur and IIAB- Ranchi

| | TUDBIT Halper and IIID Hallem | | | | | |
|--------|-------------------------------|----------|-----|-----|-------|--|
| | IARI, New Delhi | | | | | |
| S. No. | Discipline | UR+SC+ST | EWS | OBC | Total | |
| 1. | AGRICULTURAL CHEMICALS | 4 | 1 | 2 | 7 | |
| 2. | AGRICULTURAL ECONOMICS | 3 | 1 | 1 | 5 | |
| 3. | AGRICULTURAL ENGINEERING | 3 | 0 | 2 | 5 | |

| | IARI, New Delhi | | | | | | |
|--------|---|----------|------------|------------|-------|--|--|
| S. No. | Discipline | UR+SC+ST | EWS | OBC | Total | | |
| | (Farm Machinery & Power Engineering) | | | | | | |
| 4. | AGRICULTURAL ENGINEERING | 4 | 0 | 1 | 5 | | |
| | (Process & Food Engineering) | | | | | | |
| 5. | AGRICULTURAL ENGINEERING | 3 | 1 | 1 | 5 | | |
| | (Soil & Water Conservation Engineering) | | | | | | |
| 6. | AGRICULTURAL EXTENSION | 5 | 1 | 2 | 8 | | |
| 7. | AGRICULTURAL PHYSICS | 4 | 0 | 2 | 6 | | |
| 8. | AGRICULTURAL STATISTICS | 6 | 1 | 3 | 10 | | |
| 9. | AGRONOMY | 4 | 1 | 2 | 7 | | |
| 10. | BIOCHEMISTRY | 4 | 1 | 2 | 7 | | |
| 11. | BIOINFORMATICS | 4 | 0 | 2 | 6 | | |
| 12. | COMPUTER APPLICATION | 4 | 1 | 3 | 8 | | |
| 13. | ENTOMOLOGY | 5 | 1 | 2 | 8 | | |
| 14. | ENVIRONMENTAL SCIENCE | 5 | 1 | 2 | 8 | | |
| 15. | FLORICULTURE AND LANDSCAPING | 5 | 1 | 2 | 8 | | |
| 16. | FRUIT SCIENCE | 4 | 1 | 2 | 7 | | |
| 17. | GENETICS AND PLANT BREEDING | 5 | 1 | 3 | 9 | | |
| 18. | MICROBIOLOGY | 5 | 1 | 2 | 8 | | |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 7 | 1 | 2 | 10 | | |
| 20. | NEMATOLOGY | 5 | 0 | 1 | 6 | | |
| 21. | PLANT GENETIC RESOURCES | 5 | 0 | 1 | 6 | | |
| 22. | PLANT PATHOLOGY | 6 | 1 | 3 | 10 | | |
| 23. | PLANT PHYSIOLOGY | 4 | 1 | 2 | 7 | | |
| 24. | POST HARVEST MANAGEMENT | 4 | 1 | 1 | 6 | | |
| 25. | SEED SCIENCE AND TECHNOLOGY | 4 | 1 | 2 | 7 | | |
| 26. | SOIL SCIENCE | 6 | 0 | 2 | 8 | | |
| 27. | VEGETABLE SCIENCE | 5 | 1 | 3 | 9 | | |
| 28. | WATER SCIENCE AND TECHNOLOGY | 3 | 0 | 1 | 4 | | |
| 20. | Total | 126 | 20 | 54 | 200 | | |
| | 1 Otal | 120 | 20 | J + | 200 | | |

IARI-ASSAM

| S. No. | Discipline | UR+SC+ST | EWS | OBC | Total |
|--------|-----------------------------|----------|-----|-----|-------|
| 1. | AGRONOMY | 2 | 0 | 1 | 3 |
| 2. | GENETICS AND PLANT BREEDING | 3 | 0 | 0 | 3 |
| 3. | SOIL SCIENCE | 1 | 1 | 1 | 3 |
| 4. | VEGETABLE SCIENCE | 2 | 0 | 1 | 3 |
| | Total | 8 | 1 | 3 | 12 |

IARI-JHARKHAND

| S. No. | | | | | |
|--------|---|----------|-----|-----|-------|
| | Discipline | UR+SC+ST | EWS | OBC | Total |
| | | | | | |
| 1. | AGRICULTURAL ENGINEERING | 1 | 0 | 0 | 1 |
| | (Soil & Water Conservation Engineering) | | | | |
| 2. | ENTOMOLOGY | 1 | 0 | 1 | 2 |
| 3. | ENVIRONMENTAL SCIENCE | 1 | 1 | 0 | 2 |
| 4. | FRUIT SCIENCE | 2 | 0 | 0 | 2 |
| 5. | GENETICS AND PLANT BREEDING | 2 | 1 | 1 | 4 |
| 6. | MICROBIOLOGY | 1 | 0 | 1 | 2 |

| S. No. | Discipline | UR+SC+ST | EWS | OBC | Total |
|--------|-----------------------------|----------|-----|-----|-------|
| 7. | PLANT PATHOLOGY | 2 | 0 | 0 | 2 |
| 8. | SEED SCIENCE AND TECHNOLOGY | 1 | 0 | 0 | 1 |
| 9. | SOIL SCIENCE | 1 | 0 | 1 | 2 |
| 10. | VEGETABLE SCIENCE | 1 | 0 | 1 | 2 |
| | Total | 13 | 2 | 5 | 20 |

NIASM-BARAMATI

| S. No. | Discipline | UR+SC+ST | EWS | OBC | Total |
|--------|---|----------|-----|-----|-------|
| 1. | AGRICULTURAL ENGINEERING | 2 | 0 | 1 | 3 |
| | (Soil & Water Conservation Engineering) | | | | |
| 2. | ENVIRONMENTAL SCIENCE | 1 | 1 | 0 | 2 |
| 3. | PLANT PHYSIOLOGY | 1 | 0 | 1 | 2 |
| | Total | 4 | 1 | 2 | 7 |

NIBSM-RAIPUR

| S. No. | Discipline | UR+SC+ST | EWS | ОВС | Total |
|--------|-------------------------------------|----------|-----|-----|-------|
| 1. | ENTOMOLOGY | 1 | 1 | 0 | 2 |
| 2. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 1 | 0 | 1 | 2 |
| 3. | PLANT PATHOLOGY | 1 | 0 | 0 | 1 |
| | Total | 3 | 1 | 1 | 5 |

IIAB- RANCHI

| S. No. | Discipline | UR+SC+ST | EWS | ОВС | Total |
|--------|-------------------------------------|----------|-----|-----|-------|
| 1. | BIOCHEMISTRY | 1 | 0 | 0 | 1 |
| 2. | GENETICS AND PLANT BREEDING | 2 | 1 | 1 | 4 |
| 3. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 3 | 0 | 2 | 5 |
| | | 6 | 1 | 3 | 10 |
| | Grand Total | 160 | 26 | 68 | 254 |

417.10.3 Discipline -wise Seat positions for Ph.D. Programmes at IARI, New Delhi, IARI PG outreach programme at CIAE and IIHR

| | IARI, New Delhi | | | | | | |
|--------|--|-----------|-----|-----|-------|--|--|
| S. No. | Discipline | UR+ SC+ST | EWS | OBC | Total | | |
| 1. | AGRICULTURAL CHEMICALS | 6 | 1 | 3 | 10 | | |
| 2. | AGRICULTURAL ECONOMICS | 5 | 1 | 2 | 8 | | |
| 3. | AGRICULTURAL ENGINEERING (Farm Machinery & Power Engineering) | 4 | 1 | 2 | 7 | | |
| 4. | AGRICULTURAL ENGINEERING (Process & Food Engineering) | 3 | 1 | 1 | 5 | | |
| 5. | AGRICULTURAL ENGINEERING (Soil & Water Conservation Engineering) | 3 | 1 | 1 | 5 | | |
| 6. | AGRICULTURAL EXTENSION | 7 | 1 | 3 | 11 | | |
| 7. | AGRICULTURAL PHYSICS | 4 | 1 | 2 | 7 | | |
| 8. | AGRICULTURAL STATISTICS | 6 | 1 | 3 | 10 | | |
| 9. | AGRONOMY | 9 | 1 | 4 | 14 | | |

| | IARI, New Delhi | | | | | | |
|--------|-------------------------------------|-----------|-----|-----|-------|--|--|
| S. No. | Discipline | UR+ SC+ST | EWS | OBC | Total | | |
| 10. | BIOCHEMISTRY | 6 | 1 | 3 | 10 | | |
| 11. | BIOINFORMATICS | 5 | 1 | 2 | 8 | | |
| 12. | COMPUTER APPLICATION | 6 | 1 | 3 | 10 | | |
| 13. | ENTOMOLOGY | 7 | 1 | 3 | 11 | | |
| 14. | ENVIRONMENTAL SCIENCES | 5 | 1 | 3 | 9 | | |
| 15. | FLORICULTURE AND LANDSCAPING | 5 | 1 | 2 | 8 | | |
| 16. | FRUIT SCIENCE | 6 | 1 | 3 | 10 | | |
| 17. | GENETICS AND PLANT BREEDING | 11 | 1 | 4 | 16 | | |
| 18. | MICROBIOLOGY | 7 | 1 | 3 | 11 | | |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 9 | 1 | 4 | 14 | | |
| 20. | NEMATOLOGY | 5 | 1 | 2 | 8 | | |
| 21. | PLANT GENETIC RESOURCES | 6 | 1 | 2 | 9 | | |
| 22. | PLANT PATHOLOGY | 10 | 1 | 4 | 15 | | |
| 23. | PLANT PHYSIOLOGY | 5 | 1 | 2 | 8 | | |
| 24. | POST HARVEST MANAGEMENT | 4 | 1 | 2 | 7 | | |
| 25. | SEED SCIENCE AND TECHNOLOGY | 8 | 1 | 3 | 12 | | |
| 26. | SOIL SCIENCE | 10 | 1 | 4 | 15 | | |
| 27. | VEGETABLE SCIENCE | 8 | 1 | 3 | 12 | | |
| 28. | WATER SCIENCE AND TECHNOLOGY | 3 | 1 | 1 | 5 | | |
| | Total | 173 | 28 | 74 | 275 | | |

CIAE, Bhopal

| S. No. | Discipline | UR+ SC+ ST | EWS | ОВС | Total |
|--------|--|---------------|-----|-----|-------|
| 1. | AGRICULTURAL ENGINEERING (Farm Machinery & Power Engineering) | 3 | 0 | 0 | 3 |
| 2. | AGRICULTURAL ENGINEERING (Process & Food Engineering) | 1 | 1 | 1 | 3 |
| 3. | AGRICULTURAL ENGINEERING (Soil & Water Conservation Engineering) | 2 | 0 | 1 | 3 |
| | Total | 6 | 1 | 2 | 9 |

IIHR, Bengaluru

| S. No. | Discipline | UR+ SC+ ST | EWS | OBC | Total |
|--------|------------------------------|------------|-----|-----|-------|
| 1. | FLORICULTURE AND LANDSCAPING | 3 | 0 | 1 | 4 |
| 2. | FRUIT SCIENCE | 3 | 0 | 1 | 4 |
| 3. | POST HARVEST MANAGEMENT | 1 | 0 | 1 | 2 |
| 4. | VEGETABLE SCIENCE | 2 | 0 | 1 | 2 |
| ¥ | Total | 9 | 1 | 4 | 14 |
| | Grand Total | 188 | 30 | 80 | 298 |

417.10.4. In addition to the seats finalized for open stream, seats for admission to B.Sc./B.Tech, M.Sc. /M.Tech. & Ph.D. programmes under other streams are detailed below:

1. Faculty Up-gradation Scheme

-10 seats for Ph.D.

2. ICAR-In-Service Nominee Scheme -10 seats for Ph.D.

3. Departmental (Scientific)

-10 seats for Ph.D.

4. Departmental (Technical)

-10 seats (5 seats each for M.Sc./M.Tech.& Ph.D.)

5. J & K migrants

- 10 seats (5 seats each for M.Sc./M.Tech. & Ph.D.)

6. Children/widows of Security Forces -5 seats for M.Sc./M.Tech. & Ph.D.

- 7. Self-finance scheme for Indian, foreign national and Non-Resident Indian students in UG, PG and PhD Programme
 - 7(i) Self-finance scheme UG program (Total seats shall not exceed 40% over and above the intake of the programme). In 2022-23 academic session, 120 will be admitted under self-finance scheme for Indian, foreign, and NRI students put together.
 - (a) Self-finance scheme UG program for Indian Nationals(80 students; tuition fee Rs. 1 lakh per annum)
 - (b) Self-finance scheme UG program for Foreign Nationals & NRIs (40 students; tuition fee 4000US\$ per annum)
 - 7(ii) Self-finance scheme PG and Ph.D. programme for Foreign Nationals (50 seats in Academic session 2022-23; 25 each in MSc and PhD, respectively) (MSc-tuition fee 5000US\$ and PhD -4000US\$ per annum)
- 417.10.5. Due to paucity of hostel facilities, accommodation shall be provided as per the availability and merit.
- Agenda Item No. 417.11 Consideration of revision in guidelines of Institute awards viz., (i) Best Women Scientist Award, (ii) NABARD Researcher of the Year Award, (iii) Dr. H.K. Jain Memorial Young Scientist Award, and (iv) Dr. A.B. Joshi Memorial Award

The Academic Council discussed the recommendations of the Committee constituted under the Chairmanship of Dean & Joint Director (Edn.) for revision in guidelines and allocation of marks for screening the applications for the above awards. After detailed deliberations, the Academic Council approved the revised guidelines and allocation of marks as per Appendix-V.

Agenda Item No.417.12 Consideration of change of degree nomenclature of Agricultural Extension to Agricultural Extension Education as per the BSMA Recommendation

The Academic Council modified existing nomenclature of 'Agricultural Extension' as 'Agricultural Extension Education' to maintain uniformity in the degree nomenclature as per the BSMA recommendation.

The meeting ended with the vote of thanks to the Chair.

(PushpendraKumar) Member-Secretary

Hatt

(S.S. Sindhu)

Vice Chairperson

(A.K. Singh) Chairperson

DISCIPLINE WISE AND SEMESTER WISE DISTRIBUTION OF COURSES AS PER BSMA RECOMMENDATIONAPPLICABLE FROM THE ACADEMIC SESSION 2022-23

AGRICULTURAL CHEMICALS

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P | | | | |
|-------------|---|----------|----------|--|--|--|--|
| I-SEMESTER | | | | | | | |
| AC-501 | INTRODUCTION TO AGROCHEMICALS | 2 | 0 | | | | |
| AC-502 | CHEMICAL LABORATORY TECHNIQUES | 1 | 2 | | | | |
| AC-503* | BASIC CHEMISTRY | 3 | 1 | | | | |
| AC-504* | NATURAL PRODUCT CHEMISTRY | 2 | 1 | | | | |
| AC-506* | AGROCHEMICALS FOR INSECT, MITE AND TERMITE MANAGEMENT | 2 | 1 | | | | |
| AC-603 | ADVANCED ORGANIC CHEMISTRY | 2 | 1 | | | | |
| AC-604 | PESTICIDE METABOLISM, PERSISTENCE AND DECONTAMINATION | 2 | 1 | | | | |
| AC-591 | MASTER'S SEMINAR | 1 | 0 | | | | |
| AC-691 | DOCTORAL SEMINAR I | 1 | 0 | | | | |
| | II-SEMESTER | | L | | | | |
| AC-505* | AGROCHEMICAL REGULATION, QUALITY CONTROL AND MANAGEMENT | 2 | 0 | | | | |
| AC-507 | AGROCHEMICALS FOR DISEASE MANAGEMENT | 2 | 1 | | | | |
| AC-508 | AGROCHEMICALS FOR WEED AND CROP MANAGEMENT | 2 | 1 | | | | |
| AC-509 | CHROMATOGRAPHIC AND SPECTROSCOPIC TECHNIQUES | 2 | 1 | | | | |
| AC-510* | PESTICIDE RESIDUE CHEMISTRY | 2 | 1 | | | | |
| AC-601** | AGROCHEMICAL FORMULATION TECHNOLOGY | 2 | 2 | | | | |
| AC-602** | CHEMISTRY OF BIOPESTICIDES | 2 | 1 | | | | |
| AC-605 | TERM PAPER (SPECIAL TOPICS IN AGROCHEMICALS) | 1 | 0 | | | | |
| AC-591 | MASTER'S SEMINAR | 1 | 0 | | | | |
| AC-692 | DOCTORAL SEMINAR II | 1 | 0 | | | | |

^{*}Core Courses for MSc

^{**}Core Courses for PhD

AGRICULTURAL ECONOMICS

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|--|----------|----------|
| | I-SEMESTER | - | l. |
| AEC-501* | MICRO ECONOMIC THEORY AND APPLICATIONS | 3 | 0 |
| AEC-502* | AGRICULTURAL PRODUCTION ECONOMICS | 1 | 1 |
| AEC-504* | MACRO ECONOMICS AND POLICY | 2 | 0 |
| AEC- 506** | AGRICULTURAL DEVELOPMENT AND POLICY ANALYSIS | 2 | 0 |
| AEC-509* | RESEARCH METHODOLOGY FOR SOCIAL SCIENCES | 1 | 1 |
| AEC-603* | ADVANCED ECONOMETRICS | 2 | 1 |
| AEC-607** | QUANTITATIVE DEVELOPMENT POLICY ANALYSIS | 1 | 1 |
| AEC-608 | NATURAL RESOURCE MANAGEMENT | 2 | 1 |
| AEC-660 | DOCTORAL SEMINAR | 1 | 0 |
| AEC-661 | DOCTORAL SEMINAR | 1 | 0 |
| AEC-605 | OPERATIONS RESEARCH | 2 | 1 |
| AEC-699 | DOCTORAL RESEARCH | 75 | |
| | II-SEMESTER | - | l |
| AEC-503* | AGRICULTURAL MARKETING AND PRICE ANALYSIS | 2 | 1 |
| AEC-505* | ECONOMETRICS | 2 | 1 |
| AEC-507* | AGRICULTURAL FINANCE AND PROJECT MANAGEMENT | 2 | 1 |
| AEC-508* | LINEAR PROGRAMMING | 1 | 1 |
| AEC-511* | INTERNATIONAL ECONOMICS | 1 | 1 |
| AEC-512 | INSTITUTIONAL ECONOMICS | 1 | 0 |
| AEC-513* | NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS | 1 | 1 |
| AEC-514 | COMMODITY FUTURE TRADING | 2 | 0 |
| AEC-515* | DEVELOPMENT ECONOMICS | 2 | 0 |
| AEC-516 | RURAL MARKETING | 2 | 0 |
| AEC-517 | EVOLUTION OF ECONOMIC THOUGHT | 1 | 0 |
| AEC-591 | MASTER'S SEMINAR | 1 | 0 |

^{*}Indicates Core Courses which are Compulsory for Master Programme by BSMA

Total 20 +4 =24 credit hours for major course

 $[\]ensuremath{^{**}}$ Divisional BoS recommended these courses also as Major course, hence

AGRICULTURAL ENGINEERING

| COURSE CODE | COURSE NAME | CREDIT -L | CREDIT -P |
|-------------|--|--------------|--------------|
| | I-SEMESTER | | 1 - |
| | FARM MACHINARY POWER ENGINEERING | | |
| FMPE501* | SOILDYNAMICSIN TILLAGEANDTRACTION | 2+1 | 1 |
| FMPE502* | TESTINGANDEVALUATIONOFAGRICULTURALEQUIPMENT | 2+1 | 2 |
| FMPE503* | ERGONOMICSANDSAFETYINFARMOPERATIONS | 2+1 | 1 |
| FMPE504 | DESIGNOFTRACTORSYSTEMS | 2+1 | 1 |
| FMPE505 | DESIGNOFFARMMACHINERY-I | 2+1 | 1 |
| FMPE506 | DESIGNOFFARMMACHINERY-II | 1+1 | 2 |
| FMPE507* | MANAGEMENT OFFARMPOWERANDMACHINERYSYSTEM | 2+1 | 2 |
| FMPE511 | PRINCIPLESOFAUTOMATIONANDCONTROL | 2+1 | 1 |
| FMPE512 | PRINCIPLESOFHYDRAULICANDPNEUMATICSYSTEMS | 2+1 | 2 |
| FMPE513 | APPLIEDINSTRUMENTATION INFARMMACHINERY | 2+1 | 1 |
| FMPE514 | SYSTEMS SIMULATIONANDCOMPUTERAIDEDPROBLEM SOLVINGENENGINEERING | 1+1 | 1 |
| FMPE515 | COMPUTERAIDEDDESIGNOFMACHINERY | 0+2 | 2 |
| FMPE516 | ADVANCEMANUFACTURINGTECHNOLOGIES | 2+0 | 2 |
| FMPE517 | MACHINERYFORPRECISIONAGRICULTURE | 2+1 | 1 |
| FMPE518 | MACHINERYFOR HORTICULTUREANDPROTECTEDAGRICULTURE | 2+0 | 2 |
| FMPE601* | ADVANCESIN FARMMACHINERYANDPOWERENGINEERING | 2+1 | 1 |
| FMPE602 | ADVANCESINMACHINERYFORPRECISIONAGRICULTURE | 2+1 | 2 |
| FMPE603 | ENERGYCONSERVATION ANDMANAGEMENT INPRODUCTIONAGRICULTURE | 3+0 | 2 |
| FMPE604 | MECHANICSOF TILLAGEIN RELATIONTO SOILANDCROP | 2+1 | 1 |
| FMPE611 | MECHANICSOFTRACTIONANDITS APPLICATION | 2+1 | 2 |
| FMPE612* | FARMMACHINERYMANAGEMENT ANDSYSTEMSENGINEERING | 2+1 | 2 |
| FMPE613 | MACHINERYFORSPECIALFARMOPERATIONS | 2+1 | 2 |
| FMPE614 | ERGONOMICSINWORKINGENVIRONMENT | 2+1 | 1 |
| | PROCESSING AND FOOD ENGINEERING | <u> </u> | |
| *PFE501 | TRANSPORTPHENOMENAINFOODPROCESSING | 2+1 | 1 |
| *PFE502 | UNITOPERATIONSINFOODPROCESSENGINEERING | 2+1 | 1 |
| *PFE503 | FIELDCROPSPROCESSENGINEERING | 2+1 | 2 |
| *PFE504 | HORTICULTURALCROPSPROCESSENGINEERING | 2+1 | 2 |
| PFE505 | STORAGEENGINEERINGANDHANDLINGOFAGRICULTURALPRODUC | 2+1 | 1 |
| | E | | 1 |
| PFE506 | FOODPACKAGEENGINEERING | 1+1 | 1 |
| PFE507 | INSTRUMENTATION ANDSENSORSINFOODPROCESSING | 2+1 | 2 |

| PFE508 | APPLICATIONOFENGINEERINGPROPERTIESINFOODPROCESSING | 2+1 | 2 |
|---------------|---|------|-----|
| PFE509 | FOODQUALITYANDSAFETY | 2+1 | 1 |
| PFE510 | FOODPROCESSINGTECHNOLOGIES | 2+1 | 2 |
| PFE511 | FOODPROCESSINGEQUIPMENTANDPLANTDESIGN | 1+1 | 2 |
| PFE512 | SEED PROCESSENGINEERING | 1+1 | 2 |
| PFE513 | AGRI-PROJECTPLANNINGANDMANAGEMENT | 2+1 | 1 |
| PFE514 | FARMSTRUCTURESANDENVIRONMENTAL CONTROL | 2+1 | 2 |
| PFE515 | DAIRYPRODUCTPROCESSING | 2+1 | 1 |
| PFE516 | PROCESSINGOFMEAT, POULTRY AND FISH | 2+1 | 1 |
| PFE517 | DESIGNOFAQUACULTURALSTRUCTURES | 2+1 | 1 |
| PFE518 | THERMALENVIRONMENTAL ENGINEERING FORAGRICULTURAL PROCESSING | 2+1 | 2 |
| *PFE601 | ADVANCESINFOODPROCESSENGINEERING | 2+1 | 1 |
| *PFE602 | DRYINGANDDEHYDRATIONOF FOODMATERIALS | 2+1 | 2 |
| PFE603 | TEXTURALANDRHEOLOGICALCHARACTERISTICS OFFOODMATERIALS | 2+1 | 1 |
| PFE604 | AGRICULTURALWASTEANDBY-PRODUCTSUTILIZATION | 2+1 | 2 |
| PFE605 | MATHEMATICALMODELINGINFOODPROCESSING | 3+0 | 1 |
| PFE606 | BIOPROCESS ENGINEERING | 2+1 | 2 |
| | SOIL AND WATER CONSERVATION ENGINEERING | L | |
| *SWCE501 | ADVANCEDSOILANDWATERCONSERVATIONENGINEERING | 2+1 | 1 |
| *SWCE502 | APPLIEDWATERSHEDHYDROLOGY | 2+1 | 1 |
| SWCE503 | SOILANDWATERCONSERVATION STRUCTURES | 2+1 | 2 |
| SWCE504 | STOCHASTICHYDROLOGY | 2+1 | 1 |
| *SWCE505 | WATERSHEDMANAGEMENTANDMODELING | 2+1 | 2 |
| SWCE506 | FLOWTHROUGHPOROUSMEDIA | 2+0 | 2 |
| SWCE507/IDE50 | REMOTESENSINGANDGISFORLANDANDWATERRESOURCE MANAGEMENT | 2+1 | 1 |
| SWCE508 | CLIMATECHANGEANDWATERRESOURCES | 3+0 | 1 |
| SWCE509 | NUMERICALMETHODSINHYDROLOGY | 2+0 | 2 |
| SWCE510 | DRYLANDWATERMANAGEMENT TECHNOLOGIES | 2+0 | 2 |
| *SWCE601 | ADVANCESIN HYDROLOGY | 2+1 | 2 |
| *SWCE602 | SOILANDWATERSYSTEMSSIMULATIONANDMODELING | 2+1 | 1 |
| SWCE603 | RESERVOIROPERATIONANDRIVERBASINMODELING | 2+1 | 2 |
| SWCE604 | MODELINGSOIL EROSIONPROCESSESAND SEDIMENTATION | 2+1 | 1 |
| SWCE605 | WASTEWATERTREATMENTANDUTILIZATION | 3+0 | 1 |
| SWCE606 | HYDRO-CHEMICAL MODELING | 2+0 | 2 |
| SWCE691 | SEMINAR-I | 0+1 | 1/2 |
| SWCE692 | SEMINAR-II | 0+1 | 1/2 |
| SWCE699 | THESIS RESEARCH | 0+75 | 1/2 |

AGRICULTURAL EXTENSION

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|---------------|---|------------|----------|
| | I-SEMESTER | | |
| EXT 501* | EXTENSIONLANDSCAPE | 2 | 0 |
| EXT 502* | APPLIEDBEHAVIOURCHANGE | 2 | 1 |
| EXT 503* | ORGANISATIONALBEHAVIOURANDDEVELOPMENT | 2 | 1 |
| EXT 504* | RESEARCHMETHODOLOGYINEXTENSION | 2 | 1 |
| EXT 505* | CAPACITYDEVELOPMENT | 2 | 1 |
| EXT511*** | FOUNDATIONS OF EXTENSION EDUCATION | 2 | 1 |
| EXT-601* | POLICY ENGAGEMENT AND EXTENSION | 2 | 1 |
| EXT-602* | METHODOLOGIES FOR SOCIAL AND BEHAVIOURAL SCIENCES | 2 | 1 |
| EXT-603* | TECHNOLOGY COMMERCIALIZATION AND INCUBATION | 2 | 1 |
| EXT-608** | ADVANCES IN AGRICULTURAL EXTENSION EDUCATION | 2 | 1 |
| EXT-609** | AGRICULTURAL JOURNALISM | 2 | 1 |
| EXT-591 | MASTER'S SEMINAR | 1 | 1 |
| EXT-691 | DOCTORAL SEMINAR | 1 | 1 |
| EXT-692 | DOCTORAL SEMINAR | 1 | 1 |
| EXT 501* | EXTENSIONLANDSCAPE | 2 | 0 |
| EXT 502* | APPLIEDBEHAVIOURCHANGE | 2 | 1 |
| | II-SEMESTER | J | l |
| EXT 506* | ICTS FOR AGRICULTURAL EXTENSION AND ADVISORY SERVICES | 2 | 1 |
| EXT 507* | EVALUATIONANDIMPACTASSESSMENT | 2 | 1 |
| EXT 508 | MANAGING EXTENSION ORGANISATIONS | 2 | 1 |
| EXT 509 | ENABLING INNOVATION | 2 | 1 |
| EXT 510 | GENDER MAINSTREAMING | 2 | 1 |
| EXT-604* | EDUCATIONAL TECHNOLOGY AND INSTRUCTIONAL DESIGN | 2 | 1 |
| EXT-605 | RISK MANAGEMENT AND CLIMATE CHANGE ADAPTATION | 2 | 1 |
| EXT-606 | LIVELIHOOD DEVELOPMENT | 1 | 1 |
| EXT-607 | FACILITATION FOR PEOPLE CENTRIC DEVELOPMENT | 2 | 1 |
| EXT-610** | EMERGING TECHNOLOGIES IN AGRICULTURE | 2 | 1 |
| EXT-591 | MASTER'S SEMINAR | 1 | 0 |
| EXT-691 | DOCTORAL SEMINAR | 1 | 0 |
| EXT-692 | Doctoral Seminar | 1 | 0 |
| Research worl | K | | |
| EXT-599 | Master's research | 30 credits | |

| EXT-699 | Doctoral research | 75 credits | |
|---------|-------------------|------------|--|
| LIII O | Doctorul rescuren | 75 0100105 | |

^{*}Core courses recommended by BSMA

** Proposal for continuance of existing courses at IARI

*** Proposal for introduction of new courses

AGRICULTURAL PHYSICS

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|---|----------|----------|
| | I-SEMESTER | | |
| | | | |
| AP 501* | BASIC CONCEPTS OF AGRICULTURAL PHYSICS -I | 2 | 1 |
| AP 502* | BASIC CONCEPTS OF AGRICULTURAL PHYSICS -II | 3 | 0 |
| AP 503 | FUNDAMENTALS OF SOIL PHYSICS | 2 | 1 |
| AP 504* | MATHEMATICS IN AGRICULTURE | 3 | 0 |
| AP 505 | FUNDAMENTALS OF METEOROLOGY | 2 | 1 |
| AP 506* | PRINCIPLES OF BIOPHYSICS | 2 | 1 |
| AP 507 | PRINCIPLES OF REMOTE SENSING | 2 | 1 |
| AP 591 | MASTER'S SEMINAR | 1 | 0 |
| AP 599 | MASTER'S RESEARCH | 30 | 0 |
| AP 601* | ADVANCED OF SOIL PHYSICS | 2 | 1 |
| AP 603 | CROP MICROMETEOROLOGY AND EVAPOTRANSPIRATION | 2 | 1 |
| AP 604* | DIGITAL IMAGE PROCESSING | 1 | 1 |
| AP 691 | DOCTORAL SEMINAR I | 1 | 0 |
| AP 599 | MASTER RESEARCH | 30 | |
| | II-SEMESTER | | |
| AP 508 | PHYSICS OF SOIL AND WATER CONSERVATION | 2 | 1 |
| AP 509 | GENERAL CLIMATOLOGY | 2 | 1 |
| AP 510 | SOIL PHYSICAL ENVIRONMENT AND PLANT GROWTH | 2 | 1 |
| AP 511 | SIMULATION OF SOIL, PLANT AND ATMOSPHERIC PROCESSES | 2 | 1 |
| AP 512 | PRINCIPLES OF PHYSICAL TECHNIQUES IN AGRICULTURE | 2 | 1 |
| AP513 | PRINCIPLES AND APPLICATIONS OF GIS AND GPS | 2 | 1 |
| AP 514 | NANOSCIENCE AND TECHNOLOGY FOR AGRICULTURE | 2 | 0 |
| AP 515 | REMOTE SENSING IN AGRICULTURE | 2 | 1 |
| AP 602 | APPLIED SOIL PHYSICS | 2 | 1 |
| AP 605 | SATELLITE AGROMETEOROLOGY | 2 | 1 |
| AP 606 | SENSORS FOR SOIL, CROP AND ENVIRONMENT MONITORING | 2 | 1 |
| AP 607 | WEATHER HAZARDS AND ITS MANAGEMENT | 2 | 0 |
| AP 692 | DOCTORAL SEMINAR II | 1 | 0 |
| AP 699 | DOCTORAL RESEARCH | 75 | |

^{• *} Core Courses for M.Sc. and Ph.D.

AGRICULTURAL STATISTICS

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|--|----------|----------|
| | I-SEMESTER | | |
| *STAT552 | PROBABILITYTHEORY | 2 | 0 |
| *STAT553 | STATISTICALMETHODS | 2 | 1 |
| *STAT571 | MULTIVARIATEANALYSIS | 2 | 1 |
| *STAT572 | REGRESSIONANALYSIS | 1 | 1 |
| *STAT573 | STATISTICALCOMPUTING | 1 | 1 |
| STAT591 | SEMINAR | 0 | 1 |
| STAT551 | MATHEMATICS-I | 3 | 0 |
| STAT554 | ACTUARIALSTATISTICS | 2 | 0 |
| STAT555 | BIOINFORMATICS | 2 | 0 |
| STAT556 | ECONOMETRICS | 2 | 0 |
| STAT574 | TIMESERIESANALYSIS | 1 | 1 |
| STAT575 | DEMOGRAPHY | 2 | 0 |
| STAT576 | STATISTICALMETHODSFORLIFESCIENCES | 2 | 0 |
| STAT577 | STATISTICALECOLOGY | 2 | 0 |
| STAT501 | MATHEMATICS FOR APPLIED SCIENCES | 2 | 0 |
| STAT502 | STATISTICAL METHODS FOR APPLIED SCIENCES | 3 | 1 |
| STAT521 | APPLIEDREGRESSIONANALYSIS | 2 | 1 |
| STAT522 | DATAANALYSISUSINGSTATISTICALPACKAGES | 2 | 1 |
| *STAT 601 | ADVANCED DATA ANALYTICS | 1 | 2 |
| *STAT 602 | SIMULATION TECHNIQUES | 1 | 1 |
| *STAT 603 | LINEAR MODELS | 2 | 0 |
| *STAT 604 | ADVANCED STATISTICAL METHODS | 2 | 1 |
| STAT 691 | SEMINAR I | 0 | 1 |
| STAT 605 | MODELING TECHNIQUES FOR FORECASTING | 2 | 1 |
| STAT 606 | STOCHASTIC PROCESSES | 2 | 0 |
| STAT 607 | SURVIVAL ANALYSIS | 2 | 0 |
| STAT 608 | SPATIAL STATISTICS | 1 | 1 |
| STAT 692 | SEMINAR II | 0 | 1 |
| STAT 699 | RESEARCH | 75 | 0 |
| | II-SEMESTER | <u> </u> | 1 |
| *STAT562 | STATISTICALINFERENCE | 2 | 1 |
| *STAT563 | DESIGNOF EXPERIMENTS | 2 | 1 |
| *STAT564 | SAMPLINGTECHNIQUES | 2 | 1 |

| *STAT565 | STATISTICALGENETICS | 2 | 1 |
|-----------|--------------------------------|----|---|
| STAT561 | MATHEMATICS-II | 2 | 0 |
| STAT566 | STATISTICALQUALITYCONTROL | 2 | 0 |
| STAT567 | OPTIMIZATIONTECHNIQUES | 1 | 1 |
| STAT511 | EXPERIMENTALDESIGNS | 2 | 1 |
| STAT512 | BASICSAMPLINGTECHNIQUES | 2 | 1 |
| STAT 613 | ADVANCED SAMPLING TECHNIQUES | 2 | 1 |
| STAT 614 | ADVANCED STATISTICAL GENETICS | 2 | 1 |
| STAT 615 | ADVANCED TIME SERIES ANALYSIS | 2 | 0 |
| STAT 616 | ADVANCED BIOINFORMATICS | 2 | 0 |
| STAT 612 | ADVANCED DESIGN OF EXPERIMENTS | 2 | 1 |
| STAT 610# | ADVANCED STATISTICAL INFERENCE | 3 | 0 |
| *STAT 611 | BAYESIAN INFERENCE | 2 | 0 |
| STAT 691 | SEMINAR I | 0 | 1 |
| STAT 692 | SEMINAR II | 0 | 1 |
| STAT 699 | RESEARCH | 75 | 0 |

^{*}Core Courses which are Compulsory for M.Sc. and Ph.D. Programme # New course to be added

AGRONOMY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|----------------------|--|----------|----------|
| | I-SEMESTER | | |
| AGRON 501* | MODERN CONCEPTS IN CROP PRODUCTION | 3 | 0 |
| AGRON 503* | PRINCIPLES AND PRACTICES OF WEED MANAGEMENT | 2 | 1 |
| AGRON505 | CONSERVATION AGRICULTURE | 1 | 1 |
| AGRON 506 | AGRONOMY OF MAJOR CEREALS AND PULSES | 2 | 0 |
| AGRON 508 | AGRONOMY OF MEDICINAL, AROMATIC AND UNDER- UTILIZED CROPS | 2 | 1 |
| AGRON 510/ ES 510 | AGROSTOLOGY AND AGROFORESTRY | 2 | 1 |
| AGRON 511 | CROPPING SYSTEM AND SUSTAINABLE AGRICULTURE | 2 | 0 |
| AGRON550 | MASTER'S SEMINAR | 1 | 0 |
| AGRON 602* | RECENT TRENDS IN CROP GROWTH AND PRODUCTIVITY | 2 | 1 |
| AGRON 603 | IRRIGATION MANAGEMENT | 2 | 1 |
| AGRON 606 | SOIL CONSERVATION AND WATERSHED MANAGEMENT | 2 | 1 |
| AGRON 608 | RESEARCH AND PUBLICATION ETHICS | 2 | 0 |
| AGRON 691 | DOCTORAL SEMINAR I | 1 | 0 |
| AGRON 699 | DOCTORAL RESEARCH | 75 | |
| AGRON560 | MASTER'S RESEARCH | 30 | |
| | II-SEMESTER | L | |
| AGRON 502* | PRINCIPLES AND PRACTICES OF SOIL FERTILITY AND NUTRIENT MANAGEMENT | 2 | 1 |
| AGRON 504* | PRINCIPLES AND PRACTICES OF WATER MANAGEMENT | 2 | 1 |
| AGRON 507 | AGRONOMY OF OILSEED, FIBRE AND SUGAR CROPS | 2 | 1 |
| AGRON 509 | AGRONOMY OF FODDER AND FORAGE CROPS | 2 | 1 |
| AGRON 512 | DRYLAND FARMING AND WATERSHED MANAGEMENT | 2 | 1 |
| AGRON 513 | PRINCIPLES AND PRACTICES OF ORGANIC FARMING | 2 | 1 |
| AGRON550 | MASTER'S SEMINAR | 1 | 0 |
| AGRON560 | MASTER'S RESEARCH | 30 | |
| AGRON 601* | CURRENT TRENDS IN AGRONOMY | 3 | 0 |
| AGRON 604 | RECENT TRENDS IN WEED MANAGEMENT | 2 | 0 |
| AGRON 605 | INTEGRATED FARMING SYSTEMS FOR SUSTAINABLE AGRICULTURE | 2 | 0 |
| AGRON 607 | STRESS CROP PRODUCTION | 2 | 1 |
| AGRON 609 | EXPERIMENTAL TECHNIQUES IN AGRONOMY | 2 | 1 |
| AGRON 692 | DOCTORAL SEMINAR II | 1 | 0 |
| AGRON 699 | DOCTORAL RESEARCH | 75 | |

^{*} Compulsory Courses; AGRON 510/ES 510 Joint Courses with Environmental Sciences

BIOCHEMISTRY

| BIOCHEMISTRY COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-----------------------------|--|----------|----------|
| | I-SEMESTER | | |
| BIOCHEM 501* | BASIC BIOCHEMISTRY | 3 | 1 |
| BIOCHEM 503* | ENZYMOLOGY | 2 | 1 |
| BIOCHEM 508 | ANIMAL BIOCHEMISTRY | 3 | 0 |
| BIOCHEM 509 | NUTRITIONAL BIOCHEMISTRY | 2 | 1 |
| BIOCHEM 510 | NITROGEN AND SULPHUR METABOLISM | 2 | 1 |
| BIOCHEM 602 | ADVANCED MOLECULAR BIOLOGY | 3 | 0 |
| BIOCHEM 603 | BIOCHEMISTRY OF BIOTIC AND ABIOTIC STRESSES | 3 | 0 |
| BIOCHEM 604 | FRONTIER TOPICS IN BIOCHEMISTRY | 2 | 0 |
| BIOCHEM 606 | BIOMEMBRANES | 2 | 0 |
| BIOCHEM 607* | APPLICATIONS OF TECHNIQUES IN BIOCHEMISTRY | 1 | 2 |
| BIOCHEM 691 | DOCTORAL SEMINAR-I | 1 | 0 |
| BIOCHEM 591 | MASTER'S SEMINAR | 1 | 0 |
| BIOCHEM 599 | MASTER'S RESEARCH | 30 | |
| | II-SEMESTER | -1 | • |
| BIOCHEM 502* | INTERMEDIARY METABOLISM | 3 | 0 |
| BIOCHEM 504 | MOLECULAR BIOLOGY | 2 | 1 |
| BIOCHEM 505* | TECHNIQUES IN BIOCHEMISTRY | 2 | 2 |
| BIOCHEM 506 | IMMUNO CHEMISTRY | 2 | 1 |
| BIOCHEM 507 | PLANT BIOCHEMISTRY | 2 | 1 |
| BIOCHEM 511 | BIOCHEMISTRY ON XENOBIOTICS | 2 | 0 |
| BIOCHEM 591 | MASTER'S SEMINAR | 1 | 0 |
| BIOCHEM 601* | ADVANCED ENZYMOLOGY | 2 | 1 |
| BIOCHEM 605 | CONCEPTS AND APPLICATIONS OF OMICS IN BIOLOGICAL SCIENCE | 3 | 0 |
| BIOCHEM 608** | INDUSTRIAL BIOCHEMISTRY | 2 | 1 |
| BIOCHEM 692 | DOCTORAL SEMINAR-II | 1 | 0 |
| BIOCHEM 599 | DOCTORAL RESEARCH | 75 | |
| | | | |

^{*}Core course

^{**} New Course proposed

BIOINFORMATICS

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|---|----------|----------|
| | I-SEMESTER | | |
| *BI 501 | INTRODUCTION TO BIOINFORMATICS & COMPUTATIONAL BIOLOGY* | 2 | 1 |
| BI 503 | GENOME ASSEMBLY AND ANNOTATION | 1 | 1 |
| *BI 504 | BIOMOLECULAR MODELLING AND SIMULATION* | 2 | 1 |
| BI 505 | TRANSCRIPTOMICS AND METAGENOMICS | 2 | 1 |
| *BI 506 | BIOLOGICAL DATA MANAGEMENT* | 2 | 1 |
| BI 507 | BIOLOGICAL NETWORK MODELLING AND ANALYSIS | 2 | 1 |
| BI 510 | GRAPHICS AND VISUALIZATION OF BIOLOGICAL DATA | 1 | 1 |
| *BI 605 | #COMPARATIVE AND FUNCTIONAL GENOMICS* | 1 | 1 |
| BI 606 | PHYLOGENETICS | 2 | 1 |
| BI 607 | #R AND HIGH DIMENSIONAL GENOME DATA | 1 | 1 |
| BI 608 | PHARMACOGENOMICS & IPR | 3 | 1 |
| BI 609 | BIOLOGICAL DATA INTEGRATION AND QUALITY CONTROL | 1 | 1 |
| | II-SEMESTER | l | L |
| BI 508 | COMPUTER PROGRAMMING IN BIOINFORMATICS | 2 | 1 |
| BI 509 | MACHINE LEARNING TECHNIQUES IN BIOINFORMATICS | 2 | 1 |
| BIF 511 | OPTIMIZATION TECHNIQUES IN BIOINFORMATICS | 1 | 1 |
| BIF 512 | PROTEOMICS AND METABOLOMICS | 2 | 1 |
| *BI 601 | GENOME WIDE ASSOCIATION STUDY* | 2 | 1 |
| BI 602 | #COMPUTATIONAL ANALYSIS OF NON-CODING RNAS | 1 | 1 |
| BI 603 | #BIG DATA ANALYTICS | 1 | 1 |
| BI 604 | #SYSTEMS BIOLOGY | 3 | 0 |
| BI 610 | QUANTUM THEORY AND APPLICATIONS IN BIOINFORMATICS | 1 | 1 |
| BI 591/592 | MASTER'S SEMINAR-I/II | 1 | 0 |
| BI 691/692 | DOCTORAL SEMINAR-I/II | 1 | 0 |

^{*} Indicates Core Courses which are Compulsory for Ph.D. Programme

indicates New Courses introduced

COMPUTER APPLICATION

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|--------------|--|----------|----------|
| | I-SEMESTER | | 1 |
| *MCA 513 | MATHEMATICS FOR APPLIED SCIENCES | 2+0 | I |
| *MCA 514 | STATISTICAL COMPUTING | 1+1 | III |
| *MCA 551 | MATHEMATICAL FOUNDATIONS IN COMPUTER SCIENCE | 3+0 | I |
| *MCA 552 | OBJECT ORIENTED PROGRAMMING | 2+1 | I |
| *MCA 553 | DESIGN AND ANALYSIS OF ALGORITHMS | 2+1 | I |
| *MCA 571 | DATABASE MANAGEMENT SYSTEMS | 2+1 | III |
| *MCA 572 | SOFTWARE ENGINEERING | 2+0 | III |
| MCA 573 | OPERATING SYSTEM | 2+1 | III |
| MCA 574 | COMPILER CONSTRUCTION | 2+1 | III |
| MCA 575 | DATA WAREHOUSING AND DATA MINING | 2+1 | III |
| MCA 501 | COMPUTERS FUNDAMENTALS AND PROGRAMMING | 2+1 | I |
| MCA 502 | COMPUTER ORGANIZATION AND ARCHITECTURE | 2+0 | I |
| NOT ASSIGNED | ARTIFICIAL INTELLIGENCE | 2+1 | III |
| MCA 603 | SIMULATION AND MODELING | 1+1 | I |
| MCA 604 | INTRODUCTION TO BIG DATA | 2+1 | I |
| MCA 605 | INTRODUCTION TO IOT | 2+1 | I |
| MCA 606 | MANAGEMENT INFORMATION SYSTEMS | 2+0 | I |
| NOT ASSIGNED | FUZZY SETS AND ROUGH SETS | 2+1 | I |
| NOT ASSIGNED | ANN AND DEEP LEARNING | 2+1 | I |
| NOT ASSIGNED | DIGITAL IMAGE PROCESSING | 2+1 | I |
| | II-SEMESTER | | -1 |
| *MCA 561 | DATA STRUCTURES | 2+1 | II |
| *MCA 562 | SYSTEM SOFTWARE AND PROGRAMMING | 2+1 | II |
| *MCA 563 | INTERNET TECHNOLOGIES | 1+1 | II |
| MCA 564 | BIOINFORMATICS COMPUTING | 1+1 | II |
| MCA 565 | SOFT COMPUTING TECHNIQUES | 1+1 | II |
| *MCA 611 | COMPUTER ORIENTED NUMERICAL ANALYSIS | 2+1 | II |
| *MCA 612 | ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING | 2+1 | II |
| *MCA 615 | BIOINFORMATICS COMPUTING | 2+0 | II |
| MCA 691 | SEMINAR I | 0+1 | I/II |
| MCA 692 | SEMINAR II | 0+1 | I/II |
| MCA 511 | INTRODUCTION TO COMMUNICATION TECHNOLOGIES | 1+1 | II |
| MCA 613 | MULTIMEDIA AND ITS APPLICATIONS | 1+1 | II |
| MCA 614 | KNOWLEDGE BASED SYSTEMS FOR SEMANTIC WEB | 1+1 | II |
| NOT ASSIGNED | NATURAL LANGUAGE PROCESSING | 2+1 | II |

ENTOMOLOGY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P | | |
|--------------------|---|----------|----------|--|--|
| I-SEMESTER | | | | | |
| ENT501* | INSECT MORPHOLOGY | 2 | 1 | | |
| ENT502* | INSECT ANATOMY AND PHYSIOLOGY | 2 | 1 | | |
| ENT503* | INSECT TAXONOMY | 2 | 1 | | |
| ENT505* | BIOLOGICAL CONTROL OF INSECT PESTS AND WEEDS | 2 | 1 | | |
| ENT509* | PESTS OF FIELD CROPS | 2 | 1 | | |
| ENT510* | PESTS OF HORTICULTURE AND PLANTATION CROPS | 2 | 1 | | |
| ENT511* | POST HARVEST ENTOMOLOGY | 2 | 1 | | |
| ENT515 | TECHNIQUES IN PLANT PROTECTION | 0 | 1 | | |
| ENT516 | APICULTURE | 2 | 1 | | |
| ENT517 | SERICULTURE | 2 | 1 | | |
| ENT518 | LAC CULTURE | 2 2 | 0 | | |
| ENT520 ENT521 | PLANT QUARANTINE, BIOSAFETY AND BIOSECURITY EDIBLE AND THERAPEUTIC INSECTS | 1 | 1 | | |
| ENT522 | MEDICAL AND VETERINARY ENTOMOLOGY | 1 | 1 | | |
| ENT523 | FOREST ENTOMOLOGY | 1 | 1 | | |
| ENT524 | MASTER'S SEMINAR | 1 | 0 | | |
| ENT599 | MASTER'S RESEARCH | 30 | 0 | | |
| ENT601* | INSECT PHYLOGENY AND SYSTEMATICS | 1 | 2 | | |
| ENT603* | INSECT ECOLOGY AND DIVERSITY | 1 | 2 | | |
| ENT604* | INSECT BEHAVIOUR | 1 | 1 | | |
| ENT606* | INSECT TOXICOLOGY AND RESIDUES | 1 | 2 | | |
| ENT607 | PLANT RESISTANCE TO INSECTS | 1 | 1 | | |
| ENT608 | ACAROLOGY | 1 | 1 | | |
| ENT609 | MOLECULAR ENTOMOLOGY | 1 | 1 | | |
| ENT691 | INTEGRATED PEST MANAGEMENT | 2 | 0 | | |
| ENT692* | DOCTORAL SEMINAR | 1 | 0 | | |
| ENT699 | DOCTORAL RESEARCH | 75 | | | |
| II-SEMESTER | | | | | |
| ENT504* | INSECT ECOLOGY | 2 | 1 | | |
| ENT506* | TOXICOLOGY OF INSECTICIDES | 2 | 1 | | |
| ENT507* | HOST PLANT RESISTANCE | 1 | 1 | | |
| ENT508* | CONCEPTS OF INTEGRATED PEST MANAGEMENT | 2 | 0 | | |
| ENT510* | PESTS OF HORTICULTURE AND PLANTATION CROPS | 2 | 1 | | |
| ENT512 | INSECT VECTORS OF PLANT PATHOGENS | 2 | 1 | | |
| ENT513 | PRINCIPLES OF ACAROLOGY | 2 | 1 | | |
| ENT514 | VERTEBRATE PEST MANAGEMENT | 2 | 1 | | |
| ENT519 | MOLECULAR APPROACHES IN ENTOMOLGOY | 2 | 1 | | |
| ENT602* | INSECT PHYSIOLOGY AND NUTRITION | 1 | 2 | | |
| ENT605* | BIO-INPUTS FOR PEST MANAGEMENT | 1 | 2 | | |
| Cana Cannaga fan 1 | A Co. and DLD | l | | | |

Core Courses for M.Sc. and PhD.

