DIRECTORATE OF RESEARCH
ANAND AGRICULTURAL UNIVERSITY
UNIVERSITY BHAVAN, ANAND-388 110(Gujarat)

Dr. K. B. Kathiria
Director of Research & Dean PG Studies

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No.AAU/DR/RES/T-3/ 8235 **/2012** **Date: 19-11-2012**

To,

All the Unit /Sub-Unit Officers

Please find enclosed herewith the Letter F. No. 5(65)/2012-HRD, Dated 1st November, 2012 received from Dr. Kusumakar Sharma, Assistant Director General (HRD), ICAR, New Delhi regarding Organization of Summer/Winter Schools and Short Courses. This is for your information and requested to prepare the proposal for organization of summer/winter school and send it to undersigned for onward transmission to the concerned.

Encl : As Above.

Director of Research &
Dean P.G. Studies

डा. कुसुमाकर शर्मा
सहायक महानिदेशक (मानव संसाधन विकास)

Dr. Kusumakar Sharma
ASSISTANT DIRECTOR GENERAL (HRD)

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

F. No. 5(65)/2012 – HRD
Dated 1st November, 2012

To,

All the Vice Chancellors of Agricultural Universities (AUs - comprising of SAUs/AAI-DU/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 2013-2014*

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. The detailed operational guidelines for Summer/ Winter Schools and Short Courses are available on ICAR website (http://www.icar.org.in/files/edu/Norms-Operational-Guidelines-SWS_2012.pdf)

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 topics of inter-disciplinary subject within the broad disciplinary framework. A suggestive list of topics that may receive priority consideration is annexed.

The proposals (5 copies of each) of Summer/Winter Schools of 21 days and Short Courses of 10 days duration along with their financial requirements for 25 participants may please be submitted in the enclosed proforma. **Not more than four** proposals per AU/Institute duly recommended by the Head of the Organization may be sent, placed in one packet, so as to reach the undersigned latest by 14th December, 2012. For facilitating the formulation of proposals, the financial norms and other required information is enclosed as Annexure.

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,

(Kusumakar Sharma)

Enclosed: As above

Phones: 011-25843635 (O) Tele-Fax: 011-25843375

डा. कुसुमाकर शर्मा
सहायक महानिदेशक (मानव संसाधन विकास)

Dr. Kusumakar Sharma
ASSISTANT DIRECTOR GENERAL (HRD)

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विशेष संख्या 5(65)/2012-HRD
दिनांक 1 नवम्बर, 2012

प्रति
कुलपति, कृषि विश्वविद्यालय (राज्य कृषि विश्वविद्यालय / सम विश्वविद्यालय / केंद्रीय कृषि विश्वविद्यालय/ कृषि संकाय वाले केंद्रीय विश्वविद्यालय)
निदेशक, आईसीएआर के सभी अनुसंधान संस्थान

विषय: वर्ष 2013-2014 के लिए ग्रीष्मकालीन /शीतकालीन स्कूलों और लघु पाठ्यक्रम के आयोजन हेतु प्रस्ताव आमंत्रण

महोदय/ महोदया,

मानव संसाधन विकास पहल के रूप में परिषद ग्रीष्मकालीन / शीतकालीन स्कूलों और लघु पाठ्यक्रमों का कृषि विश्वविद्यालयों और भारतीय कृषि अनुसंधान परिषद (आईसीएआर) के संस्थानों में कृषि और संबद्ध विज्ञान के विभिन्न विषयों में आयोजन हेतु सहायता देता है. इन पाठ्यक्रमों का मुख्य उद्देश्य शिक्षकों, अनुसंधान कार्यकर्ताओं को कृषि विश्वविद्यालयों और आईसीएआर संस्थानों में काम करने हेतु अपने ज्ञान और कौशल को आधुनिक तथा नवीनतम क्रमागत उन्नति के साथ गतिक्रम बनाये रखना है. पाठ्यक्रमों में विशेष नई तकनीक, शोध पद्धति और शिक्षण विधियां, आदि सम्मलित हैं. ग्रीष्मकालीन / शीतकालीन स्कूलों और लघु पाठ्यक्रम के लिए विस्तृत परिचालन दिशानिर्देश आईसीएआर की वेबसाइट पर उपलब्ध हैं (http://www.icar.org.in/files/edu/Norms-Operational-Guidelines-SWS_2012.pdf)

