डॉ0 एम. के. अग्निहोत्री
सहायक महानिदेशक (मानव संसाधन विकास)

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

भाकृअनुप
ICAR

कृषि शिक्षा विभाग
भारतीय कृषि अनुसंधान परिषद्
कृषि अनुसंधान भवन- II, पूसा, नई दिल्ली 110 012
AGRIL. EDUCATION DIVISION
INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAVAN-II, PUSA, NEW DELHI 110 012

F.No. Agr.Edn 1/37/2019/CAFT/HRD
Dated 6 .03.2019

To,

All the Director of CAFTs

Subject: *Organization training Programmes under CAFTs- Inviting Proposals for the year 2019-20.*

Sir/Madam,

As a HRD initiative, Council supports the organization of training programs of 21 days duration in different disciplines of agriculture and allied science under the on-going scheme of Centre of Advance Faculty Training in Agriculture Universities (AUs) and ICAR Deemed Universities (DUs). The main objective of the scheme 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 agricultural and allied science. You are aware that we have 40 CAFT centers in different disciplines & universities (DUs).

You are requested to submit the proposals on latest developments within your discipline for which CAFT is sanctioned. However, suggestive list of topics for such capacity building programme is enclosed for perusal and guidance. These training programs also cover specialized new techniques, research methodology, teaching methods and materials.

For the conduct of such course, 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 within the broad disciplinary framework based on the training needs assessed by the CAFT. The proposals may be submitted in the enclosed Proforma 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, please strictly follow the link '**Guidelines for CAFT**' given at the homepage of the CBP Vortal. CBP Vortal will be open for proposal submission from 11th March to 9th April, 2019.

However, applicants need to send signed hard copy also by Speed Post so as to reach this office latest by 16th April, 2019.

You are requested to please submit training proposals along with tentative dates of training for consideration of the proposals. Please ensure that the statement of expenditure (ICAR Institute)/Audit Utilization Certificates (AUCs) has been submitted to the ICAR immediately after the closure of the current financial year.

Yours faithfully,

(M.K. Agnihotri)

Phones: 011-25843635 (O), Tele Fax: 011-25840851. e-mail: adghrd@icar.org.in

Proforma for submitting proposal (2 copies) for organization of Training Programmes under Centers of Advance Faculty Training in frontier and specialized areas of agriculture and allied sciences (2019-20)

(Please use separate proforma for each course)

1. Topic of Training programme.
2. Justification of the proposed programme in light of suggestive training needs in the discipline (not more than 100 words):
3. Venue with full postal/e-mail address and office phone/fax numbers:
4. Proposed dates (From – to):
   (The change in the proposed dates to be avoided after the approval)
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 Course Coordinator, if other than the Director, CAFT, (enclose bio-data clearly bringing out the specific qualification, experience and scientific contribution of the Course Coordinator in the proposed topic):
7. Faculty Staff strength in CAFT (Assistant Professor, Associate Professor, 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 Programme such as laboratory equipments/instruments, research farm, library, classroom, guesthouse etc.
11. Programmes / Projects and achievements in the area of special topic proposed for the training programme:
12. **Schedule of daily lectures/practical topics to be covered and name of the faculty proposed to be engaged during the CAFT Training Programme:**

Sl.No.	Date/Day	Topic of lecture/Practical	Name & Designation of Speaker

13. Name of the Training organized during the last three years:
14. Signature of the Director of the CAFTs (With Official Seal):