ENVIRONMENTAL SCIENCES

| <u>ENVIRONMENTAL</u> | | | • |
|----------------------|--|----------|----------|
| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
| | I-SEMESTER | -1 | |
| ES 501 | INTRODUCTION TO ENVIRONMENTAL SCIENCES | 2 | 1 |
| ES 502 | ENVIRONMENTAL CHEMISTRY | 2 | 1 |
| ES 503/ PP605 | CLIMATE CHANGE AND CLIMATE SMART AGRICULTURE | 2 | 1 |
| ES 504 | INSTRUMENTAL METHODS FOR ENVIRONMENTAL MONITORING | 2 | 1 |
| ES 506 | ENVIRONMENTAL POLLUTION | 2 | 1 |
| ES 601 | ANALYSIS OF AGROECOSYSTEM | 2 | 1 |
| ES 602 | ENVIRONMENTAL IMPACT ASSESSMENT | 2 | 1 |
| ES 603 | WASTE MANAGEMENT | 2 | 1 |
| ES 604 | CROP GEOGRAPHY AND ECOLOGY | 2 | 1 |
| ES 591 | MASTERS SEMINAR | 1 | 0 |
| ES 691 | DOCTORAL SEMINAR I | 1 | 0 |
| ES 692 | DOCTORAL SEMINAR II | 1 | 0 |
| II-SEMESTER | | | |
| ES 505 | ENVIRONMENTAL ENGINEERING | 2 | 1 |
| ES 507 | ENVIRONMENTAL MICROBIOLOGY AND ECOLOGY | 2 | 1 |
| ES 508 | BIOFULES AND ENVIRONMENTAL PROTECTION | 2 | 1 |
| ES 509 | ENVIRONMENTAL TOXICOLOGY | 2 | 1 |
| ES | AGROSTOLOGY AND AGROFORESTRY | 2 | 1 |
| 510/AGRON | | | |
| 510 | | | |
| ES 511 | ENVIRONMENTAL GEOSCIENCES | 2 | 0 |
| ES 605 | BIODIVERSITY | 2 | 1 |
| ES 606/SWE 606 | PLANT GROWTH MODELING AND SIMULATION OF ECOLOGICAL PROCESSES | 2 | 1 |
| ES 607 | INTRODUCTION TO ENVIRONMENT LAW AND POLICY | 2 | 1 |
| ES 591 | MASTERS SEMINAR | 1 | 0 |
| ES 691 | DOCTORAL SEMINAR I | 1 | 0 |
| ES 692 | DOCTORAL SEMINAR II | 1 | 0 |
| | <u>l</u> | | |

Core courses:

MSc: ES 501, ES 502, ES 503, ES 504

PhD: ES 601, ES 602

FLORICULTURE AND LANDSCAPING

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|---------------------------|---|----------|----------|
| | I-SEMESTER | <u>I</u> | -1 |
| FLS501* | SYSTEMATIC OF ORNAMENTAL PLANTS | 2 | 1 |
| FLS502* | BREEDING OF ORNAMENTAL PLANTS | 2 | 1 |
| FLS504* | COMMERCIAL PRODUCTION OF LOOSE FLOWERS | 2 | 1 |
| FLS505* | ORNAMENTAL GARDENING AND LANDSCAPING | 2 | 1 |
| FLS509 | VALUE ADDITION IN FLORICULTURE | 2 | 1 |
| FLS512 | SEED PRODUCTION IN FLOWER CROPS | 1 | 1 |
| FSC515/VSC515/FLS 515# | BASIC HORTICULTURE | 2 | 1 |
| FLS 591 | SEMINAR | 0 | 1 |
| FLS.601** | CROP REGULATION IN ORNAMENTAL CROPS | 1 | 1 |
| FLS.602** | POST HARVEST BIOLOGY OF FLORICULTURAL CROPS | 2 | 1 |
| FLS.604 | BIOTECHNOLOGICAL APPROACHES IN FLORICULTURAL CROPS | 2 | 1 |
| FLS.605** | ADVANCES IN LANDSCAPING | 1 | 1 |
| FLS.608 | CURRENT TRENDS IN PRODUCTION TECHNOLOGY OF FLORICULTURAL CROPS | 2 | 1 |
| FLS 691 | SEMINAR I | 0 | 1 |
| II-SEMESTER | | | |
| FLS 503* | COMMERCIAL PRODUCTION OF CUT FLOWERS | 2 | 1 |
| FLS 506 | INDOOR PLANTS AND INTERIORSCAPING | 1 | 1 |
| FLS 507 | NURSERY MANAGEMENT IN ORNAMENTAL PLANTS | 2 | 1 |
| FLS 508 | TURF GRASS MANAGEMENT | 2 | 1 |
| FLS 510 | PROTECTED CULTIVATION OF FLOWER CROPS | 2 | 1 |
| FLS 511 | CAD FOR LANDSCAPING | 1 | 2 |
| FLS 591 | SEMINAR | 0 | 1 |
| FLS 603 | SPECIALITY FLOWERS, FILLERS AND CUT GREENS | 1 | 1 |
| FLS 606 | VERTICAL GARDENING | 1 | 2 |
| FLS 607 | MODERN APPROACHES IN BREEDING OF FLORICULTURAL CROPS | 2 | 1 |
| FLS 609 | RECENT DEVELOPMENTS IN PROTECTED CULTIVATION OF FLORICULTURAL CROPS | 2 | 1 |
| FLS 692 | SEMINAR-II | 0 | 1 |

^{*}Compulsory Courses for M.Sc., # Cross Listed Course (new course introduced in addition to the courses recommended by BSMA)

Note: All finalized courses (for M.Sc. programme) including their content are as per BSMA recommendations except one Cross Listed Course i.e. Course No. FSC515/VSC515/FLS 515# (Basic Horticulture, 2L+1P).

FRUIT SCIENCE

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|--------------------|---|----------|----------|
| | I-SEMESTER | | |
| FSC 501* | TROPICAL FRUIT PRODUCTION | 2 | 1 |
| FSC 503* | PROPAGATION AND NURSERY MANAGEMENT OF FRUIT CROPS | 2 | 1 |
| FSC 505 | SYSTEMATICS OF FRUIT CROPS | 2 | 1 |
| FSC 506 | CANOPY MANAGEMENT IN FRUIT CROPS | 1 | 1 |
| FSC 510 | ORGANIC FRUIT CULTURE | 2 | 1 |
| FSC 512 | CLIMATE CHANGE AND FRUIT CROPS | 1 | 0 |
| FSC /VSC/ FLS-515# | BASIC HORTICULTURE | 2 | 1 |
| FSC 591 | MASTERS SEMINAR | 0 | 1 |
| FSC 601* | INNOVATIVE APPROACHES IN FRUIT BREEDING | 3 | 0 |
| FSC 602* | MODERN TRENDS IN FRUIT PRODUCTION | 3 | 0 |
| FSC 606 | ABIOTIC STRESS MANAGEMENT IN FRUIT CROPS | 2 | 1 |
| FSC 607 | BIODIVERSITY AND CONSERVATION OF FRUIT CROPS | 2 | 1 |
| FSC 691 | DOCTORAL SEMINAR-I | 1 | 0 |
| II-SEMESTER | | | |
| FSC 502* | SUB-TROPICAL AND TEMPERATE FRUIT PRODUCTION | 2 | 1 |
| FSC 504*/GPB 514# | BREEDING OF FRUIT CROPS | 2 | 1 |
| FSC 507 | GROWTH AND DEVELOPMENT OF FRUIT CROPS | 2 | 1 |
| FSC 508 | NUTRITION OF FRUIT CROPS | 2 | 1 |
| FSC 509 | BIOTECHNOLOGY OF FRUIT CROPS | 2 | 1 |
| FSC 511 | EXPORT ORIENTED FRUIT PRODUCTION | 2 | 1 |
| FSC 513 | MINOR FRUIT PRODUCTION | 2 | 1 |
| FSC 591 | MASTERS SEMINAR | 0 | 1 |
| FSC 603 | RECENT DEVELOPMENTS IN GROWTH REGULATION | 3 | 0 |
| FSC 604 | ADVANCED LABORATORY TECHNIQUES | 1 | 2 |
| FSC 605 | ARID AND DRY LAND FRUIT PRODUCTION | 2 | 0 |
| FSC 608 | SMART FRUIT PRODUCTION | 2 | 0 |
| FSC 692 | DOCTORAL SEMINAR-II | 1 | 0 |
| FSC 699 | DOCTORAL RESEARCH | 75 | |

 $^{^*}$ Compulsory Courses for M.Sc., $^\#$ Cross Listed Course (new course introduced in addition to the courses recommended by BSMA)

GENETICS AND PLANT BREEDING

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|------------------|--|----------|----------|
| | I-SEMESTER | | |
| GPB501* | PRINCIPLES OF GENETICS | 2 | 1 |
| GPB502* | PRINCIPLES OF PLANT BREEDING | 2 | 1 |
| GPB505** | PRINCIPLES OF CYTOGENETICS | 2 | 1 |
| GPB508 | MUTAGENESIS AND MUTATION BREEDING | 2 | 1 |
| GPB511 | CROP BREEDING-I (KHARIF CROPS) | 2 | 1 |
| GPB517**** | GERMPLASM CHARACTERIZATION AND EVALUATION | 1 | 1 |
| GPB518 | GENETIC ENHANCEMENT FOR PGR UTILIZATION | 1 | 1 |
| GPB591 | SEMINAR | 1 | |
| GPB599 | THESIS/RESEARCH | 30 | |
| GPB601* | ADVANCES IN PLANT BREEDING SYSTEMS | 3 | 1 |
| GPB602 | ADVANCES IN BIOMETRICAL GENETICS | 2 | 1 |
| II-SEMESTER | | | |
| GPB503* | FUNDAMENTALS OF QUANTITATIVE GENETICS | 2 | 1 |
| GPB504 | VARIETAL DEVELOPMENT AND MAINTENANCE BREEDING | 1 | 1 |
| GPB506* | MOLECULAR BREEDING AND BIOINFORMATICS | 2 | 1 |
| GPB509 | HYBRID BREEDING | 2 | 1 |
| GPB510 | SEED PRODUCTION AND CERTIFICATION | 1 | 1 |
| GPB507 | BREEDING FOR QUALITY AND SPECIAL TRAITS | 2 | 1 |
| GPB602 | ADVANCES IN BIOMETRICAL GENETICS | 2 | 1 |
| GPB 60 4 blobbid | MOLECULAR CYTOGENETIC FOR CROP IMPROVEMENT | 2 | 0 |
| GPB604**** | PLANT GENETICS RESOURCES, CONSERVATION AND UTILIZATION | 2 | 0 |
| GPB605* | GENOMICS IN PLANT BREEDING | 3 | 0 |
| GPB607 | CROP EVOLUTION | 3 | 0 |
| GPB608 | BREEDING DESIGNER CROPS | 1 | 1 |
| GPB609* | IPR AND REGULATORY MECHANISM (E-COURSE) | 1 | 0 |
| GPB610*** | DEVELOPMENT OF GENE CONCEPT | 3 | 0 |
| GPB611*** | PLANT GENE EXPRESSION AND REGULATION | 3 | 0 |
| GPB612*** | GENETIC DATA ANALYSIS | 0 | 2 |
| GPB691 | SEMINAR I | 1 | |
| GPB692 | SEMINAR II | 1 | |
| GPB699 | THESIS/RESEARCH | 75 | |
| GPB512 | CROP BREEDING-II (RABI CROPS) | 2 | 1 |
| GPB513**** | BREEDING VEGETABLE CROPS | 2 | 1 |
| GPB514## | BREEDING FRUIT CROPS | 2 | 1 |
| GPB515**** | BREEDING ORNAMENTAL CROPS | 2 | 1 |
| GPB516 | BREEDING FOR STRESS RESISTANCE AND CLIMATE CHANGE | 2 | 1 |

| GPB519*** | DEVELOPMENT OF GENE CONCEPT | 3 | 0 |
|-----------|---|---|---|
| GPB520*** | PLANT GENE EXPRESSION AND REGULATION | 3 | 0 |
| GPB603 | MOLECULAR CYTOGENETIC FOR CROP IMPROVEMENT | 2 | 0 |
| GPB606 | POPULATION GENETICS | 2 | 0 |

- *: Compulsory courses recommended by BSMA
- **: Course (GPB505) to be made compulsory as proposed by the BOS
- ***: New Courses (GPB519 & GPB520) proposed by the BOS
- ****: GPB517 to have faculty from discipline of PGR
- *****: GP513 and GP 515 to have faculty from discipline of VSC and FLA
- #GPB506 (Molecular Breeding and Bioinformatics)/ MBB511 (Molecular Plant Breeding) to Be cross listed with discipline of MBB
- *GPB514 (Breeding Fruit Crops)/ FSC504 (Breeding of Fruit Crops) to be cross listed with Discipline of FSC
- \$: For students from Discipline of GPB, SST, PGR, MBB & VSC; \$5: For students from Disciplines other than above

MIRCOBIOLOGY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|---|----------|----------|
| | I-SEMESTER | | <u></u> |
| MICRO 501 | TECHNIQUES IN MICROBIOLOGY | 0 | 2 |
| MICRO 502* | PRINCIPLES OF MICROBIOLOGY | 3 | 1 |
| MICRO 503* | MICROBIAL PHYSIOLOGY AND METABOLISM | 3 | 1 |
| MICRO 505* | SOIL MICROBIOLOGY | 2 | 1 |
| MICRO 510 | INDUSTRIAL MICROBIOLOGY | 2 | 1 |
| MICRO 512 | CYANOBACTERIAL AND ALGAL BIOTECHNOLOGY | 2 | 0 |
| MICRO 591 | MASTER'S SEMINAR | 1 | 0 |
| MICRO 599 | MASTER'S RESEARCH | 30 | |
| MICRO 603* | RECENT DEVELOPMENTS IN SOIL MICROBIOLOGY | 2 | 0 |
| MICRO 604 | RECENT APPROACHES IN ENVIRONMENTAL MICROBIOLOGY | 2 | 0 |
| MICRO 605* | PLANT-MICROBE INTERACTIONS | 2 | 1 |
| MICRO 691 | DOCTORAL SEMINAR | 1 | 0 |
| II-SEMESTER | | <u> </u> | |
| MICRO 504 | MICROBIAL GENETICS | 2 | 1 |
| MICRO 507* | FOOD MICROBIOLOGY | 2 | 1 |
| MICRO 509 | ENVIRONMENTAL MICROBIOLOGY | 2 | 1 |
| MICRO 511* | BIOFERTILIZER TECHNOLOGY | 2 | 1 |
| MICRO 601* | IMPROVEMENT IN FERMENTATION TECHNOLOGY | 2 | 1 |
| MICRO 602 | MICROBIAL PHYSIOLOGY AND REGULATION | 2 | 1 |
| MICRO 606 | MICROBIAL GENOMICS AND METABOLOMICS | 2 | 0 |
| MICRO 691 | DOCTORAL SEMINAR | 1 | 0 |
| MICRO 699 | DOCTORAL RESEARCH | 1 | 0 |

^{• *} Core Courses for M.Sc. and Ph.D.

MOLECULAR BIOLOGY AND BIOTECHNOLOGY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|---|----------|----------|
| | I-SEMESTER | 1 | L |
| MBB 501* | PRINCIPLES OF BIOTECHNOLOGY | 3 | 0 |
| MBB 502* | FUNDAMENTALS OF MOLECULAR BIOLOGY | 3 | 0 |
| MBB 504* | TECHNIQUES IN MOLECULAR BIOLOGY I | 0 | 3 |
| MBB509 | PLANT TISSUE CULTURE | 2 | 1 |
| MBB510 | MICROBIAL AND INDUSTRIAL BIOTECHNOLOGY | 2 | 1 |
| MBB 514 | NANO-BIOTECHNOLOGY | 2 | 1 |
| MBB515 | ENVIRONMENTAL BIOTECHNOLOGY | 3 | 0 |
| MBB518 | GENE REGULATION | 2 | 0 |
| MBB 601** | PLANT MOLECULAR BIOLOGY | 3 | 0 |
| MBB 603 | PLANT OMICS AND MOLECULAR BREEDING | 3 | 0 |
| MBB604 | COMMERCIAL PLANT TISSUE CULTURE | 2 | 0 |
| MBB607 | PLANT HORMONES AND SIGNALING | 2 | 0 |
| MBB691 | SEMINAR | 1 | |
| II-SEMESTER | | | |
| MBB 503* | MOLECULAR CELL BIOLOGY | 3 | 0 |
| MBB 505* | OMICS AND SYSTEM BIOLOGY | 2 | 1 |
| MBB 506 | PLANT GENETIC ENGINEERING | 3 | 1 |
| MBB 507 | TECHNIQUES IN MOLECULAR BIOLOGY II | 0 | 3 |
| MBB 508 | INTRODUCTION TO BIOINFORMATICS | 2 | 1 |
| MBB511 | MOLECULAR PLANT BREEDING | 2 | 1 |
| MBB512 | IPR, BIOSAFETY & BIOETHICS | 2 | 0 |
| MBB 513 | IMMUNOLOGY AND MOLECULAR DIAGNOSTICS | 3 | 0 |
| MBB516 | BIO-ENTREPRENEURSHIP | 1 | 0 |
| MBB 517 | STRESS BIOLOGY AND GENOMICS | 2 | 0 |
| MBB 602 ** | PLANT GENOME ENGINEERING | 3 | 0 |
| MBB605 | PLANT MICROBE INTERACTION | 2 | 0 |
| MBB 606 | RNA BIOLOGY | 2 | 0 |
| MBB591/691 | SEMINAR | 1 | |

^{*}Core course for M. Sc. **Core course for Ph. D.

NEMATOLOGY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|---|---|----------|----------|
| | I-SEMESTER | | -1 |
| NEMA501* | PRINCIPLES OF NEMATOLOGY | 2 | 1 |
| NEMA503* | STRUCTURAL ORGANISATION OF NEMATODES | 2 | 1 |
| NEMA 504* | NEMATODE SYSTEMATICS | 2 | 1 |
| NEMA505* | NEMATOLOGICAL TECHNIQUES | 1 | 2 |
| NEMA506* | NEMATODE DISEASES OF CROPS | 3 | 1 |
| NEMA507 | NEMATODE BIOLOGY AND PHYSIOLOGY | 2 | 1 |
| NEMA508 | NEMATODE ECOLOGY | 2 | 1 |
| NEMA511 | BENEFICIAL NEMATODES | 1 | 1 |
| NEMA 512/ ENT 510 ^{\$} | PRINCIPLES OF INTEGRATED PEST MANAGEMENT | 1 | 1 |
| NEMA 513/PL PATH 513 [®] | DISEASE RESISTANCE IN PLANTS | 2 | 0 |
| NEMA 514/ENT520/PL PATH 520 | PLANT QUARANTINE, BIOSAFETY AND BIOSECURITY | 2 | 0 |
| NEMA591 | MASTER'S SEMINAR | 1 | 0 |
| NEMA 602** | NEMATODE DISEASES DEVELOPMENT AND HOST RESISTANCE | 2 | 1 |
| NEMA603** | ADVANCES IN NEMATODE MANAGEMENT | 2 | 1 |
| NEMA691 | DOCTORAL SEMINAR-I | 1 | 0 |
| II-SEMESTER | | 1 | 1 |
| NEMA502/ENT503\$ | PRINCIPLES OF TAXONOMY | 2 | 1 |
| NEMA510* | NEMATODE MANAGEMENT | 2 | 1 |
| NEMA509 | NEMATODE INTERACTIONS WITH ORGANISMS | 2 | 1 |
| NEMA 515/PL PATH 521/ENT 524 | IPM IN PROTECTED CULTIVATION | 2 | 1 |
| NEMA591 | MASTER'S SEMINAR | 1 | 0 |
| NEMA 599 | MASTER'S RESEARCH | 0 | 30 |
| NEMA601** | NEMATODE PHYLOGENY AND SYSTEMATICS | 2 | 1 |
| NEMA 607 | ADVANCES IN NEMATOLOGICAL TECHNIQUES | 1 | 1 |
| NEMA604** | PHYSIOLOGICAL AND MOLECULAR NEMATOLOGY | 2 | 1 |
| NEMA 605/ ENT 613 ^{\$} / PL PATH 606 [@] | PLANT BIOSECURITY AND BIOSAFETY | 2 | 0 |
| NEMA 692 | DOCTORAL SEMINAR-II | 1 | 0 |
| NEMA 699 | DOCTORAL RESEARCH | 0 | 75 |

^{*}Core courses Master's, @Cross-listed with Plant Pathology; \$ Cross-listed with Entomology

PLANT PAHTOLOGY

| PLANT PAHTOLOGY COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|--------------------------------|---|----------|----------|
| | I-SEMESTER | l . | |
| PL PATH 501* | MYCOLOGY | 2 | 1 |
| PL PATH 502 | PLANT VIROLOGY | 2 | 1 |
| PL PATH 503 | PLANT PATHOGENIC PROKARYOTES | 2 | 1 |
| PL PATH 504 | PLANT NEMATOLOGY/NEMA 501 PRINCIPLES OF NEMATOLOGY | 2 | 1 |
| PL PATH 505 | PRINCIPLES OF PLANT PATHOLOGY | 2 | 1 |
| PL PATH 506 | TECHNIQUES IN DETECTION AND DIAGNOSIS OF PLANT DISEASES | 0 | 2 |
| PL PATH 508 | EPIDEMIOLOGY AND FORECASTING OF PLANT DISEASES | 1 | 0 |
| PL PATH 509 | DISEASE RESISTANCE IN PLANTS | 2 | 0 |
| PL PATH 510 | ECOLOGY OF SOIL-BORNE PLANT PATHOGENS | 1 | 1 |
| PL PATH 511 | CHEMICALS AND BOTANICALS IN PLANT DISEASE MANAGEMENT | 2 | 1 |
| PL PATH 604* | MOLECULAR BASIS OF HOST-PATHOGEN INTERACTION | 2 | 1 |
| PL PATH 605 | PRINCIPLES AND PROCEDURES OF CERTIFICATION | 1 | 0 |
| PL PATH 606 | PLANT BIO SECURITY AND BIO SAFETY | 2 | 0 |
| PLPATH 591 | MASTER'S SEMINAR | 30 | |
| II-SEMESTER | | | |
| PL PATH 601 | ADVANCES IN MYCOLOGY | 2 | 1 |
| PL PATH 602 | ADVANCES IN VIROLOGY | 2 | 1 |
| PL PATH 603 | ADVANCES IN PLANT PATHOGENIC PROKARYOTES | 2 | 1 |
| PL PATH 507 | PRINCIPLES OF PLANT DISEASE MANAGEMENT | 2 | 1 |
| PL PATH 512 | DETECTION AND MANAGEMENT OF SEED BORNE PATHOGENS | 2 | 1 |
| PL PATH 513 | BIOLOGICAL CONTROL OF PLANT DISEASES | 1 | 1 |
| PL PATH 514 | INTEGRATED DISEASE MANAGEMENT | 2 | 1 |
| PL PATH 515* | DISEASES OF FIELD AND MEDICINAL CROPS | 2 | 1 |
| PL PATH 516 | DISEASES OF FRUITS, PLANTATION AND ORNAMENTAL CROPS | 2 | 1 |
| PL PATH 517 | DISEASES OF VEGETABLE AND SPICES CROPS | 2 | 1 |
| PL PATH 518 | POST HARVEST DISEASES | 2 | 1 |
| PL PATH 519 | PLANT QUARANTINE AND REGULATORY MEASURES | 1 | 0 |
| PL PATH 691 | DOCTORAL SEMINAR-I | 1 | 0 |
| PL PATH 692 | DOCTORAL SEMINAR-II | 1 | 0 |

^{*}Core Courses for Master's degree programme

^{**}Core Courses for Doctoral Programme

^{*}PL PATH 504 is cross linked with NEMA 501 $\,$

^{*}PL PATH 606 is cross linked with NEMA 605

PLANT PHYSIOLOGY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|---|----------|----------|
| | I-SEMESTER | | 1 |
| PP 501* | PRINCIPLES OF PLANT PHYSIOLOGY - I: PLANT | 2 | 1 |
| | WATER RELATIONS AND MINERAL NUTRITION | | 1 |
| PP 503* | PLANT DEVELOPMENTAL BIOLOGY: | 2 | 1 |
| | PHYSIOLOGICAL AND MOLECULAR BASIS | | 1 |
| PP 506 | PHYSIOLOGICAL AND MOLECULAR MECHANISMS | 2 | |
| | OF MINERAL NUTRIENT ACQUISITION AND THEIR | | 1 |
| | FUNCTIONS | | |
| PP 507 | PHOTOSYNTHETIC PROCESSES, CROP GROWTH | 2 | |
| | AND PRODUCTIVITY AND CONCEPTS OF CROP | | 1 |
| | MODELLING | _ | |
| PP 510* | SEED PHYSIOLOGY | 2 | 1 |
| PP 591 | MASTER'S SEMINAR | 1 | 0 |
| PP 601 | FUNCTIONAL GENOMICS AND GENES ASSOCIATED | 2 | |
| 11 001 | WITH A FEW PHYSIOLOGICAL PROCESSES | - | 0 |
| PP 602* | SIGNAL PERCEPTIONS AND TRANSDUCTION AND | 2 | _ |
| 11 002 | REGULATION OF PHYSIOLOGICAL PROCESSES | ~ | 0 |
| PP 603 | MOLECULAR APPROACHES FOR IMPROVING | 2 | |
| 11 000 | PHYSIOLOGICAL MECHANISMS THROUGH TRAIT | _ | 1 |
| | INTROGRESSION | | |
| PP 604 | PLANT PHENOMICS – NEXT GENERATION | 2 | |
| | PHENOMICS PLATFORMS | | 0 |
| PP 605 | EXPERIMENTAL TECHNIQUES TO CHARACTERIZE | 0 | 2 |
| | PLANT PROCESSES FOR CROP IMPROVEMENT | | 2 |
| PP 691 | DOCTORAL SEMINAR I | 1 | 0 |
| II-SEMESTER | | | l |
| PP 502* | PRINCIPLES OF PLANT PHYSIOLOGY-II: | 2 | |
| 11 002 | METABOLIC PROCESSES AND GROWTH | _ | 1 |
| | REGULATION | | - |
| PP 504 | PHYSIOLOGICAL AND MOLECULAR RESPONSES OF | 2 | |
| | PLANTS TO ABIOTIC STRESSES | _ | 1 |
| PP 505 | HORMONAL REGULATION OF PLANT GROWTH AND | 2 | 1 |
| | DEVELOPMENT | | 1 |
| PP 508 | PHYSIOLOGY OF FIELD CROPS | 2 | 0 |
| PP 509 | PHYSIOLOGY OF HORTICULTURE CROPS | 2 | 0 |
| PP 511 | PHENOTYPING PHYSIOLOGICAL PROCESSES | 2 | 0 |
| PP 512 | CROP GROWTH REGULATION AND MANAGEMENT | 2 | 0 |
| PP 591 | MASTER'S SEMINAR | 1 | - |
| | | | 0 |
| PP 606 | GLOBAL CLIMATE CHANGE AND CROP RESPONSE | 2 | 0 |
| PP 607* | PHYSIOLOGICAL AND MOLECULAR ASPECTS OF | 3 | 0 |
| | SOURCE-SINK CAPACITY FOR ENHANCING YIELD | _ | Ů |
| PP 608 | SEED AND FRUIT GROWTH AND THEIR QUALITY | 2 | 0 |
| DD <000 | IMPROVEMENT | 2 | |
| PP 609 | PLANT-MICROBE INTERACTIONS | 2 | 1 |
| PP 610 | WEED BIOLOGY AND PHYSIOLOGY OF HERBICIDE | 2 | 0 |
| | ACTION | | 0 |
| PP 692 | DOCTORAL SEMINAR II | 1 | 0 |

^{*} Core courses

POST HARVEST MANAGEMENT

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|--------------------------------|---|----------|----------|
| | I-SEMESTER | | |
| PHM 501* | POSTHARVEST MANAGEMENT OF HORTICULTURAL CROPS | 2 | 1 |
| PHM 502* | POSTHARVEST PHYSIOLOGY AND BIOCHEMISTRY OF PERISHABLES | 2 | 1 |
| PHM 505* | PRINCIPLES AND METHODS OF FRUIT AND VEGETABLE PRESERVATION | 2 | 1 |
| PHM 506 | LABORATORY TECHNIQUES IN POSTHARVEST MANAGEMENT | 1 | 2 |
| PHM 515/FSC515/VSC515/FLS 515# | BASIC HORTICULTURE | 2 | 1 |
| PHM 508 | QUALITY ASSURANCE, SAFETY AND SENSORY EVALUATION OF FRESH AND PROCESSED HORTICULTURAL PRODUCE | | |
| PHM 601** | RIPENING AND SENESCENCE OF FRUITS AND VEGETABLES | 1 | 1 |
| PHM 602** | RECENT TRENDS IN FOOD PRESERVATION | 1 | 1 |
| PHM 603** | MANAGEMENT AND UTILIZATION OF HORTICULTURAL PROCESSING WASTE | 3 | 0 |
| PHM 606 | FOOD ADDITIVES | 1 | 1 |
| PHM 691 | SEMINAR I | 0 | 1 |
| | II-SEMESTER | | |
| PHM 503 | PACKAGING AND STORAGE OF FRESH HORTICULTURAL PRODUCE | 1 | 1 |
| PHM 504 | PACKAGING AND STORAGE OF PROCESSED HORTICULTURAL PRODUCE | 1 | 1 |
| PHM 507* | PROCESSING OF HORTICULTURAL PRODUCE | 2 | 2 |
| PHM 509 | FUNCTIONAL FOODS FROM HORTICULTURAL PRODUCE | 2 | 0 |
| PHM 510 | MARKETING AND ENTREPRENEURSHIP IN POSTHARVEST HORTICULTURE | 1 | 1 |
| PHM604** | SUPPLY CHAIN MANAGEMENT OF PERISHABLES | 2 | 0 |
| PHM 605 | EXPORT ORIENTED HORTICULTURE | 1 | 1 |
| PHM 607 | ADVANCES IN PROCESSING OF PLANTATION, SPICES, MEDICINAL AND AROMATIC PLANTS | 3 | 0 |
| PHM608 | VALUE ADDITION IN ORNAMENTAL CROPS | | |
| PHM 692 | SEMINAR-II | 0 | 1 |

^{*}Compulsory Courses for M.Sc., # Cross Listed Course (new course introduced in addition to the courses recommended by BSMA)

^{**}Compulsory Courses for Ph.D.

SEED SCIENCE AND TECHNOLGOY

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|-------------|--|----------|----------|
| | I-SEMESTER | | |
| SST 501* | SEED DEVELOPMENTAL BIOLOGY | 1 | 1 |
| SST 502 | SEED DORMANCY AND GERMINATION | 1 | 1 |
| SST 503* | SEED PRODUCTION PRINCIPLES AND TECHNIQUES IN FIELD CROPS | 2 | 1 |
| SST 504* | SEED PRODUCTION PRINCIPLES AND TECHNIQUES IN VEGETABLE CROPS | 2 | 1 |
| SST 505 | SEED PRODUCTION TECHNIQUES IN FRUITS, FLOWERS SPICES, PLANTATION AND MEDICINAL CROPS | 2 | 1 |
| SST 506 | SEED PRODUCTION TECHNIQUES IN FORAGE PASTURE AND GREEN MANURE CROPS | 1 | 1 |
| SST 510 | SEED TECHNOLOGY OF TREE SPECIES | 1 | 1 |
| SST 591 | SEMINAR | 1 | 0 |
| SST 601* | HYBRID SEED PRODUCTION TECHNOLOGY | 2 | 1 |
| SST 602 | ORGANIC SEED PRODUCATION | 1 | 1 |
| SST 604* | GENETIC PURITY AND DUS TESTING | 2 | 1 |
| SST 608 | GERMPLASM CONSERVATION TECHNIQUES | 1 | 1 |
| SST 610 | SEED PLANNING, TRADE AND MARKETING | 1 | 1 |
| SST 691 | DOCTORAL SEMINAR I | 0 | 1 |
| SST 692 | DOCTORAL SEMINAR II | 0 | 1 |
| II-SEMESTER | | 1 | |
| SST 507* | SEED LEGISLATION AND CERTIFICATION | 2 | 1 |
| SST 508* | POST HARVEST HANDLING AND STORAGE OF SEEDS | 2 | 1 |
| SST 509* | SEED QUALITY TESTING AND ENHANCEMENT | 1 | 1 |
| SST 511 | SEED INDUSTRY AND MARKETING MANAGEMENT | 1 | 1 |
| SST 512 | SEED HEALTH TESTING AND MANAGEMENT | 1 | 1 |
| SST 603 | PHYSIOLOGY AND BIOCHEMISTRY OF SEEDS | 1 | 1 |
| SST 605 | SEED VIGOUR AND CROP PRODUCTIVITY | 1 | 1 |
| SST 606* | ADVANCES IN SEED SCIENCE | 1 | 1 |
| SST 607 | ADVANCES IN SEED QUALITY ENHANCEMENT | 1 | 1 |
| SST 609 | SEED ECOLOGY | 1 | 1 |
| SST 691 | DOCTORAL SEMINAR-I | 0 | 1 |
| SST 692 | DOCTORAL SEMINAR-II | 0 | 1 |

^{• *} Core Courses for M.Sc. and Ph.D. Courses

SOIL SCIENCE

| COURSE CODE | COURSE NAME | CREDIT-L | CREDIT-P |
|----------------------|---|----------|----------|
| | I-SEMESTER | - | ı |
| AGR 004\$ | SOIL AND ENVIRONMENT | 2 | 1 |
| #SOIL 501/AP 503* | SOIL PHYSICS/ FUNDAMENTALS OF SOIL PHYSICS | 2 | 1 |
| SOIL 502* | SOIL FERTILITY AND FERTILIZER USE | 2 | 1 |
| SOIL 503* | SOIL CHEMISTRY | 2 | 1 |
| SOIL 504* | SOIL MINERALOGY, GENESIS AND CLASSIFICATION | 2 | 1 |
| #SOIL 509/AP 515 | REMOTE SENSING AND GIS TECHNIQUE FOR SOIL AND CROP STUDIES/ REMOTE SENSING IN AGRICULTURE | 2 | 1 |
| SOIL 605 | BIOCHEMISTRY OF SOIL ORGANIC MATTER | 2 | 1 |
| SOIL 606 | SOIL RESOURCE MANAGEMENT | 3 | 0 |
| SOIL 607 | MODELING OF SOIL PLANT SYSTEM | 2 | 0 |
| SOIL 609 | RECENT TRENDS IN SOIL MICROBIAL BIODIVERSITY | 2 | 1 |
| SOIL 611** | SOIL CHEMICAL ENVIRONMENT AND PLANT GROWTH | 2 | 1 |
| SOIL 612 | SOIL TESTING AND FERTILIZER RECOMMENDATION | 2 | 1 |
| SOIL 591 | MASTER'S SEMINAR | 1 | 0 |
| SOIL 691 | DOCTORAL SEMINAR I | 1 | 0 |
| SOIL 692 | DOCTORAL SEMINAR II | 1 | 0 |
| | II-SEMESTER | 1 | |
| SOIL 505 | SOIL EROSION AND CONSERVATION | 2 | 1 |
| SOIL 506* | SOIL BIOLOGY AND BIOCHEMISTRY | 2 | 1 |
| SOIL 507 | RADIOISOTOPES IN SOIL AND PLANT STUDIES | 1 | 1 |
| SOIL 508 | SOIL, WATER AND AIR POLLUTION | 2 | 1 |
| SOIL 510 | ANALYTICAL TECHNIQUES AND INSTRUMENTAL METHODS IN SOIL AND PLANT ANALYSIS | 0 | 2 |
| SOIL 511 | MANAGEMENT OF PROBLEM SOILS AND WATERS | 2 | 1 |
| SOIL 512 | LAND DEGRADATION AND RESTORATION | 1 | 0 |
| SOIL 513 | SOIL SURVEY AND LAND USE PLANNING | 2 | 1 |
| SOIL 514 | INTRODUCTION TO NANOTECHNOLOGY | 2 | 1 |
| SOIL 515 | MANURES AND FERTILIZERS | 2 | 1 |
| SOIL 601 | RECENT TRENDS IN SOIL PHYSICS | 2 | 0 |
| SOIL 602 | MODERN CONCEPT IN SOIL FERTILITY | 2 | 0 |
| SOIL 603** | PHYSICAL CHEMISTRY OF SOIL | 2 | 0 |
| SOIL 604** | SOIL GENESIS AND MICRO MORPHOLOGY | 2 | 0 |
| SOIL 608 | CLAY MINERALOGY | 2 | 1 |
| SOIL 591 | MASTER'S SEMINAR | 1 | 0 |
| SOIL 691 | DOCTORAL SEMINAR I | 1 | 0 |
| SOIL 692 | DOCTORAL SEMINAR II | 1 | 0 |

- Indicate the Courses Compulsory for Masters* or Doctoral programme**
 Courses cross listed with other Disciplines#
 List the remedial courses\$

VEGETABLE SCIENCE

| | I-SEMESTER | | |
|------------------|---|----|---|
| VSC 501* | PRODUCTION OF COOL SEASON VEGETABLE CROPS | 2 | 1 |
| VSC 504* | PRINCIPLES OF VEGETABLE BREEDING | 3 | 1 |
| VSC 505 | BREEDING OF SELF POLLINATED VEGETABLE CROPS | 2 | 1 |
| VSC 509 | PRODUCTION OF UNDERUTILIZED VEGETABLE CROPS | 2 | 1 |
| VSC 510 | SYSTEMATICS OF VEGETABLE CROPS | 1 | 1 |
| VSC 514 | POST HARVEST MANAGEMENT OF VEGETABLE CROPS | 2 | 1 |
| VSC-515/FLS/FHT# | BASIC HORTICULTURE | 2 | 1 |
| VSC 601* | RECENT TRENDS IN VEGETABLE PRODUCTION | 3 | 0 |
| VSC 602* | ADVANCES IN BREEDING OF VEGETABLE CROPS | 3 | 0 |
| VSC 603 | ABIOTIC STRESS MANAGEMENT IN VEGETABLE CROPS | 2 | 1 |
| VSC606 | BIODIVERSITY AND CONSERVATION OF VEGETABLE CROPS | 2 | 1 |
| VSC 691 | DOCTORAL SEMINAR I | 0 | 1 |
| VSC 591 | MASTER'S SEMINAR | 0 | 1 |
| VSC 599 | MASTER'S RESEARCH | 30 | |
| VSC605 | BREEDING FOR SPECIAL TRAITS IN VEGETABLE CROPS | 2 | 1 |
| VSC 607 | BIOTECHNOLOGICAL APPROACHES IN VEGETABLE CROPS | 2 | 1 |
| VSC 608 | ADVANCED LABORATORY TECHNIQUES OF VEGETABLE CROPS | 1 | 2 |
| VSC604 | SEED CERTIFICATION, PROCESSING AND STORAGE OF VEGETABLE CROPS | 2 | 1 |
| VSC 692 | DOCTORAL SEMINAR II | 0 | 1 |
| VSC699 | DOCTORAL RESEARCH | 75 | |
| VSC 502* | II-SEMESTER PRODUCTION OF WARM SEASON VEGETABLE CROPS | 2 | 1 |
| VSC 502* | GROWTH AND DEVELOPMENT OF VEGETABLE CROPS | 2 | 1 |
| VSC 506 | BREEDING OF CROSS POLLINATED VEGETABLE CROPS | 2 | 1 |
| VSC 500 | PROTECTED CULTIVATION OF VEGETABLE CROPS | 1 | 1 |
| VSC 508 | SEED PRODUCTION OF VEGETABLE CROPS | 2 | 1 |
| VSC 508 | ORGANIC VEGETABLE PRODUCTION | 1 | 1 |
| VSC 311 | ORGANIC VEGETABLE PRODUCTION | 1 | 1 |
| VSC-512 | PRODUCTION OF SPICE CROPS | 2 | 1 |
| VSC 513 | PROCESSING OF VEGETABLE | 1 | 1 |
| VSC605 | BREEDING FOR SPECIAL TRAITS IN VEGETABLE CROPS | 2 | 0 |
| VSC 607 | BIOTECHNOLOGICAL APPROACHES IN VEGETABLE CROPS | 2 | 1 |
| VSC 608 | ADVANCED LABORATORY TECHNIQUES OF VEGETABLE CROPS | 1 | 2 |
| VSC604 | SEED CERTIFICATION, PROCESSING AND STORAGE OF VEGETABLE CROPS | 2 | 1 |
| VSC 692 | DOCTORAL SEMINAR II | 0 | 1 |
| VSC699 | DOCTORAL RESEARCH | 75 | |

^{*}Indicates Core Courses which are Compulsory for Master Programme # Cross listed course FSC515/VSC515/FLS 515# (Basic Horticulture, 2L+1P).

