

डॉ सीमा जग्गी
सहायक महानिदेशक (मानव संसाधन विकास)

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कृषि शिक्षा प्रभाग
भारतीय कृषि अनुसंधान परिषद
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Agricultural Education Division
Indian Council of Agricultural Research
Krishi Anusandhan Bhawan - II, PUSA, New Delhi - 110 012

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Date: June 6, 2025

To,

1. Directors of ICAR Institutes
2. Vice Chancellors of Agricultural Universities (AUs-comprising of SAUs/CAU/ICAR DUs/CUs having a faculty of Agriculture)

Subject: Organisation of Summer/Winter Schools and Short Courses - Inviting Proposals for the Year 2025-26.

Sir/Madam,

As the HRD initiative, the Council supports the organization of Summer/Winter Schools and Short Courses in different disciplines of agriculture and allied sciences in Agricultural Universities (AUs) and ICAR Institutes. The main objective of Summer/Winter School and Short Course is to provide an opportunity to teachers, research workers and specialists working in AUs and ICAR Institutes to update their knowledge and skills in order to keep abreast with the latest developments in the specialized/emerging areas of agricultural and allied sciences. These Summer/Winter Schools and Short Courses also cover specialized new techniques, research methodology and teaching methods and materials.

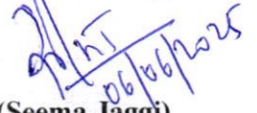
For the conduct of Summer/Winter Schools and Short Courses, availability of expertise, good laboratory/experimental facilities, adequate number of senior faculty members and research base in the concerned field is necessary. Accordingly, proposals are invited on sharply focused topic of inter-disciplinary nature within the broad disciplinary framework.

Proposals from ICAR and AU-System are invited at email adg.hrd.applications@gmail.com by **June 30, 2025**, clearly mentioning the Course and University/Institute name in the subject line of the email and also send the hard copy of the proposal to **"ADG(HRD), Agricultural Education Division, KAB-II, Pusa Campus, New Delhi-110012."**

You are requested to forward a maximum of two proposals from your Institute/University. Each proposal can have one Course Director and a maximum of two Co-Directors.

For consideration of the proposals, please ensure that the statement of expenditure (ICAR Institute)/audit utilization of all the previous such training programmes conducted by your organization have been submitted to the ICAR.

Yours faithfully,


(Seema Jaggi)

- Encl.:** i) Proforma for Proposal.
ii) Suggestive list of topics.
iii) Guidelines of Summer/Winter School & Short Course.

**AGRICULTURAL EDUCATION DIVISION
INDIAN COUNCIL OF AGRICULTURAL RESEARCH, NEW DELHI**

**Proforma for Submitting Proposal for Organization of Summer/Winter School and Short Courses
in Frontier and Specialized Areas of Agriculture and Allied Sciences
(2025-26)**

1. Topic of Summer-Winter School/Short Course.
2. Serial number of suggestive topic/subject area in which the topic falls:
3. Venue with full postal/e-mail address and office phone/fax numbers:
4. Tentative dates (From – to):
5. Eligibility qualification for the participants of the Training programme
 - i) Master's Degree and
 - ii) Working not below the rank of Assistant Professor and equivalent in the concerned subject under Agricultural University/ICAR Institute.
6. Information regarding proposed Director of Summer/Winter School and Short Courses, (enclose bio-data clearly bringing out the specific qualification, experience and scientific contribution of the Course Director in the proposed topic):
7. Faculty strength in Department (Scientist, Sr. Scientist, Principal Scientist or equivalent):
8. Information regarding other academic staff of the host Institute who are likely to be used as resource persons:
9. Specific facilities available for conducting the Summer/Winter School and Short Courses such as laboratory equipments/instruments, research farm, library, classroom guesthouse etc.:
10. Programmes/Projects and achievements in the area of special topic proposed for Summer/Winter School and Short Courses:
11. Schedule of daily lectures/practical topics to be covered and name of the faculty proposed to be engaged during the SWS/Short Course:

| S.No. | Date/Day | Topic of lecture/ Practical | Name and Designation of Speaker |
|-------|----------|-----------------------------|------------------------------------|
| | | | |

12. Name of the Summer/Winter School and Short Courses organized, if any during the last three years, Whether UC/AUC was sent:
13. Signature of the Director of the Summer/Winter School and Short Courses (With Official Seal):
14. Remark and recommendation by the head of the host institution for organization of the Summer/ Winter School and Short Courses:
15. Signature of the Head of the Institution (With Official Seal):

