



भारतीय कृषि अनुसंधान परिषद
कृषि अनुसंधान भवन-II, पूसा, नई दिल्ली - 1100012
Indian Council of Agricultural Research
Krishi Anusandhan-II Bhawan, Pusa, New Delhi – 110 0012

Dr. M.K. Agnihotri
Assistant Director General (HRD)-Acting

F.No. Agril. Edn. 5/1/2019-HRD
Date: 9th December, 2019

To,

All the Vice Chancellor's of Agricultural Universities (AUs-comprising of SAUs/CAUs/ICAR DUs/CUs having faculty of Agriculture)

All the Directors of ICAR Institutes

Subject: Organization of Summer/Winter School and Short Courses - Inviting Proposals for the year 2020-21

Sir/Madam,

As the HRD initiative, the Council supports the organization of Summer/Winter School and Short Courses in different disciplines of agriculture and allied science in Agriculture Universities (AUs) and ICAR Institutes. The main objective of Summer/Winter School and Short Courses 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 science. These Summer/Winter School and Short Courses also cover specialized new techniques, research methodology and teaching methods and materials.

For the conduct of Summer/Winter School 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 within the board disciplinary framework. A suggestive list of topic that may receive priority consideration is annexed.

Applicants from ICAR and AU-System need to send their proposals online through CBP Vortal of ICAR Accessible on any of following links:

- i. <http://cbp.icar.gov.in>
- ii. 'Capacity Building Program' link available on ICAR portal <http://www.icar.gov.in>

To submit proposals, strictly follow the link 'Guidelines for CAFT, Summer/Winter School and Short Courses' given at the homepage of the CBP Vortal. The last date of submitting the proposal online is **15th January, 2020.**

Further, applicants need to download signed and approved copy of proposal submitted online on the CBP Vortal and send by post (in duplicate) to the undersigned so as to reach this office latest by **22nd January, 2020.**

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

Yours faithfully,

(M.K. Agnihotri)

Proforma for submitting proposal (5 copies) for organization of Summer/Winter School and Short Courses in frontier and specialized areas of agriculture and allied sciences (2020-21)

1. Topic of Summer/Winter School and 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/I.C.A.R. 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 Coordinator in the proposed topic):
7. Faculty strength in Department (Assistant Professor, Associate Professor and 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:**

Sl.No.	Date/Day	Topic of lecture/Practical	Name & 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):



EDUCATION DIVISION, INDIAN COUNCIL OF AGRICULTURAL, RESEARCH, NEW DELHI
SUGGESTIVE LIST OF TOPIC FOR ICAR's SUMMER/WINTER SCHOOL AND SHORT COURSE FOR THE YEAR 2020-21

S.No	Topic/Subject Area	S.No	Topic/Subject Area
1.	Advances in Micro-irrigation for improving water use efficiency and productivity	34.	Molecular mapping of genomes and genes/QTL
2.	Advances in molecular epidemiology	35.	Nano-technology and plant disease management
3.	Agri-business and market intelligence	36.	Pest risk analysis research as support to domestic quarantine system
4.	Advances in fish health management for enhancing fish productivity	37.	Phenotyping and Phonemics in Agriculture
5.	Agroforestry options for livelihood and diversification	38.	Physiological approaches to phytoremediation: advances, impact and prospects
6.	Approaches for doubling Farmer's income	39.	Power generation from New and Renewable Energy sources
7.	New Extension Education ARYA, Formers FIRST & MGMG	40.	Processing value addition and waste utilization technologies for natural fibres
8.	Antimicrobial resistance to antibiotics in animals and its impact on human health	41.	Recent development in conservation technology in Animal Genetic Resources
9.	Bio processing/food processing / packaging/product marketing	42.	Recent developments in organic production systems
10.	Bio-fortification of staple food crops	43.	Recent developments in climate change and watershed hydrology
11.	Culturing techniques for bio-fertilizers and bio-pesticides	44.	Secondary Agriculture
12.	Conservation of indigenous breeds in their respective tracts	45.	Stem cell technologies for clinical application
13.	Climate change adaptation and mitigation strategies through agroforestry system	46.	CAD & CAM for designing of agricultural machinery
14.	Communication and management skills for extensional professionals	47.	Precision Agriculture
15.	Emergence of new disease in globalized world	48.	Agricultural Education, Entrepreneurship and skill development
16.	Enhancing water productivity in scarcity zones	49.	Agricultural statistical tools and measures
17.	Entrepreneurship development through agro-processing centers	50.	Bio-safety, bio security and intellectual property rights related to PGR
18.	Environmental pollutants & food quality standards	51.	Proteomics in Crop Plants
19.	Exploitation of underutilized vegetables/fruits	52.	Handling Next generation Sequencing Based Transcriptome and Genome data of plants
20.	Farmers empowerment and entrepreneurial development	53.	Biotechnological and conventional tools for biotic and abiotic stress management in sugarcane
21.	Gender mainstreaming and gender budgeting	54.	Allele mining and bioinformatics in fisheries for trait improvement and conservation
22.	HACCP, value addition & quality standard in fish products	55.	Bio-active compounds from Marine organisms: A wealth of novelties and opportunities
23.	Increasing fish production through reservoir fisheries and cage-culture	56.	GIS and remote sensing
24.	Impact of climate change on production of livestock and poultry	57.	Recent advances in inland and marine fisheries culture and capture technologies
25.	Spatial Decision support systems for Watershed Management	58.	Health foods
26.	Innovations in educational technology	59.	Minimizing Post-Harvest Crop losses
27.	ICT in Agriculture	60.	Advance in Renewable Energy Sources
28.	Renewable Energy for Environmental Protection and Energy Conservation	61.	Present State Art technology for processing, Value addition
29.	Technological advances to minimize post-harvest losses and generate wealth out of waste in fisheries	62.	Digital solutions for enhancing agriculture output
30.	Methods and techniques for testing and evaluation of safety of food and agricultural products for human consumptions	63.	Artificial intelligence and machine learning
31.	Insecticide resistance management strategies	64.	Big data Analyses
32.	Machinery for conservation agriculture and crop residue management.	65.	Smart Agriculture & way forward
33.	Molecular approaches in disease diagnostics and vaccines	66.	Conversation Agriculture and Specialty Agriculture

*Note: Proposals can also be submitted on other contemporary/ upcoming/ cutting edge technologies.