RECOMMENDATIONS OF THE COMMITTEE CONSTITUTED FOR THE INITIATION OF

- 1) Sandwich Ph.D. degree program
- 2) Self-finance scheme for Indian, foreign national and Non-Resident Indian students
- 3) International Faculty

Composition of the Committee

Chairman: Dr. ViswanathanChinnusamy, Head, Plant Physiology

Members: Dr. Anupama Singh, Head, Agricultural Chemicals

Dr. K.K. Vinod, Principal Scientist, Genetics

Dr. A. Kumar, Principal Scientist, Plant Pathology

Dr. Kapila Shekhawat, Senior Scientist, Agronomy

Member Secretary: Dr. Anil Dahuja, Professor, Biochemistry

The National Education Policy 2020 (NEP2020) proposes internationalization of higher education to restore the role of India as a Vishwa Guru. The NEP2020 suggests that all deemed to be Universities shall upgrade themselves to university. To maintain the flagship role in education it is necessary to become a Global University. To become a Global University, increase in international students, faculty and international collaborative programs are critical. IARI proposes to become a Global university as it has basic infrastructure for research and can become a most sought destination for higher education particularly for the students of African, SAARC, Caribbean and many Latin American countries. Global University ranking will attract higher research grant, international collaboration, international students, and help excellence in research and education. Further, IARI can strengthen its research collaboration with top ranking Universities through Sandwich Ph.D. programs with top ranking universities. Further, internalization also demands recruitment of foreign faculty. Since regular recruitment of foreign faculty is difficulty, Foreign faculty may be appointed as visiting faculty at IARI.

The Committee recommends three programs for internationalization of education namely 1) Sandwich Ph.D. program, 2) Self finance scheme for Indian, foreign and NRI student at UG, PG and Ph.D. programs, and 3) Foreign faculty as Visiting Faculty.

The Committee recommends setting up of an "Office of the International affairs" at IARI, New Delhi for implementation of programs related to international students and faculty, and international collaborations. This is also mandatory under the University Grants Commission (Academic Collaboration between Indian and Foreign Higher Educational Institutions to offer

Twinning, Joint Degree and Dual Degree Programmes) Regulations, 2022, which is effective from May 2, 2022 (Gazette of India notification F. No. 4-1/2022(IC) dated 2nd May, 2022).

Establishment of Office of the International Affairs at IARI, New Delhi

Head of the office: Dean (International Affairs) or Chairperson (International Affairs)

A Principal Scientist with at least 10 years of experience and having adequate international exposure may be appointed as Dean/Chair by the Director and Chairperson Academic Council.

Members: One Principal scientist/Professor from each school (6)

International Relations Officer

Master of Halls of residence

Representative from "Law Section" of IARI

Registrar, Member-Secretary

Administrative Assistant

The Office of the International Affairsshall carryout following activities but not limited to:

- 1. Liaising with regulatory/statutory bodies (UGC/HEIC/DARE, etc)
- 2. Coordination ofactivities related to Sandwich Ph.D. programs
- 3. Admission of the International students: foreign and NRIs to B.Sc., B.Tech., M.Sc., M.Tech., and Ph.D. programmes.
- 4. Coordinating International Faculty Exchange Program and induction of visiting faculty
- 5. Formulation and execution of MoUs with International Institutes abroad, strengthening existing partnerships and developing new partners
- 6. Establishment of the Offshore offices/Campuses and conducting various brand-building campaigns and other promotional activities.
- 7. Addressing the grievances of sandwich PhD students and international students undergoing regular degree programs at IARI.
- 8. Newsletters, popularization, etc.

New Program 1. Sandwich Ph.D. degree program

Preamble: IARI proposes to introduce a sandwich PhD programme, in which a student enrolling in the IARI will be required to complete a mandatory resident period at IARI campus, before moving to a host institution to carry out research work for a prescribed period and joining back in IARI to complete the doctoral programme. The research programme is proposed to be jointly formulated by the parent and the host institutions.

Purpose: To expose the students involved in agricultural research to wider research opportunities to improve their research skills and inculcate the professional competence of global standard.

1. Scope

The Committee recommend all the following three categories of sandwich Ph.D. programs approved by UGC (Academic Collaboration between Indian and Foreign Higher Educational Institutions to offer Twinning, Joint Degree and Dual Degree Programmes) Regulations, 2022: 1) Twinning Programme, 2) Joint degree programme and 3) Dual degree programme.

2. Eligibility

(i) For IARI enrolled students, a minimum stay for two semesters at the IARI campus with a pass in qualifying examination, and successful defence of the research proposal.

3. Criteria and requirements for different sandwich Ph.D. programs

- **A. Twinning Programme:** A collaborative arrangement whereby students enrolled with IARI and its outreach programs may undertake their programme of study partly in IARI, **complying with relevant UGC regulations**, and partly in the Foreign Higher Educational Institution (FHEI).
 - i. Credits earned from the FHEI should not exceed 30% of the total programme.
 - ii. Ph.D. degree to be awarded under such twinning programme must be in conformity with the provisions of section 22 (3) of the UGC Act, 1956 and shall also be in conformity with the norms, standards and requirement for award of such degree, as laid down by the statutory authority concerned such as DARE/ICAR
 - iii. The research programme of the student shall be formulated jointly by the IARI and the FHEI.
 - iv. Student will submit thesis to IARI, and IARI will award the Ph.D. degree
- B. Joint degree programme: A collaborative arrangement wherein the curriculum is designed in collaboration between the IARI and FHEI. Upon completion of the programme, the degree is awarded jointly by the IARI and FHEI with a single certificate.
 - i. The students must earn at least 30 per cent of the total credits from each of the IARI and FHEI.
 - ii. The research programme of the student shall be formulated jointly by the IARI and the FHEI.
 - iii. Students must have a supervisor at IARI as well as at FHEI
 - iv. Ph.D. degree to be awarded under such twinning programme must be in conformity with the provisions of section 22 (3) of the UGC Act, 1956 and shall also be in conformity with the norms, standards and requirement for award of such degree, as laid down by the statutory authority concerned such as DARE/ICAR.
- C. Dual degree programme: A programme jointly designed and offered by IARI and an FHEI in the same discipline/subject areas and in the same level. The degree is

conferred by the IARI and FHEI, separately and simultaneously, upon completion of degree requirements of both the institutions.

- i. The students must earn at least 30 percent of total credits from IARI.
- ii. The research programme of the student shall be formulated jointly by the IARI and the FHEI.
- iii. Students must have a supervisor at each institution.
- iv. The student shall submit a single thesis at both the Institutions separately.
- v. Ph.D. degree to be awarded under such twinning programme must be in conformity with the provisions of section 22 (3) of the UGC Act, 1956 and shall also be in conformity with the norms, standards and requirement for award of such degree, as laid down by the statutory authority concerned such as DARE/ICAR

4. Financial Support

- (i) A maximum of twenty-five (25) students shall be supported per academic session. To begin with in the academic session 2022-23, 10 students may be supported depending upon the budget availability.
- (ii) In case of universities with which IARI signs MoU, the financial support will be as per the terms and conditions of MoU.
- (iii) A Student/Faculty of IARI can also secure admission/bench space/fellowship etc, from FHEI by individual effort of student/faculty (guide of the student). In such cases, a formal agreement may be signed between the mentor from FHEI and IARI for Twining PhD. program. However for joint-Degree and Dual Degree programs, MoU should be signed by IARI and FHEI.
- (iv) IARI shall provide support of a maximum of Rs 5.00 lakhs (on a case-to-case basis depending upon the country of visit), and the actual fellowship that they are getting from IARI.
 - Rs. 5.00 Lakhs for North America, Australia, South America and New Zealand
 - Rs. 4.00 Lakhs for Europe, Far-East Asia, Japan, China, Hong Kong, Taiwan, Korea, Indonesia and Africa
 - Rs. 2.00 Lakhs for Neighbouring Countries, Sri Lanka, Nepal, Bangladesh, Burma, Pakistan, Gulf Countries, Singapore Malaysia, Thailand and Maldives
- (vi) The students securing financial support from other funding sources/host institutions shall be encouraged. In these cases, on case-to-case basis, IARI may provide partial financial support.
- (vii) If the student's residence at the host institute is of duration of >6 months, the students need to secure additional financial support from the host institution/ from other sources.

5. Research programme

- (i) Any material transfer/ Digital Sequence Information (DSI) sharing shall be regulated by the extant rules of the Government of India, and terms and conditions of the MoU/Agreement
- (ii) Any outcome of the research programme, including research papers, patents etc. shall show joint affiliation of IARI and the host institute

6. Selection criteria

A. Indian students

- (i) Academic performance in Graduate and Post Graduate programme, Co-curricular and extra-curricular activities at PG level.
- (ii) Students' academic performance in Ph.D. course work, qualifying examination and research proposal seminar as well as their overall attendance.
- (iii) Student's publications (research papers, reviews and book chapters) and patents, if any.
- (iv) The host institute with QS/THE world ranking is preferred. However, recognised international government institutions as per Government of India policy shall also be considered.
- (v) Research ranking of the Professor with whom the sandwich programme.
- (vi) Quality of the research proposal to be carried out by the student in the University abroad in the Sandwiched programme.
- (vii) Consent letter from overseas universities and mentor for bench space and academic guidance etc.
- (viii) Eligible students with self-financing can also avail sandwich program, however, no financial support from IARI shall be provided.
 - (ix) The students who have already secured financial support from the host institute or any other funding agency will be given preference.

B. Foreign students

- (i) Selection of the students shall be based on Statement of Purpose (SoP), recommendation letters and academic proficiency.
- (ii) Selected students shall be from Government recognised University.
- (iii) The students shall have proficiency in English as certified by IELTS or TOEFL.
- (iv) Students shall have research proficiency as proved by research publications/ patents (desirable).
- (v) Consent letter from Indian Mentor for bench space.
- (vi) Letter of recommendations from three referees.

- (vii) University with which the student is registered for PhD programme must have an international ranking (QS/THE).
- (viii) Student allotment to IARI laboratories shall be governed by the research plan, availability of competent faculty and infrastructure, as recommended by the Dean& Joint Director (Edn.), PG School, ICAR-IARI, New Delhi.
 - (ix) The number of international students shall be limited to 25 (twenty-five) per academic session. To begin with in the academic session 2022-23, 10 students may be supported depending upon the budget availability.
 - (x) A formal agreement shall be signed between the Indian mentor, foreign faculty and the foreign student.

7. Funding for foreign students

- (i) In the case of the Universities with which IARI has aformal MoU, the financial support will be governed by the terms and conditions of the MoU.
- (ii) For other students, IARI may provide financial support of Rs 50,000/- per month, and free hostel accommodation (single room).

8. Call for proposals

- (i) Call for the sandwich PhD. The programme shall be made once a year, upon completion of the second semester (preferably during March).
- (ii) Students enrolled in a particular academic session need to avail the Sandwich Ph.D. degree programwithin the first year itself.

New Program 2.1a. Self-finance scheme for foreign & NRI students in UG program

1. Eligibility:

- i. Applicant must be a Foreign National or Overseas Citizen of India (OCI) Cardholders or NRI
- ii. Applicant must have completed 12 years of formal education at the school level. At 12th level, students must have studied a) Biology, Physics and Chemistry at the 12th level for B.Sc. Agriculture and B.Tech. Biotechnology, b) Physics, Chemistry and Maths for B.Tech. Engineering Admission, and social sciences for B.Sc. Community Science Admission).
- iii. Foreign students / Foreign University Degree holders are required to attach photocopies of academic transcripts & AIU Equivalence Certificate
- iv. English Language Proficiency certificate (TOFEL, IELTS, SAT, ACT, etc.)

2. Selection Criteria:

- 1. Academic score in 10th and 12th exam
- 2. English Language Proficiency score (TOFEL, IELTS, SAT, ACT, etc.)
- 3. Co-curricular and extra-curricular activities.

- 4. Online Interview before the selection committee and interview marks.
- 3. Tuition Fee: 4000 USD/Semester
- **4. Hostel Fees:** As fixed for international students' hostel. Due to paucity of hostel facilities, accommodation shall be provided as per the availability and merit.

New Program 2.1b Self-finance scheme for Indian students in UG program

1. Eligibility:

- i. Applicant must be an Indian National.
- ii. Applicant must write All India Entrance Examination for Admission, AIEEA (UG) Conducted by ICAR through NTA.
- iii. In order to appear in AIEEA (UG) 2021, Indian national candidates must have passed 10+2 Senior Secondary Examination of the Central Board of Secondary Education or any other examination within scope and standard found to be equivalent to the Senior Secondary Examination of a recognized Indian Board/University (Annexure VI), with minimum prescribed marks/grade, after a period of 12 years of study. The medium of instruction in the admitting University will be English.
- iv. Candidate must have passed any one of the qualifying examinations enumerated above securing not less than 50% marks in aggregate for General, OBC (NCL), UPS, EWS categories and 40% marks in aggregate for SC, ST, Third Gender, PwD categories. There will be no rounding-off of the OGPA/percentage of marks of qualifying examination while deciding the basic eligibility of any candidate for admission e.g. if a candidate obtained 49.99% marks in his/her qualifying examination, then it will not be rounded-off to 50%.
- v. Age Limit: Indian Nationals of at least 16 years of age as the date given in the information bulleting are eligible to apply for the examination. No relaxation is admissible regarding the minimum age limit

2. Selection Criteria:

- 1. Candidate must score at least 50 percent or percentile marks in the AIEEA (UG)
- 2. Admission in self-finance scheme will be given as per the order of merit among the applicants.
- **3. Tuition Fee:**Rs 50000 per Semester
- **4. Hostel Fees:** Same as that fixed for other students. Due to paucity of hostel facilities, accommodation shall be provided as per the availability and merit.

Total number of seats admitted through self finance scheme for Indian, foreign and NRI students shall not exceed 40% over and above the intake of the UG programme.

New Program 2.2. Self-finance scheme for Foreign Nationals/NRIs in PG & Ph.D.

Admission of Foreign National students for self-financed M.Sc./M.Tech. /PhD programmes: A maximum of 50 students per academic session.

1. Academic qualifications:

- 1. Applicant must be a Foreign National or Overseas Citizen of India (OCI) Cardholders or NRI.
- 2. Applicant must have completed 12 years of formal education at the school level followed by a Bachelor's Degree of at least 4 years duration for PG admission, and in addition to the above, 2 years Master's program for Ph.D. admission.
- 3. Foreign students / Foreign University Degree holders are required to attach photocopies of academic transcripts & AIU Equivalence Certificate
- 4. English Language Proficiency (TOFEL, IELTS, SAT, ACT, etc.)
- 5. Co-curricular and extra-curricular activities.
- 6. Research achievements during PG level, if any.

2. Selection procedure:

- 1. Academic performance of the student in UG/PG program
- 2. English Language Proficiency score (TOFEL, IELTS, SAT, ACT, etc.)
- 3. Online Interview before the selection committee and interview marks.
- 4. Letter of recommendations from three referees including one from IARI.

3. Tuition Fees:

2500 USD per semester for Master's program and 2000 USD per semester for Ph.D. program or Equivalent to that of the fee paid by students admitted through the Indian Council of Cultural Relations, New Delhior decided by ICAR

4. Hostel Fees: As fixed for international students' hostel. Due to paucity of hostel facilities, accommodation shall be provided as per the availability and merit.

5. Exchange of materials:

Any material transfer/ Digital Sequence Information (DSI) sharing shall be regulated by the extant rules of the Government of India, and the terms and conditions of the MoU/Agreement.

New Program 3. International Faculty

1. **Preamble**: IARI proposes to host eminent and competent faculty as visiting professors from universities of international repute to meet higher quality benchmarks in teaching and research and to promote productive academic international cooperation.

2. Selection process

NRI Faculties coming through VAJRA (Visiting Advanced Joint Research) Faculty scheme of DST and other government schemes with full funding support from either Countryor

Selection of overseas faculty as Visiting Professors as per the UGC guidelines.

The number of visiting professors may be up to 50 (10% of the faculty strength). To begin with, one faculty per school may be appointed.

3. Selection criteria for non-VAJRA and other Govt. scheme faculties

- i. Academic performance in the overseas university is judged by citation indices
- ii. Research achievements during a career as judged by Fellowships, Awards etc.
- iii. University must have an international ranking (within the top 500)
- iv. Ongoing collaborative project in India/IARI

4. Duration & Remuneration: (for non-VAJRA and other Govt. scheme faculties)

- i. The duration is One to Two weeks for lectures and practicals, or more subject to fund availability
- ii. **Remuneration:** Local hospitality during the stay; To and Fro airfare in economy class, Visa fee; Insurance premium; Honorarium USD 100/ per lecture; USD 200 per practical.

Summary of Resource Generation and Expenditure in the programmes proposed:

| S.No. | New Program | Rupees in 1 | Lakhs |
|-------|--|-------------|--------|
| | | Expenditure | Income |
| 1. | Sandwich Ph.D. degree program - IARI Students (10 in Academic session 2022-23) (10 x 5.0 Lakhs per student) | 50.00 | 1 |
| | Sandwich Ph.D. degree program - Foreign Students(10 in Academic session 2022-23) (10 x 5.0 Lakhs per student) | 50.00 | 1 |
| 2 | Self-finance scheme – UG program (Total seats shall not exceed 40%). In 2022-23 academic session, a total of 300 students have been proposed. So about 120 can be admitted under self-finance scheme for Indian, foreign, and NRI students put together) | - | |
| | (a) Self-finance scheme – UG program for Indian Nationals (about 80 students; the number may vary; 80*1.0 Lakhs per annum) | - | 80.00 |
| | (b) Self-finance scheme – UG program for Foreign Nationals & NRIs (about 40 students; the number may vary, 4000USD per year) (40*4000USD = 160,000 | - | 128.00 |
| | (c) Self-finance scheme – PG & Ph.D. for Foreign Nationals(50 in Academic session 2022-23; 25 each in MSc and PhD, respectively) (MSc- 25 x 5000US\$ and PhD -25*4000US\$ per student and per annum) | - | 180.00 |
| 3. | International Faculty (5 in Academic session 2022-23) (5 x 4.5 Lakhs per faculty) = 22.50 | 22.50 | - |
| | Total | 125.00 | 388.00 |

Appendix-III

RECOMMENDATIONS OF THE COMMITTEE CONSTITUTED FOR THE INITIATION OF

Post Graduate Diploma and Certificate Courses

Committee

| S.No | Name | Members | Courses |
|------|------------------------|-----------------|-------------------------------|
| 1. | Dr.Alka Singh, Head, | Chairperson | |
| | Ag.Econ. | | |
| 2. | Dr.Raj Singh, Head | Member | Integrated Farming System |
| | Agronomy | | |
| 3. | Dr.Y.S.Shivay, | Member | Organic farming |
| | Pri.Scientist | | |
| 4. | Dr.Monika A Joshi, | Member | Seed production, processing |
| | Professor | | and quality control |
| 5. | Dr.Bishnu M Bashyal, / | Member | Disease and Pest |
| | Dr. S. Subramanian | | Management |
| 6. | Dr.Gopala Krishanan, | Member | GAP for basmati farming |
| | Pri.Scientist | | |
| 7. | Dr.Murthaza Hassan, | Member | Greenhouse Hydroponic and |
| | Pri.Scientist | | Aeroponic Farming |
| 8. | Dr.Manish Srivastava, | Member | Fruit production and orchard |
| | Professor | | management |
| 9. | Dr.P.K.Sahoo, | Member | Farm Machinery Operation |
| | Pri.Scientist | | and Management |
| 10. | Dr Chandan Kumar | Member | Data Science and Analytics |
| | Deb/ Dr Soumen Pal | | |
| | ICAR-IASRI | | |
| 11. | Dr.Rane, ICAR-NIBSM | Special Invitee | Abiotic Stress Management in |
| | | | Field and Horticultural Crops |
| 12. | Dr. P. Venkatesh | Member | |
| | | Secretary | |

1. About IARI

The journey of the Indian Agricultural Research Institute (IARI), popularly known as Pusa Institute, began in 1905 at Pusa (Bihar) with the generous grant of 30,000 pounds from an American philanthropist, Mr. Henry Phipps. The institute was then known as Agricultural Research Institute (ARI) which functioned with five departments, namely Agriculture, Cattle Breeding, Chemistry, Economic Botany and Mycology. The Bacteriology unit was added in 1907. The name of IARI was changed to Imperial Institute of Agricultural Research in 1911 and, in 1919 it was renamed as Imperial Agricultural Research Institute. Following a devastating earthquake on 15th January 1934, the institute was shifted to Delhi on 29th July 1936. Post-independence, the institute has been renamed as Indian Agricultural Research Institute (IARI). During the fifties, the advancement of scientific disciplines constituted the core program of IARI and provided the base for its fast expansion in the 1960's and 1970's. It attained the status of a Deemed University in the year 1958.

The green revolution that brought smiles to millions of Indians bloomed from the fields of IARI with the development of famous wheat varieties, contributing an estimated one billion tons of additional production. As the mother of several ICAR institutions, IARI continues to be the country's leading institution for agricultural research, education, and extension.

The present campus of the Institute is a self-contained sylvan complex spread over an area of about 500 hectares (approx. 1250 acres) and located about 8 km (5 miles) west of New Delhi Railway Station and about 16 km (10 miles) east of IGI Airport (Palam). The location stands at 28.08 0 N and 77.12 0 E, with a height above the mean sea level of 228.61 meters (750 feet). It is adjacent to hillside road.

Currently, the Institute has 20 divisions, 5 multi-disciplinary centers situated in Delhi, 8 regional stations, 2 off-season nurseries, 3 All India coordinated research projects with headquarters at IARI and 10 national centers functioning under the all India coordinated research projects. It has a sanctioned staff strength of 3540 comprising scientific, technical, administrative and supporting personnel.

2. Post Graduate Diploma / Certificate Course Programme

In order to prepare the youth ready to meet the requirement of the agro-industries /service sector; and to inculcate entrepreneurship and start-up among talented students, ICAR-IARI is proposing the following Postgraduate Diploma and certificate course programmes.

Table 1. List of courses and durations

| S. No | Course name | Course duration | Tuition Fees * | Calendar | Preparedness to start from |
|----------|---|-----------------|-------------------|----------|----------------------------|
| | Certificate Courses | | | | |
| 1. | Farm Machinery Operation and Management | 3 months | Rs. 15,000/- | - | 2023-24 |
| 2. | Disease and Pest Management | 3 Months | Rs. 15,000/- | Aug-Nov | 2022-23 |

| 3. | GAP for basmati farming | 3 Months | Rs. 15,000/- | Jul-Sep | 2023-24 |
|----|--|----------|-------------------|------------------------------|---------|
| 4. | Greenhouse Hydroponic and Aeroponic Farming | 3 Months | Rs. 15,000/ | Oct- Dec/ Jan- March | 2022-23 |
| | PG Diploma | | | | |
| 1. | Soil Testing and Nutrient Management | 1Year | Rs.1,20,000/ - | Start of Academic year | 2022-23 |
| 2. | Fruit Production Practices and Nursery Management. | 1Year | Rs.1,20,000/ - | Start of Academic year | 2023-24 |
| 3. | Seed Production, Processing and Quality Control | 1Year | Rs.1,20,000/ - | Start of Academic year | 2022-23 |
| 4. | Organic Farming | 1Year | Rs.1,20,000/ - | Start of Academic year | 2023-24 |
| 5. | Data Science and Analytics | 1 Year | Rs.1,20,000/ - | Start of Academic year | 2022-23 |
| 6. | Integrated Farming System | 1Year | Rs.1,20,000/ - | - | - |
| 7. | Abiotic Stress Management in Field and Horticultural Crops | 1Year | Rs.1,20,000/ - | Start of Academic year | 2022-23 |

^{*} For industry-sponsored candidates, the amount will be doubled

3. Eligibility Criteria

Table 2. Eligibility Criteria

| S.No | Course name | Education | Employment Opportunity |
|--------|--------------|-----------|-------------------------------|
| Certif | icate Course | | |

^{**} Residential Requirements is a must to complete the course (except during industry attachment)

| 1. | Farm Machinery Operation and Management | 12 th and above | Self-employment in opening agro- machinery repair centres, Custom Hiring Centres, Farm Machinery Service Centres, Agro machinery industries |
|-------|---|---|--|
| 2. | Disease and Pest Management | 12 th and above | Pesticide dealers, Industries, students, start-ups |
| 3. | GAP for basmati farming | 12 th and above | Millers/ Farmers/ FPOs |
| 4. | Greenhouse Hydroponic and Aeroponic Farming | 12 th and above | Urban Farming Industries/ Focus on self-employment generation |
| PG Di | ploma | | |
| 1. | Soil Testing and Nutrient Management | B.Sc Agril & allied sciences/ Science | After this PG Diploma, students will acquire the needed skill to take-up the analysis and/or soil testing work independently in the laboratories of Government, Industries, NGOs, self-employment in the area of soil testing and nutrient management. They would be employed as Soil Analysist, Lab Technician, Extension Worker for the field. |
| | | | There are lots of opportunities in the area of soil testing and nutrient management in the Central and State Government, fertilizer industries, NGOs, self-employment, Soil-Plant Health Clinic etc |
| 2. | Fruit Production and Nursery Management | B.Sc. Agriculture & allied sciences/ Botany | After this PG Diploma, students will have the skill to start own business in fruit production and nursery production, may be absorbed in coming up Pvt. Nurseries, and may start consultancy services on these aspects. |

| 3. | Seed Production, Processing and Quality Control | B.Sc. in Agriculture & allied sciences/ Botany | Public & Private Seed industries, own business. For industry-sponsored candidates , owing to enhanced skill development; they will have better employment scope owing to skill upgradation |
|----|--|---|---|
| 4. | Organic Farming | B.Sc. in Agriculture & allied sciences | Entrepreneurs, Consultancy Services Providers, Hi-tech Nurseries Owners. |
| 5. | Data Science and Analytics | Employed professionals / Individuals holding B.Sc./B.E./B.Tech./BCA or equivalent | As Data Analyst in public and private sector companies which work on data analytics |
| 6. | Integrated Farming System | B.Sc. in Agriculture & allied sciences | - |
| 7. | Abiotic Stress Management in Field and Horticultural Crops | B.Sc. in Agriculture & allied | Fruit growers association, |

4. Selection criteria

Table 3. Selection criteria

| S.No | particulars | Weightage | |
|------|-------------------------|--------------------|------------|
| | | Certificate Course | PG Diploma |
| 1. | 10 th std | √ | ✓ |
| 2. | 12 th std | √ | ✓ |
| 3. | Bachelor's programme | - | ✓ |
| 4. | Desirable qualification | - | ✓ |
| 5. | Entrance exam marks | ✓ | ✓ |
| 6. | Interview | ✓ | ✓ |

The entrance examination will be conducted for shortlisted applicants depending upon number of applications received and the academic qualifications. Further, the suitable candidates will be called for the interview for final selection

5. About the courses

Certificate Courses

Certificate Course in Farm Machinery Operation and Management

Location: IARI main campus / Other centers.

Name of the lead division: Division of Agricultural Engineering, ICAR-IARI, Pusa, New Delhi.

Collaboration: FOSU, Private Industries for training

- M/S SPL Technologies (P) Ltd.
- Shiv Vihar West, Hastsal, Delhi, 110059
- M/S Perfect Hydro Pneumatic Engineers, Plot No. 1591/31, Daulatabad Road Industrial Area, Gurgaon-112001 (Haryana)
- M/S Alfa Therm Limited, 431, First Floor, Udyog Vihar, Phase-3, Sector-20, Gurgaon-122016 (Haryana)
- M/S Dashmesh Mechanical Works, Nabha-Malerkotal Road, Amargarh(Sangrur) Punjab
- M/S Bhoomi Agro Industries, Plot No. G-1077, Road No-A-1, Kishan Gate, Lodhika G.I.D.C. A Metoda, Rajkot (Gujrat)

Background: The overall demand for agricultural machinery increased in the last decade. In order to lay special emphasis on farm mechanization and ensure greater inclusiveness, a dedicated Sub-Mission on Agricultural Mechanization (SMAM) was launched by Government of India. SMAM puts small and marginal farmers at the core of the interventions. There is special emphasis on 'reaching the unreached' – bringing farm mechanization to villages where old technologies are in use. The mission is also catering to adverse economies of scale by promoting Custom Hiring Centers (CHC) through rural entrepreneurship. However, there exit gaps in the skill level of the village youths. The benefits of the mechanization are not fully acquired due to poor operation and management of farm machineries. Low operational efficiency and high cost of management left the owners of the agricultural machineries in a challenging situation to sustain this operation. The certificate course will help the rural youth, mechanics of the small and medium scale agro-industries and operators of the agricultural machineries to acquire skill for performing the tasks in diligent manner. This will also enable to create rural entrepreneurships.

Course contents

Operation, maintenance of tractors, power-tillers and other prime-movers; Operation, maintenance, repair of farm machineries; Operation and maintenance of irrigation equipment; Safety in farm operations; Industrial training.

| S. No. | Name of the course | No. of | Offered by |
|--------|---|----------|------------------|
| | | lectures | |
| | | | |
| 1. | Sources of Farm Power, Scope of mechanization, | 10 | Division of Agri |
| | Farm Engines: Tractor, Power Tiller (operation, | | Engg |
| | maintenance) | | |
| | | | |

| 2. | Assemblies of Tractor, ballasting, wheel track adjustment, PTO, draft and position control | 10 | Division of Agri Engg |
|----|--|----|--------------------------------------|
| 3. | Farm Machinery-I (tillage, seed bed preparation, planters/ seeders) operation, maintenance and management | 20 | Division of Agri Engg, FOSU |
| 4. | Farm Machinery-II (plant protection, harvest, post harvest) operation, maintenance and management | 20 | Division of Agri Engg, FOSU |
| 5. | Irrigation equipment, pumps, micro-irrigation assemblies, solar powered machines | 10 | Division of Agri Engg, FOSU |
| 6. | Safety guidelines for tractors, power tillers and farm machineries, ROPS, safety gadgets for operators during field operations | 5 | Division of Agri Engg |
| 7. | Machine efficiency, economic efficiency, overall efficiency for operations of farm machineries | 5 | Division of Agri Engg |
| 8. | Industrial training (assembly line, SOP, recurring malfunctions and breakage) | 20 | Division of Agri Engg, Industries |

II. Certificate Course in Disease and Pest Management in Agriculture

Location: IARI main campus/Other centers.

Name of the Lead Division: Division of Plant Pathology and Division of Entomology jointly

Collaboration: Division of Agricultural Chemicals

Background:Pests and diseases are the most important factors affecting crop production. Proper management is critical to avoid damages, meet regulatory standards, protect the environment and decrease pesticide resistance. We will discuss an integrated pest and disease management approach throughout the course. The students will learn methods to identify pests and diseases in the field, ways to avoid the occurrence of pests and diseases, principles of biological control and pesticides, their properties and how to use them wisely.

Course Content

Lectures

- Theory -140 lectures (1 hrs)
- Practical 70 practical (2 hrs)
- Total 280 hrs

Faculties identified:

- Dr. Bishnu Maya Bashyal
- Dr. Robin Gogoi
- Dr. Lakshman Prasad
- Dr. Dinesh Singh
- Dr. M. S. Saharan
- Dr. Diksha Joshi
- Dr. M. S. Gurjar
- Dr. T. K. Bag
- Dr. Kajal Kumar Biswas

Unit 1: Important plant diseases and their identification

What is a disease, Damages caused by plant diseases, Disease causes – biotic vs. Abiotic, Disease identification, The complexity, Steps in the diagnosis, Signs and symptoms, Effect of the environmental conditions, Fungi – description, symptoms, spread, common fungal diseases and their hosts, Leaf spots, Downey mildew, Powdery mildew, Septoria, Early blight, White rust, Phytophthora blight, Fusarium wilt, Pythium, Rhizoctonia, Bacteria – description, symptoms, spread, common bacterial diseases, Agrobacterium crown gall, Bacterial soft rots, Bacterial leaf spot

Viruses – description, symptoms, hosts, spread, common viral diseases, TSWV, CMV

Unit 2: Important pests and their identification

Introduction to insects and pests, Pests life cycle, effect of the environmental conditions, Damages caused by pests, Detection of pests – what to look for?, Scouting and monitoring, Scouting tools, aids and methods, Recognizing feeding patterns, Recognizing pest signs Phytotoxicity, Whitefly, Thrips, Aphids, Spider mites

Unit 3: Management of plant diseases and pests: Principles and practices

Introduction and principles of disease control, The disease triangle, Avoiding the pathogen, Disease life cycle, Dissemination and dispersal pathogens, Physical dissemination, Intervention in the disease life cycle, Exclusion, Sanitation, Water disinfection, Quarantine, Other methods, Avoidance, Selecting crop, The planting site, Planting time and density, Irrigation management, Fertilization management, Eradication, Different practices, Crop rotation, Alternative hosts, Soil/media sterilization — steam, Mulches, soil solarisation, Hot water treatment.

Introduction to pest control, Economic damage threshold, Measures to manage, avoid and control pests, Cultural methods, Crop rotation, Managing irrigation and fertilization, Controlling the environment, structure, Anti-insect nets, Traps and pheromones, Sanitation, Weather and pest modeling, Planting dates, and planting densities.

Unit 4: Pesticides and biological control agents for disease and pest management

What are pesticides? Chemical pesticides, Biopesticides, The pesticide label, and how to read it. Handling precautions, the active ingredient, symbols, Pesticide formulations, Modes of action of insecticides, Modes of action of fungicides, Modes of action of biopesticides, Contact pesticides, Systemic pesticides, and Resistance to pesticides.

Introduction to biological control, Techniques of biological control, Augmentation of existing natural enemies, Inoculative release Inductive release, Selection and genetic engineering, Classical biological control, Conservation, Biological control agents, Biological control of pests, Predatory insects, Parasitic insects, Consideration for application of beneficial insects products, Aphidius colemani, Predatory mites, Predatory bugs, Viral biopesticides, Fungal biopesticides, Nematode biopesticides, Biological control of plant diseases, Mechanisms of biological protection, Biofungicides, Agrobacterium Trichoderma, Bacteriophages

Predation by insects, Biological control of weeds

Unit 5: Integrated disease/pest management

Development of modules and assessment of disease and pest (throughout cropping season).

Unit 6: Spray equipment and spray programme

Types of sprayers, Uses of sprayers, Spray terminology, Sprayer maintenance and cleaning, Selecting a sprayer, Calibration, Using chemicals: agitation, clean up and disposal, Basic first aid with chemical pesticides, Response to liquid or powder spills, Keeping records, Misters, Dusters, Blowers, drones, Pesticides and the environment. The water quality, Water acidity, Water mineral content, Turbidity, How to solve water quality problems, Spray calculations –

active ingredients, application rates, sprayer volume, speed selection of pesticides – considerations, Planning in advance, Additional properties of the pesticide that should be considered, precautions during application, health hazards.

Practicals:

Methods of diagnosis and detection of various insect pests, and plant diseases, Methods of insect pests and assessment of crop yield losses Identification and nature of damage of important insect pests, diseases and their management, Identification of biocontrol agents, different predators and natural enemies, Mass multiplication of *Trichoderma*, *Pseudomonas*, *Trichogramma* and NPV, dusters, sprayers, drones, preparation of tank mixtures, Crop (agroecosystem) dynamics of a selected insect pest and diseases, Plan & assess preventive strategies (IPM module) and decision making. Crop monitoring attacked by insect, pest and diseases; Field Visits

III. Certificate Course in GAP for basmati farming

Location: IARI main campus/Other centers.

Lead Division: Genetics

Collaboration:

• Agronomy, Plant Pathology, Entomology, Soil Science and Agricultural Chemistry

• Basmati rice mills and progressive farmers.

Course structure

| S. No. | Topics | No. of | Offered by |
|--------|--|---------|-----------------------------|
| | | Credits | |
| | B | 2 0 | |
| 1. | Basmati rice varietal improvement | 2+0 | Genetics |
| 2. | Rice Pests and their Management | 2+1 | Entomology |
| 3. | Rice Diseases and their Management | 2+1 | Plant Pathology |
| 4. | Seed Production Techniques in Basmati | 2+1 | Seed Science and Technology |
| | rice | | (IARI RS, Karnal) |
| 5. | Commercial Basmati rice production | 0+2 | Agronomy |
| 6. | Basmati Grain Quality Analysis | 2+2 | Genetics |
| 7. | Exposure visits to the farmers' fields, markets and industries | 1+1 | Genetics |
| 8. | Internship in Basmati rice Industries (3 months) | 0+6 | Genetics |

IV. Certificate Course in Greenhouse Hydroponic and Aeroponic Farming

Location: IARI main campus/Other centers.

Name of the lead division CPCT

Collaboration: Divisions: of Agricultural Engineering

List of collaborating industries/private sector

• Barton & Breeze, Gurgaon (<u>www.bartonbreeze.com</u>)

• URBAN GRO, DELHI(<u>www.smarturbanfarmingexpo.com</u>)

- Aeroganic Pvt Ltd Noida <u>www.aeroganics.in</u>
- Greenhack Pvt Ltd, Delhi
- Ponic Greens, Gurgaon
- Elecsol Technology Pvt Ltd, Raipur (<u>www.automationgroup.in</u>)
- Aggragannya Skills Pvt Ltd, Bangalore, Karnataka
- Agricare Corporation Noida Delhi (www.agricarecorp.com)

Background: Smart urban farming is now prevalent among growers/farmers mainly in and around the big cities. Its core principle is to grow high-value horticultural crops in some protected structures with the hydroponics / soilless / Aeroponic system integrated with efficient irrigation and fertigation system. This type of farming is full of modern technologies involving Greenhouse / Hydroponics / Sensors / Automation / Fertigation / Light etc. It requires knowledge, skill, training, exposure, demonstration and hands-on experience to successfully adopt it as business venture. Hydroponics-based urban farming has huge potential for entrepreneurship and business model for farmers/youths in present era. Thus, there is vast scope in this modern farming full of popular technologies related to Automation, Sensors, IoT, Machine Learning, Artificial light, climate control, fertigation etc. This type of farming is popular throughout the world mainly among young professionals from varied sectors like farming, engineering, business etc. Due to the continuous requirement of highvalue nutritious horticultural crops throughout the year mainly in and around the big cities, hydroponics-based farming is very popular as it has the potential to achieve it. Many start-ups related to hydroponics-based farming are coming up, covering entire supply chain for providing quality horticultural produce to common citizens. Hydroponics based farming has two important components dealing with engineering and plant biology. Knowledge and skill in both components are integral to its success. Detail information and skill required related to structure, irrigation and fertigation management, Light, IPM and GAP, micro climate for its success. Broadly it can be classified as the following types.

- 1. Soilless based farming
- 2. Hydroponics based Farming
- 3. Aeroponic based farming

It can be practiced in single or multiple layers as required in Vertical farming. Commercially this type of farming is done in the following protected structures.

- Climate Controlled Greenhouse
- Naturally Ventilated Greenhouse
- Insect Proof Nethouse
- Shade Net House

Centre for Protected Cultivation Technology has infrastructures and Research projects ongoing related to Hydroponics/Soilless/Aeroponic and Vertical farming and the expertise required for related certificate course.

Course Contents

Greenhouse farming concepts, Types of Greenhouses and other protected structures, Drip Fertigation, Concepts of soilless farming, Types of Hydroponics farming, Aeroponic Farming Technology, Water & nutrient management for Hydroponics & Aeroponic farming, IPM & GAP, Light Management, Business Models, Industry exposure.

PG Diploma Courses

I. Post Graduate Diploma in Soil Testing and Nutrient Management

Location: IARI main campus

Lead Division: Division of Soil Science and Agricultural Chemistry

Collaboration: Fertilizer industries (IFFCO, KRIBHCO, IPL, UPL, Mahindra Agro etc.)

Background: The soil testing service in India constantly expanded over the years, having presently a network of about 1750 soil testing labs. Despite the large network of STLs and personnel engaged therein, the service could not gain desired mass acceptability. As a result, the demand for soil testing is low, as even innovative and resource-rich farmers are often not enthusiastic about testing their soil for fertilizer use decisions. This is due to a lack of awareness regarding the advantages of soil testing. Soil testing, therefore, continues to be a government-driven service rather than a farmer demand-driven one. Ideally, in 70 years of its existence, the service should have become much demanded by the farmers. The fertilizer industries are constantly recruiting a workforce with soil testing and fertilizer recommendation duties in every corner of the country. Apart from the Govt. sponsored laboratories, many soil testing facilities are developed in the country by different private sector companies/NGOs etc. Soil testing is a specialized service that requires the involvement of a subject matter specialist with a thorough understanding of soil problems, soil test methods, data interpretation and formulation of recommendations, nutrient management protocols, the chemistry of fertilizers and manures application. Unfortunately, human resource deployed in several STLs possesses inadequate knowledge and skill essential for the service. There are enormous demands for experience and skilled personnel to be deployed in the soil testing labs across the country run by the government and private sectors. There is no specialized diploma course available for this purpose. Training courses on soil testing are also very few in the country.

Course structure

New courses have been developed with appropriate contents for PG Diploma and faculty of SS&AC have given their consent to take-up the new courses for PG Diploma, and approved by BOS, SS&AC.

| Course | Name of the course | Credits | Offered | Name of Faculty | | | |
|---------------|---------------------------------------|---------|---------|---------------------------------|--|--|--|
| No. | | | by | | | | |
| | | C | 4 T | | | | |
| Semester -I | | | | | | | |
| STNM-1 | Introduction to Soil | 2+1 | SSAC | Dr Nayan Ahmed, Dr VK Sharma, | | | |
| | | | | Dr Ranjan Bhattacharyya, Dr MC | | | |
| | | | | Meena, Dr Sunanda Biswas, Dr | | | |
| | | | | Shrila Das | | | |
| STNM-2 | Principles of Soil | 2+1 | SSAC | Dr SP Datta, Dr KM Manjaiah, Dr | | | |
| S11NIVI-2 | Frinciples of Son Fertility and Plant | 2+1 | SSAC | TJ Purakayastha, Dr Mandira | | | |
| | Nutrition | | | Barman, Dr Prasenjit Ray, Mrs. | | | |
| | ruttiton | | | Ankita Trivedi | | | |
| | | | | Timettu Tiivoui | | | |
| STNM-3 | Methods for Soil, Plant | 1+2 | SSAC | Dr DR Biswas, Dr Sarvendra | | | |
| | and Water Analysis | | | Kumar, Dr Indu Chopra, Mr Kapil | | | |
| | | | | Chobhe, Dr Abir Dey, Dr Debarup | | | |
| | | | | Das | | | |
| | Semester -II | | | | | | |
| Schiester -11 | | | | | | | |
| STNM-4 | Fertilizers, Manures | 2+1 | SSAC | Dr DR Biswas, Dr KM Manjaiah, | | | |
| | and Bio-fertilizers | | | Dr Ranjan Bhattacharyya, Dr | | | |
| | | | | Archana Suman (Division of | | | |

| | | | | Microbiology), Dr Sarvendra Kumar, Dr Sunanda Biswas, Mr Kapil Chobhe, Dr Debarup Das, Mrs. Ankita Trivedi, |
|--------|---|-----|------|---|
| STNM-5 | Principles and Practices of Nutrient Management | 2+1 | SSAC | Dr SP Datta, Dr Nayan Ahmed, Dr TJ Purakayastha, Dr VK Sharma, Dr MC Meena, Dr Mandira Barman, Dr Prasenjit Ray, Dr Abir Dey, Dr Shrila Das |
| STNM-6 | Field Experience Training (15 days) | 5 | SSAC | Dr MC Meena and Dr Abir Dey Details are given at the point S.No. 7 of the proposal |
| STNM-7 | Internship in Industry (15 days) | 5 | SSAC | Dr MC Meena and Dr Abir Dey Details are given at the point S.No. 8 of the proposal |
| | Total credits | 25 | | |

Syllabus

1. Introduction to Soil [3(2L+1P)]

Soil as a natural body, Pedological and Edaphological concepts of soil; processes and factors of soil formation; Soil Profile, components of soil; Soil physical properties: soil-texture, structure, density and porosity, soil colour, consistence and plasticity, soils of India; soil water retention, movement and availability; Soil air and temperature; silicate clays: constitution and properties; sources of charge; soil organic matter: composition, properties and its influence on soil properties; humic substances - nature and properties; soil organisms: macro and micro organisms, their beneficial and harmful effects; soil enzyems; soil pollution - behaviour of pesticides and inorganic contaminants, prevention and mitigation of soil pollution. Soil erosion: types and processes, management of soil erosion;

Practicals

Study of soil profile in field. Study of soil sampling tools, collection of representative soil sample, its processing and storage; determination of soil density, moisture content and porosity; determination of soil texture by feel and Bouyoucos Methods; determination of water holding capacity of soil, determination of soil colour. Determination of soil pH and electrical conductivity. Determination of cation exchange capacity of soil. Determination of microbial biomass and enzyme activities.

