भारतीय कृषि अनुसंधान परिषद
कृषि अनुसंधान भवन– II, पूसा, नई दिल्ली–110 012
INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Krishi Anusandhan Bhavan - II, Pusa, New Delhi – 110012

Dr. M.B. Chetti
Asstt. Director General (HRD)

F. NO. EDN. 5/120/2016-HRD
Dated 28 .11.2016

To,
All the Vice Chancellors of Agriculture Universities (AUs-comprising of SAUs/CAU/ICAR DUs/ CUs having faculty of Agriculture)/All the Directors of ICAR Institutes

Subject: *Organization of Summer/Winter Schools and Short Courses-Inviting Proposals for the year 2017-2018*

Sir/Madam,

As an 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 Schools and Short Courses is to provide an in-service 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 agriculture 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, guest house availability, adequate number of senior faculty members and research base in the concerned field is necessary. Accordingly, proposals are invited on sharply focused topics of inter-disciplinary subject within the broad disciplinary framework. A suggestive list of topics that may receive priority consideration is annexed.

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

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

To submit proposals, strictly follow the link '**Guidelines for CAFT, Summer/Winter Schools & Short Courses**' given at the home page of the CBP Vortal. The last date of submitting the training proposal online is **23rd December, 2016.**

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 **30th December, 2016. You are requested not to recommend more than four training proposals from your Organization.**

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

Yours faithfully,

(M.B. Chetti)

Phones: 011-25843635 (O), Tele Fax: 011-25840851. e-mail: adghrd1.icar@gmail.com

Proforma for submitting proposal (5 copies) on organization of Summer/Winter Schools and Short Courses in frontier and specialized areas of agriculture and allied sciences (2017-2018)

1. Topic of Summer/Winter School/ Short Course:

2. Serial number of suggestive topics/ subject area in which the topic falls:

3. Venue with full postal/e-mail address and office phone/fax/Mobile numbers:

4. Tentative dates (From – to):

5. Eligibility qualifications for the participants of the Summer/Winter School/ShortCourse

   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 under NARES system.

6. Information regarding proposed Director of Summer/Winter School/ Short Course (enclose bio-data clearly bringing out the specific qualifications, experience and scientific contribution of the Director Summer /Winter School / Short Course in the proposed topic):

7. Faculty Staff 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/Short Course such as laboratory equipments/instruments, research farm, library, classroom, guesthouse etc.:

10. Teaching/Research/Extension Education achievements of the Department in the proposed subject of Summer/Winter School /Short Course:

11. Programmes/Projects and achievements in the area of special topic proposed for Summer/Winter School/ Short Course:

12. 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 the faculty

13. Name of the Summer/Winter School/Short Course organized, if any **during the last three years:**

14. Signature of the Director of the Summer/Winter School/Short Course (With official Seal):

15. Remarks and recommendation by the Head of the host institution for organization of the Summer /Winter School/Short Course:

16. Signature of the Head of the Institution (With Official Seal):

Financial Norms and Rules of Summer/Winter Schools for 25 Participants

S. No.	Item of Expenditure	Revised Rate
1.	**Boarding and Lodging:** Facilities for wholesome meals and refreshments to be made available by the Institutional Head in keeping with the local conditions, Local participants are not eligible for boarding and lodging, however, local hospitality i.e. working lunch, tea, etc. To be provided subject to a limit of Rs. 100/- per participant per day, Participants are to be provided accommodation, free of cost, in the Institutional Guest House/Hostel.	Rs. **21 days:** 1,05,000/- **10 days:** Rs. 50,000/- @ Rs. 200/- per participant per day
2.	**Travel:** The participants will be paid for the journey, to and fro, restricted to AC-II-tier train fare or bus or any other means of transport in vogue, as the case may be, Actual TA is to be paid normally on production of a certificate by the participants. TA may be paid from the Place of duty to the Summer/Winter School/Short Course location and back by the shortest route.	**21 days:** Rs. 90,000/- **10 days:** Rs. 90,000/- (As per actuals)
3.	**Office supplies, laboratory equipment, chemicals, communication charges, laboratory overheads etc.**	**21 days:** **Rs.** 90,000/- **10 days:** **Rs.** 30,000/-
4.	**Honorarium to Secretarial /Clerical /Technical /Laboratory staff, Class IV** (maximum 8 persons)	Rs. 4,000/- @ Rs. 500/- per person
5.	**Honorarium to Academic Staff** **Honorarium for Course Director, Core Academic Staff** (four additional staff), **other lecturers** with maximum of two lectures per person.	**21 days and 10 days:** Rs. 16,000/- **Director:** Rs. 2500/- **Core Staff:** Rs. 1500/- **Per Lecture:**Rs. 500/-
6.	**Honorarium and TA/DA for Guest Lectures** (not more than four) with travel as per their entitled class, including honorarium per lecture with maximum of two lectures per person.	**21 days:** Rs. 60,000/- Rs. 500/-per lecture:
7.	**Miscellaneous and contingencies**	**21 Days:** Rs. 10,000/- **10 days:** Rs. 5,000/-

Note: Revision of rates is under process. Likely to be revised soon.