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

SUGGESTIVE LIST OF TOPIC FOR ICAR's CENTER FOR ADVANCE FACULTY TRAINING FOR THE YEAR 2019-20

S.No	Topic/Subject Area	S.No	Topic/Subject Area
1.	Advances for the assessment of soil-plant-atmosphere system to increase input use efficiency of soil and water resources	48.	Multiple breeding of fishes
2.	Advances in disease forecasting tools in changing weather scenario	49.	Nano-technology and bio- security in Agriculture / Aquaculture
3.	Advances in methodological paradigm and tools in extension research	50.	Natural edible colours and flavors
4.	Advances in plant protection equipment	51.	Nutritional Security through Horticulture
5.	Agricultural engineering interventions for saving water and energy and higher productivity	52.	Pest management in protected agriculture/horticulture
6.	Agro-forestry for mitigating climate change	53.	Plant architectural engineering and management
7.	Animal Transgenics and cloning	54.	Popularization of rootstocks in vegetables and fruits
8.	Aquaculture engineering	55.	Postharvest pathology
9.	Assessment and management of soil and water quality under evolving resource conserving	56.	Phytochemicals for pest management
10.	Bio-drainage for combating water-logging and salinity	57.	Pre-harvest management of fruit crops for improved post-harvest value
11.	Bio processing/food processing/packaging/product marketing/Export	58.	RS & GIS application to water resources
12.	Bio-fuels	59.	Seed production including hybrid seed production, processing & marketing
13.	Bio-management of orchard soil health	60.	Production of quality planting material in horticultural crops and certification
14.	Bio-methanation of Solid and Liquid Organic Wastes	61.	Resource Conservation Technologies
15.	BIS Standards in Good Agricultural Practices	62.	Role of Pollinator and pollinating agents in enhancing quality fruit production
16.	Climate Change-Mitigation and adaptation including carbon sequestration	63.	Securing Commodities from pests and diseases
17.	Climate change and stress physiology (Plants/Animals)	64.	Soil health assessment techniques
18.	Conservation Agriculture	65.	Stem cell research
19.	Crop diversification through tropical and subtropical fruit crops	66.	Use of ICT in Agriculture/Fisheries & Aquaculture
20.	Crop modeling for better management	67.	WTA, GATS and IPR
21.	Crop residue management equipment	68.	Advances in farm Management
22.	Current Trends in Commercial Floriculture/Ornamental Pisciculture	69.	Advances in Micro-irrigation technologies
23.	Cutting edge technologies in food-processing (pulsed electric heating, high pressure processing, ohmic heating, etc.	70.	Alternatives to Methyl Bromide Fumigation of Agricultural Commodities
24.	Decision support systems in agricultural research	71.	Breeding for abiotic stress with special reference to climate change traits
25.	Designer foods and feeds	72.	Genetically modified Crops: Relevance and prospects in ensuring food security
26.	Drudgery reduction technologies useful for farm women and farm workers	73.	Modern Methods of irrigation for enhanced water use efficiency and productivity
27.	Emerging diseases of livestock	74.	Molecular techniques for Nematode Identification
28.	Processing of milk and milk products/Dairy byproducts for value addition	75.	Pest Risk Analysis Research
29.	Fish biotechnology/DNA Fingerprinting/Molecular markers	76.	Processing of milk and milk products/meat products/Dairy byproducts for value addition
30.	Fish Disease Diagnostics	77.	Processing, value addition and waste utilization technologies for natural fibers

31.	Fish feeds, Nutraceuticals, Food fish as health nutrients	78.	Advances in Animal Reproduction, Gynaecology and Obstetrics
32.	Fish product quality standards and certification	79.	Assessment and management of soil and water quality under evolving resource conserving technologies and agricultural intensification
33.	Fish stock assessment in Marine and Fresh water resources	80.	Breeding crop varieties for stress environment
34.	Gene transfer and therapy	81.	Breeding for biotic and abiotic stress with special reference to climate change traits.
35.	Hi-tech interventions in Fruit Production for enhancing productivity, nutritional quality and value-addition	82.	Crop health management in protected agriculture
36.	Increasing photosynthetic efficiency	83.	Crop transformation and the challenge to increase yield potential
37.	Innovations in Reservoir	84.	E-sensor for Agriculture
38.	Integration of quality parameters into food safety-focused HACCP systems	85.	Nano-technology tools (NTT) for crop health and risk assessment techniques of NTT
39.	Integrated Nutrient management	86.	Novel genomic tools and modern genetic and breeding approaches for crop / livestock improvement
40.	Integrated pest and disease management	87.	Recent trends in Breeding and conservation of indigenous livestock
41.	Knowledge Management in agriculture	88.	Production of quality planting material in horticultural crops and certification under changing WTO regime.
42.	Mariculture	89.	Renewable Energy sources for mitigating climate change
43.	Micro-irrigation	90.	Waste Recycling and Resource Recovery Process
44.	Modern breeding strategies for plant resistance	91.	Fodder resources management for livestock production
45.	Molecular breeding and marker assisted selection for crop improvement	92.	Other contemporary/upcoming/cutting edge technologies
46.	Molecular diagnostics of plant pathogens and host-pathogen interaction	93.	Introgress breeding of Gossypium arboreum (desi cotton) for yield and fiber quality
47.	Machine learning and artificial intelligence application	94.	Automation & Robotics in Agriculture
		95.	Problems and constraints in fruit crops

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