2. Principles of Soil Fertility and Plant Nutrition [3(2L+1P)]

Soil fertility and soil productivity; History of soil fertility and plant nutrition, criteria of essentiality, role, deficiency and toxicity symptoms of essential plant nutrients, nutrient movement in soils; nutrient absorption by plants; mechanistic approach to nutrient supply and uptake by plants, factors affecting nutrient availability to plants. Laws governing in plant growth and nutrition. Chemistry and cycle of soil nitrogen, phosphorus, potassium, calcium,

magnesium, sulphur and micronutrients. Critical levels of different nutrients in soil. Forms of nutrients in soil and plant, Indicator plants. Soil organic carbon, its function, different carbon pools in soil and their role in maintaining soil quality and productivity.

Practicals

Pot study involving indicator plants for development and identification of nutrient deficiency and toxicity; correction of nutrient deficiency in controlled and field conditions.

3. Methods for Soil, Plant and Water Analysis [3(1L+2P)]

Principles of quantitative inorganic analysis, principles of colorimetry, flame-photometry, atomic emission and atomic absorption spectroscopy. Principles of volumetric analysis, preparation of solutions for standard curves, analytical reagents, qualitative reagents, indicators and standard solutions for acid-base, oxidation- reduction and complexometric titration analysis. Principles and methods of analysis for macro- and micronutrients in soils and plants. Digesting techniques for plant materials. Quality of irrigation water and its suitability.

Practicals

Introduction of analytical instruments and their principles, calibration and applications, colorimetry and flame photometry. Estimation of soil organic carbon, estimation of alkaline hydrolysable N in soils. Estimation of soil extractable P in soils. Estimation of exchangeable K; Ca and Mg in soils. Estimation of soil extractable S in soils. Estimation of DTPA extractable Zn, Fe, Cu and Mn in soils. Estimation of N in plants. Estimation of P in plants. Estimation of K in plants. Estimation of S in plants. Estimation of B in plants. Estimation of Zn, Cu, Fe and Mn in plants. Assessment of irrigation water quality.

4. Fertilizers, Manures and Bio-fertilizers [3(2L+1P)]

Fertilizers, manures and biofertilizers: Indian and global scenario of production and consumption. Introduction and importance of organic manures, properties and methods of preparation of bulky and concentrated manures, mechanisms of decomposition with variable C/N ratio materials, enriched and concentrated manures - their preparation, preservation and usages. Green/leaf manuring. Non-conventional sources of plant nutrients: agricultural, municipal and industrial wastes and effluents. Chemical fertilizers: classification, composition and properties of major nitrogenous, phosphatic, potassic fertilizers, secondary & micronutrient fertilizers, customized and complex fertilizers, slow release and nanofertilizers, Fertilizer Storage, Fertilizer Control Order. Bio-fertilizers - definition, classification and their nutrient potential, mechanisms, production, usage and constraints; strategies for popularizing biofertilizers in India.

Practicals

Determination of moisture, total nitrogen, total phosphorus and total potassium in manures and fertilizers, determination of ammoniacal and nitrate nitrogen in manures and fertilizers, di-acid and tri-acid digestion of manures, determination of biuret in urea, determination of total and organic carbon in manures, determination of mineralization rates of manures, determination of urea-N by hydrolytic method, determination of water soluble, citrate soluble and citrate insoluble P in fertilizers, determination of chloride other than NH₄Cl in ammonium chloride fertilizer, determination of Ca, Mg and S in manures and single superphosphate, determination of micronutrients in manures and micronutrient fertilizers. Identification of impurities in fertilisers.

5. Principles and Practices of Nutrient Management [3(2L+1P)]

Interpretation of soil test data; soil test summaries and soil fertility maps; Fertilizer recommendation approaches; critical nutrient concept; targeted yield and multiple regression techniques in soil test crop response studies; formulation of fertilizer dose for different types of crops and cropping systems including cereals, vegetables, ornamental and horticultural crops on normal and problem soils; fertilizer recommendations for rain-fed conditions, integrated plant nutrient supply systems; nutrient management in protected agriculture. Factor influencing nutrient use efficiency (NUE), problem soils and their management, soil amendments. Site-specific nutrient management; decision support systems for fertilizer recommendations; DRIS approach of fertilizer recommendation; Sensorbased soil fertility analysis and real-time nutrient management; Advanced soil testing kits for rapid soil testing and fertilizer recommendation.

Practicals

Use of leaf colour chart, SPAD meter and GreenSeeker for real-time N management; Development of fertilizer prescriptions through different approaches, Fertilizer recommendations through Nutrient Expert; soil testing and fertilizer recommendation through Pusa STFR meter. Determination of lime and gypsum requirement of soil. Filed exposure to precision agriculture facilities.

- **7. Field Experience Training (15 days):** Onevillage will be assigned to each student for assessing the soil related problems, and develop management strategies. Students will collect the soil samples, processing, analysis the samples for fertility parameters, develop the fertilizer recommendation for the crops, and develop the soil fertility maps of the allotted villages. They will be associated with KVKs etc.
- **8. Internship in Industry (15 days):** Students will be taken their internship in the soil testing and nutrient management related laboratory/industries/institute *etc*. Student will be associated with soil testing laboratories of the fertilizer industries like IFFCO, KRIBHCO, Mahindra, Goderaj etc. for understanding the functioning of their soil testing lab, and work independently to fulfil the lab requirement as trained man power. Industry will give a certificate for successful completion of the internship.

Budget requirements

| S. | Item | Estimated cost (Rs.) |
|-----|--------------------------------------|----------------------|
| No. | | |
| | | |
| 1. | Computers, projector and accessories | 3.0 Lakhs |
| 2. | Nitrogen distillation set | 15 Lakhs |
| 3. | Centrifuge | 2.0 lakhs |
| 4. | High precision balance | 2.5 lakhs |
| 5. | TA/DA for faculty | 1.0 lakh |

| 6. | Chemicals, glassware, plastic wares and | 10 lakhs |
|----|---|----------|
| | consumable items | |
| | | |

II. Post Graduate Diploma in Fruit Production Practices and Nursery Management.

Location: IARI main campus/Other centers.

Name of the lead division: FHT, ICAR- IARI, New Delhi

List of collaborating Divisions:

- ICAR- IARI, Jharkhand.
- WTC, ICAR- IARI, New Delhi.
- SSAC, ICAR- IARI, New Delhi.
- Agronomy, ICAR- IARI, New Delhi.
- FSPHT, ICAR- IARI, New Delhi.
- CPCT, ICAR- IARI, New Delhi.
- Plant Pathology, ICAR- IARI, New Delhi.

Background:Over the years, horticulture has emerged as one of the potential agricultural enterprises in accelerating the growth of economy. Its role in the country's nutritional security, poverty alleviation and employment generation programmes is becoming increasingly important. It offers not only a wide range of options to the farmers for crop diversification, but also provides ample scope for sustaining large number of agro-industries which generate huge employment opportunities. As a result of a number of thoughtful research, technological and policy initiatives and inputs, horticulture in India, today, has become a sustainable and viable venture for the small and marginal farmers. This sector has started attracting entrepreneurs for taking up horticulture as a commercial venture. In order to prepare the youth ready to meet the requirement of fruit industries /service sector and to inculcate entrepreneurship and start up among them ICAR- IARI, New Delhi offers Postgraduate Diploma programme in the area of 'Fruit Production Practices and Nursery Management'.

Course structure

| Course stru | Course structure | | | | | | |
|-------------|---------------------------|---------|---------|--------------------------------------|--|--|--|
| Course No. | Name of the course | Credits | Offered | Faculty for Teaching (Tentative) | | | |
| | | (T+P) | by | | | | |
| | Semester -I | | | | | | |
| FSC 501 | Tropical Fruit Production | 2+1 | FSC | Dr O.P. Awasthi, Dr V.B. Patel, Dr | | | |
| (Existing) | _ | | | Kanhaiya Singh, Dr A. Nagaraja | | | |
| | | | | and Dr Amit Kumar Goswami | | | |
| FSC 503 | Propagation and Nursery | 2+1 | FSC | Dr Kanhaiya Singh, Dr R.M. | | | |
| (Existing) | Management of Fruit | | | Sharma, Dr (Ms.) Vartika | | | |
| | Crops | | | Srivastava, Dr Chavlesh Kumar | | | |
| FSC 510 | Organic Fruit Culture | 2+1 | FSC | Dr V.B. Patel, Dr (Ms.) K. Usha, Dr | | | |
| (Existing) | | | | A.K. Shukla, Dr Bikash Das | | | |
| | | | | | | | |
| | Semester -II | | | | | | |
| FSC 502 | Sub-Tropical and | 2+1 | FSC | Dr AK Dubey, Dr RM Sharma, Dr | | | |
| (Existing) | Temperate Fruit | | | MK Verma and Dr AK Shukla | | | |
| | Production | | | | | | |
| FSC 515 | Tissue Culture of Fruit | 1+2 | FSC | Dr Sanjay Kumar Singh, Dr Manish | | | |
| (New) | Crops | | | Srivastav, Dr Vartika Srivastava, Dr | | | |
| | | | | Nimisha Sharma | | | |

| FSC 516 | Protected Cultivation of | 2+1 | FSC | Dr RM Sharma, Dr Jai Prakash, Dr |
|---------|--------------------------|-----|-----|------------------------------------|
| (New) | Horticultural Crops | | | Murtaza Hasan (CPCT), Dr MC |
| | | | | Singh (CPCT), DR PK Singh |
| | | | | (CPCT) |
| FSC 517 | Exposure Visits to Hi- | 5 | FSC | Dr Kanhaiya Singh, Dr Manish |
| | Tech Nurseries/ Centre | | | Srivastav, Dr (Mrs.) Madhubala |
| | of Excellence | | | Thakre, Mr. Nayan Deepak G. |
| | (15 days) | | | |
| FSC 518 | Internship with Industry | 5 | FSC | Dr Kanhaiya Singh, Dr Manish |
| | (15 days) | | | Srivastav, Dr Jai Prakash, Dr Amit |
| | | | | Kumar Goswami |
| | Total | 28 | | |

Syllabus

1. FSC 501 Tropical Fruit Production (2+1)

Theory

Block 1:

Introduction Unit I: Importance and Background: Importance, origin and distribution, major species, rootstocks and commercial varieties of regional, national and international importance, eco-physiological requirements.

Block 2: Agro-techniques

Unit I: Propagation, Planting and Orchard Floor Management: Asexual and sexual methods of propagation, planting systems and planting densities, training and pruning methods, rejuvenation, intercropping, nutrient management, water management, fertigation, use of biofertilizers, role of bio-regulators, abiotic factors limiting fruit production.

Block 3:

Crop Management Unit I: Flowering, Fruit-Set and Harvesting: Physiology of flowering, pollination management, fruit set and development, physiological disorders – causes and remedies, crop regulation, quality improvement by management practices; maturity indices, harvesting, grading, packing, storage and ripening techniques; insect and disease management. Crops: Mango, Banana, Guava, Pineapple, Papaya, Avocado, Jackfruit, Annonas, Aonla, Ber, etc.

Practicals • Distinguished features of tropical fruit species, cultivars and rootstocks; • Demonstration of planting systems, training and pruning; • Hands on practices on pollination and crop regulation; • Leaf sampling and nutrient analysis; • Physiological disorders-malady diagnosis; • Physico-chemical analysis of fruit quality attributes; • Field/ Exposure visits to tropical orchards; • Project preparation for establishing commercial orchards.

2. FSC 502 Sub-Tropical and Temperate Fruit Production (2+1)

Theory

Block 1:

Introduction Unit I: Importance and Background: Origin, distribution and importance, major species, rootstocks and commercial varieties of regional, national and international importance, eco-physiological requirements.

Block 2:

Agro-Techniques Unit I: Propagation, Planting and Orchard Floor Management: Propagation, planting systems and densities, training and pruning, rejuvenation and replanting, intercropping, nutrient management, water management, fertigation, use of bio-fertilizers, role of bio-regulators, abiotic factors limiting fruit production.

Block 3: Crop Management Unit I: Flowering, Fruit-Set and Harvesting: Physiology of flowering, pollination management, fruit set and development, physiological disorders-causes and remedies, crop regulation, quality improvement by management practices; maturity indices, harvesting, grading, packing, storage and ripening techniques; insect and disease management. Crops Citrus, Grapes, Litchi, Pomegranate, Apple, Pear, Peach, Plum, Apricot, Cherries, Berries, Persimmon, Kiwifruit, Nuts-Walnut, Almond, Pecan, etc.

Practicals • Distinguished features of fruit species, cultivars and rootstocks; • Demonstration of planting systems, training and pruning; • Hands on practices on pollination and crop regulation; • Leaf sampling and nutrient analysis, Physiological disorders-malady diagnosis; • Physico-chemical analysis of fruit quality attributes; • Field/ Exposure visits to subtropical and temperate orchards; • Project preparation for establishing commercial orchards.

3. FSC 503 Propagation and Nursery Management of Fruit Crops (2+1)

Theory

Block 1:

Introduction Unit 1: General Concepts and Phenomena: Introduction, understanding cellular basis for propagation, sexual and asexual propagation, apomixis, polyembryony, chimeras. Factors influencing seed germination of fruit crops, dormancy, hormonal regulation of seed germination and seedling growth. Seed quality, treatment, packing, storage, certification and testing.

Block 2:

Propagation Unit I: Conventional Asexual Propagation: Cutting—methods, rooting of soft and hardwood cuttings under mist and hotbeds. Use of PGR in propagation, Physiological, anatomical and biochemical aspects of root induction in cuttings. Layering — principle and methods. Budding and grafting — principles and methods, establishment and management of bud wood bank. Stock, scion and inter stock relationship — graft incompatibility, physiology of rootstock and top working.

Unit II: Micropropagation: Micro-propagation – principles and concepts, commercial exploitation in horticultural crops. Techniques – in-vitro clonal propagation, direct organogenesis, embryogenesis, micrografting, meristem culture, genetic fidelity testing. Hardening, packaging and transport of micro-propagules.

Block 3:

Nursery Unit I: Management Practices and Regulation: Nursery — types, structures, components, planning and layout. Nursery management practices for healthy propagule production. Nursery Act, nursery accreditation, import and export of seeds and planting material and quarantine.

Practical • Hands on practices on rooting of dormant and summer cuttings; • Anatomical studies in rooting of cutting and graft union; • Hands on practices on various methods of budding and grafting; • Propagation by layering and stooling; Micropropagation- explant preparation, media preparation, culturing – meristem tip culture, axillary bud culture, micrografting, hardening; • Visit to commercial tissue culture laboratories and accredited nurseries;

4. FSC 510 Organic Fruit Culture (2+1)

Theory

Block 1:

General Aspects Unit I: Principles and Current Scenario: Organic horticulture, scope, area, production and world trade, definition, principles, methods and SWOT analysis.

Block 2:

Organic Culture Unit I: Farming System and Practices: Organic farming systems including biodynamic farming, natural farming, homa organic farming, rishi krishi, EM technology, cosmic farming; on-farm and off-farm production of organic inputs, role of bio-fertilizers, bio enhancers, legumes, inter cropping, cover crops, green manuring, zero tillage, mulching and their role in organic nutrition management. Organic seeds and planting materials, soil health management in organic production, weed management practices in organic farming, biological management of pests and diseases, trap crops, quality improvement in organic production of fruit crops.

Block 3:

Certification Unit I: Inspection, Control Measures and Certification: Inspection and certification of organic produce, participatory guarantee system (PGS), NPOP, documentation and control, development of internal control system (ICS), Concept of group certification, constitution of grower group as per NPOP, preparation of ICS manual, internal and external inspection, concept of third party verification, certification of small farmer groups (Group Certification), transaction certificate, group certificate, critical control points (CCP) and HACCP, IFOAM guidelines on certification scope and chain of custody, certification trademark – The Logo, accredited certification bodies under NPOP. Constraints in certification, IFOAM and global scenario of organic movement, postharvest management of organic produce. Economics of organic fruit production.

Practicals • Design of organic orchards/ farms management (1); • Conversion plan (1); • Nutrient management and microbial assessment of composts and bio-enhancers(2); • Preparation and application of composts, bio-enhancers and bio-pesticides(2); • Organic nursery raising (1); • Application of composts, bio-enhancers, bio-fertilisers and bio-pesticides, green manure, cover, mulching (2); • Preparation and use of neem based products(1); Biodynamic preparations and their role in organic agriculture, EM technology and products, biological/ natural management of pests and diseases(2); • Soil solarisation (1); • Frame work for GAP(1); • Documentation for certification(1).

5. FSC 515 Tissue Culture of Fruit Crops (1+2)

Theory

UNIT I Basic principles of plant tissue-culture and commercial exploitation in horticultural crops.

UNIT II Micro-propagation Techniques – in-vitro clonal propagation, direct organogenesis, embryogenesis, micrografting, meristem culture, genetic fidelity testing.

Practicals

General acquaintance with a tissue culture laboratory; Methods of aseptic culture and sterilization procedure; Stock solutions and preparation of culture media; In vitro culture establishment and plant regeneration, clonal fidelity testing- DNA isolation and RAPD/ SSR analysis; Techniques of low temperature germplasm storage, cryo-preservation and visit to cryobank.

6. FSC 516 Protected Cultivation of Horticultural Crops Theory

UNIT 1 Importance and scope of protected cultivation; principles and structures used in protected cultivation including hotbed, cold frame, polyhouse, low tunnel etc effect of temperature, light, humidity and CO₂ on growth, flowering and production

UNIT II Hi-tech nursery raising technology and propagation of fruit crops; production 2technology and economics of production of high value crops; like strawberry, raspberry etc.

UNIT III Micro-irrigation, fertigation and soil-less culture; problems associated with growing of horticultural crops in greenhouse and their remedies; use of growth regulators in protected cultivation.

Practicals

Layout and installation of different protected structures; Climatic requirements maintenance for protected cultivation of horticultural crops; Hi-tech nursery management for fruit crops; Fertigation technology for horticultural crops; Soilless cultivation of horticultural crops.

- **7. Exposure Visits to Hi-Tech Nurseries/ Centre of Excellence(15 days):** Exposure visits of Hi-Tech Nurseries in NCR, Centre of Excellence, KVKs will be undertaken for students.
- **8. Internship in Industry (15 days):** Students will be taken their internship in Hi-Tech Fruit Cultivation, Hi-Tech Nursery Management at Centre of Excellence (State Govt.), Pvt. Industries (Jain Irrigation, Reliance Ltd., VNR Raipur etc. for having hands on experience about Hi-Tech Fruit Cultivation and Nursery Management. Industry may be asked to give a certificate for successful completion of the internship.

Budgetary Requirements

| | Itam- | Estimated and (Da) |
|-----|--|----------------------|
| S. | Item | Estimated cost (Rs.) |
| No. | | |
| 1. | Computers, projector and accessories | 3.0 Lakhs |
| 2. | Creation of Field Lab. | 15.0 Lakhs |
| 3. | Contingency grant for conducting practical, activities, preparation of teaching aids, learning resources, consumables (chemicals, glass wares, plastic wares, etc.). | 10.0 Lakhs |
| 4. | Travel- TA/DA for faculty, exposure visits of students', excursion of students to different places/ facilities. | 5.0 Lakhs |

III. Post Graduate Diploma in Seed Production, Processing and Quality Control

Location: IARI main campus/Other centres.

Collaboration of other Divisions/ institutions/ industry & their specific role: Lead

Division: Division of Seed Science and Technology, ICAR-IARI, New Delhi

List of Collaborating Institutes/Divisions:

ICAR-IARI Regional Station, Karnal

ICAR-IARI Regional Station, Katrain

Div. of Agri. Engineering, ICAR-IARI, New Delhi

Div. of Vegetable Science, ICAR-IARI, New Delhi

List of collaborating industries:

National Seeds Corporation (NSC)

Public and Private Seed Industries

Background: Seed is the most important input for sustainable crop production and food security. Availability of quality seed is crucial for higher yield and productivity. At present more than 500 private seed companies are operating along with national /state seed corporation(s)to fulfil the seed requirement of farming community and for export purposes. In the significant advances India made in agriculture during the last five decades, the role of

the Seed Industry is substantial. It is a well established fact that the success of the green revolution in India was a combination of seeds of high yielding varieties and improved agronomic packages. Globally this is an exciting time to be in agriculture, particularly in the Seed Industry. The demand for quality seeds of improved varieties is fast growing and farmers' adoption of new technologies is happening at an amazing pace. Therefore, producing and supplying high-quality seeds of improved varieties to the tiller of the land is a high priority in agricultural growth and development. In light of the above, young agricultural graduates should be trained in the area of seed production, processing and quality control to make available a trained workforce and upscale the available human resources for the seed industry. The PG Diploma degree holders may produce seeds on their own farmland and obtain higher income as self-employed one. Alternately they can develop FPO with seed production as an important activity providing training to fellow farmers. Further, for the seed industry personnel, this course will benefit their skill enhancement and knowledge upgradation, improving their work efficiency.

Course structure

| Course | Name of the course | Credits | Offered by; collaborator |
|---------|---|------------|---|
| No. | | (L+P) | |
| | | Semester | -I |
| SST 401 | Principles and Techniques of Seed Production | 2+1 | DSST |
| SST 402 | Seed Production in Field Crops | 2+1 | DSST; IARI Reg. Station, Karnal |
| SST 403 | Seed Production in Vegetable Crops | 2+1 | DSST; |
| | | | D Veg Sc. and IARI Reg station Katrain |
| SST 404 | Seed business and Entrepreneurship Development | 2 +0 | DSST |
| | Total credits | 8+3 | |
| | \$ | Semester - | -II |
| SST 405 | Seed Processing and storage | 2+1 | DSST; D Ag.Engg. |
| SST 406 | Seed Legislation and Plant Variety Protection | 2+1 | DSST |
| SST 407 | Seed Quality Testing | 2+1 | DSST |
| SST 408 | One month Industrial attachment | 0+2 | DSST |
| | Total credits | 6+5 | |

| OVERALL CREDIT LOAD | <u>14 + 8</u> | |
|---------------------|---------------|--|
| | | |

Course Contents

SST 401: Principles and Techniques of Seed Production (2L+1P)

[Faculty:Dr SK Chakrabarty, Dr Sudipta Basu, Dr Sandeep K Lal, Div. of Seed Science and Technology, ICAR-IARI, New Delhi]

Theory

- 1. UNIT I: Seed as a basic input in agriculture, seed quality concept; factors affecting seed production; generation system of seed multiplication classes of seed; stages of seed multiplication; seed multiplication ratio (SMR); seed replacement rate (SRR); varietal replacement rate (VRR);
- 2. UNIT II: Steps in the development, evaluation, release, notification and maintenance of varieties; life span of varieties and factors responsible for their deterioration; classification of crop plants in relation to the mode of reproduction.
- 3. UNIT III: Principles of hybrid seed production viz. isolation, synchronization of flowering, field inspection, rogueing etc.; special agronomical practices for seed production; role of insect pollinators and their management for hybrid seed production; effect of environment on seed quality;
- 4. UNIT IV: Seed quality control system and organization; suitable seed production areas; seed village concept and participatory seed production; custom seed production; agencies responsible for seed production; seed industry in India.

Practicals

- 1. Seed production of varieties/ hybrids of rice, maize, pearl millet, pulses and vegetable crops.
- 2. Isolation distance and border rows in hybrid seed production field space and barrier isolation; modifying isolation based on border rows; emasculation and pollination practices for hybrid seed production; methods for achieving synchronization in rice, maize, bajra and vegetable crops; supplementary pollination in rice; rogueing in seed production plots
- 3. Visit to seed production plots; visit to seed production companies, certification agencies and seed processing units.

SST 402: Seed Production in Field Crops (2L+1P)

[Faculty:Dr Monika A Joshi, Dr Vijayakumar H.P from Div. of Seed Science and Technology, ICAR-IARI, New Delhi and Dr. R.N. Yadav from ICAR-IARI Regional Station, Karnal]

Theory

- 1. UNIT I: Basic principles of seed production & importance of quality seed, Floral structure, breeding and pollination mechanism in self and cross-pollinated crops, factors influencing seed production; generation system of seed multiplication classes of seed, stages of seed multiplication in varieties and hybrids
- 2. UNIT II: Methods and techniques of seed production in varieties and hybrids of important cereals and millets wheat, barley, rice, maize, sorghum and pearl millet; UNIT III: Methods and techniques of varietal seed production in major pulses black gram, green gram, cowpea, chickpea, soybean and lentil varietal and hybrid seed production in red gram.

- 3. UNIT IV: Methods and techniques of seed production in major oil seed crops groundnut, sesame varietal and hybrid seed production in sunflower and mustard; varietal and hybrid seed production in cotton varietal seed production in jute.
- 4. Unit V: Seed production planning for varieties and hybrids of major crops; participatory seed production seed hubs, seed village concept and community seed bank.

Practicals

- 1. Planning of seed production in field crops, sowing and nursery management techniques
- 2. Seed production of self- and cross-pollinated crops, Isolation distance and border rows in hybrid seed production field space and barrier isolation; modifying isolation based on border rows in maize
- 3. Study on methods of achieving synchronization, Practicing supplementary pollination Study on foliar nutrition and influence on seed yield
- 4. Practicing roguing operation identification of off-types, pollen shedders, shedding tassels, partials, selfed bolls, Pre and post harvest sanitation operations cereals, millets and pulses
- 5. Visit to seed production fields, Seed production planning and economics of seed production varieties

SST 403: Seed Production in Vegetable Crops (2L +1P)

[Faculty:Dr. Sudipta Basu, Dr. Sandeep K. Lal, Dr. R.Y.Vishwanath, Div. of Seed Science and Technology, ICAR-IARI, New Delhi in association with Dr. B.S.Tomar, JD(Extn.) and Head, Div. of Veg Sc. and IARI Reg station Katrain]

Theory

- 1. UNIT-I: Importance and present status of vegetable seed industry; factors influencing vegetable seed production; Principles of seed production; floral biology, pollination systems and breeding techniques related to vegetable seed production, agronomic practices for vegetable seed production; environmental factors affecting flowering/bolting in vegetable crops, seed production planning and economics of hybrid seed production.
- 2. Unit II: Seed production in major solanaceous vegetables tomato, brinjal, chilli; malvaceous vegetable crop bhendi; cucurbitaceous vegetables gourds and melons,
- 3. Unit III: Seed production in cole crops cauliflower, cabbage, knol-khol, root vegetables carrot, radish and other temperate / hilly vegetable crops.
- 4. Unit IV: Seed production in major leguminous vegetables peas and beans; leafy vegetables amaranthus, palak, spinach, and lettuce.
- 5. Unit V: Seed production in tuber crops potato, seed-plot technique in potato true potato seed (TPS) production; seed production in bulb crops onion, garlic.
- 6. Unit VI: Vegetative and clonal multiplication methods, merits and demerits; clonal multiplication potato.

Practical

- 1. Identification of vegetable seeds; studying floral biology of vegetable crops, sex forms in cucurbitaceous crops and their modification
- 2. Seed production technology of cucurbits, solanaceous vegetables and cole crops under open and net/poly-house conditions; emasculation and pollination methods for hybrid seed production in vegetable crops. planting designs for hybrid seed production
- 3. Roguing in seed production identification of true to type, off-type and selfed fruits; harvesting methods single and multiple harvesting method; seed extraction
- 4. Visit to vegetable seed production fields and seed companies.

SST 404: Seed Business and Enterpreneurship Development (2L +0P)

[Faculty: Mr. Manjunath P., Dr. Sandeep K. Lal and Dr. R.Y.Vishwanath, Div. of Seed Science and Technology, ICAR-IARI, New Delhi]

Theory

- 1. UNIT-I: Seed systems and food security, Seed industry: history, present status, organization setup, and major constraints, Seed enterprise and entrepreneurship development
- 2. Unit II: Seed production, distribution and supply systems, Economics of seed production: production costs and returns, Seed certification: concept and procedure, Post-harvest management of seed crop
- 3. Unit III: Seed Replacement Rate (SRR) and Seed Multiplication Ratio (SMR) and its importance, Basic concepts of seed marketing, Demand forecasting and its importance, Concept of price fixation and seed pricing policy
- 4. Unit IV: Market intelligence: Concept & importance, Product development and sales promotion, Seed distribution and communication channels, Product marketing: costs, margins & cost benefit ratio
- 5. Unit V: National and international organizations for facilitating seed trade, Provisions under Seed Act pertinent toseed companies and dealers, Recent developments in seed regulations and policies, Marketing laws and consumer rights, Export-Import policies for seed trade
- 6. Unit VI: Plant quarantine and phytosanitary requirements, OECD varietal certification and seed trade, Statutory requirements for operating seed business, Custom seed production and contract seed production, Seed hubs, Seed village concept and farmer participatory seed production

SST 405: Seed Processing and storage (2L+1P)

[Faculty: Dr D Vijay, Dr Sangita Yadav, Mr Manjunath P., Div. of Seed Science and Technology, ICAR-IARI, New Delhi; Dr Ashwini Kumar from ICAR-IARI Regional Station, Karnal and One faculty from D Ag. Engg. to be identified]

Theory

- 1. UNIT-I: Classification of seeds based on storage behaviour; Types of storage; kinds of storage, Factors effecting seed storability- biotic and abiotic factors, pre-and post-harvest factors
- 2. Unit II: Seed equilibrium moisture content, hysteresis, thumb rules, prediction of storability and longevity of seeds, Concept of seed ageing and deterioration- causes, symptoms and mechanisms, Application of physiological and biochemical techniques for evaluation of seed ageing
- 3. Unit III: Seed viability and vigour, importance, testing, and influence on crop performance,
- 4. Mid storage corrections and other amelioration techniques to reduce seed deterioration, Storability of coated, pelleted, and primed seed
- 5. Unit IV: Storage methods and storage structures, Important storage insects and fungi and their control including seed treatment, fumigation, and other safe storage measures.
- 6. Unit V: Seed drying principle and differenttypes and procedures and recent advances, Principles of seed processing and its importance in seed quality maintenance, Seed cleaning and processing equipment and their functions, processing efficiency, quality enhancement, seed blending and its relevance
- 7. Unit VI: Seed packaging, types, and its influence on seed longevity, Seed labelling and its statutory requirements

Practicals:

1. Estimation of seed moisture content, Effect of storage environment on seed viability

- 2. Effect of packaging material on seed quality, Seed treatment, Prediction of storability
- 3. Accessing physiological and biochemical changes during seed storage
- 4. Effect of drying on seed storability, Estimation of drying loss, Use of psychrometric chart to identify suitable temperature and RH for seed storage
- 5. Handling of seed processing equipment lab models, Estimation of processing efficiency of different equipment, Detection of mechanical injury during processing
- 6. Visit to seed store and processing plant

SST 406 Seed Legislation and Plant Variety Protection (2L+1P)

[Faculty: Dr Shiv K Yadav, Dr S. K. Chakrabarty, Dr Monika A Joshi and Dr Arun Kumar MB, Div. of Seed Science and Technology, ICAR-IARI, New Delhi]

Theory

- 1. UNIT I: Introduction to quality seed and its importance, Historical development of Seed Industry in India, Regulatory mechanisms of seed quality control and organizations involved in seed quality control programmes
- 2. UNIT II: Legislations and policies for quality assurance, Seed Act (1966), Seed Rules (1968), Seed Control Order (1983), EXIM Policy regarding seeds
- 3. UNIT III: New Policy on Seed Development (1988), National Seed Policy (2002), Seed Bill 2019, Plant Quarantine Act, regulations and plant quarantine set up in India
- 4. UNIT IV: Seed certification and OECD seed certification schemes, PPV & FR Act (2001) and Rules (2003), Introduction to Concepts of PVP, Understanding Criteria for PVP Registration, IP Management A Conceptual Overview, Technology Life cycle, Technology Licensing
- 5. UNIT V: Criteria for protection of new varieties of plants, Principles and procedures of Distinctness, Uniformity and Stability (DUS) testing, Test guidelines, planting material, duration, testing options, Varieties of common knowledge, reference collection
- 6. UNIT VI: Assessment of DUS characters based on morphological, biochemical and molecular markers, Grouping of varieties, Types and categories of characters, Impact of PVP on growth of seed industry

Practicals

- **1.** Morphological description of plant parts and plant, Character expression and states, Recording observation and interpretation of data
- **2.** Genetic purity assessment based on seed characters, Genetic purity assessment based on seedling growth tests, anthocyanin pigmentation, Genetic purity assessment based on secondary compounds, phenol, peroxidise
- **3.** DUS testing based on morphological descriptors of plant cereals* and millets*, pulses* and oil seeds* , vegetable crops* (*will be decided on basis of crops raised in the particular semester)
- 4. Chemical and biochemical test applicable for DUS testing, Visit to DUS test centers

SST 407: SEED QUALITY TESTING (2L+1P)

[Faculty: Dr Sandeep K lal, Dr Atul Kumar, Dr Arun Kumar MB and Dr Nagamani S from Div. of Seed Science and Technology, ICAR-IARI, New Delhi]

Theory

1. UNIT I: Evolution of seed testing at national and international level, Seed lot, types of samples, sampling intensity, devices and methods, Receipt and registration of submitted samples in the laboratory and sub sampling, including storage of guard samples

- 2. UNIT II: Seed structure and morphology in monocot and dicot seeds, Physical purity analysis objectives, components and procedure, Determination of other distinguishable varieties (ODV) and test weight determination
- 3. UNIT III: Application of heterogeneity tests, Determination of moisture content: Principles and procedures, Determination of test weight, Germination test: requirements, media and procedures, Seedling evaluation, Use of tolerances in seed testing
- 4. UNIT IV: Seed viability testing: principle, procedure and evaluation, Seed vigour testing: concept, types and methods, Genetic purity testing- concept, objectives and laboratory methods, Field plot tests for genetic purity testing Grow-out test (GOT), Testing of GM seeds and trait purity, load of detection (LOD
- 5. UNIT V: Seed health testing principles and methods, Testing of coated/pelleted seeds, Advances in seed quality testing
- 6. UNIT VI: Maintenance of records, registers, preparation and dispatch of seed testing reports, their interpretation and uses, Establishment and Management of a seed testing laboratory, Accreditation of a seed testing laboratory in India and ISTA accreditation

Practicals:

- 1. Seed testing equipment and handling of seed sample in STL, Seed sampling and obtaining a submitted/ working sample, Calibration of seed testing equipment and their maintenance
- 2. Physical purity analysis in monocot and dicot crop seeds, Identification of weeds seeds and crops, Determination of seed moisture content Hot air oven method and moisture meter
- **3.** Determination of seed moisture content Hot air oven method and moisture meter, Preparation of substrate/media (BP, TP and Sand) for standard germination tests and sowing of seeds under different substrata, Evaluation of seed germination under different substrates, Testing of quality/specifications of the seed germination media, Methods of breaking seed dormancy and testing of seeds
- **4.** Assessment of seed viability in monocotyledonous and dicotyledonous seeds (TZ test), Assessment of seed viability in monocotyledonous and dicotyledonous seeds (TZ test), Preparation of seed samples and estimation of seed vigour
- **5.** Genetic purity testing using chemical and biochemical methods, Genetic purity testing using chemical and biochemical methods, Genetic purity testing using molecular methods for hybrids and parental lines, Testing of coated/pelleted seeds
- **6.** Seed health testing (Standard blotter and Agar plate methods), Seed health testing Embryo count method, Analysis and reporting of seed testing results, use of tolerance tables and reason/s for variation in seed quality testing

SST 408:One-month Industrial attachment (0+2)

[Faculty: Mr Manjunath P. and Dr Vishwanath Y. from Div. of Seed Science and Technology, ICAR-IARI, New Delhi]

- Need-based attachment
- Project report submission
- IV. Post Graduate Diploma in Organic Farming

Location: IARI main campus/Other centres.

Name of the lead division: Division of Agronomy, ICAR-IARI, New Delhi 110 012

List of collaborating Divisions:1.

- Division of Entomology, ICAR-IARI, New Delhi.
- Division of Plant Pathology, ICAR-IARI, New Delhi.
- Division of Post-harvest Technology, ICAR-IARI, New Delhi.

- Division of Agricultural Economics, ICAR-IARI, New Delhi.
- ICAR-Indian Institute of Organic Farming, Sikkim or National Centre of Organic Farming (NCOF), Ghaziabad, UP

List of collaborating private sectors

- APEDA, Govt. India.
- Organic farming certification agencies.
- Padam Shree awardee Bharat Bhusan Tyagi organic farm, Bulandshahar, UP

Background:India has an inherent advantage in organic farming because of its diverse geography and climatic conditions. India has a great potential to increase its area under organic farming, particularly in rainfed/dryland/hill regions. Many such areas are organic by default and have low productivity as well. Research results have conclusively proved that these lands respond very well to organic management. Hence, more of these areas should be used for organic cultivation, particularly in light of the increase in drought frequency.

In recent years, organic farming has emerged as one of the potential agricultural enterprises in accelerating the growth of the Indian economy. Its role in the country's nutritional security, poverty alleviation, farmers' doubling income, and employment generation programmes is becoming increasingly important. It offers not only a wide range of options to the farmers for crop diversification, but also provides ample scope for sustaining the large number of agroindustries that generate huge employment opportunities. As a result of a number of thoughtful research, technological, and policy initiatives and inputs, organic farming in India, today, has become a sustainable and viable venture for the small and marginal farmers. This sector has started attracting entrepreneurs for taking up organic farming as a commercial venture.

A huge potential is also seen in the export and marketing of organic inputs and outputs (organic products). The opportunities for export are also expanding in the country. Simultaneously, the local demand for organic food is also growing. Organic products, which until now were mainly exported, are now finding consumers in the domestic market as well.

A great employment opportunity also exists in the organic sector. Unemployed people can find employment by producing and marketing the organic seed, organic manures (composts, vermicomposts), organic fertilizers, biofertilizers and organic pesticides. One can easily set up the units for production of vermicompost, biofertilizers and organic pesticides and find self-employment.

In order to prepare the youth ready to meet the requirement of organic products /service sector (accreditation & certification) and to inculcate entrepreneurship and start up among them ICAR-IARI, New Delhi offers Post-graduate Diploma programme in the area of 'Organic Farming'.

Course structure

| Course | Name of the course | Credits | Offered by | Possible course instructors |
|-------------|--------------------|---------|------------|-----------------------------|
| No. | | | | |
| | | | | |
| Semester -l | [| | | |
| PGDOF | Fundamentals of | 3+0 | Agronomy | Dr. Dibakar Mahanta |
| 201 | Organic Farming | | | Dr. Dinesh Kumar |
| | | | | Dr. Shiva Dhar |
| | | | | Dr. Y.S. Shivay |
| PGDOF | Organic Production | 3+2 | Agronomy | Dr. Raj Singh |
| 202 | Technologies / | | | Dr. Y.V. Singh |
| | Organic Crop | | | Dr. Dinesh Kumar |

| | Production Systems | | | Dr. Shiva Dhar |
|-------------|---------------------|-----|--------------|----------------------------------|
| PGDOF | Plant Health | 3+2 | Agronomy / | Dr. Raj Singh/ Dr. Ramanjit Kaur |
| 203 | Management | | Entomology | Dr. (Mrs.) Debjani Dey |
| | | | / Pathology | (Entomology) |
| | | | | Dr. Rashmi Aggarwal |
| | | | | (Pathology) |
| | | | | Dr. Harender Kumar Sharma |
| | | | | (Nematology) |
| PGDOF | Post-Harvest- | 3+2 | Post-harvest | Dr. Ram Ashreay |
| 204 | handling of Organic | | technology/ | Dr. Dinesh Kumar |
| | Produce | | Agronomy | |
| Semester -I | I | | | |
| PGDOF | Organic | 3+2 | Agronomy / | Dr. Dinesh Kumar |
| 205 | Certification, | | APEDA | Dr. Y. S Shivay |
| | Standards, and | | | |
| | Regulations | | | |
| PGDOF | Marketing | 2+1 | Economics | Dr. Alka Singh |
| 206 | | | /Agronomy | Dr. Dinesh Kumar |
| PGDOF | Project Report | 10 | Agronomy | Dr. Dinesh Kumar |
| 509 | | | · | Dr. Y. S Shivay |

Syllabus

Course No: PGDOF 201 Credit hour: (3+0) **Course title:** Fundamentals of Organic Farming

Objective: To impart knowledge on the basic concept of organic farming

Theory

Unit I. Concepts and principles of organic farming - History and evolution of organic farming in the world and India. Scenario of organic farming in India and world, global market for organic products, IFOAM's Guiding principles of organic farming, conversion to organic agriculture, advantages and limitations.

Unit II Definitions and types of organic farming - Definitions of organic farming, types of organic farming such as natural farming, zero chemical natural farming, bio dynamic farming, biological farming, compost farming, Natueco culture, integrated farming, homa farming, permaculture etc., traditional farming systems in India and evolving indigenous knowledge systems

Unit III Conventional vs. Organic farming - Philosophy of two farming systems, fundamental differences, productivity issues, management protocols, food quality, nutritional differences and impact of conventional practices on soil fertility, natural resources, environment and overall social perception. Myths and realities about organic farming in addressing nutritional security and food safety need vis-à-vis national food security.

Unit IV. Advocacy, Ethics, health and social issues in organic farming — Advocacy for organic farming with sustainability, resource conservation and food safety issues. Advocacy through overall farm productivity under diversified cropping systems. Spirituality values and ethics in organic farming. Socio economic importance of organic farming: concept measurements and issues. Need for ethical practices and values across the organic agriculture value chain including trading and reaching to consumers.

Unit V. Organic farming for sustainability, resource conservation, climate change issues and safe and healthy food — General concerns on sustainability, climate change issues threatening sustainability, potential of organic farming practices in addressing sustainability and climate change. Resource conservation through organic farming, rainwater conservation and preservation of native seeds and germplasm an essential component of organic farming,

Consumers concerns on food quality and safety, organic farming for safe and healthy food, ITKs potential and role in sustainability of modern organic farming practices

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Basic knowledge on organic farming so as to be an organic trainer, promoter and grower.

Reading materials:

- 1) Basics of Organic Farming: by Mamta Bansal. Kindle Edition 2.
- 2) The Complete book of Organic farming and products of organic compost: NPCS Board of consultants and Engineers.
- 3) ABC of Organic Farming: Amitava Rakshit and H.B. Singh. Published by Jain Brothers
- 4) Basics of Organic Farming: Deshpande, WR, 2009, All India Biodynamic and Organic Farming Association, Indore, MP, India P-306.
- 5) Eyhorn, F., Heeb M. and Weidmann, Gilles IFOAM Training Manual for Organic Agriculture in the Tropics, FiBL and IFOAM

Course No: PGDOF 202 Credit hour: (3+2)

Course title: Organic Production Technologies / Organic Crop Production Systems

Objectives: To provide knowledge on organic crop production technologies

Theory

Unit I. Fundamentals of organic farm management and conversion — Salient features of organic farm management, strategies for conversion to organic, step-by-step planning, integration of contamination control measures, planning for on-farm input production and supplementary off-farm inputs, planning for rain water harvesting and water conservation approaches including efficient irrigation systems and moisture preservation techniques, visit to organic farms and study on farmer's best practices for conversion.

Unit II. Management of diversity and cropping systems — Importance of diversity, installation of diversity through the plantation of utility trees, nitrogen-fixing tree hedges, habitat management for friendly insects and birds, and nitrogen-fixing crops as intercrops. Importance of cropping systems management with long-term planning, crop rotations, intercropping, multi-cropping, relay cropping, and multi-layered cropping.

Seeds/planting material – use of the certified seed, conventional untreated seed, use of non GMO seeds

Conversion period – annuals/biennials/perennials, reduction in conversion period, synergy between NPOP and PGS

Unit III. Nutrient management – Components of nutrient management in organic crop production, assessment of crop nutrient requirements, calculation of nutrient credits from onfarm practices and resources such as intercrops, cover crops, biomass mulching, calculating additional input requirements. Managing nutrient needs through use of organic manures viz., FYM, compost, Vermicompost, oil cakes, in-situ and ex-situ green manuring, crop residue management, use of restricted organic nutrient sources, liquid organic manures and dung urine slurries, methods of manuring and biomass application, measures to prevent accumulation of heavy metals & other pollutants and over manuring, split application of manures, foliar feeding as replacement of top dressing, ITKs and farmers innovations in nutrient management

Unit IV. Integration of microbial and mineral inputs Importance of bio fertilizers, types of biofertilizers, nutrient potential, methods of application, enriching manures/ composts with biofertilizers, identifying the need for use of supplementary mineral sources and their integration in nutrient management package.