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Suggestive List of Topics for ICAR's Summer/Winter School and Short Course for the Year 2025-26

| S.No | Topic/Subject Area | S.No | Topic/Subject Area |
|------|--|------|--|
| 1. | Advances in micro-irrigation for improving water use efficiency and productivity | 35. | Nano-technology and plant disease management |
| 2. | Advances in molecular epidemiology | 36. | Pest risk analysis research as support to domestic quarantine system |
| 3. | Agri-business, market intelligence and block chain | 37. | Phenotyping and phenomics in agriculture |
| 4. | Advances in fish health management for enhancing fish productivity | 38. | Physiological approaches to phytoremediation: Advances, impact and prospects |
| 5. | Agro-forestry options for livelihood and diversification | 39. | Power generation from new and renewable energy sources |
| 6. | Approaches for doubling farmer's income | 40. | Processing value addition and waste utilization technologies for natural fibres |
| 7. | New extension education ARYA, Farmers FIRST and MGMT | 41. | Recent development in conservation technology in animal genetic resources |
| 8. | Antimicrobial resistance to antibiotics in animals and its impact on human health | 42. | Recent developments in organic production systems and natural farming |
| 9. | Bio processing/ food processing / packaging/ product marketing | 43. | Recent developments in climate change and watershed hydrology |
| 10. | Bio-fortification of staple food crops | 44. | Secondary agriculture |
| 11. | Culturing techniques for bio-fertilizers and bio-pesticides | 45. | Stem cell technologies for clinical application |
| 12. | Conservation of indigenous breeds in their respective tracts | 46. | CAD and CAM for designing of agricultural machinery |
| 13. | Climate change adaptation and mitigation strategies through agroforestry system | 47. | Precision agriculture |
| 14. | Communication and management skills for extensional professionals | 48. | Agricultural education, entrepreneurship and skill development |
| 15. | Emergence of new disease in globalized world | 49. | Advanced statistical tools and measures for agriculture research |
| 16. | Enhancing water productivity in scarcity zones | 50. | Bio-safety, bio-security and intellectual property rights related to PGR |
| 17. | Entrepreneurship development through agro-processing centers | 51. | Proteomics in crop plants |
| 18. | Environmental pollutants and food quality standards | 52. | Handling next generation sequencing based transcriptome and genome data of plants |
| 19. | Exploitation of underutilized vegetables/fruits | 53. | Biotechnological and conventional tools for biotic and abiotic stress management |
| 20. | Farmers empowerment and entrepreneurial development | 54. | Allele mining and bioinformatics in fisheries for trait improvement and conservation |
| 21. | Gender mainstreaming and gender budgeting | 55. | Bio-active compounds from marine organisms: A wealth of novelties and opportunities |
| 22. | HACCP, value addition and quality standard in fish products | 56. | Remote sensing and GIS |
| 23. | Increasing fish production through reservoir fisheries and cage-culture | 57. | Recent advances in aquaculture |
| 24. | Impact of climate change on production of livestock and poultry | 58. | Responsible fisheries management for sustainable development |
| 25. | Spatial decision support systems for watershed management | 59. | Health foods |
| 26. | Innovations in educational technology | 60. | Crop diversification and integrated farming |
| 27. | ICT in agriculture | 61. | Advances in renewable energy sources |
| 28. | Renewable energy for environmental protection and energy conservation | 62. | Present state of art technology for processing and value addition |
| 29. | Technological advances to minimize post-harvest losses in agriculture | 63. | Digital solutions for enhancing agriculture output |
| 30. | Methods and techniques for testing and evaluation of safety of food and agricultural products for human consumptions | 64. | Artificial intelligence and machine learning in agriculture |
| 31. | Insecticide resistance management strategies | 65. | Big data analysis |
| 32. | Machinery for conservation agriculture and crop residue management. | 66. | Smart agriculture and way forward: New Age Technologies in Agriculture |
| 33. | Molecular approaches in disease diagnostics and vaccines | 67. | Conservation agriculture and specialty agriculture |
| 34. | Molecular mapping of genomes and genes/QTL | | |

Note: Proposals can also be submitted on other contemporary/ cutting edge technologies/upcoming/ advanced topics