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

SUGGESTIVE LIST OF TOPICS FOR ICAR's SUMMER/ WINTER SCHOOLS AND SHORT COURSES FOR THE YEAR 2017-2018*

S. No	Topic/ Subject Area	S. No	Topic/ Subject Area
1.	**Advances in Micro-irrigation for improving water use efficiency and productivity**	46	**Insecticide resistance management strategies**
2.	**Advances in molecular epidemiology**	47	**Machinery for conservation agriculture and crop residue management.**
3.	**Agri-business and market intelligence**	48	**Micro propagation techniques**
4.	**Advances in fish health management for enhancing fish productivity**	49	**Molecular approaches in disease diagnostics and vaccines**
5.	**Agroforestry options for livelihood and diversification**	50	**Molecular mapping of genomes and genes/QTL**
6.	**Allele mining using germplasm resources**	51	**Meeting export certification requirements for agricultural produce**
7.	**Apparel manufacturing and designing**	52	**Nano-technology and plant disease management**
8.	**Antimicrobial resistance to antibiotics in animals and its impact on human health**	53	**National and International treaties on biological diversity**
9.	**Biotechnological strategies for increasing fish productivity**	54	**Pathogenomics in relation to host pathogen interaction**
10.	**Bio processing/food processing / packaging/product marketing**	55	**Pest risk analysis research as support to domestic quarantine system**
11.	**Bio-fortification of staple food crops**	56	**Phenotyping and Phenomics in Agriculture**
12.	**Bio-safety studies and regulations on GM crops**	57	**Physiological approaches to phytoremediation: advances, impact and prospects**
13.	**Culturing techniques for bio-fertilizers and bio-pesticides**	58	**Prospects of Mariculture in the country**
14.	**Conservation of indigenous breeds in their respective tracts**	59	**Power generation from New and Renewable Energy sources**
15.	**Climate change adaptation and mitigation strategies through agroforestry system**	60	**Processing value addition and waste utilization technologies for natural fibres**
16.	**Communication and management skills for extensional professionals**	61	**Recent development in conservation technology in Animal Genetic Resources**
17.	**Crop pollination as agri-inputs for high productivity and quantity of crop commodities**	62	**Recent developments in organic production systems**
18.	**Developing efficacious human resource / Learning Resources/objects**	63	**Role of wild life in emergence of zoonotic diseases**
19.	**Development and application of single nucleotide polymorphic marker system**	64	**Recent developments in climate change and watershed hydrology**
20.	**DNA Barcoding in fishes**	65	**Secondary Agriculture**
21.	**Emergence of new disease in globalized world**	66	**Stem cell technologies for clinical application**
22.	**Enhancing water productivity in scarcity zones**	67	**Use of CAD & CAM for designing of agricultural machinery**
23.	**Entomopathogenic nematodes and their significance in insect biocontrol**	68	**Value addition of livestock products and quality control**
24.	**Entrepreneurship development through agro-processing centres**	69	**Utilization of waste for wealth production in fisheries**
25.	**Enviornmental pollutants & food quality standards**	70	**Precision Agriculture**
26.	**Experimental approaches in functional genomics**	71	**Agricultural Education, Entrepreneurship and skill development**
27.	**Exploitation of underutilized vegetables/fruits**	72	**Agricultural statistical tools and measures**
28.	**Farmers empowerment and entrepreneurial development**	73	**Insect resistance to Bt-toxins and insecticides in cotton crop**
29.	**Fish as health supplements**	74	**Bio-safety, bio security and intellectual property rights related to PGR**
30.	**Gender mainstreaming and gender budgeting**	75	**Proteomics in Crop Plants**
31.	**Hi-tech breeding for higher productivity, quality, food colorants and nutraceutical bioactive health compounds in vegetable crops**	76	**Handling Next generation Sequencing Based Transciptome and Genome data of plants**
32.	**HACCP, value addition & quality standard in fish products**	77	**Innovative plant breeding techniques in developing climate smart crops**
33.	**Increasing fish production through reservoir fisheries and cage-culture**	78	**Biotechnological and conventional tools for biotic and abiotic stress management in sugarcane**
34.	**Impact of climate change on production of livestock and poultry**	79	**Enhancing germplasm use through pre-breeding, evaluation and frontier**
35.	**Spatial Decision support systems for Watershed Management**	80	**Advances in fish and shellfish health management**
36.	**Improving reproduction rate in ruminants by suitable reproductive technologies**	81	**Allele mining and bioinformatics in fisheries for trait improvement and conservation**
37.	**Innovations in educational technology**	82	**Bio-active compounds from Marine organisms: A wealth of novelties and opportunities**
38.	**ICT in Agriculture**	83	**Bioremediation and aquatic health management**
39.	**Renewable Energy for Environmental Protection and Energy Conservation**	84	**Biotechnological strategies for increasing fish production**
40.	**Climate change and its impact on fisheries and aquaculture including disaster management**	85	**GIS and remote sensing in fisheries management**
41.	**Quality standards for fish and fishery products**	86	**Recent advances in inland and marine fisheries culture and capture technologies**
42.	**Technological advances to minimize post-harvest losses and generate wealth out of waste in fisheries**	87	**Health foods**
43.	**Methods and techniques for testing and evaluation of safety of food and agricultural products for human consumptions**	88	**Minimizing Post-Harvest Crop losses**
44.	***Approaches for doubling Farmer's income***	89	**Electronics National Agriculture Market(ENAM)**
45.	***New initiatives for Extension Education ARYA, Farmers FIRST & MGMG***	90	**Advances in Renewable Energy Sources**
		91	**Present State of Art technology for Processing, Value addition & Secondary Agriculture**

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