Unit V. Weed management - Prevention of weeds through cropping systems management, crop geometry, stale seedbed technique, summer ploughing, soil solarisation, cover crops, mulching, flooding, biological weed management, selection of suitable physical and mechanical approaches and biological and plastic mulches

Unit VI. Water and Irrigation Management – Soil-water relation, theories of water availability, water use efficiency management, soil and water conservation, methods of irrigation and automation in irrigation systems, irrigation scheduling in different crops.

Unit VII. Modelling of agronomic practices and nutrient management protocols for some important agricultural and horticultural crops — Identification of compatible associate and intercrops/ companion crops, placing trap crops and insectary plants in cropping geometry, making provisions for nutrient credits from biomass mulching, intercrops and green manures, making provisions for nutrient credits from microbial enrichment with microbial/ liquid manure inputs, balance nutrient requirement modelling and identification of inputs and planning for quantity and time of application

Unit VIII. Crop growth and yield analysis - Crop growth expressions in plants, growth measurements, important growth indices and forms of growth analysis in field crops. Factors determining yield. Use of growth analysis technique to study variation in yield due to planting season, planting density, fertilizer treatment, other agronomic practices, light, temperature, water, growth substances, varietal differences. Crop response curves. Dynamics of crop growth and modelling.

Unit IX. Success stories of effective crop management with optimum yields of practicing organic farmers (one in irrigated systems and one in rainfed systems) — Field visit, documentation of farming system with inputs and outputs, identification of practices important for organic systems, nutrient management practices, pest management protocols, yields and economics. Salient features for success and for further replication in crop production modelling

Practicals

- 1) Visit to organic farms and study general nutrient management practices, documentation of farming system with inputs and outputs and crop growth analysis using crop growth analysis techniques
- 2) Getting acquainted with different tilling methods and rain water harvesting and water conservation techniques
- 3) Production of liquid manures and dung-urine slurries
- 4) Production of customized composts using FYM/ Compost, mineral nutrients and biofertilizers, assessment of nutrient profiles in enriched composts
- 5) Methods of application for biofertilizers
- 6) Weed management practices, tools and efficacy of different approaches
- 7) Modelling of agronomic practices for a given cropping system with use of available resources

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Basic knowledge on organic crop production system

Reading materials

- 1. Basics of Organic Farming: by Mamta Bansal. Kindle Edition
- 2. The Complete book of Organic farming and products of organic compost: NPCS Board of consultants and Engineers.
- 3. ABC of Organic Farming: AmitavaRakshit and H.B. Singh. Published by Jain Brothers

Course No. PGDOF 203 (3+2)

Course title: Plant Health Management

Objectives: To provide knowledge on plant health management for optimization of crop

yield due to organic farming

Theory

Unit I. Classification of pest organisms – Classification of pests viz. weeds, bacteria, nematodes, fungi, insects, viruses, vertebrates, etc., identification of pests and beneficial organisms,

Unit II. General principles of plant health management in organic farming - Principles of pest management in organic crop production; Pest surveillance and pest population estimation; concept of economic injury levels (EILs) and economic threshold levels (ETLs), principles of Agro Eco-System Analysis (AESA) based pest management, estimation of Pest: Defender (P:D) ratio, understanding AESA methodology

Unit III. Biology of pests and population dynamics - Population dynamics in relation to environment, distribution, identification; Life cycle of key pests of cereals, pulses, vegetables, stored grains, fruit crops and protected cultivation

Unit IV. Ecological strategies for pest management - Proper sanitation, appropriate fertilization, necessary pruning, timing of planting to escape infection, crop rotation, avoidance of endemic sites, space management for sunlight and air, plant quarantine, etc.

Unit V. Cultural and physical control strategies – Importance and use of traps, coloured plates, pheromones, use of insectary plants, trap crops and planning for diversity plant integration as border crops, hedge rows, intercrops etc.

Unit VI. Biological control - Conservation of natural enemies, classical biological control systems, important beneficial insects and their integration and use in different cropping systems

Unit VII. Biopesticides — Biopesticides, types, mode of action, production, methods of application and impact assessment on crops and pest load Unit VIII. Botanical pest management — Using different plants for management of different pests, methods for using such plants and active ingredient extraction methodologies, formulation of usable solutions and methodologies for application. Integrated strategies, development of crop specific integrated management modules, importance and need for chemical alternatives permitted in organic farming, methods for use and application.

Unit IX. Indigenous practices and their importance in plant protection — Indigenous practices of avoiding pests, managing pests, important plants being used since ages and innovative botanical and fermentation inputs developed by farmers for pest management

Unit X. Pest control of produce in storage — Physical, mechanical and biological approaches, modified environment, management of hygiene and phyto-sanitary approaches, use of organically acceptable fumigants such as carbon dioxide and nitrogen Use of approved off farm inputs for pest and disease management

Practicals

- 1. Collection and Identification of major/key pests and plant diseases,
- 2. Estimation of pest population, nature of damage, assessment of crop losses,
- 3. Familiarization with important crop pests & diseases and their biological control agents,
- 4. Demonstration/familiarization with various tools of insect-pest & disease management,
- 5. Mass rearing techniques of important biological control agents,
- 6. Preparation of organic/natural formulations for insect-pest & disease management,
- 7. Evaluation of organic formulations for determining their pesticidal properties and field efficacy.
- 8. Preparation and validation of traditional formulations.

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Plant health will be taken care of for optimization of higher crop yield due to organic farming

Course No: PGDOF 204 (3L+2P)

Course title: Post Harvest-handling of Organic Produce

Objectives: To provide knowledge on post-harvest handling of organic produce for

optimization of crop yield due to organic farming

Theory

Unit I .Pre/Postharvest Factors for Post-harvest Losses of Organic Produce - Pre and post-harvest factors responsible for causing organic produce losses. Principles and practices responsible for losses of organic agricultural produce. Qualitative, quantitative, nutritional and socioeconomic losses. Loss assessment and estimation techniques and their limitations and methods for reducing postharvest losses

Unit II. Introduction to Value Chain and Handling of Fresh Organic Products for Processing- Management of hygiene and phyto-sanitary measures, measures to reduce field heat, cleaning and washing, control of enzymatic and non-enzymatic changes, transportation, sorting, grading, peeling, sampling and size reduction, packaging, labelling; handling methods for fresh fruits, vegetables and flowers.

Unit III. Organic Food Processing and Preservation – Fundamental principles for food processing in organic farming, parallel processing, ingredients to be used, acceptable processing techniques, use of preservatives, processing aids, flavouring agents and nutrient supplement in organic food and feed processing, process flow and product recipe, single ingredient and multi ingredient products.

Unit IV. Food Standards and Residue Analysis/Toxicology – Fundamental principles of food standards, HACCP system, US and European Export/Import standards for different crops, MRLs for conventional food, sources of contamination, assessment and management of residues and toxins in food, critical control points, heavy metals and pesticide residue analysis, analytical methods and tools. Interpretation of residue analysis reports, analysis protocols and GMO report analysis.

Unit V. Principles of Packaging – Characteristics of packaging materials for organic food, packaging requirements for fresh and processed organic food for local and international markets, labelling requirements for fresh and processed organic food

 $Labeling \ of \ organic \ products \ (NPOP) - Organic, \ made \ with \ organic, \ ingredients \ as \ organic, \ use \ of \ India \ Organic \ logo, \ certification \ mark \ and \ approval \ of \ label$

Practicals

- 1) Study of maturity indices for harvest of organic fruits, vegetables, spices and plantation crops.
- 2) Determination of physiological loss in weight and respiration rate in fruits and vegetables.
- 3) Determination of chemical constituents like sugar, starch, pigments, vitamin C, carotenes, acidity during maturation and ripening in fruits/vegetables.
- 4) Protective skin coating with organic wax emulsion to extend the shelf life of fruits and vegetables.
- 5) Study of effect of precooling on shelf-life and quality of fresh fruits, vegetables and flowers.
- 6) Study of packages-bulk and consumer packs for different fruits, vegetables, flowers and spices.

- 7) Study of construction and working of zero energy cool chamber. Study of storage behaviour of different fruits and vegetables in zero energy cool chamber.
- 8) Preparation and preservation of fruit-based beverages and blended products from fruits and vegetables.
- 9) HACCP analysis, residue analysis in organic products. Visit to packaging centres, local markets, cooperative organisations, super markets dealing with marketing of organic perishables.

Course No: PGDOF 505 (3L+2P)

Course title: Organic Certification, Standards and Regulations

Objectives: To provide knowledge Organic Certification, Standards and Regulations

Theory

Unit I. National and international regulations on quality assurance and certification — National Programme for Organic Production (NPOP), National Standards for OrganicProduction (NSOP), USDA NOP Programme and Standards, EU Organic standards Regulation, JAS, Codex Alimentarius, Canada Organic Regulation and important differences between NPOP and international standards. FSS Act 2006 for organic food and 2017 Notification, basic requirements, enforcement, standard operating procedures and verification in value chain

Unit II. ISO systems for quality assurance (ISO 17065, ISO 17011, ISO 19011 etc.) and accreditation processes – What is ISO, salient features and functions of ISO, ISO systems for auditing, ISO 17065 for auditing and certification agencies, ISO 19011 Inspection protocols, ISO17011 Accreditation requirements, ISO 17025 Accreditation of quality analysis laboratories. Accreditation procedure and policies under NPOP, Essential requirements and competence for making an organic certification body, Conflict of interest management

Unit III. Types of certification systems (NPOP and PGS), standards and procedures

NPOP – A third party certification systems, Certification bodies operational policies and functions, National standards for crop production, livestock, Aquaculture, Processing and handling and other miscellaneous systems. Tracenet the online data management tool and traceability management **PGS** – **Participatory Guarantee Systems** – Evolution of PGS Systems, Guiding principles, PGS Standards, International scenario on PGS development Procedure for organic guarantee under PGS systems, PGS-India programme, operation of PGS-India programme, institutional structure, PGS-India Data management platform, management of traceability.

Unit IV. On-field management of standard compliance and documentation – Issues for implementation of standards on field such as conversion period, contamination control, fertility management, living condition requirement for livestock, management of integrity in processing and handling, Fundamental policy for inspections, step-by-step inspection protocols, Development of inspection formats and inspection checklists. Documentation requirements such as organic system plan, field operation register, input and cultural practices record, processing record, purchase and sales records and product flow in processing.

Unit V. Individual and grower group certification management – Basic requirements for certification management by (a) Individual producer and (b) Grower/ producer groups. Applicability and types of systems covered

Unit VI. Inspection (under NPOP) and peer review (under PGS) systems – Fundamental principles of inspection, checklists and inspection parameters, general policy frame work

NPOP – Third party inspection procedure, risk assessment, documentation and record keeping review, physical verification of facilities, fields and stables, production facilities, estimated yield/production assessment, tracking the product flow throughout the process, chain of custody. Review of inspection forms and checklists and certification decisions.

PGS-India – Peer review principles, making of peer review committees and peer review checklists, analysis of peer review checklists and certification decisions. Submission of summary sheets to Regional councils and assessment and endorsement of certification decisions.

Unit VII. Certification of crop, livestock, aquaculture and other systems – Standards, their implementation in production systems, measures for contamination control, integrity management, sanitation and hygiene, input evaluation procedures, development of process tracking checklists

Unit VIII. Certification of processing, handling, trading and management of traceability

- Standards, their implementation in production/ processing and handling systems, processing method, use of approved food additives and processing aids, pest control measures, measures for contamination control, integrity management, sanitation and hygiene, packaging and labelling, development of process tracking checklists

Unit IX. Internal control system management in large farmer group sunder NPOP – Large farmer groups, essential requirements, internal control systems, development of ICS operating manual, management of ICS, internal inspections, risk assessment, external inspection including assessment of internal inspections and certification decisions, additional documentation for groups, produce/ output management and sale record management

Unit X. PGS Group development and PGS certification management – Essential requirements for local groups, development of local group operating manuals, requirements of group meetings and trainings, decision making by farmers, operational policies for Regional Councils, developing operating manual for Regional councils, assessment of summary sheets and decisions of local groups, procedure for decision endorsement and certification granting

Practical themes

- 1) Documentation of certification procedures, acquaintance with record keeping, handling, labelling and preparation of farmers IDs for developing ICS.
- 2) Visit to certification bodies, certified farms, certified processing and handling operations
- 3) Development of organic system plan for specific production system
- 4) Development of inspection format and checklists for specific production system
- 5) Development of operating procedures on specific aspects
- 6) Risk assessment on organic farms and possible mitigating measures
- 7) Running of audit trails in certified operations
- 8) Mock inspections of different production systems
- 9) Exercise on inspection report/ peer evaluation checklist review and certification decision
- 10) Exercise on methods of yield assessment

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Educating to become a real organic grower

Course No: PGDOF 506 (2L+1P)

Course title: Marketing

Objectives: To provide knowledge on the marketing of organic produce for economic profit

of the grower

Theory

Unit I. What is marketing?—Face-to-face marketing, Facilitating functions of a market, what's special about agricultural markets? Pricing policy and Role of prices

Unit II. Basics of Supply and Demand – Demand, Aggregate demand, Supply and Aggregate supply

Unit III. Food Marketing Channel— Understanding the food marketing channel, Scenario Analysis Unit, requirement of certified operators in supply chain, verification of chain of custody, product flow and traceability, role of handler and trader, trade of packed products, domestic trade, export of organic products, requirements of importing country(ies), recognition facilitation through agreements, handling of rejections/detections/irregularities in export consignments

IV. Market intelligence—Market research, Production cost assessment, Projecting Revenues, Accounting, and Market Selection, Compliance to National Regulations, Demand for bulk and retail products, analysis of product category,

Unit V. Organic production and domestic market size, Institutional context and regulations (such as NPOP, NSOP, APGMC Act, PGS, FSSAI, Jaivik Bharat)

Unit VI. Organic Food Distribution System – Domestic market structures, and classification framework, urban organic retail models, Organic specialty stores, markets and health food stores. Direct marketing and Community Supported Agriculture

Unit VII. Market potential for organic foods – Consumer preferences and perceptions (organic sensitivity, building awareness on organic foods and consumer needs, shopping Behaviour, factors influencing purchases of new foods), general trade and organized retail,

Unit VIII. e-Marketing and e-consumer perceptions and Behaviour — Why organic food, source and perception of organic foods, uses of organic food, resistance to use organic products, source of awareness, organic food-is it a fad?, On-line retail and home delivery services, role of advertising and choice of media, understanding the role of quality in marketing, perception of health benefits and assurance/certification

Unit IX. Accessibility of organic foods, premiums and willingness to pay premiums, role of retailer

Unit X. Efficient supply chains and retail channels, sustainability of supply chain

Unit XI. Consumer purchase Behaviour and habits – Shopping Behaviour, role of influencer in decision making, concern over adulteration, chemicals, loss of nutrients and vitamins during processing and manufacturing and its impact on marketing and sale

Unit XII. Challenges and success stories – Success stories in organic marketing, organizational models, their advantages, challenges, limitations and legal context.

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Basic knowledge on marketing to get higher prices in organic produces. **Budget Requirements**

| S.No. | Item | Amount | Remarks |
|-------|--------------------------------|---------------|---|
| | | (Rs.in lakhs) | |
| 1. | Renovation of the lecture | 13 | The existing lecture hall is in bad condition |
| | hall | | and needs to be repaired |
| 2. | Creation of a new lecture hall | 40 | To accommodate more students/ trainees |
| 3. | Creation of organic | 30 | To conduct practical and hands-on learning |

| | farming lab | | |
|----|-------------|---------|--|
| 4. | Contingency | 10/year | For conducting PG diploma-related practical activities, theory/ practical classes, preparation of training manuals/e-resources |
| 5. | Travel | 5 /year | For undertaking visits, excursion tours of trainees to different places /facilities |

V. Post Graduate Diploma in Integrated Farming System

Location: IARI main campus/Other centres.

Lead Division: Division of Agronomy, ICAR-IARI, New Delhi 110 012

Collaboration

- ICAR-Indian Institute of Farming System Research, Modipuram
- National Dairy Research Institute, Karnal
- Indian Veterinary Research Institute, Bareli
- APEDA
- Division of Entomology, ICAR-IARI, New Delhi.
- Division of Plant Pathology, ICAR-IARI, New Delhi.
- Division of Horticulture, ICAR-IARI, New Delhi.
- Division of Post-Harvest Technology, ICAR-IARI, New Delhi
- Division of Agricultural Economics, ICAR-IARI, New Delhi.

Background: Agriculture has long been recognized as the backbone of the economy of the India as it supports almost 18 per cent human and 15% livestock population of the world from 2.3 per cent of geographical area and 4.0 per cent of water of the globe. Indian agriculture has achieved tremendous goal in the food grain production during last 7 decades. The food grain production has increased from 50.82 million tonnes in 1950-51 to all time highest 310 million tonnes in 2021-22, while the increase of net cultivated area was only from 97.32 million ha during 1950-51 to 140 million hectare during 2020-21. But the total food grain production during this period increased nearly six fold. Increase area under irrigation, use of high yielding varieties, industrial inputs (fertilizers, pesticides and others), mechanization, popularization of technologies and government policies played vital role not only in achieving self-sufficiency in food grains, but also country is earning precious foreign exchange from the export of food grains. But the achievements in increasing the production of food grains have been realized with the high cost of natural resources and environment and as a result, Indian agriculture is facing many challenges. Degradation of land, decrease in soil fertility, water level and factor productivity, increased resistance of various pests to many pesticides, appearance of new pests, increase in small and marginal land holdings, decrease in income and employment of farmers, and above all the harmful effects on climate change on agriculture are the important factors, which are posing a serious threat to the sustainable agricultural production in the country. Under such condition, execution of a series of reform measures is need to solve these problems of sustainable agriculture. Among others factors, the development and implementation of integrated farming systems are of special importance for a sound management of farm resources to enhance farm productivity and reduce environmental degradation, improve quality of life of resource poor farmers and maintain sustainability. Integrated farming

system is a strategy of harmonization by joint management of land, water, vegetation, livestock and natural resources. This can lead to sustainable productivity and also ensure better livelihood securities for the people.

Farming system is quite effective to provide the opportunities for generating employment and income. It can be a very good source of income for the unemployed people by producing high value crops and producing livestock, fish, duck, poultry, honey, mushroom, very-compost and biogas. To prepare the youth to meet the need of organic products/services sector (accreditation and certification) and to develop and initiate entrepreneurship ICAR-IARI, New Delhi PG Diploma in the field of 'Organic Farming' program offers.

Course structure

| Course structure | | | | | |
|------------------|-------------------------------|---------|------------------------|--|--|
| Course No. | Name of the course | Credits | Offered by | | |
| Semester –I | | | | | |
| PGDFS 301 | Concept and fundamentals of | 3+0 | Agronomy | | |
| | Farming Systems | | | | |
| PGDFS 302 | IFS components and suitable | 3+2 | Agronomy | | |
| | enterprises for efficient | | | | |
| | farming system model | | | | |
| PGDFS303 | Different farming system | 3+2 | Agronomy / Entomology | | |
| | model for different agro- | | / Pathology | | |
| | climatic zones of the country | | | | |
| PGDFS304 | Diversification through | 3+2 | Horticulture/vegetable | | |
| | different horticultural crops | | science/Agronomy/CPCT | | |
| | including fruit trees, | | | | |
| | vegetables, floriculture, | | | | |
| | protected agriculture and | | | | |
| | mushroom cultivation a. | | | | |
| Semester –II | | | | | |
| PGDFS305 | Production technologies of | 3+2 | Agronomy / NDRI/IVRI/ | | |
| | dairy, fishery, poultary, | | Fish Centre/Plant | | |
| | duckery, bee keeping, vermi- | | Pathology/Entomology | | |
| | composting and biogas | | division | | |
| PGDFS 306 | Post-harvest technologies and | 3+2 | PHET/Economics | | |
| | Marketing | | /Agronomy | | |
| PGDFS 307 | Project Report | | Agronomy | | |

Syllabus

Course No:PGDFS 301 Credit hour: (3+0)

Course title: Concept and Fundamentals of Farming systems

Objective: To impart knowledge on the basic concept and fundamentals of farming systems **Theory**

History and development of farming systems models in the world and India. Challenges of Indian agriculture, philosophy and Need of farming system approach, merits and limitations of farming systems, scenario of farming system approach in India, Definitions of farming systems, differences between conventional farming and integrated farming system approach.

Course No. PGDFS 302 credit hour (3+2)

Course title: components and enterprises of farming system

Objective: To understand about different components and enterprises of farming systems

Theory- Definitions of components and enterprises, Maintenance of different components of farming systems, identification of different enterprises and their importance in farming systems, types of farming systems such as farming systems for rainfed and irrigated ecology, farming system for hilly regions, allocation of area to different enterprises, assessment of need of food grains and other commodities for food, nutritional and economic security, dynamics of farming system models, importance of organic farming in farming systems, scope and limitations of organic farming system models.

Practical

- 8) Visit to farming systems models at farm and off farm and documentation of different components and enterprises of farming system models with area, inputs and outputs and growth analysis using growth analysis techniques.
- 9) Getting acquainted with different cultivation and management practices of different components and enterprises of farming systems.
- 10) Visit to vermi-composting and FYM management units, bio gas and mushroom Production unit and understand the process of production and management.
- 11) Visit to the microbiology division to understand the importance and uses of biofertilizers and estimation techniques of soil microflora.
- 12) Calculations of different inputs like fertilizers, pesticides, water requirement and other related inputs.
- 13) Weed management practices, tools and efficacy of different approaches
- 14) Study of agronomic practices for a given cropping system, agri-horti systems, intercropping and crop rotation with the use of available resources

Course No. PGDFS 303 credit hour (3+2)

Course title: Development of different farming systems models for different agroclimatic conditions.

Objective: To provide knowledge of development of different farming system models for different agro-climatic conditions of the country.

Theory: Study and refinement of exhausting farming system models, merit and demerits of exhausting farming system models, Selection of suitable crops for improved farming system models, Efficient cropping systems and their evaluation, assessment of energy, water and nutrient requirements for different enterprises, Recycling of farm produce, mitigation of climate change impact, analysis of soil fertility build-up and resource use efficiency, conservation of natural resources and improvement in environmental quality, Development of suitable farming system models for different production systems and ecology,

Practical

- 10) Understanding the basic fundamentals of developing different farming systems models
- 11) Assessment of allocation of the area for different enterprises of farming systems
- 12) Determination of cropping intensity and other indices
- 13) Assessment of crop residue and nutrient addition
- 14) Analysis of organic carbon and available nutrients in soil and uptake of nutrients
- 15) Analysis of energy and water budgeting
- 16) Soil moisture, soil temperature and microbial population assessment of the soil

Course No. PGDFS 304 credit hour (3+2)

Course title: Diversification through different horticultural crops including fruit trees, vegetables and flower cultivation.

Objective: To impart the knowledge about diversification through fruit, vegetable and flower crops

Theory– Importance of crop diversification and intensification, feasibility of diversification for resource conservation, higher production, and income, and employment generation,

Advocacy diversified cropping systems and food, nutritional and economic security, Adoptability and suitability of different enterprises, improved cultivation practices of different arable crops, vegetable crops, horticultural crops and flower crops.

Practical

- 1. Methods of adjusting diversified fruit, vegetable and flower crops in different cropping systems with arable crops.
- 2. Weed management practices, tools and efficacy of different approaches for managing weeds of arable crops, fruit crops, vegetables and flower crops.
- 3. Calculation of various indices like cropping intensity, yield equivalent, land equivalent ratio, harvest index,
- 4. Assessment of nutritional quality of fruits, vegetables and other crop produces
- 5. Study the effect of main crops on component crops on water, nutrient, soil fertility, carbon sequestration.
- 6. Suitability of different enterprises for efficient farming system models.
- 7. Assessment of the efficient farming system models on production, income and employment generation.

Course No. PGDFS 305 credit hour (3+2)

Course title: Production technologies of dairy, fishery, poultry, duckery, bee keeping, mushroom cultivation, vermi-composting and biogas

Objective: To provide the knowledge about the improved production technologies of dairy, fishery, poultry, duckery, bee keeping, mushroom cultivation, vermicomposting and biogas.

Theory: Importance of allied enterprises in farming systems, improved production technologies of dairy, fishery, poultry, duckery, bee keeping, vermi-composting and biogas and mushroom cultivation, Assessment of crop nutrient requirements, Organic/integrated Nutrient management in Farming system, Effect of organic nutrient management on the water and nutrient use efficiency, soil fertility and crop production, Integration of suitable enterprises for recycling of resources, Economical analysis of different enterprises.

Practical

- 9. Familiarization with important breed/species of cattle, poultry, duck, fish and honey bees
- 10. Mass rearing techniques of cattle, poultry, duck, fish and honey bees
- 11. Preparation of concentrate/feed for cattle, poultry, duck, fish and honey bees
- 12. Knowledge of insect/disease management in cattle, poultry, duck and fish
- 13. Estimation of daily water/concentrate/feed requirement of cattle, poultry, duck and fish.
- 14. Demonstration/familiarization with different techniques of milking, egg collection and fish harvesting.
- 15. Demonstration on preparation of vermin-composting, enriched FYM, and efficient use of biogas plant slurry.
- 16. Demonstration on preparation of compost, pasteurization of compost, spawning, casing, sowing of spawn, and growing techniques of spawn, harvesting, washing, packing of mushroom.
- 17. Demonstration on efficient management techniques of milk, egg, biogas plant, honey bee's box, honey, vermin-compost and harvested fish.

Course No. PGDFS 306 credit hour (3+2)

Course title: Post-harvest technologies and Marketing

Objective: To impart the knowledge of post-harvest technologies and marketing process Theory: Role of post-harvest technologies in vegetable, fruit production and mush room cultivation, Causes of post-harvest losses, Stage of harvesting and different methods for safe harvesting and grading, Different packing methods of fruits, vegetables and mushroom,

principals and methods of safe storage, transportation and marketing standards, fundamental of value addition, management and value addition of different flower items like cut flowers, garlands, bouquet, flower basket etc. preservation and methods of food processing like jam, pickles, jellies, candies, dried and dehydrated fruit and vegetables, food safety standards and marketing of different products, Demand, Aggregate demand and Supply, understanding the food marketing channel, **e-Marketing and e-consumer perceptions and Behaviour,** trade of packed products, domestic trade, export of different products, handling of rejections/detections/irregularities in export consignments.

Practical

- 1. Different method of grading of different produces
- 2. Demonstration of techniques to prolonged storage life of different produces.
- 3. Demonstration of types of packing and different packing methods to keep produce in good condition till marketing
- 4. Identification and operational techniques of different equipment and machinery used in preservation of different farming system produces
- 5. Demonstration on drying and dehydration of various farming system produces.
- 6. Preparation of ketchup, sauce, Jam, Pickles, juice, jelly, candy and other products from the milk, honey and mushroom
- 7. Determination of physiological loss in weight and respiration rate in fruits, vegetables, mushroom.
- 8. Determination of chemical constituents like sugar, starch, pigments, vitamin C, carotenes, acidity during maturation and ripening in fruits/vegetables.
- 9. Study of construction and working of zero energy cool chamber. Study of storage behaviour of different fruits and vegetables in zero energy cool chamber.
- 10. Demonstration of types of packing and different packing methods to keep produce in good condition till marketing.

Teaching methods/activities: Classroom teaching with AV aids, group discussion, assignment and class discussion

Learning outcome: Knowledge about the different aspects of farming systems including concept and fundamentals, different components and enterprises, different farming system models, production practices of different enterprises, post-harvest technologies and marketing and economics during the period.

Suggested Readings:

- 1. Ananthakrishnan TN. (Ed.) 1992. Emerging Trends in Biological Control of Phytophagous Insects. Oxford & IBH.
- 2. Balasubramanian P & Palaniappan SP 2006. Principles and Practices of Agronomy. Agrobios.
- 3. Joshi M&Parbhakarasetty TK. 2005. Sustainability through Organic Farming. Kalyani.
- 4. Lampin N. 1990. Organic Farming. Farming Press Books.
- 5. Palaniappan SP & Anandurai K. 1999. Organic Farming Theory and Practice. Scientific Publ.
- 6. Panda SC. 2004. Cropping systems and Farming Systems. Agribios.
- 7. Reddy MV. (Ed.). 1995. Soil Organisms and Litter Decomposition in the Tropics. Oxford & IBH.
- 8. Sharma AK. 2001. A Hand Book of Organic Farming. Agrobios.
- 9. Singh SP. (Ed) 1994. Technology for Production of Natural Enemies. PDBC, Bangalore.
- 10. Trivedi RN. 1993. A Text Book of Environmental Sciences. Anmol Publ.

- 11. Veeresh GK, Shivashankar K & Suiglachar MA. 1997. Organic Farming and Sustainable Agriculture. Association for Promotion of Organic Farming, Bangalore.
- 12. Venkata Rao BV. 1995. Small Farmer Focused Integrated Rural Development: Socio-economic Environment and Legal Perspective. Publ. 3. Parisaraprajna Parishtana, Bangalore.

VI. Post Graduate Diploma in Data Science and Analytics

Location: IARI main campus/Other centers.

Name of the lead division: ICAR-IASRI

Collaboration: There may be guest teachers arranged from private sector.

Background:Under National Education Policy – 2020 (NEP 2020), it is intended to provide opportunity to large number of students to undertake higher education of various types namely a certificate course, a diploma, a degree or a post graduate or a Ph.D. It has been proposed in NEP 2020 to revamp the academic program structure with an innovative system of multiple entry and exits with options to award certificate, diploma, UG degree general, or degree research, and one or two years of Master's degree. The residential requirements of UG, and PG programmes will be relaxed so that the students wishing to exit/enter may be able to do so irrespective of any time limit. Most importantly, NEP-2020 has indicated that "THE DESIGN OF AGRICULTURAL EDUCATION WILL HAVE TO BE STRENGTHENED TOWARDS DEVELOPING PROFESSIONALS" with the ability to understand and use local knowledge, traditional knowledge and emerging technologies, while being cognizant of critical issues of declining profitability and/or productivity but enhanced economic aspirations of farmers, climate change, food sufficiency etc.

Data Science is a buzzword in the tech industry and everyone seems to be talking about it. Data science is an integrated combination of knowledge of various tools, software, packages, algorithms, and statistics that can be leveraged to unearth various patterns, trends and insights which could be of great use for businesses. Data Science is revolutionizing the way businesses use their data to find actionable insights that could help a great deal in making their operations efficient and more profitable.

The field is relevant because of the exponential growth of data in recent years. As a society, we are producing large volumes of data each day. This data is the new fuel that drives businesses and industries today. Businesses and industries need professionals who are well equipped with the knowledge of handling, managing, analyzing and understanding trends in data, thus making it one of the most lucrative jobs in today's time.

In view of the above, formulation of PG Diploma, and Certificate Course in Data Science and Analytics was prepared. These courses are based on emerging technologies in the field of Statistics, Data Analytics and Data Science and are in huge demand as one of the essential skill for data scientists working in various private and public enterprises. These courses will enable candidates to be industry-ready.

| Course | Name of the course | Credits | Offered by |
|---------|--------------------------------|---------|------------|
| No. | | | |
| | | | |
| | Semester - | I | |
| | | | |
| PGDSA 1 | Basic Concepts and Exploratory | 1L + 1P | ICAR-IASRI |
| | Data Analysis | | |
| | • | | |
| PGDSA 2 | Software | 1L + 1P | ICAR-IASRI |
| | | | |
| PGDSA 3 | Database Handling and | 1L + 1P | ICAR-IASRI |
| | | | |

| | Management | | | |
|--------------|----------------------------------|---------|------------|--|
| PGDSA 4 | Estimation and Hypothesis | 2L + 1P | ICAR-IASRI | |
| | Testing | | | |
| PGDSA 5 | Optimization Techniques | 2L + 1P | ICAR-IASRI | |
| Semester -II | | | | |
| PGDSA 6 | Statistical Predictive Modelling | 2L + 1P | ICAR-IASRI | |
| PGDSA 7 | Forecasting, Segmentation and | 2L + 2P | ICAR-IASRI | |
| | Multivariate analysis | | | |
| PGDSA 8 | Machine Learning, Neural | 2L + 2P | ICAR-IASRI | |
| | Network and Deep Learning | | | |
| PGDSA 9 | Case Studies | 1P | ICAR-IASRI | |

Syllabus

PGDSA 1 Basic Concepts and Exploratory Data Analysis

Introduction to matrix algebra

- Basic Concepts of Calculus
- Concepts of statistical theory and machine learning analytics
- Introduction to random experiments and random variable
- Descriptive Statistics and Exploratory Data Analysis
- Graphs & Charts for data visualization
- Sampling theory and Methods
- Probability and Distributions

PGDSA 2 Software

- R, RStudio and Python
- Data Management in R and Python
- Statistical computations in R and Python
- Data presentation and visualization techniques

PGDSA 3 Database Handling and Management

- Database and Big Data
- MySQL
- SQL and NoSQL queries
- Handling queries in R/Python

PGDSA 4 Estimation and Hypothesis

- Formulating hypotheses in real-life scenarios
- Estimation and hypothesis Testing
- Estimation of parameters in different circumstances and their usages in analytics
- Test for means, variances, proportions, odds ratios, and relative risks
- Correlation and Regression, Scatter plot, Mean Plot, and Scatter plot smoothing

PGDSA 5 Optimization Techniques

- Gradient and search-based optimization
- Linear, quadratic, nonlinear, and mixed integer programming

• Multi-objective and multi-criteria decision-making

PGDSA 6 Statistical Predictive Modelling

Multiple linear regressions, Stepwise and Best Subset Regression, Model selection criteria (AIC, BIC, etc.), Regularized Linear Modeling and Controlled Variable Selection

- Ridge, Poisson Regression and Logistic regression
- Concepts of cross-validation usage of validation set, k-fold cross-validation, LOOCV, and bootstrapping
- Classification and Assessment of classification models using performance metrics such as precision, recall, f-measure, ROC, AUC etc.
- Classification and Regression Tree including concepts of bagging and boosting, random forests, fitting, and validating tree-based models

PGDSA 7 Forecasting, Segmentation and Multivariate analysis

Forecasting Models, exponential smoothing (Holt and winters model) and ARIMA

- Dimensionality Reduction, PCA and Factor Analysis
- Cluster analysis, hierarchical and non-hierarchical clustering techniques
- Linear and Quadratic Discriminant Analysis
- Support Vector Machines

PGDSA 8 Machine Learning, Neural Network and Deep Learning

Bayesian Methodology – Naïve Bayes classifier; Monte Carlo Markov Chain (MCMC), Bayesian regression trees

- Probabilistic Learning: Classification Using Naive Bayes
- Artificial Neural Networks, Deep Learning and Reinforcement Learning
- Lazy Learning: Classification Using Nearest Neighbors
- Association rule mining (Market Basket) analyses
- Image Analysis

Case Studies

VII. Post Graduate Diploma in Abiotic Stress Management in Field and Horticultural Crops Location: ICAR-NIASM, Baramati.

Name of the lead division: School of Water Stress Management (SWSM)
Collaboration

- School of Soil Stress Management
- School of Social Science and Policy Support
- School of Atmospheric Stress Management
- KVK, ADT, Baramati
- Agrotoursim, Maharashtra
- Pani Foundation
- Sugarcane Factory
- Grape Growers Assoication
- Pomegranate Association

Vasant Dada Sugarcane Institute

Background: The manifestation of abiotic stress in terms of yield loss in field and horticultural crops will accelerate with occurrence of extreme events predicted due to climate change. Hence, a great deal of efforts has been diverted now to translate basic information into practical solutions for management of abiotic stresses. With limited

awareness about abiotic stresses at present, the management of abiotic stresses such as drought, salinity and high temperature in crop plants is not as much systematic and scientific as expected to make the agriculture climate smart. Hence, a systematic training in this aspect is essential. At present this aspect is not covered exclusively but as a part of the existing course curriculum. Taking into the gravity of problem and need for knowledge and skills, the present diploma course is being proposed for management of abiotic stresses in field and horticultural crops.

Course structure

| cture | | T |
|---|--|---|
| Name of the course | Credits | Offered by |
| | | |
| Introduction to Abiotic stress in | 1+0 | SWSM |
| agriculture | | |
| Water stress management in field and | 2+1 | SWSM |
| horticultural crops | | |
| Temperature stress management in field | 2+1 | SWSM |
| and horticultural crops | | |
| | | |
| Phenomics and precision agriculture for | 1+2 | SWSM |
| crops responses to inputs | | |
| Post-Harvest opportunities to reduce | 1+1 | SWSM |
| water and temperature stress impact | | |
| Data Analysis Documentation and | 0+1 | SWSM |
| Effective Presentation | | |
| Assignment | 0+1 | SWSM |
| | | |
| Industrial Training | 0+1 | SWSM |
| | | |
| | agriculture Water stress management in field and horticultural crops Temperature stress management in field and horticultural crops Phenomics and precision agriculture for crops responses to inputs Post-Harvest opportunities to reduce water and temperature stress impact Data Analysis Documentation and Effective Presentation Assignment | Introduction to Abiotic stress in agriculture Water stress management in field and horticultural crops Temperature stress management in field and horticultural crops Phenomics and precision agriculture for crops responses to inputs Post-Harvest opportunities to reduce water and temperature stress impact Data Analysis Documentation and Effective Presentation Assignment O+1 |

6. Evaluation pattern and marks

able. 4 Evaluation pattern and marks

| S.NO. | Type of exam | |
|-------|-----------------|------------|
| 1. | Mid-term theory | 20% to 50% |
| 2. | Final theory | 20%-50% |
| 3. | Final Practical | 10%-30% |

| 4. | Assignment | 5-50% |
|----|------------|-------|
| 5. | Quiz | 5-30% |

Minimum attendance (%) for appearing in exam: 85%



MEMORANDUM OF AGREEMENT

Between

State Agricultural University

("SAU")

And

ICAR- Indian Agricultural Research Institute (herein after, IARI)
Pusa Campus, New Delhi – 110 012

("ICAR-IARI, New Delhi")

for facilitating Students' Training/Postgraduate Research

This Memorandum of Understanding (MoU)ismadeonthisday of the month of------in the year -------by and between the **State Agricultural University** having its headquarters at ..., [herein after called as "SAU"/First party] and the **ICAR-Indian Agricultural Research Institute (IARI),Pusa Campus, New Delhi** herein after called "IARI"/Second party, a constituent Research Institution of the Indian Council of Agricultural Research, Krishi Bhavan, New Delhi-110001.

The parties, having discussed fields of common research interests and allied activities between the two institutions have decided to enter into long term collaboration for promotion of agricultural students' training and quality postgraduate research in cutting edge areas.

WHEREAS, it has been considered expedient to agree in writing to participatejointly in the projects requiring expertise and logistics from both the parties.

This as an opportunity for the students to benefit from the knowledge and skills of qualified teachers and researchers, whose academic studies are relevant to its fields of work and practical experience required to excel in research and development. The SAU and IARI agree to:

Article 1: Scope

1.1 The First party will recognize the Second party as an Institute for conducting part of research related to the thesis requirement of the research students for **Ph.D**. The First party will recognize Scientists of the IARI as recommended by its Director in accordance with the University rules and regulations for guiding students working for the said degree.

("SAU")

And

ICAR- Indian Agricultural Research Institute (herein after, IARI) Pusa Campus, New Delhi – 110 012

("ICAR-IARI, New Delhi")

for facilitating Students' Training/Postgraduate Research

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- **1.1** The First party will recognize the Second party as an Institute for conducting part of research related to the thesis requirement of the research students for **Ph.D**. The First party will recognize Scientists of the IARI as recommended by its Director in accordance with the University rules and regulations for guiding students working for the said degree.
- **1.2** Operational details of research effort and collaboration will be made in common research programmes and/or projects restricted to specificmandated domain of the IARI.
- **1.3** Research instrumentation facility and library facilities available with the First party and the Second party will be made available to the faculty and research scholars. However, the costs of operational /services specific consumables will be borne by the user.
- **1.4** There shall be an exchange of students for academic, research and training purposes. Accommodation in the Hostel shall be arranged, wherever possible, as per extant rates. The duration of exchange visits will be determined by mutual consent between both the parties.

Article 2: Management

2.1Joint Working group will be responsible to work out operational details of cooperation between the two organizations and ensure proper and effective implementation of this MoU.

- **2.2** Second party shall decide the location and sharing quantum of research work with the consultation of PME Cell of the second party.
- **2.3** The number of student(s) at any particular time will be subjected to the availability of research facilities and scientists' time to facilitate thesis research at the both party.
- **2.4**The student's Advisory Committee along with collaborating scientist/ bench space provider will monitor the progress.

Article 3: Exchange of Information

- **3.1** The term "information" relates to exchange of ideas, scientific or technical data, results and/or methods of investigation, and other information intended to be provided, exchanged, or arising under the approved research programme of student/trainee from the either of the party.
- **3.2** Each party in student research programme shall be given the equal rights to use, disclose, publish or disseminate such information in mutually agreed terms.

Article 4: General Provisions

- **4.1** It is understood that the First party and the Second party subscribe to the principle of equal opportunity and do not discriminate on the basis of race, sex, age, caste or religion. Both the Institutions shall abide by these principles in the administration of this agreement and neither party shall impose criteria for exchange of scholars or students, which violate principles of non-discrimination.
- **4.2** Both parties understand that all financial agreements will have to be negotiated separately and will depend on the availability of funds.
- **4.3** Both parties acknowledge that exchange of students from one party to the other shall be subject to the availability of funds and shall comply with the regulations and policies of the First party and the Second party.
- **4.4** Any research publications arising will be jointly published.
- **4.5** All questions related to this MoU arising during its term will be settled by the parties by mutual agreement. Disagreements at the operating level shall be forwarded to respective higher officials for appropriate resolution failing which an arbitrator of mutual acceptance may be identified for the settlement of dispute, if any.
- **4.6** All questions not foreseen related to this MoU will be handled by the parties by mutual agreement.
- **4.7**Nothing in this MoU is intended to affect other cooperation or collaborations between the parties.

Article 5: Intellectual Property Rights

5.1 The First party will be expected to ensure protection of the Intellectual Property Rights generated or likely to be generated during the student's research work. The SAU, ...as the first applicant and the Second party shall be the joint applicants for IPRs and the students and involved scientific staff shall be included as the inventor/breeder/author. The 'ICAR Guidelines for Intellectual Property Management and Technology Transfer/Commercialization' as amended from time to time shall be the reference for exploitation of the generated intellectual property, whose management and benefits sharing shall be mutually decided in each case.

Article 6: Entry into effect, modification and termination

6.1 This MoU shall become effective on the date it is signed by the parties and shall be valid for threeyears and extendable up to five years. Both parties shall review the

status of the MoU at the end of three years to determine any modification, if necessary. This MoU may be amended by mutual written agreement and may be terminated at any time by either party upon written notification signed by the competent authority of the party initiating termination. Such notification must be given to the other party at least six months in advance from the effective date of termination.

6.2 No amendment or modification of the MoU shall be valid unless the same is made in writing by both the parties or their authorized representatives and specifically stating the same to be amendment of the MoU. The modifications/changes shall become part of the MoU and shall be effective from the date on which they are made/executed, unless otherwise agreed to.

This MoU has been executed in two originals, one of which has been retained by the First party and the other by the Second party.

IN WITNESS WHEREOF, the parties have executed this MoU and represent that they approve, accept and agree to terms contained herein.

| Signed: | Signed: |
|---------|--|
| | For and on behalf of the ICAR-Indian |
| | Agricultural Research Institute, New Delhi |
| | Name: |
| | Title:Director |
| | Address: ICAR-Indian Agricultural Research |
| | Institute New Delhi 110 012 |
| | E-mail: |
| | Telephone: |
| | Date: |
| | Witness |
| | Name: |
| | Title: |
| | Address: ICAR-Indian Agricultural Research |
| | Institute New Delhi 110 012 |
| | E-mail: |
| | Telephone: |

Mou of Irri with Indian Agricultural Research Institute (IARI), NEW DELHI

WITHIN THE PURVIEW OF EXISTING MEMORANDUM OF AGREEMENT BETWEEN INDIAN COUNCIL OF AGRICULTURAL SCIENCES (ICAR) AND INTERNATIONAL RICE RESEARCH INSTITUTE (IRRI) OF 1974

The IARI originally established in 1905 at Pusa (Bihar), was relocated to New Delhi in 1936, is an autonomous academic institution of repute engaged in imparting education, at PG level and conducts research in different branches of Agricultural Sciences. It was accorded a "Deemed-to-be University status in 1958 by UGC. The PG students are required to undertake need based and applied / basic research for their thesis work, which should be useful to solve the regional and/or national problems related with various disciplines of Agricultural Sciences. IARI is the seat of green revolution. The basmati varieties bred by IARI account for 98% area under basmati crop of the country. Similarly, more than 60 % area under wheat and more than 50 per cent area under mustard is covered by IARI bred varieties. The IARI bred basmati variety accounts for export earning to the tune of Rs 3500 crores.

As is known, way back in 1974 Director Generals M.S. Swaminathan and N.C. Brady of ICAR and IRRI, respectively, signed the Memorandum of Understanding (MOU). Under this overall MOA ICAR and IRRI have developed and have been implementing India's extensive partnership with IRRI, involving about 250 institutions all over the country and the collaboration between India and IRRI is being further expanded and strengthened from time to time.

In the process, IRRI has been working with a range of NARES institutions in India under the MoA including with:

- ICAR institutes (that includes IARI, NRRI, IIRR, CSSRI, ICAR-RCER, NIASM, and CIWA etc.)
- State Agricultural Universities
- Department of Agriculture, Cooperation and Farmers Welfare
- State Departments of Agriculture
- Department of Biotechnology
- NGO and Private Sector

The above IRRI collaboration in particular with ICAR-IARI over the period, has contributed immensely to improving rice production and productivity in India. Having delivered this, both the institutions now aim at accelerating research in frontier areas to develop resource use efficient integrated crop management technologies for sustainable agricultural production systems; serve as the center for academic excellence in the areas of post-graduate, doctorate, and human resources development in agricultural science; and provide national leadership in agricultural research, education, extension and technology assessment and transfer by developing new concepts and approaches and serving as a national reference point for quality and standards.

IRRI is <u>now</u> duly recognized as such by international agreement and also by the Government of India through a Memorandum of Agreement between IRRI and the Department of Agriculture & Farmers Welfare (then DAC&FW), Ministry of Agriculture, Cooperation & Farmers Welfare (MOA&FW), dated August 2, 2017 and through

Gazette notification F. No. D-II/451/16(7)/2017 dated October 4, 2017 in the Gazette of India to establish the IRRI South Asia Regional Centre (ISARC), Varanasi and other offices and activities in India. This is in addition to the above-mentioned existing agreement (MoA) between IRRI and the Department of Agricultural Research and Education (DARE), Indian Council of Agricultural Research (ICAR).

- 1. It is therefore imperative that recognizing their distinct and respective strengths and interests, seek to continue to collaborate in the following more expansive areas through the instrumentality of this intended Memorandum of Understanding(MoU):
 - Promote academic collaboration for agricultural research and education.
 - Jointly explore the prospects of mutually rewarding educational collaboration in the field of agriculture education, training and research.
 - Jointly evolve collaborative research projects and funding in the areas of common interest.
 - Exchange of relevant academic and scientific information, literature and methodology.
 - Exchange of scientists and students for training and research.
 - Facilitate access to research laboratories and field facilities for joint research programs.
 - Use of scientific equipment as available and required in programs of shared interests as may be mutually agreed upon.
 - Development and implementation of joint research and/or development projects subject to IPR arrangements under the ICAR MoA of 1974.
 - Capacity development of different stakeholders.

Joint Working Group

- 2. A Joint Working Group will be set up with representatives from both Parties to meet once in two years, alternately in New Delhi and Varanasi, for implementation of the execution of this MoU and suggest necessary measures for its development to name a few among others include:
 - IRRI-IARI will seek to establish mechanisms that can be rapidly implemented to address these complex issues.
 - IRRI-IARI will designate appropriate persons to manage and coordinate activities under this instrument.
 - IRRI-IARI will enter into Agreements detailing the terms and conditions governing the above-mentioned areas of collaboration and dealing with the Intellectual Property Rights of the Parties.
 - This Letter of Intent shall come into force from the date of its signature and remain in force throughout the period of ICAR-IRRI signed MoA of 1974 is in operation.
 - With this Letter of Intent, IRRI-IARI recognizes that collaboration between them
 can contribute significantly towards increasing global food security, improving
 nutritional outcomes for rice consumers and more sustainable agriculture in
 India. South Asia and Sub-Saharan Africa as we.
 - For implementation, the ICAR-IARI and IRRI may name one or more members of their staff, as needed, to work out the practical details of cooperation between the

two organizations and in general, to ensure proper and effective implementation of this MoU.

Financial Arrangements

3. In the case of the exchange of scientists and students for study visits on the basis of reciprocity, the sending Party will meet the to- and fro- travel costs, whereas the receiving side will meet the costs of boarding, lodging and internal transport. Both the Parties shall mutually decide the financials for such exchange visits of scientists and students.

In case such exchanges of scientists are part of an R&D project, the entire cost may be met by the project subject to the availability of funds and as mutually decided upon by both the Parties.

For Training and consultancy of Scientists, financial arrangements will be decided by mutual consent of both the Parties.

Publication & Intellectual Property Rights

5. Issues related to this aspect are being implemented as per various agreements under the ICAR-IRRI MoA of 1974 and successive Work Plans from time to time will be followed.

Now, therefore, the ICAR-IARI and IRRI are inspired by their common objectives to promote and accelerate the progress of international academic and research linkages, mutual support access to research, education and training in various disciplines of agricultural research as enumerated above, have decided to enter into this MoU with the intention to strengthen the collaboration forward.

IN CONFIRMATION OF ABOVE, the two Parties hereto have signed this MoU on the dates indicated below:

FOR AND ON BEHALF OF ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE

Dr. A.K. Singh

FOR AND ON BEHALF OF INTERNATIONAL RICE RESEARCH INSTITUTE

| Date: | Date: |
|-------|-------|

Designation: Director & Vice Chancellor

Place: Place:

Appendix-V

Recommendation of the Committee for Revision in guidelines of (i) Best Women Scientist Award, (ii) NABARD Researcher of the Year Award, (iii) Dr. H.K. Jain Memorial Young Scientist Award, (iv) Dr. A.B. Joshi Memorial Award and (v) Guidelines for the institution of Divisional level Gold Medal Awards to Masters /PhD students

Committee:

1. Dr. Rashmi Aggarwal, Dean and JD (Edn.): Chairperson

Members:

- 2. Dr. C. Viswanathan, JD (Res.)
- 3. Dr. Sanjay Kumar Singh, Head, Fruits and Horticulture Technology
- 4. Dr. Prameela Krishnan, Head and Professor, Agricultural Physics
- 5. Dr. Pramod Kumar, PS and Incharge, PME
- 6. Dr. Anil Dahuja, Professor, Biochemistry
- 7. Dr. K.M. Manjaiah, Associate Dean (Member-Secretary)

The Committee met on 16.06.2022 at 11.00 AM in the Board Room of Directorate and recommended the followings:

Allocation of marks (Best Women Scientist Award)

| Sl. | Existing Criteria/Revised Criteria | Marks |
|-----|--|-------|
| No. | | |
| 1 | Research achievements: | 25 |
| | (i) Products/ variety/Technology | |
| | (ii) New Concept / Methodology/ Process/ Model | |
| | developed/ Novel Omics data | |
| | (iii) Patents granted | |
| | (iv) Copyright/software/database/app | |
| 2 | Student Guidance and Teaching achievements | 15 |
| 3 | Publications | 25 |
| 5 | External funded projects handled as PI | 10 |
| 6 | Leadership role in institution building | 15 |
| 7 | Awards/Recognitions | 10 |
| | Total Marks | 100 |

Research achievements (Maximum 25 Marks):

- (i) Developer of a commercialized product or technology/Gazette Notified plant variety (CVRC/SVRC) (5 marks each); Genetic stock registered (1 Mark each); new record of pathogen/pest/microbe/bio-agent along with accession No. (2 Marks each).
- (ii) New Concept / Methodology/ Process/ Model developed/Novel omics data. All claims in this category should be supported by research publications in peer reviewed journals

- with citations ≥ 10 (excluding self-citations) (3 Marks each)
- (iii) Copyright/software/database//app developed (3 marks each)
- (iv) Patents granted with details of Patent No. (5 marks for each patent).

Developer shall be awarded 100% marks; Co-developer shall be awarded 75% marks.

Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 15 Marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): *Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.*
- (ii) M.Sc. /M.Tech/ Ph.D. Students (Full time) Guided as Chairperson (Maximum 4 marks): Give thesis titles. 1 mark for each M.Sc./M.Tech. and 2.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module (one mark each; Maximum 2 marks)
- (iv) Success of students guided in academics (in terms of their recognition for Awards) (Maximum 2 marks): *Institute level Medals, ICAR/ Institutional Awards (1 mark each).*
- (v) Organization of Training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (2.0 marks each) (Max Marks 2).

Publications (Maximum 25 marks)

- (i) For 30 most important publications in the relevant discipline of the applicant: Cumulative NAAS Score x 0.033 (Maximum 20 Marks).
- (ii) First / Corresponding author will get full marks in a publication and rest of the authors will be awarded 75% marks.
- (iii) Other publications (Maximum 5 marks): Authored Book with ISBN No. (min. 200 pages): 2 marks each; Edited book with ISBN No. (min. 200 pages): 1 mark each; Policy paper: 1 mark each; 0.5 mark each for Scientific Review paper/Book chapter/technical bulletin; Popular article/Policy Brief: 0.25 mark each.

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 1 Marks each
- (ii) Projects costing 10-30 Lakhs: 2 Marks each
- (iii) Projects costing >30 Lakhs: 3 Marks each
- (iv) Projects costing >100 Lakhs: 5 Marks each

Full Marks to PI and 50% marks to Co-PI

Leadership role in institution building (Maximum 15 marks)

- (i) Chairperson/member of International/National Level Committees (Chairperson: 2 marks each; member: 1 mark each)
- (ii) Member BoM/IMC, RAC, QRT, or equivalent (One mark each)
- (iii) Administrative positions (Head of the institution/university: 3 marks for each completed year; Dean/Joint Director/Director (Research): 2 marks for each completed year; Head of the Division: One mark for each completed year) (Max marks: 5)
- (iv) Institute level Committees (Chairperson: 1.50 marks each) (Max marks: 3)
- (v) Creation of New infrastructure/Lab/facility (above 10 Lakhs) (2 marks each)
- (vi) Symposia/Seminar/Workshop/Conference as Organizing Secretary/ Convenor (National: 1 mark each; International: 2 marks each) (Max marks: 5)

Awards/Recognitions (Maximum 10 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates of the Team Award) (2.5 marks each).
- (ii) Fellowship of the National Science Academies (5 marks each).
- (iii) Associateship/ Young Scientist awards of National Science Academies (2 marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)

(v)

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 60% marks.

Guidelines governing "NABARD Scientist of the Year Award"

Objective of the Award

To motivate the young Agricultural Scientists by recognizing their outstanding contributions in the field of Rural Credit/Development, FPOs, Agribusiness and related issues in India.

This will help in pro-poor and pro-farmer policy formulation and move towards achieving the goal of 'inclusive and sustainable development through credit.'

Allocation of marks (NABARD Scientist of the Year Award)

| Sl. | Criteria Existing/Revised | Maximum |
|-----|---|---------|
| No. | | Marks |
| 1 | Research achievements: | 20 |
| | (i) New Concept / Methodology/ Process/ Model developed | |
| | (ii) Copyright/software/database/app | |
| | (iii) Development of Climate smart villages/nutria | |
| | villages/rural infrastructure/seed village | |
| 3 | Teaching achievements | 20 |
| 4 | Research Publications | 35 |
| 5 | Other publications | 10 |
| 6 | Awards/Recognition | 05 |
| 7 | External funded projects handled as PI | 10 |
| | Total Marks | 100 |

Research achievements (Maximum 20 Marks):

- (i) New Concept / Methodology/ Process/ Model developed. (2 Marks each)
- (ii) Copyright/software/database/app (4 marks each)
- (iii) Development of Climate smart villages/nutria villages/rural infrastructure/seed village (2 marks each).

Developer shall be awarded 100% marks; Co-developer shall be awarded 75% marks. Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 20 Marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.
- (ii) M.Sc. /M.Tech/ Ph.D. Students (Full time) Guided as Chairperson (Maximum 6 marks): Give thesis titles. 2 marks for each M.Sc./M.Tech. and 4.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module (one mark each; Maximum 3 marks)
- (iv) Success of students in academics (in terms of their recognition for Awards) (Maximum 3 marks): *Institute level Medals, ICAR/ Institutional Awards, etc.* (1 mark each).
- (v) Organization of training /Summer or Winter school/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (3 marks each).

Research Publications (Maximum 35 marks)

- (i) For 20 most important research publications in the relevant discipline of the applicant: Cumulative NAAS Score x 0.35
- (ii) First / corresponding author will get full marks in a publication and rest of the authors will be awarded 75% marks.

Other Publications (Maximum 10 marks)

(i) Authored book with ISBN No. (min. 200 pages): 2 marks each; Edited Book with ISBN No. (min. 200 pages): 1 mark each; Policy Paper: 1 mark each; 0.5 mark each for scientific Review paper/Book chapter/Technical Bulletin; 0.25 Mark each for Policy Brief/Popular Article.

Awards/Recognitions (Maximum 05 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates in the Team Award) (2.5 marks each).
- (ii) Fellowship of National Science Academies (5 marks each).
- (iii) Associateship/Young Scientist awards of the National Science Academies (2 Marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 2 marks each
- (ii) Projects costing 10-30 Lakhs: 3 marks each
- (iii) Projects costing >30 Lakhs: 5 marks each

Full Marks to PI and 50% marks to Co-PI

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 60% marks.

Allocation of marks (Dr. H.K. Jain Memorial Young Scientist Award)

EXISTING/Revised

| Sl. | Criteria | Maximu |
|-----|---|--------|
| No | | m |
| • | | Marks |
| 1 | Research Achievements: | 20 |
| | (i) Products/ Variety/ Technology | |
| | (ii) New Concept / Methodology/ Process/ Model | |
| | developed/Novel Omics data generated | |
| | (iii) Patents granted | |
| | (iv) Copyright/Software/Database/ App developed | |
| 3 | Teaching Achievements | 20 |
| 4 | Research Publications | 35 |
| 5 | Other Publications | 10 |
| 6 | Awards/Recognitions | 5 |
| 7 | External funded Projects handled as PI | 10 |
| | Total Marks | 100 |

Research achievements (Maximum 20 Marks):

- (i) Developer of a commercialized product or technology/Gazette Notified plant variety (CVRC/SVRC) (5 marks each); Genetic stock registered (1 Mark each); new record of pathogen/pest/microbe/bio-agent along with accession No. (2 Marks each).
- (ii) New Concept / Methodology/ Process/ Model developed/Novel omics data. All claims in this category should be supported by research publications in peer reviewed journals with citations ≥ 10 (excluding self-citations) (3 marks each)
- (iii) Copyright/Software/Database//App developed (3 marks each)
- (iv) Patents granted with details of Patent No. (5 marks each).

Developer shall be awarded 100% marks; Co-developer shall be awarded 75% marks.

Documentary evidence should be enclosed for all claims.

Teaching achievements (Maximum 20 marks):

- (i) Courses taught and number of classes taken in each course (Maximum 5 marks): Full marks, if taken at least 30 classes in a year, for a minimum of 5 years.
- (ii) M.Sc. /M.Tech./ Ph.D. Students (Full time) Guided as Chairperson (Maximum 6 marks): Give thesis titles. 2 marks for each M.Sc./M.Tech. and 4.0 marks for each Ph.D. student guided as Chairperson.
- (iii) Development of e-course/training module (one mark each; Maximum 3 marks)
- (iv) Success of students in Academics (in terms of their recognition for Awards) (Maximum 3 marks): Institute level medals, ICAR/ Institutional Awards, etc. (1 mark each).
- (v) Organization of Training /Summer or Winter School/ CAFT for a duration of minimum 10 days as Course Coordinator/Course Director (3 marks each).

Research Publications (Maximum 35 marks)

(i) For 20 most important publications in the relevant discipline of the applicant:

Cumulative NAAS Score x 0.175

(ii) First / corresponding author will get full marks in a publication and rest of the authors will be given 75% marks.

Other publications (Maximum 10 marks)

(i) Authored book(s) with ISBN No. (min. 200 pages): 2 marks each; Edited book with ISBN No. (min. 200 pages): 1 mark each; Policy Paper: 1 mark each; 0.5 mark each for scientific Review/Book chapter/Technical Bulletin: 0.5 mark each; Popular Article/Policy Brief: 0.25 mark each

Awards/Recognitions (Maximum 5 marks)

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (full marks to Individual; 50% marks to the Associates of the Team Award) (2.5 marks each).
- (ii) Fellowship of the National Science Academies (5 marks each).
- (iii) Associateship/Young Scientist awards of the National Science Academies (2 Marks each)
- (iv) Post-Doctoral fellowship for a period of minimum 6 months (2 marks each)

Externally funded projects including consultancy/contract research handled as PI (Maximum 10 marks)

- (i) Projects costing <10 Lakhs: 1 marks each
- (ii) Projects costing 10-30 Lakhs: 2 marks each
- (iii) Projects costing >30 Lakhs: 3 marks each

Full Marks to PI and 50% marks to Co-PI

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 60% marks.

Guidelines governing "Dr. A.B. Joshi Memorial Award" for outstanding research contribution in the field of Agricultural Research and Education

1. Name of the Award

The name of the award shall be "Dr. A.B. Joshi Memorial Award", which is instituted in the field of Agricultural Research and Education to commemorate the memory of late Dr. A.B. Joshi, the first Indian Dean of IARI, Director and DDG (Crop Sciences), ICAR, New Delhi.

2. Nature of the Award

The Award will carry a sum of Rs.1,00,000 (Rupees one lakh only) in cash, a Medal and a Citation.

3. Source of Funds

Rs. 20,00,000/- Revenue receipt Head of IARI for the year 2011-12 (code No.501/114199)

4. Objective of the Award

The award shall be made for either fundamental or applied research including invention, discoveries, development of technologies, and leading to results of practical value and social impact in India and outstanding contributions to Agricultural Education.

5. Periodicity of the Award

The periodicity of the award shall be biennium, commencing from the year 2011-2012.

6. Eligibility for the Award

The award shall be given to Indian Nationals for their outstanding contributions in the field of Agricultural Research and Education. The award shall be made for notable and original research (both fundamental and applied) leading to results of practical value and social impact in India, and significant contributions to advancement of agricultural education.

The original contributions should be evident in the form of publications, monographs, patents, varieties and technologies developed and popularized, educational achievements, leadership in promotion of agricultural education, dissemination and adoption of technologies by the stakeholders.

The nominee should be more than 55 years of age with a standing of 25 years of outstanding contributions both in the field of Agricultural Research and Education. The period of assessment shall be life time up to the year of application/nomination.

7. Search cum Selection Committee

There will be a Search cum Selection Committee consisting of at least 5 (five) members. The Chairperson of the Academic Council will nominate the Chairperson of the Committee and its members. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Search cum Selection Committee for finalizing the recommendation shall be at least 4 members including Chairperson & Member-Secretary.

8. Criteria for Nomination/Selection

Essential/desirable criteria

- (i) PG Teaching Experience (essential 25 years)
- (ii) Students' guidance (essential 10 PhD students)
- (iii) RMP position (desirable 10 years)

Evaluation criteria

- (i) Significant contributions in advancement and promotion of agricultural education
- (ii) Overall contributions in the field of Agricultural Research (both fundamental and applied) leading to results of practical value and social impact in India
- (iii) National and International Recognitions

POST GRADUATE SCHOOL

INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

No. PGS-I/1-402/AC/2016

January 6, 2017

ENDORSEMENT

A copy of the proceedings of the 402nd meeting of the Academic Council held on 30th November, 2016 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

- 1. All the members of the Academic Council and concerned Officers (By name)_____
- 2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
- 3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
- 4. Associate Dean, P G School
- 5. Master of Halls of Residences, P.G. School Hostel Office
- 6. Sr. Admn. Officer, IMC (35 copies for members of Board of Management)
- 7. Staff Officer, Director's Personal Section, IARI.
- 8. PS to Dean & Joint Director (Edn.), IARI./PS to Registrar/PS to Comptroller
- 9. Assistant Administrative Officer, Post Graduate School-II
- 10. Shri A. K. Tyagi, Chief Technical Officer, P.G. School
- 11. Dr. S.K. Tyagi, Chief Technical Officer, P G School
- 12. Concerned Dealing Assistants, PGS-I

(Shashi Prabha Razdan) REGISTRAR

PROCEEDINGS OF THE 402nd MEETING OF THE ACADEMIC COUNCIL HELD ON NOVEMBER 30, 2016 AT 10.30 AM IN THE CONFERENCE HALL OF Prof. M.S. SWAMINATHANLIBRARY, IARI, NEW DELHI - 110012

The following members were present:

| 1. Dr.(Ms.) Ravinder Kaur, Director (Acting), IARI Chair | person |
|--|----------|
| 2. Dr. R.K. Jain, Dean & Joint Director (Edn.) Vice- | Chairman |
| 3. Dr. V.L. Chopra, Former Member, Planning Commission | Member |
| 4. Dr. Ajit Varma, Director General, Amity Institute of Microbial Technology | Member |
| 5. Dr.C. Ramasamy, Former Vice Chancellor, TNAU | Member |
| 6. Dr. J. S. Samra, Former CEO, National Rainfed Area Authority | Member |
| 7. Dr. K.V. Prabhu, Joint Director (Research) | Member |
| 8. Dr. T.R. Sharma, Project Director, NRCPB | Member |
| 9. Dr. P.K. Mishra, Director, IISWC, Dehradun | Member |
| 10. Dr.Kuldeep Singh, Director, NBPGR | Member |
| 11. Dr. V. Mahajan, Director (Acting), (IIMR) | Member |
| 12. Dr. K.M. Manjaiah, Associate Dean, PG School | Member |
| 13. Dr.(Ms.) Irani Mukherjee, Professor, Agricultural Chemicals | Member |
| 14. Dr.(Ms.) Alka Singh, Professor, Agricultural Economics | Member |
| 15. Dr. D.K. Singh, Professor, Agricultural Engineering | Member |
| 16. Dr. R.N. Padaria, Professor, Agricultural Extension | Member |
| 17. Dr.V.K. Sehgal, Professor, Agricultural Physics | Member |
| 18. Dr.(Mrs.) Seema Jaggi, Professor, Agril. Statistics | Member |
| 19. Dr. Y.S. Shivay, Professor, Agronomy | Member |
| 20. Dr. (Ms.) ArunaTyagi, Professor, Biochemistry | Member |
| 21. Dr. A.R. Rao, Professor, Bioinformatics | Member |
| 22. Dr. Sudeep Marwaha, Professor, Computer Application | Member |
| 23. Dr. Subhash Chander, Professor, Entomology | Member |
| 24. Dr. K.P. Singh, Professor, Floriculture and Landscape Architecture | Member |
| 25. Dr. O.P. Awasthi, Professor, Fruits and Hort. Tech. | Member |
| 26. Dr. Vinod, Professor, Genetics | Member |
| 27. Dr. Sunil Pabbi, Professor, Microbiology | Member |
| 28. Dr. R.C. Bhattacharya, Professor, MBB | Member |
| 29. Dr. Anil Sirohi, Professor, Nematology and MOHR, PG Hostels | Member |
| 30. Dr.(Ms.) Rekha Chaudhury, Professor, PGR | Member |
| 31. Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| 32. Dr. V. P. Singh, Professor, Plant Physiology | Member |
| 33. Dr. S.K. Jha, Professor, Post Harvest Technology | Member |
| 34. Dr. S.K. Jain, Professor, Seed Science & Technology | Member |
| 35. Dr. R. D. Singh, Professor, SS&AC | Member |
| 36. Dr. T.K. Behera, Professor, Vegetable Crops | Member |
| 37. Mr.Sanchal Bilgrami, Comptroller | Member |
| 38. Dr. B.S. Tomar, Head, Vegetable Science | Member |
| and Faculty Representative to the Academic Council | |
| 39. Mr. Bhoopesh Punera, President, PGSSU | Member |
| 40. Ms. Anu Kumari, Students' Representative to the A.C. | Member |
| 41. Ms.Shashi Prabha Razdan, Registrar | Member |

Leave of absence was sought and granted to the following members:

- 1. Dr. N.S. Rathore, Deputy Director General (Edn.)
- 2. Dr. J.P. Sharma, Joint Director (Extension), IARI
- 3. Dr. U.C. Sud, Director, IASRI
- 4. Dr. K.K. Singh, Director, CIAE, Bhopal

- 5. Dr. M.R. Dinesh, Director, IIHR
- 6. Dr. S.D. Singh, Head and Professor, Environmental Sciences
- 7. Dr. Man Singh, Professor, Water Science & Technology
- 8. Dr. Bhupinder Singh, Principal Scientist, CESCRA and Faculty Representative to the Academic Council
- 9. Ms. Usha Khemchandani, Head, Library Services

Dr. C. Viswanathan, Chairman, Examination Committee participated in the meeting as Special invitee.

Dr. R.K.Jain, Dean and Joint Director (Edn.) extended a formal welcome to the Chairperson, Academic Council for attending the meeting. Thereafter, Dr. (Ms.) Ravinder Kaur Director and the Chairperson of Academic Council warmly welcomed the outside members in the Academic Council and all the members present in the meeting. She also welcomed the following new members of the Academic Council who were attending the meeting for the first time:

New members

- 1. Dr. Kuldeep Singh, Director, NBPGR, New Delhi
- 2. Dr. V.K. Sehgal, Professor, Agricultural Physics
- 3. Dr. Sudeep Marwaha, Professor, Computer Application
- 4. Dr. A.R. Rao, Professor, Bioinformatics
- 5. Dr. O.P. Awasthi, Professor, Fruits and Horticultural Technology
- 6. Mr. Bhupesh Punera, President PGSSU
- 7. Ms. Anu Kumari, Students' Representative to the Academic Council

Outgoing members

The Chairperson also placed on record the valuable contributions of the following outgoing member of the Academic Council in strengthening the PG education at IARI.

- 1. Dr. S.C. Dubey, Former Director (Acting), NBPGR, New Delhi
- 2. Dr. S.K. Singh, Head and Former Professor, Fruits and Horticultural Technology
- 3. Dr.(Ms.) Pramila Agarwal, Former Professor, Agricultural Physics
- 4. Dr. H. Pathak, Former Professor, Environmental Sciences
- 5. Dr. Anil Rai, Former Professor, Bioinformatics
- 6. Mr. Bikram Jyoti, Former President, PGSSU
- 7. Mr. Abhijit Sarkar, Former Student Representative to the Academic Council

Thereafter, the following agenda items were taken up for consideration:

Agenda Item No. 402.1: Confirmation of the proceedings of the 401st meeting of the Academic Council held on 8.7.2016

The Chairperson called for the comments, if any, from the members of the Academic Council on the proceedings of the 401st meeting. The Academic Council was apprised about the comment of one of the Faculty Representatives to the Academic Council on reconsideration of decision taken in its previous meeting on enhancement of tenure of Professors from 3 to 5 year to which could not be acceded to. Since no other comment was there, the proceedings of the previous meeting were confirmed.

Agenda Item No. 402.2: Report on action taken on the proceedings of the 401st meeting of the Academic Council held on 8.7.2016

Action taken report (ATR) was presented by the Dean & Joint Director(Edn.).

Agenda Item No. 402.3:

Consideration of the proceedings of the Standing Committee on Scholarships, Financial Assistance & Academic Progress made in its meeting held on 7.10.2016

The Academic Council approved the following recommendations made by the Standing Committee on Scholarships, Financial Assistance and Academic Progress:

- 402.3.1 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to 132 candidates (Appendix-I).
- 402.3.2 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to the following 15 students admitted under IARI PG outreach programme at IIHR, Bengaluru.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|---------------------|------------|--|-------------------|
| 1. | Ms. SHIVANI SINGH | 10810 | FLORICULTURE & LANDSCAPE ARCH. | 29-07-2016 |
| 2. | ELANGAIVENDHAN A | 10811 | at . | 29-07-2016 |
| 3. | S. VIJAYAKUMAR | 10813 | и | 29-07-2016 |
| 4. | SIDDHAROOD MARAGAL | 10899 | VEGETABLE SCIENCE | 29-07-2016 |
| 5. | Ms. B VANLALNEIHI | 10900 | g | 29-07-2016 |
| 6. | SAHEB PAL | 10901 | c c | 29-07-2016 |
| 7. | Ms. NEHA YADAV | 10905 | ti ti | 29-07-2016 |
| 8. | Ms. MANPREET KOUR | 10906 | 6 | 29-07-2016 |
| 9. | MANOJ KUMAR | 10907 | 11 | 29-07-2016 |
| 10. | KOLA MUTHAIAH | 10909 | в | 29-07-2016 |
| 11, | Ms.BABITA CHOUDHURY | 10910 | u | 29-07-2016 |
| 12. | ARINDAM DAS | 10911 | и . | 29-07-2016 |
| 13. | KALU RAM | 10816 | FRUITS AND HORTICULTURAL TECHNOLOGY | 29-07-2016 |
| 14. | Ms. SAJANA S | 10817 | tt . | 29-07-2016 |
| 15. | Ms. SUJAYASREE.O.J | 10877 | POST HARVEST TECHNOLOGY | 29-07-2016 |

402.3.3 Award of Institute Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant to the following 9 students admitted under IARI PG outreach programme at CIAE, Bhopal.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL |
|-------|--------------------------|---------|--------------------------------|---------------------|
| 1 . | PUNEET KUMAR | 10738 | AGRICULTURAL ENGINERRING (APS) | 29-07-2016 |
| 2 | Ms. ALKA MISHRA | 10739 | | 29-07-2016 |
| 3 | MAHANTI NAVEEN KUMAR | 10740 | a | 29-07-2016 |
| 4 | PERUGU BALACHANDRA YADAV | 10741 | | 29-07-2016 |
| 5 | NICKHIL C | 10742 | | 29-07-2016 |
| 6 | Ms. CHANGCHUK LAMO | 10743 | H H | 29-07-2015 |
| 7 | HITESH BIJARNIYA | 10746 | AGRICULTURAL ENGINERRING(FPE) | 29-07-2016 |
| 8 | MANISH KUMAR | 10747 | | 29-07-2016 |
| 9 | JADHAV MAHESH LAXMAN | 10748 | u | 29-07-2016 |

402.3.4 Award of Institute Sr. Scholarship @ Rs. 3,000/- per month + Rs. 10,000/- per annum as contingent grant to the following 2 students who were admitted under Faculty Up-gradation Scheme.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|---------------------------------|---------|-----------------------------|----------------|
| 1 | Ms. BHUVANESWARI | 10827 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| | ICAR RC NEH REGION, UMIAM | | | |
| 3 | NILENDRA NARAYAN SINGH DALAPATI | 10867 | PLANT PATHOLOGY | 29-07-2016 |
| | OUAT, BHUBANESWAR | | 1 | |

402.3.5 Award of Contingent grant only @ Rs.10,000/- per annum to the following student who was admitted under ICAR In Service Scheme.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|---------------------|---------|------------|-------------------|
| 1 | VIKAS | 10849 | NEMATOLOGY | 29-07-2016 |

402.3.6 Following fourteen students who were admitted in the discipline of Agricultural Statistics and Computer Application will get their Sr. Scholarship @ Rs.13,125/- per month + Rs.10,000/- per annum as contingent grant from IASRI.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. |
|-------|--------------------------|---------|-------------------------|----------------|
| 1 . | Ms. PRIYANKA ANJOY | 10762 | AGRICULTURAL STATISTICS | 29-07-2016 |
| 2 | GOPAL SAHA | 10763 | а | 29-07-2016 |
| 3 | KULDEEP ASWAL | 10764 | u u | 29-07-2016 |
| 4 | AMIT SAHA | 10765 | t t | 29-07-2016 |
| 5 | SUBHRAJIT SATPATHY | 10766 | и | 29-07-2016 |
| 6 | NOBIN CHANDRA PAUL | 10767 | И | 29-07-2016 |
| 7 | Ms. SOUMYA SHARMA | 10778 | BIOINFORMATICS | 29-07-2016 |
| 8 | NALINI KANTA CHOUDHURY | 10779 | н | 29-07-2016 |
| 9 | BULBUL AHMED | 10780 | 65 | 29-07-2016 |
| 10 | ANUBHAV ROY | 10781 | H | 29-07-2016 |
| 11 | SANDEEP KUMAR VERMA | 10782 | a | 29-07-2016 |
| 12 | MD ASHRAFUL HAQUE | 10783 | COMPUTER APPLICATION | 29-07-2016 |
| 13 | Ms. SHBANA BEGAM | 10784 | a | 29-07-2016 |
| 14 | Ms. SONICA PRIYADARSHINI | 10785 | d | 29-07-2016 |

402.3.7 The award of Institute Sr. Scholarship to the following four in-service students was not recommended as they have already availed the benefit of Scholarship during their last admission at IARI and left the course incomplete. Further, the necessary recovery on account of Surety Bond etc. as per rule may also be made from these students, if still due. Further to avoid second time award of fellowship, a suitable undertaking to the effect that the students has not availed the benefit of Scholarship earlier from or through IARI/ICAR, may be obtained.

| S.NO. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL. | Scheme |
|-------|---------------------------|---------|--|-------------------|-----------------|
| 1 | Ms. NITHYASHREE M.L. | 10737 | AGRICULTURAL ECONOMICS | 29-07-2016 | ICAR In-service |
| 2 | Ms. RAJNA S. | 10792 | ENTOMOLOGY | 29-07-2016 | ICAR in-service |
| 3 | TRIBHUWAN KISHOR UTTAMRAO | 10841 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 | Open |
| 4 | Ms. SHEPHALIKA AMRAPALI | 10854 | PLANT GENETIC RESOURCES | 29-07-2016 | ICAR In-service |

402.3.8 Award of Institute Jr. Scholarship @ 7,560/- per month + Rs. 6,000/- per annum as contingent grant to the following 30 students who were not awarded ICAR-JRF(including five students admitted for IARI, Assam and 2 students for IARI, Jharkhand).

| S. No. | NAME OF THE STUDENT | ROLL NO | DISCIPLINE | DATE OF ENROL |
|--------|--------------------------------|---------|---|------------------|
| 1 | ARKA DEB MUKHOPADHYAY | 20756 | AGRICULTURAL CHEMICALS | 29/7/2016 |
| 2 | DEBDAS CHAND | 20757 | · a | 29/7/2016 |
| 3 | AJITH. M | 20758 | a | 29/7/2016 |
| 4 | Ms. SUTANWA SAHA | 20759 | н | 29/7/2016 |
| 5 | Ms. ASHA K. R. | 20767 | AGRICULTURAL ENGINEERING | 29/7/2016 |
| 6 | SUJAN ADAK | 20778 | AGRICULTURAL PHYSICS | 29/7/2016 |
| 7 | MOHAMMED SHAFEEQ P. M. | 20779 | n | 29/7/2016 |
| 8 | DEBASISH ROY | 20780 | п | 29/7/2016 |
| 9 | PARTHA PRATIM MAITY | 20815 | ENVIRONMENTAL SCIENCES | 29/7/2016 |
| 10 | Ms. MEENU MEENA | 20817 | | 29/7/2016 |
| 11 | PRAKASH KUMAR | 20818 | 6 | 29/7/2016 |
| 12 | SUNIL NINGOMBAM | 20842 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29/7/2016 |
| 13 | VINAY K. Y. | 20847 | NEMATOLOGY | 29/7/2016 |
| 14 | PUNEETH G. M. | 20849 | PLANT GENETIC RESOURCES | 29/7/2016 |
| 15 | P. PRABHU | 20850 | 6 | 29/7/2016 |
| 16 | NAVAL KISHOR MEENA | 20851 | " | 29/7/2016 |
| 1.7 | DIPANKAR BARMAN | 20864 | PLANT PHYSIOLOGY | 30/7/2016 |
| 18 | SUNIL KUMAR B. L. | 20872 | SEED SCIENCE AND TECHNOLOGY | 29/7/2016 |
| 19 | DILSHAD AHMAD | 20873 | a | 29/7/2016 |
| 20 | ASHOK IRAPPA HALLI | 20885 | WATERSCIENCE AND TECHNOLOGY | 29/7/2016 |
| 21 | CHANDRA PRAKASH | 20888 | ENVIRONMENTAL SCIENCES | 20/8/2016 |
| 22 | PATOLE PRATHAMESH PRABHAKAR | 20891 | NEMATOLOGY | 29/8/2016 |
| 23 | MADANKUMAR K.P. | 20892 | AGRICULTURAL ECONOMICS | 1/9/2016 |
| 24 | Ms. RAKHI SALAM | 50015 | GENETICS AND PLANT BREEDING(IARI ASSAM) | 29/7/2016 |
| 25 | PADAM SINGH YADAV | 50018 | VEGETABLE SCIENCES (IARI ASSAM) | 29/7/2016 |
| 26 | HARISHA S. M. | 50019 | d | 29/7/2016 |
| 27 | KADALI VIJAY | 50020 | WATER SCIENCE AND TECHNOLOGY (IARI ASSAM) | 29/7/2016 |
| 28 | RAGHAV MAURYA | 50021 | 10 | 29/7/2016 |
| 30 | RAMESHWAR MEENA | 60018 | VEGETABLE SCIENCE (IARI JHARKHAND) | 29/7/2016 |
| | MANJUNATH DALI | 60019 | WATERSCIENCE AND TECHNOLOGY (IARI JHARKHAND) | 29/7/2016 |

402.3.9 Award of Jr. Scholarship @ 7,560/- per month + Rs. 6,000/- per annum as contingent grant from IASRI to the following Twelve M.Sc. students admitted in the disciplines of Agricultural Statistics, Bioinformatics and Computer Application disciplines.

| S,No | NAMES OF THE PERSONS | ROLLNO | DISCIPLINE | DATE OF |
|------|------------------------|--------|-------------------------|------------|
| 1. | KAPIL CHOWDHARY | 20785 | AGRICULTURAL STATISTICS | 29/07/2016 |
| | ROHIT KUNDU | 20786 | | 29/07/2016 |
| 3. | Ms. SAYANTANI KARMAKAR | .20787 | (I | 29/07/2016 |

| 44 | AND CALLED AND CALL | (60), (60) | | |
|-----|-------------------------------|------------|----------------------|------------|
| 4. | DIPRO SINHA | 20887 | BIOINFORMATICS | 19/08/2016 |
| 5. | MOHAN BABU H. S. | 20800 | nt | 29/07/2016 |
| 6. | SUBIN U. | 20801 | ů | 29/07/2016 |
| 7. | THUMMALA NIKHIL | 20890 | d | 27/08/2016 |
| 8. | Ms. LAKSHMI SONKUSALE | 20807 | COMPUTER APPLICATION | 29/07/2016 |
| 9. | AMIT DAS | 20803 | K | 29/07/2016 |
| 10. | VIVEK KUMAR | 20804 | 11 | 29/07/2016 |
| 11. | LOVKUSH PATEL | 20806 | tl | 29/07/2016 |
| 12. | VAIJANATH SHIVALINGAPPA KUMAS | 20805 | a | 29/07/2016 |

Agenda Item No. 402.4: Consideration of the proceedings of the meeting of the Standing Committee on Courses Curricula and Academic Affairs held on 5.10.2016

The Academic Council approved the following recommendations made by the Standing Committee on Courses Curricula and Academic Affairs:

- **402.4.1:** On the issue of consideration of the Choice Based Credit System (CBCS) and Letter Based Grading System, the Academic Council decided that the matter may be referred to the Coordination Committee of ICAR-Deemed Universities in ICAR so that the uniform system may be developed for all the four Deemed Universities.
- **402.4.2** The Academic Council approved the discontinuation of Split Ph.D. Programme which shall be applicable on students admitted from 2017-18 academic session onwards.
- **402.4.3.** On the issue of revision in course curricula and syllabi, the Academic Council was of the view that the Course Curriculla and Syllabi may be presented School-wise before the expert committee.

Agenda Item No. 402.5: Consideration of the proceedings of the meeting of the Standing Committee on Faculty & Discipline held on 17.10.2016 and 19.11.2016

The Academic Council approved the following recommendations made by the Standing Committee on Faculty and Discipline:

402.5.1 **Recognition** of the following eight faculty members as Research guides for M.Sc. guidance in their respective disciplines as they met the prescribed teaching and research paper requirement for becoming the research guides.

| S. No. | Name & Designation | Name of the Discipline |
|--------|---|---|
| 1. | Dr. Shailendra Kumar Jha, Scientist(SS) | Genetics |
| 2. | Dr. Niharika Mallick, Scientist | Genetics |
| 3. | Dr. Dhruba Jyoti Sarkar, Scientist | Agricultural Chemicals |
| 4. | Dr. Sapna Panwar, Scientist | Floriculture and Landscape Architecture |
| 5. | Dr. S.S. Rathore, Principal Scientist | Agronomy |
| 6. | Dr. Bishal Gurung, Scientist | AgriculturalStatistics |

| 7. | Dr. Rajendra Singh, Senior Scientist | Water Science and Technology |
|----|--------------------------------------|---------------------------------|
| 8. | Dr. Shashi Bhushan Lal, Scientist | Computer Application |

405.5.2 Non-recognition of the candidature of the following two faculty members as Research Guides for M.Sc. guidance as they do not meet the prescribed teaching/research paper requirement for becoming the research guides.

| S. No. | Name and Designation | Name of the Discipline | Reason for declining |
|-----------|---------------------------------------|------------------------------|---------------------------------------|
| 1. | Dr. Neeta Dwivedi Senior Scientist | Water Science and Technology | Short of one year teaching experience |
| 2. | Dr. Mukesh Kumar Senior Scientist | Computer Application | Short of one Research Publication |

402.5.3 Approval of revision of existing guidelines for becoming a Faculty Member. The revised guidelines to be implemented with immediate effect are given below:

a. Scientist holding Ph.D. degree:

- i) One year post Ph.D. research/teaching/extension experience in the relevant field of specialization as Scientist.
- ii) Should have published at least 3 research papers in professional journals with a minimum NAAS score of 5.

b) Scientist holding M.Sc./M.Tech.degree:

- i) Three years post M.Sc./M.Tech.research/teaching/extension experience in the relevant field of specialization as Scientist.
- ii) Should have published at least 3 research papers in professional journals with a minimum NAAS score of 5.
- 402.5.4 The Academic Council approved the following guidelines for engagement of Adjunct Faculty at IARI:

1. **REQUIREMENT:**

The Adjunct faculty shall be engaged from the active, eminent academician/scientist/engineer/manager having recognition at national and international levels with outstanding publications and rich experience in teaching and/or research organizations.

2. PROCEDURE FOR NOMINATION OF ADJUNCT FACULTY

- a) The Professor and Head of the Division of the concerned disciplines shall identify specific teaching / research needs of the discipline.
- b) The proposals along with the recommendations of Board of Study (BOS) of concerned discipline should be forwarded to PG School for examination by the Standing Committee on Faculty and Discipline for further consideration of the Academic Council.

3. COSTs AND HONORARIUM

- a) An honorarium of Rs. 2000/- per lecture, subject to the maximum of Rs. 30,000/- per year.
- b) The Institute may provide travel charges as per rules of GoI and accommodation at IARI guest house. In case of long distance travels, the number of visits may be kept as minimum by suitably arranging the lectures.
- c) The Adjunct Faculty shall have privileges with regard to access to library services and digital learning resources.

4. OTHER TERMS AND CONDITIONS

- a) The Adjunct Faculty shall be nominated for a period of maximum 2 years only.
- b) The Adjunct Faculty shall deliver at least 10 lectures per year in the relevant discipline on issues of topical interest, which shall be coordinated by the Professor of the concerned discipline.
- c) Number of Adjunct Faculties in a discipline shall not exceed two in a given point of time.
- d) At the end of two years, nomination shall be submitted by the concerned Professor along with the 'performance report' of the Adjunct Faculty for extending the term of Adjunct Faculty. Maximum of two terms of 2 years each shall be permitted.

402.5.5 The Academic Council approved the following guidelines and assessment criteria for assigning the charge of Professor:

Guidelines for the Charge of Professor

In each discipline one of the Principal Scientists will be nominated as Professor to supervise teaching and HRD activities of the discipline, as per the following criteria:

- i) The Principal Scientist should be a faculty member of the PG School and should have at least 10 years teaching experience (i.e., should have taught at least 18 lectures, per year, at least for 5 years) in the relevant discipline.
- ii) He/she should have the experience of guiding at least four M.Sc./M.Tech./Ph.D. in his/her relevant discipline subject to the condition that he/she must have the experience of guiding one Ph.D. student.
- iii) The Principal Scientist should have published at least **seven** research papers during the last 10 years of service in reputed journals with NAAS score of 6 and above. Of the seven research papers, at least **three** papers should be from his/her M.Sc./M.Tech/Ph.D. students' thesis.

Assessment criteria for the charge of Professor:

(Achievements in teaching, research, extension, institution building etc.: 80% & Interview: 20%)

| S.No. | Activities | Marks |
|---------------|---|-------|
| I | Teaching | 30 |
| | a. 0.5 marks per additional year (above 10 years) (Maximum 6 | |
| | marks) | Ī |
| | b. 1 mark for 10 classes taken in additional years (above 10 | |
| | years) (Maximum 6 marks) | |
| | c. 0.5 marks for each courses taught as Course leader | |
| | (Maximum 6 marks) | |
| | d. 1 mark for each new initiative taken (This includes the use | |
| | modern tools in class room, reference material etc. 2 marks | |
| | for new course developed/course modified. (Maximum 6 | |
| | marks) | |
| | | • |
| | e. 1 mark for each training manual developed/training organized | |
| | (winter school, summer school, model training, any other | |
| | training of one week), 0.25 marks for lecture delivered in | |
| ii | training programmes. (Maximum 6 marks) | |
| 11 | Student guidance | 20 |
| | 3 marks for each additional Ph.D. student guided as the | |
| | Chairman and I mark for each additional M.Sc./M.Tech | |
| | student guided as the chairman. | |
| iii | Research | 30 |
| | A. Publication: Maximum 20 marks | |
| | a. 2 marks for each research paper with NAAS rating 10 and | |
| | above, I marks for each research paper with NAAS rating 6 | |
| | and above, 0.5 marks for each research paper with NAAS | |
| 1 | rating 5 and above 0.25 marks for each research paper with | |
| 1 | NAAS rating less than 5 (Maximum 12 marks) | |
| l | b. 0.5 marks for each review paper/popular article/technical | |
| | bulletin/technical report (Maximum 4 marks) | |
| ĺ | c. 3 mark for each book published, 2 marks for each book | |
| | edited, 1 mark for each book chapter (Maximum 4 marks) | |
| 1 | B. Research projects completed: maximum 10 marks | |
| | a. 2 marks for each externally funded project completed | |
| | b. 0.25 marks per year per in-house/institute project | |
| iv | Awards/recognitions | 10 |
| · v | 2 marks for ICAR/Academy awards/recognitions, 1 mark for | 10 |
| • | other awards/recognitions including institute award/society | |
| | award/ best paper award/best poster award/ recognition from | • |
| Į | | |
| | | |
| 1 | Jawaharlal award to student, 1 mark for other awards received | |
| | by students including institute award/best paper award/best | |
| | poster award/Divisional award/ recognition received by the students | |
| $\frac{1}{v}$ | | |
| v | Extension activities/institution building/ other activities not | 7 |
|]. | covered under any other items | |
| | 0.25 mark for each activity | |
| vi | Student's feedback | 3 |

Agenda Item No. 402.6 Consideration of the proposal for Academic Calendar for the 60th Academic Session 2017-18

The Academic Council approved the 60^{th} Academic Calendar of the PG School for the Academic Session 2017-18 (Appendix-II).

Agenda Item No. 402.7: Finalisation of 55th Convocation Week Programme

The Academic Council approved the 55th Convocation Week Programme scheduled from February 06-10, 2017 (Appendix-III).

The process on the following items has already been completed with the approval of the Chairperson of the Academic Council to enable the P.G.School to complete all the preconvocation requirements well in time. The action taken was approved by the Academic Council.

| 1. | Finalization of Chief Guest | Hon'ble Prime Minister of India |
|-----|---|--|
| 2. | Chairpersons for the various Programmes | |
| i) | Judging Committee for "Significant Post Graduate Students Research-2016 presentation" by the PG students for IARI Merit Medals and Best Student of the Year Award on Monday, February 06, 2017 (Convener: To be decided). | To be decided |
| ii) | "Presentation of Significant Educational Achievements of IARI for the year 2015." by the Professors of all the teaching disciplines on February 7, 2017 (Convener: Dr. Alka Singh). | To be decided |
| 3. | Chairpersons for the following lectures | |
| | i) Shri Hari Krishna Shastri Memorial Award ii) Hooker Award iii) Rao Bahadur Dr. B. Vishwanath Memorial Award | To be decided |
| 4. | 47 th Lal Bahadur Shastri Memorial Lecture | Speaker/ Chairman to be identified |
| 5. | Chairpersons for the following Committees i) Pandal and Seating Arrangements Committee ii) Catering Arrangement Committee | Dr. Indra Mani, Head, Agricultural Engineering Smt. Shashi PrabhaRazdan, Registrar and |
| | iii) Invitation Committee | Joint Director (Admn.) Dr. (Ms.) Rashmi Aggarwal, Head, Plant Pathology |
| | iv) Reception Committee | Dr. B.S. Dwivedi, Head, SS&AC |
| - | v) Cultural Programme & Invocation Song Committee | Dr. (Mrs.) K. Annapurna, Head, Microbiology |
| | vi) Decoration Committee | Dr. Markandey Singh, Senior Scientist, FLS |
| | vii) Publicity Committee | Dr. R.N. Padaria, Professor, Agricultural Extension |
| | viii) Transport and Accommodation Committee | Sh. Pushpender Kumar, Chief Admn. Officer |

Agenda Item No.402.8:

Consideration of the list of the candidates who have become eligible for award of their respective degrees of Master of Science/Master of Technology and Doctor of Philosophy as on 29.11.2016

The Academic Council approved the list of 119 candidates for the award of degree of M.Sc./M.Tech. and 50 candidates for Doctor of Philosophy who have completed all the prescribed requirements including their Final Viva Voce Examination as on 29.11.2016 (Appendix-IV).

Agenda Item No. 402.9:

Finalization of number of seats for admission toM.Sc./M.Tech. and Ph.D. degree programmes for the Academic Session 2017-18

The number of seats for M.Sc./M.Tech. and Ph.D. programmes in various disciplines at IARI required for the Academic Session 2017-18 and the eligibility qualifications were approved by the Academic Council (Appendix - V).

M. Sc./M.Tech. Programme: Theseat requirement along with the eligibility qualifications will be sent to the Education Division of ICAR as they hold the All India Entrance Examination for admission (AIEEA - PG- 2017) and Award of ICAR-JRF to Master's degree programme of IARI, IVRI, NDRI, CIFE, CAU and SAU's.

Ph. D. Programme: The all India Entrance Examination to the Ph.D. degree programmes at IARI is conducted by the Post Graduate School with the assistance of Examination Committee constituted by the Chairperson, Academic Council. The following schedule and other points were approved by the Academic Council.

Date of Entrance Examination

: April 23, 2017 (Sunday)

Name of the Examination Centres: Anand, Bengaluru, Ludhiana, Cochin, Coimbatore, Delhi, Dharwad, Guwahati, Jabalpur, Hyderabad, Patna/Ranchi, Kolkata, Pune, Udaipur Varanasi.

In addition to the seats finalized for open stream, seats for admission to M.Sc. & Ph.D. programmes under other streams are detailed below:

Faculty Up-gradation Scheme

10 seats for Ph.D. only

ICAR-In-Service Nominee Scheme

10 seats for Ph.D. only

Departmental (Scientific Cadre)

10 seats (Provisional) for Ph.D. only

Departmental (Technical Cadre)

26 seats for M.Sc. & Ph.D.

Foreign Students

30 seats for M.Sc. & Ph.D.

Agenda Item No. 402.10: Consideration of the recommendations the **Examination Committee**

The Academic Council discussed the recommendation of the examination 1. Committee in detail. On the issue of less number of applications for admission to Ph.D. degree programme, the Academic Council authrorised the Chairperson, Examination Committee to analyze the last 5 year's data and submit the report in the next Academic Council Meeting. However the proposal for relaxation of existing eligibility requirement for Ph.D. degree programme may be kept in abeyance.

2. The Academic Council approved the recommendation of Examination Committee on the existing procedure of transfer of unfilled seats from one discipline to another under different categories with a conditions that not more than two seats per category in one discipline shall be adjusted as transferred seats.

Agenda Item No. 402.11: Renewal of all the 4 Standing Committees' composition of the Academic Council for the period of two years i.e. January 2017 to December 2018.

The Academic Council approved the re-composition of all the four Standing Committees for the term of two years (January, 2017 to December, 2018)

I STANDING COMMITTEE ON COURSES CURRICULA & ACADEMIC AFFFAIRS

| 1. | Dr. Seema Jaggi, Professor, Agricultural Statistics | Chairman |
|----|--|---------------------|
| 2. | Dr. Alka Singh, Professor, Agricultural Economics | Member |
| 3. | Dr. V.K. Baranwal, Professor, Plant Pathology | Member |
| 4. | Dr. V.K. Sehgal, Professor, Agricultural Physics | Member |
| 5. | Dr.Bhupinder Singh, Principal Scientist, CESCRA and Faculty Representative to the Academic Council | Member |
| 6. | Ms.AnuKumari, Student's Representative to the Academic Council | Member |
| 7. | Dr. K.M. Manjaiah, Associate Dean, P.G. School | Member Secretary |

II STANDING COMMITTEE ON FACULTY & DISCIPLINE

| 1. | Dr. T.R. Sharma, Project Director, NRCPB | Chairman |
|----|--|---------------------|
| 2. | Dr. Subhash Chander, Professor, Entomology | Member |
| 3. | Dr. A.R. Rao, Professor, Bioinformatics | Member |
| 4. | Dr. R. Bhattacharya, Professor, MBB | Member |
| 5. | Dr. B.S. Tomar, Head, Vegetable Science & Faculty Representative to the Academic Council | Member |
| 6. | Dr. K.M. Manjaiah, Associate Dean, P.G. School | Member Secretary |

III STANDING COMMITTEE ON SCHOLARSHIPS, FINANCIAL ASSISTANCE AND ACADEMIC PROGRESS

| 1. | Dr. S.K. Jain, Professor, Seed Science and Technology | Chairman |
|----|--|-----------|
| 2. | Dr. S.K. Jha, Professor, Post Harvest Technology | Member |
| 3. | Dr.(Ms.) Irani Mukherjee, Professor, Agricultural Chemicals | Member |
| 4. | Dr. K.P. Singh, Professor, Floriculture and Landscaping | Member |
| 5. | Mr. Bhupesh Punera, President, PGSSU | Member |
| 6. | Ms. Anu Kumari, Student's Representative to the Academic Council | Member |
| 7. | Ms. Shashi Prabha Razdan, Registrar | Member |
| | | Secretary |

IV STANDING COMMITTEE ON STUDENT'S PROBLEMS, DISCIPLINE, WELFARE BOARD AND RESIDENCES

| 1 | Dr. Sunil Pabbi, Professor, Microbiology | |
|----|--|-----------|
| 2. | Dr. Sudeep Marwaha, Professor, Computer Application | Chairman |
| 3. | Dr. Y.S. Shivay, Professor, Agronomy | Member |
| 4. | Dr. O.D. Awasthi, Dr. C. Dr. C. | Member |
| 5. | Dr. O.P. Awasthi, Professor, FHT | Member |
| 6. | Dr. Anil Sirohi, MOHR, P.G. Hostels | Member |
| | Mr. Bhupesh Punera, President, PGSSU | Member |
| 7. | Ms. Anu Kumari, Student's Representative to the Academic Council | |
| 8. | Ms. Shashi Prabha Razdan, Registrar | Member |
| | and and a stable of the stable | Member |
| | | Secretary |

Agenda Item No. 402.12: To consider the cases of Ph.D. students to allow thesis submission beyond seven years as a very special cases.

The Academic Council showed deep concern on the following five cases of Ph.D. students to allow thesis submission beyond seven /six years as a very special cases. The Academic Council opined that in future such individual cases should not be brought to the house as the Academic Council is responsible for advising on broad policy matters on academic issues rather than dealing with individual cases. These cases need to be examined by the Chariperson, Academic Council based on the existing administrative guidelines of PG School.

| S.No. | Name of the student/ Roll No./Discipline | Date of Admission | Completion of five years | Date of relief | Last date of submission of thesis (Five Year + extended time of 2 years=total 7 | Remarks |
|-------|--|----------------------|--------------------------|----------------|---|---|
| 1. | Mr. BiswajitMondal (9684) Genetics | 6/8/2009 | 5/8/2014 | 30/6/2014 | years) 5/8/2016 (granted 2 years extension, as special case) | Removed from roll on 27/8/2016 due to non- submission of thesis within the extended |
| 2. | Ms. Aditi Srivastava(9641) Agricultural Physics | 6/8/2009 | 5/8/2014 | 2/2/2015 | 5/8/2016 (granted 2 years extension, as special case) | Removed from roll on 27/8/2016 due to non-submission of thesis within the extended |
| | Mr. Ingle Vishal Keshaorao (9630) Agricultural Engineering | 6/8/2009 | 5/8/2014 | 11/9/2012 | 5/8/2016 (granted 2 years extension, as special case) | Removed from roll on 27/8/2016 due to non-submission of thesis within the extended time. |

| 4. | Ms. | 6/8/2009 | 5/8/2014 | 11/12/201 | 5/8/2016 | Removed |
|----|-----------------|----------|----------|-----------|---------------|---------------|
| | ChinpilhingKipg | ļ: | | 4 | (granted 2 | from roll on |
| | en (9701) | | | | years | 27/8/2016 |
| | Vegetable | ļ | | | extension, as | due to non- |
| İ | Science | | | | special case) | submission of |
| | | | | | | thesis within |
| | | | | | 1 | the extended |
| | | | | | | time. |

| 5. | Sandeep Kr. | 6/8/2010 | 5/8/2015 | Student | 5/8/2016 | Under consideratio |
|----|---------------------|----------|----------|---------|------------------------|--------------------|
| | Duhan (9897) PHT | | | on roll | (granted extension of | n |
| | 1111 | | | | 6 months on | " |
| | | | | | two | |
| | | | | | occasions, | |
| | | | • | Ì | as special | |
| | | | | | case) | |

Agenda Item No. 402.13: Consideration of the recommendations of the Committee constituted for the establishment of IARI Foundation

The Academic Council agreed the recommendation of the Committee in principle. However the Council opined that a working group may be constituted and the approval of BOM of IARI and ICAR may also be taken as several aspects are involved in the case.

Agenda Item No. 402.14: Consideration of the recommendations of the Committee constituted for Integrated M.Sc./Ph.D. Programme.

The Academic Council approved the initiation of Integrated M.Sc./Ph.D. programme at IARI after obtaining necessary approval from BOM, ICAR and UGC. During Phase I, integrated Ph.D. programme could be taken up in one of the Basic Science disciplines, namely Molecular Biology & Biotechnology.

The meeting ended with the vote of thanks to the Chair.

(Shashi Prabha Razdan) Member-Secretary

> (Ravinder Kaur) Chairperson

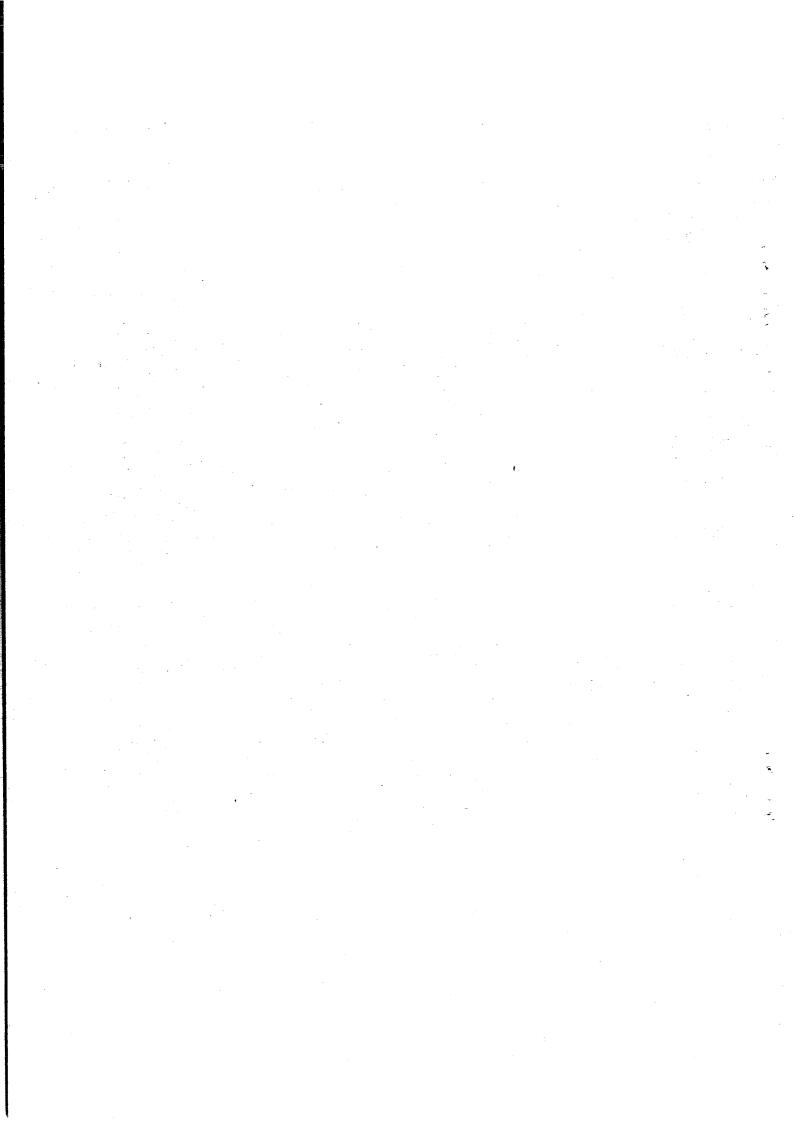
LIST OF STUDENTS ENROLLED AT IARI, NEW DELHI IN PH.D PROGRAMME IN THE ACADEMIC YEAR 2015-16 ELIGIBLE FOR IARI FELLOWSHIP @ Rs. 13125/- p.m. WITH CONTINGENCY @ Rs. 10000/- p.a.

| Sr. No. | NAME OF THE STUDENT | ROLL | DISCIPLINE | DATE_ENROL |
|------------|---------------------------|--------|--------------------------|------------|
| 1. | Ms. ANINDITA PAUL | 10726 | AGRICULTURAL CHEMICALS | 29-07-2016 |
| 2 | DINESH KUMAR YADAV | 107.27 | AGRICULTURAL CHEMICALS | 29-07-2016 |
| 3 | NIRANJAN KUMAR | 10728 | AGRICULTURAL CHEMICALS | 29-07-2016 |
| 4 | Ms. SHANNON N SANGMA | 10729 | AGRICULTURAL CHEMICALS | 29-07-2016 |
| 5 | SUBHAM YADAV | 10730 | AGRICULTURAL CHEMICALS | 29-07-2016 |
| 6 | JOBIN SEBASTIAN | 10732 | AGRICULTURAL ECONOMICS | 29-07-2016 |
| 7 | CHIKKATHIMME GOWDAHR | 10733 | AGRICULTURAL ECONOMICS | 29-07-2016 |
| 8 | RAGHAVENDRA K J | 10734 | AGRICULTURAL ECONOMICS | 29-07-2016 |
| 9 | RAVINDRA | 10736 | AGRICULTURAL ECONOMICS | 29-07-2016 |
| 10 | RAJESHWAR SANODIYA | 10744 | AGRICULTURAL ENGINEERING | 29-07-2016 |
| 11 | VAIBHAV CHAUDHARY | 10745 | AGRICULTURAL ENGINEERING | 29-07-2016 |
| 12 | Ms. ARTI KUMARI | 10750 | AGRICULTURAL ENGINEERING | 29-07-2016 |
| 13 | REETESH KUMAR PYASI | 10751 | AGRICULTURAL ENGINEERING | 29-07-2016 |
| 14 | Ms. TRUPTIMAYEE SUNA | 10752 | AGRICULTURAL ENGINEERING | 29-07-2016 |
| 15 | CHANNAVEERESH R MOTAGI | 10757 | AGRICULTURAL EXTENSION | 29-07-2016 |
| 16 | SUNIL KUMAR | 10758 | AGRICULTURAL EXTENSION | 29-07-2016 |
| 17 | BRIJESH YADAV | 10760 | AGRICULTURAL PHYSICS | 29-07-2016 |
| 18 | KOUSHIK BANERJEE | 10761 | AGRICULTURAL PHYSICS | 29-07-2016 |
| 19 | Ms. SHANTI DEVI BAMBORIYA | 10768 | AGRONOMY | 29-07-2016 |
| 20 | Ms. KAVITA KUMARI | 10769 | AGRONOMY | 29-07-2016 |
| 21 | Ms. ANITA KUMAWAT | 10770 | AGRONOMY | 29-07-2016 |
| 22 | BHARAT RAJ MEENA | 10771 | AGRONOMY | 29-07-2016 |
| 23 | ANKIT | 10772 | AGRONOMY | 29-07-2016 |
| 24 | Ms. POORNIMA S | 10773 | AGRONOMY | 29-07-2016 |
| 25 | SANDEEP KUMAR | 10774 | BIOCHEMISTRY | 29-07-2016 |
| 26 | ASHOK KUMAR | 10775 | BIOCHEMISTRY | 29-07-2016 |
| 27 | SACHIDANAND TIWARI | 10776 | BIOCHEMISTRY | 29-07-2016 |
| . 8 | MAHESH KUMAR SAMOTA | 10777 | BIOCHEMISTRY | 29-07-2016 |
| 9 | SUKHWINDER SINGH , | 10786 | ENTOMOLOGY | 29-07-2016 |
| 0 | PADALA VINOD KUMAR | 10787 | ENTOMOLOGY | 29-07-2016 |
| 1 | Ms. LANEESHA M | 10788 | ENTOMOLOGY | 29-07-2016 |
| 2 | Ms. RAMYA N | 10789 | ENTOMOLOGY | 29-07-2016 |
| 3 | KEERTHIMC | 10790 | ENTOMOLOGY | 29-07-2016 |
| 4 | RAJGOPAL N N | 10791 | ENTOMOLOGY | 29-07-2016 |
| 5 | SOURAV SARKAR | 10795 | ENTOMOLOGY | 29-07-2016 |
| 6 | VARUN SAINI | 10796 | ENTOMOLOGY | 29-07-2016 |
| 7 | SATYAPRIYA SINGH | 10797 | ENTOMOLOGY | 29-07-2016 |
| 8 | RAMESH K B | 10798 | ENTOMOLOGY | 29-07-2016 |
| 9 | Ms. CHAITRA H S | 10799 | ENTOMOLOGY | 29-07-2016 |
| 5 | Ms. ANJALI M S | 10800 | ENTOMOLOGY | 29-07-2016 |
| 1 | SUNIL NAIK H | 10801 | ENTOMOLOGY | 29-07-2016 |
| 2 | SUNIL | 10802 | ENTOMOLOGY | 29-07-2016 |

| 43 | JAYANTA THOKDAR | 10803 | ENVIRONMENTAL SCIENCES | 29-07-2016 |
|------|-----------------------------|-------|-------------------------------------|------------|
| 44 | PAWAN KUMAR LONI | 10804 | ENVIRONMENTAL SCIENCES | 29-07-2016 |
| 45 | RANJEET KUMAR CHAURASIYA | 10805 | ENVIRONMENTAL SCIENCES | 29-07-2016 |
| 46 | CHANDRA SHEKARA T.K. | 10806 | ENVIRONMENTAL SCIENCES | 29-07-2016 |
| 47 | RAVI GANGWAR | 10807 | ENVIRONMENTAL SCIENCES | 29-07-2016 |
| 48 | Ms. SHISA ULLAS P | 10808 | FLORICULTURE & LANDSCAPE ARCH. | 29-07-2016 |
| 49 | VARUN MALLAIAH HIREMATH | 10809 | FLORICULTURE & LANDSCAPE ARCH. | 29-07-2016 |
| 50 | Ms. TANUSHREE SAHOO | 10814 | FRUITS AND HORTICULTURAL TECHNOLOGY | 29-07-2016 |
| 51 | KULDEEP SINGH | 10815 | FRUITS AND HORTICULTURAL TECHNOLOGY | 29-07-2016 |
| 52 | PREM CHAND GYANI | 10818 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 53 | NITISH RANJAN PRAKASH | 10819 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 54 | SHYAM SUNDAR D | 10820 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 55 | YANKAPPA UPPAR | 10821 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 56 | Ms. MANISHA SAINI | 10823 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 57 | GANESH MEENA | 10824 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 58 | BHARATH KUMAR ALAM | 10825 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 59 | SUBHASH CHAND | 10826 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 60 | AALOK SHIV | 10828 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 61 | Ms. SNEHA NYAMAGOUD | 10829 | GENETICS AND PLANT BREEDING | 29-07-2016 |
| 62 | Ms. SWATI SAGAR | 10831 | MICROBIOLOGY | 29-07-2016 |
| 63 | DEEPAK KUMAR KOLI | 10832 | MICROBIOLOGY | 29-07-2016 |
| 64 | AJAY KUMAR | 10833 | MICROBIOLOGY | 29-07-2016 |
| 65 | Ms. NIVETHA | 10834 | MICROBIOLOGY | 29-07-2016 |
| 66 | SHEKHAR KUMAR | 10835 | MICROBIOLOGY | 29-07-2016 |
| 67 | Ms. SHARANI CHOUDHURY | 10836 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 68 | Ms. PARICHITA PRIYADARSHINI | 10837 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 69 | Ms. JYOTSANA TILGAM | 10838 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 70 | Ms. SREESHMA N | 10839 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 71 | Ms. ALKA BHARATI | 10840 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 72 | KULDEEP KUMAR | 10842 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 73 | DEEPANSHU JAYASWAL | 10843 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 74 | . MAHENDRA C | 10844 | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 29-07-2016 |
| 75 | DASH MANORANJAN PITABAS | 10845 | NEMATOLOGY | 29-07-2016 |
| 76 | VINAYKUMAR B K | 10846 | NEMATOLOGY | 29-07-2016 |
| 77 | DEVARAJA K.P. | 10847 | NEMATOLOGY | 29-07-2016 |
| 78 | VINOD S | 10848 | NEMATOLOGY | 29-07-2016 |
| 79 . | Ms. MAYA PATIL | 10850 | NEMATOLOGY | 29-07-2016 |
| 80 | HARI PRASATH S | 10851 | PLANT GENETIC RESOURCES | 29-07-2016 |
| 81 | KUWARDADRA SAHADEO | 10852 | PLANT GENETIC RESOURCES | 29-07-2016 |
| | INDALDAS | | DI ANT CENETIC PERCUIPOER | 29-07-2016 |
| 82 | JAGDISH GOYANKA | 10853 | PLANT GENETIC RESOURCES | 29-07-2016 |
| 83 | SHIVAM KUMAR | 10855 | PLANT GENETIC RESOURCES | |
| 84 · | Ms. BHARGAVI H A | 10856 | PLANT GENETIC RESOURCES | 29-07-2016 |
| 85 | SHYAM KUMAR | 10857 | PLANT GENETIC RESOURCES | 29-07-2016 |
| 86 | Ms. VEENAKH | 10858 | PLANT PATHOLOGY | 29-07-2016 |
| 87 | Ms. RAMYASHREE DEVIGS | 10859 | PLANT PATHOLOGY | 29-07-2016 |
| 88 | SAURABH KUMAR DUBEY | 10860 | FLANT PATHOLOGY | 29-07-2016 |
| 89 | N.S. KALAIVANAN | 40861 | PLANT PATHOLOGY | 29-07-2016 |

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| 91 | Ms. MUSHINENI ASHAJYOTHI RUBIN DEBBARMA | 10863 | PLANT PATHOLOGY PLANT PATHOLOGY | 29-07-2016 | |
|-----|---|-------|---------------------------------|------------|----|
| 92 | Ms. SHAZIA TASNEEM | 10865 | | 29-07-2016 | |
| 93 | Ms. SHWETA MESHRAM | 10866 | PLANT PATHOLOGY | 29-07-2016 | |
| 94 | RUDRAPPA K BANNIHATTI | | PLANT PATHOLOGY | 29-07-2016 | |
| 95 | NITIN SHARMA | 10868 | PLANT PATHOLOGY | 29-07-2016 | |
| 96 | MILAN KUMAR LAL | 10869 | PLANT PHYSIOLOGY | 29-07-2016 | |
| 97 | Ms. SHAMIMA PARVEEN | 10870 | PLANT PHYSIOLOGY | 29-07-2016 | |
| 98 | Ms. LAKSHMI RAJ | 10871 | PLANT PHYSIOLOGY | 29-07-2016 | |
| 99 | MAHESH MEENA | 10872 | PLANT PHYSIOLOGY | 29-07-2016 | |
| 100 | | 10873 | PLANT PHYSIOLOGY | 29-07-2016 | |
| 100 | GAJANAN GUNDEWADI | 10874 | POST HARVEST TECHNOLOGY | 29-07-2016 | - |
| 101 | Ms. SMRUTHI JAYARAJAN | 10875 | POST HARVEST TECHNOLOGY | 29-07-2016 | |
| 102 | Ms. ARCHANA T. JANAMATTI | 10876 | POST HARVEST TECHNOLOGY | 29-07-2016 | |
| | Ms. SHAGHAF KAUKAB | 10879 | POST HARVEST TECHNOLOGY | 29-07-2016 | |
| 104 | SANJAY KUMAR | 10880 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 105 | PRAVEEN S PATTED | 10881 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 106 | RAJESH KUMAR SHARMA | 10882 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 107 | DHANUSH K S | 10883 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 108 | RAVI BHUSHAN PRASAD | 10884 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | ē |
| 109 | Ms. DHANYA V G | 10885 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 110 | DAMODAR DAS | 10886 | SEED SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 111 | AVIJIT GHOSH | 10888 | SOIL SCIENCE & AGRIL CHEMISTRY | 29-07-2016 | |
| 112 | AMRESH CHAUDHARY | 10889 | SOIL SCIENCE & AGRIL. CHEMISTRY | 29-07-2016 | |
| 113 | CHIRANJEEV KUMAWAT | 10890 | SOIL SCIENCE & AGRIL. CHEMISTRY | 29-07-2016 | |
| 114 | ANIL KUMAR VERMA | 10891 | SOIL SCIENCE & AGRIL. CHEMISTRY | 29-07-2016 | ** |
| 115 | RAVI KUMAR MEENA | 10892 | SOIL SCIENCE & AGRIL. CHEMISTRY | 29-07-2016 | |
| 116 | DIBAKAR ROY | 10893 | SOIL SCIENCE & AGRIL. CHEMISTRY | 30-07-2016 | |
| 117 | ATUL BHAGWAN PAWAR | 10894 | SOIL SCIENCE & AGRIL, CHEMISTRY | 29-07-2016 | |
| 118 | SUNIL B H | 10895 | SOIL SCIENCE & AGRIL. CHEMISTRY | 30-07-2016 | |
| 119 | ARUNKUMAR B. | 10896 | VEGETABLE SCIENCE | 29-07-2016 | |
| 120 | Ms. SHILPA DEVI | 10897 | VEGETABLE SCIENCE | 29-07-2016 | |
| 121 | JAYANTA JAMATIA | 10898 | VEGETABLE SCIENCE | 29-07-2016 | |
| 122 | RAJASHEKHAR GOWDA R | 10902 | VEGETABLE SCIENCE | 29-07-2016 | |
| 123 | GURURAJ MATHPATI | 10903 | VEGETABLE SCIENCE | 29-07-2016 | • |
| 124 | PRADEEP KUMAR JATAV | 10904 | VEGETABLE SCIENCE | 29-07-2016 | |
| 125 | HEMANT GHEMERAY | 10908 | VEGETABLE SCIENCE | 29-07-2016 | |
| 126 | RAGHUKUMAR A S | 10912 | WATER SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 127 | VIKASH KUMAR | 10913 | WATER SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 128 | Ms. RICHA PANDEY | 10914 | WATER SCIENCE AND TECHNOLOGY | 29-07-2016 | |
| 129 | VENKATESH Y.N. | 10921 | ENTOMOLOGY. | 16-08-2016 | |
| 30 | HARISH D. | 10922 | GENETICS AND PLANT BREEDING | 16-08-2016 | |
| 31 | Ms. MENAKA KANNAIYAN | 10923 | ENTOMOLOGY | 19-08-2016 | |
| 32 | BHAGWAN SINGH DHAKED | 10924 | MICROBIOLOGY | 19-08-2016 | |
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ACADEMIC CALENDER FOR 60th ACADEMIC SESSION 2017-18

| 2017 | Adm | nission Process for the Academic Session 2017-18 | | |
|----------------|-----------------------|---|--|--|
| February 11-12 | Saturday & Sunday | Advertisement for inviting on line applications for Ph.D. admission will be published in all the leading national news papers | | |
| February 13 | Monday | Receipt of online applications for Ph.D. admission starts | | |
| March 06 | Monday | Last date for receipt of online applications for admission to Ph.D. Programme | | |
| March 13 | Monday | Last date for receipt of through proper channel applications and documents submission | | |
| April 23 | Sunday | Entrance Examination for admission to Ph.D. Programme | | |
| May 06 | Saturday | Declaration of result of Written Test for admission to Ph.D. programme | | |
| June 19 | Monday | Last date for submission of thesis by IARI M.Sc. students who have applied for admission to the Ph.D. Programme | | |
| July 01 | Saturday | Last date for receipt of mark sheet from the candidates who are studying in M.Sc. final year | | |
| July 03 | Monday | Interview for admission to Ph.D. Programme in the respective disciplines | | |
| July 07 | Friday | Academic Council meeting for finalization of results for M.Sc. & Ph.D. admissions 2017-18 | | |
| July 27 & 28 | Thursday & Friday | Verification of original documents and online Registration of newly admitted M.Sc. and Ph.D. Programmes 2017-18 | | |
| July 29 | Saturday | Orientation Programme: Newly admitted students to be addressed by Dean and Director, IARI | | |
| I – Trimester | | | | |
| July 31 | Monday | First Trimester begins, payment of fees and online registration of continuing students | | |
| August 01 | Tuesday | Commencement of Class Work | | |
| August 16 | Wednesday | Last date for adding/dropping of course | | |
| September 05 | Tuesday | Teacher day celebration and lecture | | |
| November 11 | Saturday | National Agricultural Education day celebration and lecture | | |
| W | Monday to Saturday | Final Examination of I Trimester | | |

| II - Trimester | | |
|---|--|--|
| November 20 | Monday | Online Registration of students |
| November 21 | Tuesday | Commencement of Class Work |
| December 03 | Sunday | Agricultural Education Day |
| December 05 | Tuesday | Last date for adding/dropping of courses |
| December 17, 2017 to December 31, 2017 | Sunday to Sunday | Winter Break |
| 2018 | a financia de la compansión de la compan | |
| January 30 | Tuesday | Last date for holding of Final Viva- Voce Examination for consideration for award of IARI Merit Medals and award of degree in the 56 th Convocation, 2018 |
| February 05 | Monday | Commencement of 56th Convocation Week Programme |
| February 08 | Thursday | 48 th Lal Bahadur Shastri Memorial Lecture |
| February 09 | Friday | 56 th Convocation |
| February 24 to February 26 | Saturday to Monday | Annual Sports Meet (Tentative) |
| March 26 to March 31 | Monday to | Final Examination of II Trimester |
| What Cit OI | Saturday | |
| | | |
| III - Trimeste | r | Online Registration of students |
| III - Trimeste April 02 | r Monday | Online Registration of students Commencement of Class Work |
| III - Trimeste April 02 April 03 | Monday . Tuesday | Commencement of Class Work |
| April 02 April 03 April 17 May 27 | Monday . Tuesday Tuesday Sunday to | to the contract of the contrac |
| April 02 April 03 April 17 May 27 to June 17 July 16 to | Monday Tuesday Tuesday Sunday | Commencement of Class Work Last date for adding/dropping of course |
| April 02 April 03 April 17 May 27 to June 17 July 16 | Monday Tuesday Tuesday Sunday to Sunday Monday to | Commencement of Class Work Last date for adding/dropping of course Summer Vacation |
| April 02 April 03 April 17 May 27 to June 17 July 16 to July 21 July 22 | Monday Tuesday Tuesday Sunday to Sunday Monday to Saturday Sunday | Commencement of Class Work Last date for adding/dropping of course Summer Vacation Final Examination of III Trimester |
| April 02 April 03 April 17 May 27 to June 17 July 16 to July 21 July 22 | Monday Tuesday Tuesday Sunday to Sunday Monday to Saturday Sunday | Commencement of Class Work Last date for adding/dropping of course Summer Vacation Final Examination of III Trimester |
| April 02 April 03 April 17 May 27 to June 17 July 16 to July 21 July 22 | Monday Tuesday Tuesday Sunday to Sunday Monday to Saturday Sunday | Commencement of Class Work Last date for adding/dropping of course Summer Vacation Final Examination of III Trimester |
| April 02 April 03 April 17 May 27 to June 17 July 16 to July 21 July 22 | Monday Tuesday Tuesday Sunday to Sunday Monday to Saturday Sunday | Commencement of Class Work Last date for adding/dropping of course Summer Vacation Final Examination of III Trimester |

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55th CONVOCATION WEEK PROGRAMME

Venue: Dr. B.P. Pal Auditorium

Monday, February 06, 2017

09.30-18.00 hrs.

Presentation of "Significant Post Graduate Students Research" by M.Sc. & Ph.D. students for "Merit Medals" and "Best Student of the Year" award

Tuesday, February 07, 2017

Presentation of Significant Educational Achievements for the year 2016 by the Professors representing different schools of the teaching disciplines

09.30-11.15 hrs.

Session I - Crop Improvement

11.30-13.00 hrs.

Session II - Crop Protection

14.00-15.45 hrs.

Session III - Resource Management

16.00-17.00 hrs.

Session IV - Basic Sciences

17.15-18.30 hrs.

Session V – Horticultural Sciences

Wednesday, February 08, 2017

Presentation of Significant Educational Achievements for the year 2016 by the Professors representing different schools of the teaching disciplines

09.30-10.45 hrs.

Session VI - Social Sciences

Award Lectures

11.30-13.00 hrs.

Lecture by the Recipient of Harikrishna Shastri Memorial Award

14.00-15.30 hrs.

Lecture by the Recipient of Hooker Award

15.45-16.45 hrs.

Lecture by the Recipient of Rao Bahadur B. Vishwanath Memorial Award

Thursday, February 09, 2017

Venue: Conference Hall, IARI Library

09.30-10.30 hrs.

403rd Meeting of the Academic Council, IARI

Venue: Dr. B.P. Pal Auditorium

11.00-13.00 hrs.

47th Lal Bahadur Shastri Memorial Lecture

Venue: Conference Hall, IARI Library

14.00-15.00 hrs.

Meeting of Board of Management, IARI

Venue: Lawns of Dr. B.P. Pal Auditorium

15.30-16.30 hrs.

Full Dress Rehearsal

Friday, February 10, 2017

Venue: Lawns of Dr. B.P. Pal Auditorium

12.00-13.30 hrs.

55th Convocation

15.00 hrs.

Farewell to outgoing students at their respective Divisions

Venue: Dr. B.P. Pal Auditorium

18.00 hrs.

Cultural Programme by P. G. Students

Convocation Dinner

List of candidates who have successfully completed all the requirements including final viva-voce examination for the award of degree of Master of Science as on 29/11/2016

| No. | MALL IN | MANE OF THE STUDENT | Title of Thesis |
|-----------|---------|------------------------|---|
| A | GRICU | LTURAL CHEMICALS | |
| 1 | 20493 | DINESH KUMAR YADAV | IMPACT OF TURMERIC TERPENOIDS ON BIOAVAILABILITY OF CURCUMIN |
| 2 | 20494 | NIRANJAN KUMAR | MOLECULARLY IMPRINTED POLYMERS AS CLEANUP TOOL FOR SELECTIVE DETECTION OF CHLORPYRIFOS AND IMIDACLOPRID |
| .3 | 20495 | SAMEER RANJAN MISRA | EFFECT OF OZONATION ON THE PHYTOCHEMICALS DURING PESTICIDE DECONTAMINATION IN CITRUS FRUITS |
| 4 | 20496 | Ms. ANINDITA PAUL | EXTRACTION OF ELLAGITANNINS FROM POMEGRANATE RIND AND THEIR ANTIOXIDANT ACTIVITY |
| 5 | 20497 | Ms. SHANNON N SANGMA | PERSISTENCE AND MOBILITY OF TETRACYCLINE AND OXYTETRACYCLINE IN SOIL AND MANURES |
| AG | RICUL | TURAL ECONOMICS | |
| 6 | 20498 | JOBIN SEBASTIAN | IMPACT OF CREDIT ON ADOPTION OF HIGH VALUE CROP: A CASE OF BANANA CULTIVATION |
| 7 | 20499 | Ms. PRIYANKA UPRETI | PRODUCTION EFFICIENCY AND PRICE BEHAVIOUR OF SUGAR IN INDIA |
| 8 | 20500 | RAGHAVENDRA K J | AN ANALYSIS OF RISK MANAGEMENT IN RAINFED AGRICULTURE: A CASE OF SOYBEAN IN MADHYA PRADESH |
| 9 | 20501 | RAVINDRA | AN ECONOMIC STUDY OF FARMERS PREFERENCE OF RICE VARIETAL TRAITS AND IMPACT OF IMPROVED RICE VARIETIES IN NORTH EASTERN PLAIN ZONE OF UTTAR PRADESH |
| 10 | 20608 | `EMAL SHEGIWAL | ECONOMICS OF CONTRACT FARMING: A CASE STUDY OF BASMATI RICE |
| AG | RICUL | TURAL ENGINEERING | |
| 11 | 20502 | VAIBHAV CHAUDHARY | DESIGN AND DEVELOPMENT OF ERGONOMIC VARIABLE HEIGHT PLATFORM FOR TRAINING AND HARVESTING OF TOMATO CROP IN GREENHOUSE |
| 12 | 20503 | Ms. ARTI KUMARI | STUDY OF SOIL MOISTURE SENSORS' SUITABILITY FOR IRRIGATION SCHEDULING IN A COLE CROP AT FIELD LEVEL |
| 13 | 20504 | Ms. ALKA MISHRA | DEVELOPMENT OF SOLAR POWERED PNEUMATIC SEED CLEANING SYSTEM |
| 14 | | HITESH BIJARNIYA | DESIGN OF FOLIAR APPLICATOR FOR UREA AMMONIUM NITRATE |
| | 20506 | | SIMULATION OF WATER UPTAKE BY CAPSICUM IN SOILLESS MEDIA UNDER GREENHOUSE FOR IRRIGATION SCHEDULING |
| 16 | 20610 | HASAN MIRZAKHANINAFCHI | STUDY ON FEASIBILITY OF SOIL NITROGEN DETECTION USING ELECTRICAL CONDUCTIVITY FOR SITE-SPECIFIC NITROGEN APPLICATION |

| No. | ROLL NO | NAME OF THE STUDENT | Title of Thesis |
|-----|---------|---------------------------|--|
| AG | RICUL | TURAL EXTENSION | |
| 17 | 20507 | CHANNAVEERESH R MOTAGI | COMPREHENSIVE NUTRITION MISSION PROGRAM IN INDIA-A MULTIDIMENSIONAL STUDY |
| 1.8 | 20508 | RABEESH KUMAR VERMA | EMPOWERMENT OF WOMEN THROUGH INFORMATION AND COMMUNICATION TECHNOLOGY: A CASE ANALYSIS OF CONNECTING DREAM FOUNDATION |
| 19 | 20509 | ALOK KUMAR SAHOO | ANALYSIS OF FUNCTIONAL MECHANISM AND IMPACT ASSESSMENT OF IARI-POST OFFICE LINKAGE EXTENSION MODEL |
| 20 | 20510 | KRISHNA D KARJIGI | EMPOWERMENT OF RURAL HOUSEHOLDS THROUGH COMMUNITY RADIO STATIONS: AN ANALYTICAL STUDY |
| 21 | 20511 | SUNIL KUMAR | CRITICAL ANALYSIS OF KNOWLEDGE MANAGEMENT IN AGRICULTURE: A CASE OF RICE KNOWLEDGE MANAGEMENT PORTAL (RKMP) |
| AG | RICUL | TURAL PHYSICS | |
| 22 | 20512 | Ms. ALKA RÁNI | MODELLING EVAPOTRANSPIRATION AND NITROGEN UPTAKE IN WHEAT CROP UNDER TILLAGE, RESIDUE AND NITROGEN MANAGEMENT |
| 23 | 20513 | BRIJESH YADAV | EFFECT OF REDUCED SOLAR RADIATION ON GROWTH AND YIELD OF WHEAT |
| 24 | 20514 | KOUSHIK BANERJEE | THERMAL IMAGE ANALYSIS OF WHEAT CROP GROWN UNDER MOISTURE STRESS CONDITION |
| AG | RICUL | TURAL STATISTICS | • |
| 25 | 20515 | Ms. PRIYANKA ANJOY | WAVELET METHODS FOR FORECASTING VOLATILE AGRICULTURAL COMMODITY PRICES |
| 26 | 20516 | KULDEEP ASWAL | DESIGNS FOR DIALLEL CROSS EXPERIMENTS INCORPORATING NEIGHBOUR EFFECTS |
| 27 | 20517 | GOPAL SAHA | DETECTION OF OUTLIERS IN LINEAR TIME SERIES IN AGRICULTURAL DATA |
| 28 | 20518 | AMIT SAHA | INTEGRATION OF SIMPLE EXPONENTIAL SMOOTHING WITH STATE SPACE FORMULATION |
| 29 | 20519 | SUBHRAJIT SATPATHY | SPLICE SITE PREDICTION IN AGRICULTURAL ORGANISMS BASED ON pre-mRNA SECONDARY STRUCTURE INFORMATION AND SEQUENCE BASED FEATURES |
| 30 | 20520 | NOBIN CHANDRA PAUL | STATISTICAL TECHNIQUES FOR DISCRIMINATION AND ACREAGE ESTIMATION OF FRUIT CROPS USING HYPERSPECTRAL SATELLITE DATA |
| AG | RONC | MY | |
| 31 | 20523 | Ms. KAVITA KUMARI | DETERMINING NITROGEN STATUS IN MAIZE (Zea mays L.) USING PLANT SENSORS UNDER VARIABLE NITROGEN AND SOIL MOISTURE REGIMES |
| 32 | 20524 | Ms. SHANTI DEVI BAMBORIYA | PLANTING AND NITROGEN MANAGEMENT IN PEARLMILLET UNDER CONSERVATION AGRICULTURE BASED PEARLMILLET MUSTARD CROPPING SYSTEM |
| 33 | 20525 | Ms. ANITA KUMAWAT | WATER AND NITROGEN MANAGEMENT IN DIRECT- SEEDED RICE |
| 34 | 20526 | BHARAT RAJ MEENA | NITROGEN MANAGEMENT UNDER CONSERVATION AGRICULTURE IN MAIZE (Zea mays L.) |
| 35 | 20628 | ROHULLAH | INTEGRATED CROP MANAGEMENT MODULES FOR ENHANCING PRODUCTIVITY AND PROFITABILITY OF SOYBEAN (Glycine max L.) |

| | No. RO LL | NO NAME OF THE STUDENT | Title of T hesis |
|-----------------------|------------------|--|--|
| | ВІОСН | EMISTRY | |
| | 36 2039 | 99 SANDEEP KUMAR | |
| | | | BIOCHEMICAL AND MOLECULAR STUDIES FOR ELUCIDATION OF THE ROLE OF ISOFLAVONES IN THE IMPROVEMENT OF FLAVOUR QUALITY OF SOYBEAN |
| | | 27 ASHOK KUMAR | EXPLORING RUBISCO ACTIVASE (RCA) GENE FROM WHEAT FOR AUGMENTING CARBON ASSIMILATORY PROCESS UNDER HEAT STRESS |
| | 38 2052 | 8 SACHIDANAND TIWARI | IDENTIFICATION, CLONING AND CHARACTERIZATION OF HEAT-INDUCED MAPK GENE(S) IN WHEAT (Triticum aestivum L.) UNDER TERMINAL HEAT STRESS |
| | 39 2052 | | BIOTIC ELICITOR INDUCED BIOCHEMICAL AND MOLECULAR MANIFESTATIONS OF DROUGHT TOLERANCE IN CONTRASTING RICE (Oryzasativa L.) |
| | 0 2053 | TO WISE SEVISAG | DROUGHT-INDUCED BIOCHEMICAL AND EPIGENETIC CHANGES AND THEIR ASSOCIATION WITH DROUGHT STRESS TOLERANCE IN CONTRASTING RICE (Oryza sativa L.) GENOTYPES |
| E | BIOINF | DRMATICS | |
| 4 | | W. SOUNTA SHARINA | IDENTIFICATION AND CHARACTERIZATION OF ENHANCED DISEASE SUSCEPTIBILITY1 (EDS1) IN Solanum melongena BY USING In silico ANALYSIS |
| 42 | | - The state of the | AN IN-SILICO STUDY ON SYNTENY BETWEEN CATTLE AND BUFFALO GENOME |
| 43 44 | _0000 | 102111101 | STUDY ON CHANGE-POINTS IN GENOMIC SEQUENCES |
| 44 | 20001 | TOWAN VERWA | DECIPHERING GENES ASSOCIATED WITH ROOT WILT BY TRANSCRIPTOMIC APPROACH IN COCONUT (Cocos nucifera) |
| | _0000 | LOCE / II INIED | DEVELOPMENT OF TRANSCRIPTOME SIGNATURE OF DIFFERENT STAGES OF LAC INSECT (Kerria lacca) |
| C | OMPU | TER APPLICATION | (Norma labba) |
| 46 _. 47 | | MD ASHRAFUL HAQUE | MOBILE APP FOR INFORMATION RETRIEVAL ON PEST AND DISEASE IN CROPS |
| 48 | 20537 20538 | Ms. SHBANA BEGAM | WEB BASED INFORMATION SYSTEM OF GROUNDWATER RESOURCES |
| 49 | 20539 | PARVEZ MALLICK Ms. SONICA PRIYADARSHINI | MOBILE APPICATION FOR PLANT QUARANTINE REGULATIONS TO IMPORT IN INDIA |
| FN | ITOMO | | MOBILE APPLICATION FOR CHLOROPHYLL CONTENT ESTIMATION IN RICE |
| | | | |
| 50 51 | 20541 | Ms. RAMYA N | TAXONOMIC STUDIES OF THE GENUS MAIESTAS (Hemiptera:Cicadellidae) FROM INDIA |
| .52 | | PADALA VINOD KUMAR | TAXONOMIC STUDIES ON WHITE GRUB SPECIES (Coleoptera:Scarabaeidae) ASSOCIATED WITH GROUNDNUT AND POTATO ECOSYSTEMS |
| 53 | 20543 | Ms. LANEESHA M | EFFECT OF THERMAL STRESS ON HOST INSECT PAPAYA MEALYBUG, Paracoccus marginatus WILLIAMS AND GRANARA DE WILLINK (Hemiptera: Pseudococcidae) ON ITS PARASITOID Acerophagus papayae NOVES AND SCHAUFF |
| | -~ · T | SOURAV SARKAR | CHARACTERIZATION OF NATIVE BACILLUS THURINGIENSIS STRAINS AGAINST SPODOPTERA LITURA AND SPODOPTERA EXIGUA (Lepidoptera: Noctuidae) |

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| 54 | 20545 | SOUMEN BHAR | YIELD AND PHOSPHORUS STATUS IN SOIL AND PLANT WITH ELEVATED CARBON DIOXIDE AND DIFFERENT PHOSPHORUS LEVELS IN TRANSPLANTED AND DIRECT-SEEDED RICE |
| 55 | 20546 | RANJEET KUMAR CHAURASIYA | STABILIZATION OF LEAD (Pb) IN CONTAMINATED SOIL USING ORGANIC AND INORGANIC AMENDMENTS |
| 56 | 20547 | JAYANTA THOKDAR | SIMULATING GROWTH AND DEVELOPMENT OF INDIAN SPINACH USING A DYNAMIC MODEL |
| 57 | 20548 | PAWAN KUMAR LONI | QUANTIFICATION OF AMMONIA VOLATILIZATION LOSSES FROM RICE UNDER DIFFERENT TEMPERATURE REGIMES |
| 58 | 20614 | SHAHABUDEN KHWAHANY | N2O EMISSION IN WHEAT WITH INTEGRATED USE OF BIOGAS SLURRY AND FERTILIZERS |
| 59 | 20621 | CHANDRA SHEKARA T.K. | GROWTH AND YIELD RESPONSE OF RICE TO DEPOSITION OF PARTICULATE MATTER |
| FL | ORICU | ILTURE AND LANDSCAPE A | ARCHITECTURE |
| <u></u> 60 | 20559 | VARUN MALLAIAH HIREMATH | REGULATION OF LEAF AND PETAL SENESCENCE BY NON-ENZYMATIC ANTIOXIDANT ASCORBIC ACID IN CHRYSANTHEMUM [Chrysanthemum x morifolium Ramat.(Pro sp.)] |
| 61 | 20561 | ASHOK KUMAR PAIKARAY | PHENOTYPING OF MARIGOLD GENOTYPES FOR SALT TOLERANCE |
| 62 | 20562 | Ms. SHISA ULLAS P | PROFILING OF PIGMENTS AND THEIR ANTIOXIDANT ACTIVITIES IN CHRYSANTHEMUM(Chrysanthemum morifolium RAMAT.) |
| FF | RUITS A | AND HORTICULTURAL TECI | HNOLOGY |
| 63 | 20556 | Ms. TANUSHREE SAHOO | EVALUATION OF GRAPE HYBRIDS AND THEIR PARENTS FOR MORPHO-PHYSICAL, NUTRACEUTICAL AND ANTIOXIDANT TRAITS |
| 64 | 20557 | KULDEEP SINGH | PERFORMANCE OF CITRUS ROOTSTOCK GENOTYPES AGAINST PHYTOPHTHORA NICOTIANAE |
| 65 | 20563 | KALU RAM | MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF PAPAYA GENOTYPES |
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| 66 | 20550 | YANKAPPA UPPAR | GENETIC AND MOLECULAR MARKER ANALYSIS OF THERMOSENSITIVE MALE STERILITY IN RICE |
| 67 | 20551 | PRAHLAD NARAYAN SHARMA | STUDIES OF FERTILITY RESTORATION OF VARIOUS MALE STERILE CYTOPLASMS AND GENETIC DIVERSITY OF ELITE RESTORERS AND MAINTAINERS IN PEARL MILLET [Pennisetum glaucum (L). R. Br.] |
| 68 | 20552 | NITISH RANJAN PRAKASH | EVALUATION OF CHICKPEA (Cicer arietinum L.) LINES FOR TOLERANCE TO HERBICIDE |
| 69 | 20553 | PREM CHAND GYANI | INHERITANCE AND MOLECULAR MAPPING OF LEAF RUST RESISTANCE IN SYNTHETIC HEXAPLOID WHEAT, 'SYNTHETIC 45' |
| 70 | • | SHYAM SUNDAR D | HAPLOTYPE ANALYSIS OF Phosphorus uptake 1 (Pup1) AND ITS RELATIONSHIP WITH PHOSPHORUS DEFICIENCY TOLERANCE IN RICE |
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| 72 | 2 20566 | AJAY KUMAR | NANOPARTICLE ASSISTED SACCHARIFICATION FOR BIOETHANOL PRODUCTION |
| 73 | 20567 | Ms. SWATI SAGAR | MOLECULAR ANALYSIS OF AMMONIA-OXIDISING MICROORGANISMS IN RICE MICROBIOME |
| 74 | 20568 | SHEKHAR KUMAR | FUNGAL MEDIATED SOLUBILIZATION OF ROCK PHOSPHATE USING AGRO-INDUSTRIAL RESIDUES |
| 75 | 20624 | DEEPAK KUMAR KOLI | IDENTIFICATION, CHARACTERIZATION AND EVALUATION OF NODULE ASSOCIATED BACTERIA FROM CHICKPEA |
| M | OLECL | JLAR BIOLOGY AND BIOTECH | NOLOGY |
| 76 | 20569 | Ms. PARICHITA PRIYADARSHINI | EXPRESSION PROFILING OF MIRNAS IN WILT- RESISTANT AND - SUSCEPTIBLE GENOTYPES OF CHICKPEA |
| 77 | 20570 | Ms. ALKA BHARATI | EXPRESSION ANALYSIS OF TaDof1 GENE UNDER NITROGEN DEPRIVED CONDITION IN CONTRASTING WHEAT GENOTYPES |
| 78 | 20571 | Ms. SHARANI CHOUDHURY | ALLELE MINING OF PANICLE BLAST 1 (Pb1) GENE IN INDIAN RICE ACCESSIONS |
| 79 | 20572 | Ms. SREESHMA N | ALLELE MINING FOR DREB2A GENE ASSOCIATED WITH DROUGHT TOLERANCE IN INDIAN RICE COLLECTIONS |
| 80 | 20573 | Ms. JYOTSANA TILGAM | COMBINATORIAL SILENCING OF ACETYLCHOLINE ESTERASE AND 20-HYDROXY ECDYSONE RECEPTOR GENES FOR GRAM POD BORER (Helicoverpa armigera) RESISTANCE |
| 81 | 20574 | AWAKALE PRAMOD ATMARAM | CLONING AND EXPRESSION ANALYSIS OF Brevis radix (BRX) GENE FROM DIPLOID SPECIES OF WHEAT EXHIBITING BETTER ROOT TRAITS UNDER OSMOTIC STRESS |
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| 85 | 20623 | DEVARAJA K.P. | COMPARATIVE INFECTIVITY OF ROOT-KNOT NEMATODE (Meloidogyne graminicola) IN DIRECT SEEDED RICE GENOTYPES (Oryza sativa L.) |
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| 86 | 20579 | KUWARDADRA SAHADEO INDALDAS | STRATEGY FOR MONITORING ADVENTITIOUS PRESENCE OF TRANSGENES IN MAIZE COLLECTIONS EMPLOYING DIFFERENT GM DIAGNOSTIC ASSAYS |
| 87 | 20580 | SHIVAM KUMAR | GENETIC DIVERSITY IN INDIAN COTTON (Gossypium hirsutum L.) CULTIVARS USING MICROSATELLITE MARKERS AND COMPARISON OF DIVERSITY PATTERNS |
| 88 | 20581 | HARI PRASATH S | VARIABILITY STUDIES IN MORPHOLOGICAL AND BIOCHEMICAL CHARACTERS OF SELECTED GERMPLASM LINES OF FABA BEAN (Vicia faba L.) |
| 89 | 20582 | SHYAM KUMAR | DETECTION OF BANANA (Musa spp.) VIRUSES In Vitro CULTURES AND STUDIES ON VIRUS ELIMINATION USING CRYOTHERAPY |

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| 91 | 20584 | Ms. RAMYASHREE DEVI G S | CHARACTERIZATION AND IDENTIFICATION OF SPECIES AND RACES OF Xanthomonas ASSOCIATED WITH BACTERIAL LEAF SPOT OF PEPPER |
| 92 | 20585 | Ms. VEENA K H | RESPONSE OF CANDIDATE PATHOGENICITY GENES OF Colletotrichum orbiculareinciting CUCUMBER ANTHRACNOSE TO OXIDATIVE STRESS AND PLANT PHENOLICS |
| 93 | 20586 | SUNIL KUMAR SUNANI | UNDERSTANDING THE SEED BORNE INFECTION OF Fusarium fujikuroi INCITING BAKANAE DISEASE OF RICE |
| 94 | 20587 | RUBIN DEBBARMA | POLYPHASIC TAXONOMY FOR SPECIES DELINEATION OF GENUS Penicillium |
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| 95 | 20588 | NITIN SHARMA | PHYSIOLOGICAL RESPONSE OF RICE GENOTYPES TO HIGH NIGHT TEMPERATURE |
| 96 | 20589 | Ms. SHAMIMA PARVEEN | SENESCENCE INDUCED IRON REMOBILIZATION IN BREAD AND DURUM WHEAT |
| 97 | 20590 | Ms. LAKSHMI RAJ | INTERACTIVE EFFECTS OF HIGH[CO2] AND TEMPERATURE ON microRNA MEDIATED PHOSPHORUS STARVATION TOLERANCE IN RICE |
| 98 | 20591 | MAHESH MEENA | IMAGE BASED PHENOTYPING OF CROP GROWTH IN WHEAT |
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| 104 | 20597 | RAVI BHUSHAN PRASAD | IMPACT OF HEAT STRESS ON SEED QUALITY AND ITS MITIGATION THROUGH SEED ENHANCEMENT IN WHEAT VARIETIES (Triticumaestivum) |
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| 106 | 20599 | DAMODAR DAS | STUDIES ON BIOCHEMICAL VARIABILITY AND SEED QUALITY PARAMETERS IN QUALITY INDIAN MUSTARD GENOTYPES |
| 107 | 20600 | SANJAY KUMAR | ASSESSMENT OF PHYSIOLOGICAL SEED QUALITY IN CAULIFLOWER AND RADISH SEED LOTS |

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| SC |)II SC | | POTENTIAL OF PLANT BASED BIO ADSORBENTS FOR HEAVY METAL REMOVAL FROM WASTEWATERS WATER PRODUCTIVITY AND YIELD ASSESSMENT OF RICE GROWN UNDER DIFFERENT METHODS OF ESTABLISHMENT AND NITROGEN LEVELS WATER BALANCE AND SIMULATION OF RICE PRODUCTIVITY IN CONSERVATION AGRICULTURE BASED DIRECT SEEDED RICE WATER BALANCE AND LEGUME PRODUCTIVITY UNDER DIFFERENT MOISTURE CONSERVATION PRACTIONS IN |
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| | 20601 | AMPEQUACIONAL AMPEQUACION AMPEQUACION AMPEQUACION AMPEQUACION AMPEQUACION AMPEGNACION AMPE | BASED CROPPING SYSTEMS IN TWO SOILS |
| | | | DYNAMICS OF SOIL ORGANIC CARBON AND AVAILABLE NUTRIENTS IN MAIZE BASED CROPPING SYSTEMS |
| | 20603 | CHIRANJEEV KUMAWAT | IMPACT OF RESIDUE MANAGEMENT ON PHOSPHORUS TRANSFORMATION UNDER MAIZE-WHEAT CROPPING |
| • | | ANIL KUMAR VERMA | AVAILABILITY AND UPTAKE OF METALS IN SLUDGE TREATED AND POLLUTED SOILS |
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| | 20555 | Ms. B VANLALNEIHI | OF GENOTIFES IN CAULIFI OWER /Brassian alara a |
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| | 20560 | JAYANTA JAMATIA | CHARACTERIZATION OF Citrulius SPECIES AND OFFICE |
| ٠. | | GURURAJ MATHPATI | STUDIES ON HAPLOIDISATION IN SHORT DAY ONION (Allium cepa L.) |
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| | • | RAGHUKUMAR A S | POTENTIAL OF PLANT BASED BIO ADSORBENTS FOR HEAVY METAL REMOVAL FROM WASTEWATERS |
| 117 2 | 20606 | VIKASH KUMAR | WATER PRODUCTIVITY AND YIELD ASSESSMENT OF RICE GROWN UNDER DIFFERENT METHODS OF |
| | | ALI MOHAMMAD | WATER BALANCE AND SIMULATION OF RICE PRODUCTIVITY IN CONSERVATION ACRICLULATION |
| 19 2 | 0620 | NAQIBULLAH | PLOCE PINECT SEEDED RICE |
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List of candidates who have successfully completed all the requirements including final viva-voce examination for the award of degree of Doctor of Philosophy as on 2911/2016

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| 1 | 10225 | NEERAJ KUMAR | PREPARATION OF NANO-FIPRONIL AND NANO-PRETILACHLOR AND THEIR BIO-EFFICACY EVALUATION |
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| 2 | 9774 | Ms. LISA MARIAM VARKEY | INVESTMENT AND POLICY IMPERATIVES FOR SUSTAINABLE DEVELOPMENT OF KUTTANAD WETLAND ECOSYSTEM (KWE) OF KERALA |
| 3 | 9779 | HARISH KUMAR K. | MARKETING AND PRICE BEHAVIOUR OF AND IMPACT OF MARKET REFORMS ON HORTICULTURAL COMMODITIES IN KARNATAKA |
| AG | RICUL | TURAL ENGINEERING | |
| 4 | 9627 | VARUN CHATURVEDI | MODELLING AND SIMULATION OF HAND-ARM VIBRATION OF OPERATOR IN POWER TILLER OPERATION |
| 5 | 9783 | PANDIRWAR ASHUTOSH PRADEEP | DESIGN AND DEVELOPMENT OF MECHANICAL TRANSPLANTER FOR ONION SEEDLINGS |
| 6 | 9928 | SHIDDANAGOUDA YADACHI | STUDIES ON THE EFFECTS OF ROTARY TILLAGE ON SOIL PHYSICAL PROPERTIES AND CROP RESPONSE |
| 7 | 10076 | PITTALA RAJAIAH | DESIGN AND DEVELOPMENT OF PRECISION PLANTER FOR DIRECT PADDY SEEDING |
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| 8 | 9939 | PANKAJ KUMAR SINHA | ASSESSMENT OF CAPACITY BUILDING PROGRAMMES OF RUDSETI FOR SELF-EMPLOYMENT AMONG RURAL YOUTH |
| 9 | 10242 | Ms. JAGRITI ROHIT | MAPPING AND FORECASTING OF COMPETENCIES FOR EXTENSIONISTS IN CHANGING AGRICULTURAL SCENARIO |
| 10 | 10243 | Ms. HEMA BALIWADA | FARMER-LED INNOVATIONS AND THEIR TECHNO- ECONOMIC FEASIBILITY FOR SCALING UP |
| 11 | 10247 | Ms. ANSHIDA BEEVI C.N. | AN ANALYTICAL STUDY ON JOB PERFORMANCE OF WOMEN EXTENSION PERSONNEL IN KERALA |
| 12 | 10366 | Ms. BUSHE LEKANG | AN ASSESSMENT OF THE EXPERIENTIAL LEARNING PROGRAMME OF INDIAN COUNCIL OF AGRICULTURAL RESEARCH FOR ENTREPRENEURIAL DEVELOPMENT |
| AG | RICUL | TURAL PHYSICS | |
| 13 | 10085 | BAPPA DAS | CHARACTERIZATION OF WATER -DEFICIT STRESS RESPONSE OF PLANTS THROUGH HYPERSPECTRAL REMOTE SENSING |
| AG | RICUL | TURAL STATISTICS | |
| 14 | | PRADIP BASAK | USE OF CALIBRATION APPROACH FOR ESTIMATION OF FINITE POPULATION REGRESSION COEFFICIENT INVOLVING TWO-STAGE SAMPLING DESIGN |
| 15 | 10257 | HIMADRI SHEKHAR ROY | STUDY OF NONLINEAR STATISTICAL MODELS FOR PEST POPULATION DYNAMICS IN NORTHERN REGION OF INDIA |

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| 16 | 10263 | RAKESH KUMAR VERMA | INTEGRATED NUTRIENT MANAGEMENT IN DIRECT SEEDED BASMATI RICE (ORYZA SATIVA L.)- BASED CROPPING SYSTEMS |
| 17 | 10365 | Ms. FIREHIWOT ENDALE MERGYA | CROP RESIDUE AND NITROGEN MANAGEMENT IN MAIZE(Zea mays L.) - WHEAT [Triticum aestivum (L.) emend. Fiori & Paol] CROPPING SYSTEMUNDER CONSERVATION AGRICULTURAL PRACTICES |
| ВЮ | OCHEN | MISTRY | |
| 18 | 9819 | M.S. SUJITHKUMAR | ELUCIDATION OF THE ROLE OF PHYTCSTEROLS IN DROUGHT TOLERANCE IN RICE (Oryza sativa L.) |
| 19 | 10269 | MANOJ KUMAR | ANTHOCYANINS AS INGREDIENT FOR FOOD INDUSTRY: STRATEGY FOR EXTRACTION, FUNCTIONAL CHARACTERIZATION AND ENHANCED STABILITY |
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| 20 | 9824 | ANIL KUMAR CHOLLA | STUDIES ON RESISTANCE MECHANISMS AND IDENTIFICATION OF MOLECULAR MARKER(S) LINKED TO Chilo Partellus (LEPIDOPTERA: PYRALIDAE) RESISTANCE IN MAIZE |
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| 21 | 10120 | FAYAZ AHMAD MALLA | METHANE ENRICHMENT IN BIOGAS USING SELECTIVE CHEMICAL SCAVENGERS AND MICROALGAE |
| 22 | 10367 | LARRY CHIKUKURA | IMPACT OF CLIMATE CHANGE AND WATER STRESS ON MUNG BEAN-WHEAT CROPPING SYSTEM |
| GE | ENETIC | CS CONTRACTOR | |
| 23 | 9681 | Ms. YADAV PRACHI SHRIPATRAO | INTERACTION AMONG WNT 4, WNT 6 AND WNT 10 SIGNALING GENES IN Drosophila melanogaster |
| 24 | 9974 | Ms. HARITHA BOLINEDI | GENETIC, MOLECULAR AND BIOCHEMICAL ANALYSIS OF BACKCROSS DERIVED TRANSGENIC GOLDEN RICE LINES IN THE BACKGROUND OF A MEGA RICE VARIETY SWARNA |
| 25 | 9975 | RANJITH KUMAR ELLUR | MARKER ASSISTED BACKCROSS BREEDING FOR INCORPORATION OF NOVEL BACTERIAL BLIGHT RESISTANCE gene Xa38 IN PUSA BASMATI 1121 |
| 26 | 10129 | ABDUL FIYAZ R. | QTL MAPPING FOR RESISTANCE TO BAKANAE DISEASE IN RICE (Oryza sativa L.) |
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| 28 | 9850 | Ms. FLEMINE XAVIER | INHERITANCE OF YIELD AND QUALITY TRAITS AND INTERSPECIFIC HYBRIDISATION IN OKRA (Abelmoschus esculentus (L.) MOENCH |
| 29 | 9992 | NARENDRA CHAUDHARY | STUDIES ON THE EFFECT OF GROWING ENVIRONMENT AND MEDIA COMPOSITION ON GROWTH, FLOWERING AND BULB PRODUCTION IN LIIIum |
| 30 | 9997 | KAMLESH KUMAR | DNA MARKER-BASED DIFFERENTIATION OF ZYGOTIC AND NUCELLAR SEEDLINGS AND IDENTIFICATION OF POLYMORPHIC MICROSATELLITE MARKERS AMONG PARENTAL MANGO GENOTYPES |
| 31 | 10002 | Ms. TSHERING LHAMU BHUTIA | GENETICS OF YIELD TRAITS AND DOWNY MILDEW RESISTANCE IN CUCUMBER (Cucumis sativus L.) |
| 32 | 10004 | MOHAMED IBRAHIM ABDELHAY FARAG | PHYSIOLOGICAL AND GENETIC STUDIES ON DROUGHT TOLERANCE AND GENERATION MEAN ANALYSIS FOR YIELD RELATED TRAITS IN CUCUMBER (Cucumis sativus L) |
| 33 | 10299 | SHIV LAL | IDENTIFICATION OF GENOMIC REGIONS FOR ALTERNATE BEARING AND FRUIT QUALITY TRAITS IN MANGO (Mangifera indica L.) |
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| 34 | 10059 | BHUPENDRA SINGH PANWAR | ISOLATION OF cry GENE(S) FROM Bacillus thuringiensis (BT) ISOLATES RECOVERED FROM DIVERSE HABITATS IN INDIA FOR THE CONTROL OF LEPIDOPTERAN INSECT PESTS |
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| 35 | 10020 | PRAKASH BANAKAR | CHARACTERIZATION OF KEY RNAI PATHWAY GENES AND TO ESTABLISH THE FUNCTIONAL SIGNIFICANCE OF FMRF AMIDE LIKE PEPTIDE GENES IN THE LIFE CYCLE OF Meloidogyne incognita |
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| 36 | 10032 | NEELAKANTH HIREMANI | VIRULENCE AND GENETIC DIVERSITY ANALYSIS OF Fusarium oxysporum f.sp. lentis ISOLATES CAUSING WILT IN LENTIL |
| 37 | 10330 | KARTAR SINGH | CROSS INFECTIVITY AND COMPARATIVE GENOMICS OF Bipolaris sorokiniana AND Bipolaris oryzae FOR CHARACTERIZATION OF PATHOGENICITY RELATED GENES IN WHEAT AND RICE |
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| 38 | 9884 | RAMESH, K V. | TRANSCRIPTOME ANALYSIS OF HIGH TEMPERATURE STRESS RESPONSE IN CONTRASTING RICE (Oryza sativa L.) GENOTYPES |
| 39 | 9886 | PRASHANTKUMAR S. HANJAGI | INTERACTIVE REGULATION OF NITROGEN, IRON AND ZINC USE EFFICIENCY IN WHEAT (Triticum aestivum L.) |
| 40 | 10034 | Ms. SHIVANI NAGAR | REGULATORY ROLE OF GIBBERELLIC ACID UNDER HIGH TEMPERATURE STRESS IN WHEAT (Triticum aestivum L.) |

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| 41 | 9740 | KALE SAKHARAM JAGAN | PARBOILING OF PUSA BASMATI 1121 FOR HIGHER RETENTION OF AMYLOSE CONTENT AND PROCESS MODELLING USING NEURAL NETWORK |
| 42 | 10040 | Ms. SHAMEENA BEEGUM P.P. | OPTIMIZATION OF PROCESSING TECHNIQUES FOR UTILIZATION OF WATERMELON (Citrullus lanatus) |
| 43 | 10041 | MURALI S. | ENCAPSULATION OF RICE BRAN OIL |
| 44 | 10182 | PANKAJ KUMAR KANNAUJIA | APPROACHES TO EXTEND SHELF-LIFE, MINIMIZE WATER LOSS, CHILLING INJURY AND STORAGE DISEASES IN SUMMER SQUASH (Cucurbita pepo L.) |
| 45 | 10184 | Ms. PATIL SHARMILA SURESH | IMPACT OF EXTRUSION PROCESSING ON SELECTED CEREALS AND LEGUMES: ANTIOXIDANT AND RHEOLOGICAL INSIGHTS FOR NEW PRODUCT DEVELOPMENT |
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| 46 | 10194 | RANJAN PAUL | INTERACTION OF SOIL NANOCLAY WITH PHOSPHATASE IN RELATION TO PHOSPHORUS MINERALIZATION |
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| 48 | 10353 | Ms. KIRTI SAURABH | NANOCLAY POLYMER COMPOSITES WITH BIODEGRADABLE POLYMERS FOR CONTROLLED RELEASE OF NITROGEN IN RICE AND WHEAT CROPS |
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| 49 | 9907 | SUNIL KUMAR | EFFECT OF CONSERVATION AGRICULTURE PRACTICES AND IRRIGATION SCHEDULING ON WATER USE AND PRODUCTIVITY OF MAIZE-WHEAT CROPPING SYSTEM |
| 50 | 10369 | DEFO CELESTIN | MODELLING HEAVY METAL ADSORPTION AND PLANT UPTAKE IN VERTICAL SUB-SURFACE FLOW SEWAGE TREATMENT WETLANDS OF INDIAN AGRICULTURAL RESEARCH INSTITUTE |
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Allocation of seats for Ph.D. programme for the Academic Year 2017-18

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| 1. | AGRICULTURAL CHEMICALS | 3 | 1 | 2 ′ | | 1 | - 6 |
| 2. | AGRICULTURAL ECONOMICS | 2 | | 1 1 | 1 | | - 5 |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 1 | | | | 1 | 1 1 |
| 4 | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | 1 | 1 | | .† | 1 4 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 2 | 1 | 1 | | 1 | - 3 |
| 6. - | AGRICULTURAL EXTENSION | 3 | 1 | 1 | 1 | (1) | |
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| 8. | AGRICULTURAL STATISTICS | 4 | 2 | 1 | 1 | (1) | |
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| 10. | BICCHAMSTRY | 3 | 1 | + | - | | 5 |
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| 16. | FRUIT SCIENCE | 2 | 2 | 1 | | - | 5 |
| 17. | GENETICS AND PLANT BREEDING | 4 | 4 | _ | | /11 | |
| 18. | MICROBIOLOGY | 2 | 2 | | 1 | (1) | |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 4 | 2 | | - 1 | • | 6 |
| 20. | NEMATOLOGY | 2 | 2 | · | | | 7 |
| 21. | PLANT GENETIC RESOURCES | 3 | 1 | 1 | | • | 4 5 |
| 22. | PLANT PATHOLOGY | 4 | 2 | - | 4 | (A) | |
| 23. | PLANT PHYSICLOGY | 3 | 2 | 2 | 1 | (1) | 9 |
| 24. | POST HARMEST TECH. (PHT of Horticultural Crops) | 2 | | - | - | .g •• | 6 |
| 5. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | - 4 | 1 | | | - | 3 |
| 6. | SEED SCIENCE AND TECHNOLOGY | - ; | | - | | | 2 |
| 7. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | <u>3</u> | 2 2 | | | 745 | 6 |
| 8. | VEGETABLE SCIENCE | | | | -1 | (1) | 9 |
| 9. | WATER SCIENCE AND TECHNOLOGY | 2 | 2 | | _ | | 5 |
| | | 3 | 2 | | | - | 5 |
| . C | Total-A | 79 | 42 | 23 | 12 | (5) | 156 |
| | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | | т. | | | | |
| | AGRICULTURAL ENGG. (Farm Power & Equipment) | 3 | _1 | 1 | _1 | (1) | 6 |
| · | | 3 | 2 | 1 | | | 6 |
| . | IR, Bangalore | 6 | 3 | 2 | 1 | <u>(1)</u> | 12 |
| · III | | | | | | | |
| | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 2 | 1 | - | | -[| 3 |
| | FRUIT SCIENCE | 2 | _2 | | | | 4 |
| · | POST HARVEST TECH. (PHT of Horticultural Crops) | 2 | _1 | 1 | - | [| 4 |
| | VEGETABLE SCIENCE | . 2 | 1 | 1 | 1 | (1) | 5 |
| | Total-C | 8 | 5 | 2 | | (1) | 16 |
| | Grand Total | 93 | 50 | 27 | 14 | | 184 |

| SI. | No. Discipline | GEN | ОВС | SC | ST | РН | Tota |
|------|--|-----------------|-----------------|--------------|-----------------|---------------|--------|
| A. | IARI, New Delhi | * | | | 1 | 4 | I. Arg |
| 1. | AGRICULTURAL CHEMICALS | 2 | 1 | 1 | Π | | |
| 2. | AGRICULTURAL ECONOMICS | 3 | 1 | | <u> </u> | + | |
| 3. | AGRICULTURAL ENGG. (Agricultural Processing & Structure) | 2 | | + | <u> </u> | - | |
| 4. | AGRICULTURAL ENGG. (Farm Power & Equipment) | 2 | 1 | \vdash | - | - | - 2 |
| 5. | AGRICULTURAL ENGG. (Soil & Water Conservation Engineering) | 2 | | - | - - | - | 3 |
| 6. | AGRICULTURAL EXTENSION | 2 | | 1 | | 1 | 3 |
| 7. | AGRICULTURAL PHYSICS | 3 | 2 | | 1 | (1) | 6 |
| 8. | AGRICULTURAL STATISTICS | | | <u> </u> | | - | 4 |
| 9. | AGRONOMY | 2 | 2 | - | 1 | 1. | 7 |
| 10. | BIOCHEMISTRY | 2 | 1 | - | 1 | (1) | 5 |
| 111. | BIOINFORMATICS | 2 | . 1 | - | 1 | | 4 |
| 12. | | 2 | 1 | | 1 | (1) | 5 |
| 13. | COMPUTER APPLICATION | 3 | 2 | | - | _ | 6 |
| _ | ENTOMOLOGY | 3 | 1 1 | | | - | 5 |
| 14. | ENVIRONMENTAL SCIENCES | 3 | 2 | 1 | - | | 6 |
| 15. | FLORICULTURE AND LANDSCAPING ARCHITECTURE | 3 | - | - | - | - | 3 |
| 16. | FRUIT SCIENCE | 2 | 1 | - | 1 | , | 4 |
| 17. | GENETICS AND PLANT BREEDING | 3 | 2 | 1 | - | - | 6 |
| 18. | MICROBIOLOGY | 2 | 2 | 1 | _ | - | 5 |
| 19. | MOLECULAR BIOLOGY AND BIOTECHNOLOGY | 2 | 2 | 2 | 1 | (1) | 7 |
| 20. | NEMATOLOGY | 2 | 1 | 1 | | ` ' | Ā |
| 21. | PLANT GENETIC RESOURCES | 2 | 1 | 1 | | | 4 |
| 22. | PLANT PATHOLOGY | 4 | 2 | 1 | 1 | | 8 |
| 23. | PLANT PHYSIOLOGY | 2 | 2 | 1 | | | 5 |
| 24. | POST HARVEST TECH. (PHT of Horticultural Crops) | 1 | | | - | $\overline{}$ | 3 |
| 25. | POST HARVEST TECH. (Post Harvest Engineering & Technology) | 1 | | | | | |
| 26. | SEED SCIENCE AND TECHNOLOGY | 3 | • | | -1 | | |
| 27. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 3 | 2 | -1 | -1 | | 6 |
| 28. | VEGETABLE SCIENCE | | 1 | _; | | | 4 |
| 29. | WATER SCIENCE AND TECHNOLOGY | _2 | 2 | _1 | | - | 5 |
| 20. | | 2 | 1 | | _1 | | 4 |
| B. | Total-A | 67 | 36 | 20 | 10 | (5) | 133 |
| _ | IARI, Assam | | | | ٠. | • | |
| a. | AGRONOMY | 1 | 1 | | | - | 2 |
| b. | GENETICS AND PLANT BREEDING | 2 | 1 | - | - | - | 3 |
| C. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | 1 | - | 1 | - | - | 2 |
| d. | VEGETABLE SCIENCE | 1 | 1 | | - | - | |
| е | WATER SCIENCE AND TECHNOLOGY | 1 | - | | .1 | - | 2 |
| | Total-B | 6 | 3 | 1 | 1 | | 11 |
| C. | IARI, Jharkhand | | | | | | \neg |
| a. | AGRONOMY | 1 | | 1 | Ţ | T | 2 |
| b. | GENETICS AND PLANT BREEDING | - | 1 | 1 | _ | \dashv | 3 |
| C. | SOIL SCIENCE AND AGRICULTURAL CHEMISTRY | | | + | 1 | - | 2 |
| d. | VEGETABLE SCIENCE | - ¦ | | ᆛ | -+ | - | |
| e. | WATER SCIENCE AND TECHNOLOGY | | - | 4 | - | | 2 |
| | | - ;} | | _ | + | - | 2 |
| | Total-C | 5 | 3 | 2 | 1 | | 11 |
| | Grand Total | 78 | 42 | 23 | 12 | (5) | 155 |

Qualification for Admission to M.Sc./M. Tech. and Ph.D. degree programme in different discipline at IARI, New Delhi during 2017-18 session

| ; | 10. | .9 | .∞ | 7. | 6. | 5. | . 4 | ω | 2. | - | No. | S |
|--|---|--|---|--|--|---|---|--|--|--|--|--------------------|
| Entomology | Computer Application | Bioinformatics | Biochemistry | Agronomy | Agricultural Statistics | Agricultural Physics | Agricultural Extension | Agricultural Engineering | Agricultural Economics | Agricultural Chemicals | | Discipline |
| B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry / Agroforestry / Sericulture | Agriculture / Computer Science / Agricultural Engineering, B.Sc. (Hort.), Veterinary Science, B.Sc. (Forestry) or B.Sc. with Maths / Statistics / Physics / Biology | B.Sc. in any discipline of Science | B.Sc. or B.Sc. in Agriculture / Horticulture | Agriculture | B.Sc. or B.Sc. in Agriculture / Horticulture / Dairy Science/Vet. Science/Animal Husbandry/Fisheries | B.Sc. or B.Sc. in Agriculture / Horticulture | B.Sc. or B.Sc. in Agriculture / Dairy Science / Veterinary Science / Animal Husbandry /Fisheries | Agricultural Engineering / B.Tech / B.E. | Agriculture / Dairy Science / Veterinary Science / Animal Husbandry / Fisheries | Agriculture / Horticulture / Forestry | Bachelor's Degree in | For M.Sc./ M.Tech. |
| Entomology / Agricultural Entomology / Sericulture/Apiculture /Zoology or Plant Protection with Entomology as specialization | M.Sc./MCA/M.Tech./M.E. in Computer Science/ Computer Application/ Computer Engineering/ Computer Science Engineering/ Information Technology/Agril informatics | M.Sc./M.Sc.(Ag)/M.Tech./M.E. in Bioinformatics/ OR Molecular Biology/ Biotechnology / Computer Sciences/ Computer Application/ Agri Informatics/Agricultural Statistics/ Statistics/ Mathematical Statistics/ Bio-Statistics with Bioinformatics as a subject in their Post- Graduation degree | Biochemistry / Agricultural Biochemistry / Agricultural Chemistry / Molecular Biology and / OR Biotechnology / Chemistry with Organic Chemistry as a special subject/ Plant Physiology/Biophysics | Agronomy / Water Science and Technology/Water Management | Agricultural Statistics / Statistics / Mathematical Statics / Bio-Statistics | Agricultural Physics / Soil Science / Agricultural Meteorology / Meteorology / Physics / Biophysics / Water Science and Technology/ Geo-informatics/Remote Sensing/Geo-physics/ Environmental Science | Agricultural Extension / Extension Education / Dairy Extension / Fisheries Extension / Livestock Extension/ Home Science Extension/Agricultural Extension and Communication/ Veterinary and Animal Husbandry Extension/Rural Development/Rural Management | Agricultural Engineering / Dairy Engineering / Water Science and Technology; M.Sc. in Dairy Engineering and M.Tech. in PHT Engg./Farm Engg./Biochemical Engg. are eligible for Ph.D. in Agricultural Processing and Structures (Pre-requisite; B.Sc. / B.Tech. / B.E. in Agricultural Engineering) | Agricultural Economics / Dairy Economics/ Livestock Economics/ Agricultural Marketing and Cooperation/ Fisheries Economics/Environmental Economics | Agricultural Chemicals / Soil Science and Agricultural Chemistry / Environmental Science / Chemistry | Proposed qualification - M.Sc./M.Sc.(Ag.)/ M.Tech./M.E. in | For Ph.D. |

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|-----|---|--|--|
| No. | Discipline | Bachelor's Degree in | Proposed qualification - M.Sc./M.Sc.(Ag.)/ M.Tech./M.E. in |
| 12. | Environmental Sciences | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry / Agro Forestry Agricultural Engineering | M.Sc./M.Sc.(Ag.)/M.Tech./M.E. in Agricultural Sciences/ Environmental Sciences/ Physical Sciences/ Life Sciences/ Chemical Sciences |
| 13. | Floriculture and Landscape Architecture | Horticulture / Agriculture | Horticulture or Agriculture with major in Floriculture / Floriculture and Landscaping/Floriculture and Landscape Architecture/Post Harvest Technology of Horticultural Crops / Genetics and / OR Plant Breeding / Plant Genetic Resources / Plant Physiology / Crop Physiology with specialisation in Floriculture |
| 14. | Fruit Science | Horticulture / Agriculture | Horticulture or Agriculture with major in Fruit Science, Pomology / Genetics and / OR Plant Breeding / Plant Genetic Resources / Plant Physiology with specialisation in any of above discipline of Fruit Science |
| 15. | Genetics | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry | Genetics and / OR Plant Breeding / Plant Genetic Resources / Agril. Botany/any other branch of Biological Sciences with Plant Genetics and / OR Plant Breeding as a subject |
| 16. | Microbiology | B.Sc. or B.Sc. in Agriculture / Microbiology / Horticulture | Microbiology / Agricultural Microbiology/Environmental Microbiology/Industrial Microbiology / Soil Science and / OR Agricultural Chemistry / Genetics / Botany / Agricultural Botany / Molecular Biology and / OR Biotechnology / Relevant Life Sciences / Biochemistry with Microbiology as a special subject |
| 17. | Molecular Biology and Biotechnology | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry / Sericulture / Biotechnology | Molecular Biology and / OR Biotechnology / Biochemistry / Plant Physiology/Genetic Engg./Agricultural Biochemistry / Botany / Agricultural. Botany / Genetics and / OR Plant Breeding / Microbiology / Agricultural Microbiology / Plant Genetic Resources/Bioinformatics/Relevant Life Sciences. |
| 18. | Nematology | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry /Biotechnology | Nematology / Entomology / Zoology / Botany / Mycology and / OR Plant Pathology / Relevant Life Sciences / Molecular Biology and / OR Biotechnology / Plant Protection with Nematology as specialization/ Agricultural Entomology/ Agricultural Microbiology/ Helminthology with Nematology |
| 19. | Plant Genetic Resources | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry | Plant Genetic Resources / Genetics / Plant Breeding / Agricultural Botany / Horticulture / Plant Biotechnology / Seed Science & Technology / Plant Physiology / any other branch of Biological Sciences with specialization in these subjects and/or Plant Taxonomy / Economic Botany/Biotechnology |
| 20. | Plant Pathology | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry | Mycology and/OR Plant Pathology / Botany / Agricultural Botany / Molecular Biology and/OR Biotechnology / Genetics / Microbiology / Seed Science and Technology / Biochemistry / Plant Genetic Resources / Plant Protection / Relevant Life Sciences with Mycology and Plant Pathology as specialization |
| 21. | Plant Physiology | B.Sc. or B.Sc. in Agriculture / Horticulture | Plant Physiology / Crop Physiology/Horticulture / Botany / Agricultural Botany / Biochemistry / Relevant Life Sciences / Molecular Biology and/OR Biotechnology / Plant Genetic Resources |

| S | Discipline | For M.Sc./ M.Tech. | For Ph.D. |
|-----|--|---|---|
| No. | | Bachelor's Degree in | Proposed qualification - M.Sc./M.Sc.(Ag.)/ M.Tech./M.F. in |
| 22. | Post Harvest Technology | Agriculture / Horticulture / Food Science / Food Science and Technology / B.Tech. / | e) For Post Harvest Technology of Horticultural Crops: Horticulture / Post Harvest Technology / Food Science & Technology/Microbiology/Biochemistry |
| | | Engineering / Biochemical Engineering / Chemical Engineering | f) For Post Harvest Engineering and Technology: Agricultural Processing and Structures / Food Engineering / Post Harvest Engineering / Biochemical Engineering |
| 23. | Seed Science and Technology | B.Sc. or B.Sc. in Agriculture / Horticulture / Forestry | Seed Science and Technology OR Genetics and/OR Plant Breeding / Plant Physiology OR Crop Physiology / Botany OR Agricultural Botany / Plant Genetic Resources/ Mycology OR Plant Pathology OR Entomology OR Nematology with specification in Seed Science |
| 24. | Soil Science and Agricultural Chemistry | B.Sc. or B.Sc. in Agriculture / Horticulture | Soil Science and/OR Agricultural Chemistry / Env. Sciences/Agril. Microbiology/Chemistry / Agricultural Physics with specialization in Soil Physics |
| 25. | Vegetable Science | Horticulture / Agriculture | M.Sc. in Horticulture or Agriculture with major in Olericulture/ Vegetable Science/ Vegetable Breeding/Post Harvest Technology of Vegetable Crops/ Genetics and/or Plant Breeding/ Plant Genetic Resources with specialisation in vegetable crops |
| 26. | Water Science and Technology | Agriculture / Horticulture / Agricultural Engineering / B.Tech. / B.E. (Agril. Engineering) | Water Science and Technology / Agricultural Physics / Soil Science and Agricultural Chemistry / Mathematics (with Physical Sciences at Bachelors Degree Level) / M.Tech. in Agril. Engineering / Irrigation Engg. / Civil Engineering |

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