ग्रीष्मकालीन/ शीतकालीन स्कूलों और लघु पाठ्यक्रमों के संचालन के लिए विशेषज्ञता की उपलब्धता, अच्छी प्रयोगशाला / प्रायोगिक सुविधाएँ तथा संबंधित क्षेत्र में वरिष्ठ संकाय सदस्यों की पर्याप्त संख्या और अनुसंधान आधार होना आवश्यक है. तदनुसार, व्यापक विषय ढांचे के भीतर ध्यान केंद्रित अंतःविषयों पर प्रस्ताव को आमंत्रित किये जा रहे हैं. एक विषय विचारोत्तेजक सूची विचार हेतु संलग्न है.

कृपया ग्रीष्मकालीन/ शीतकालीन स्कूलों के 21 दिन और लघु पाठ्यक्रमों के 10 दिन की अवधि के प्रस्तावों को 25 प्रतिभागियों के लिए उनकी वित्तीय आवश्यकताओं के साथ (प्रत्येक के 5 प्रतियां) संलग्न प्रपत्र में प्रस्तुत करें. प्रत्येक कृषि विश्वविद्यालय / संस्थान से अधिकतम चार प्रस्ताव विधिवत संगठन के प्रमुख द्वारा संस्तुतित 14 दिसम्बर, 2012 तक अधोहस्ताक्षरी के पास विचार हेतु अग्रेषित करें. प्रस्ताव हेतु वित्तीय मानदंड और अन्य आवश्यक जानकारी संलग्न है.

प्रस्तावों पर विचार के लिए कृपया सुनिश्चित करें कि पूर्व आयोजित इस तरह के प्रशिक्षण कार्यक्रमों का व्यय विवरण (आईसीएआर संस्थानों से) / ऑडिट उपयोग प्रमाण पत्र (कृषि विश्वविद्यालयों से) परिषद् को भेजा जा चुका है.

भवदीय,

(कुसुमाकर शर्मा)

संलग्न उपरोक्त

English version overleaf

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.	**21 days:** Rs. 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:-

1. Duration and number of participants are to be taken into the account while giving individual financial sanction to each Summer/Winter School and Short Course. i.e. if duration and number of participants are reduced, proportionate amount is to be deducted from all financial items indicated above.
2. It is mandatory to provide lecture notes and practical manual, as the case may be, to the participants, at the beginning of the course.
3. Copies of lectures of Summer/Winter School should be placed on the Institution website and also distributed to the Library/Agricultural Universities/ICAR Institutes on a CD by the Director of the Summer/Winter School.
4. Summer/Winter School should have at least 15 participants (minimum) or 50% of the maximum number fixed per Summer/Winter School.
5. Academic staff members are to be involved closely in the lectures, discussions and laboratory work. Supporting staff for laboratory work may be drawn from the research scholars, technical staff etc. Honorarium is payable to the Academic and other staff from ICAR organizations also.
6. Number of local participants should not exceed 10% of the total number of participants.

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 (2012-2013)

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 qualification for the participants of the Summer/Winter School /Short Course

   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/ Short Course (enclose bio-data clearly bringing out the specific qualification, 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):

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 2013-2014*

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	44.	Entomopathogenic nematodes and their significance in insect biocontrol
2.	Advances in Bioremediation Technologies	45.	Enviornmental pollutants & food quality standards
3.	Advances in disease forecasting models	46.	Exploitation of under utilized vegetables/fruits
4.	Advances in farm Management	47.	Extension Strategies for combating current Agrarian Crisis
5.	Advances in heterosis and plant breeding	48.	Farmers empowerment and entrepreneurial development
6.	Advances in methodological paradigm and tools in extension research	49.	Fish biotechnology/DNA Fingerprinting/Molecular markers
7.	Advances in molecular epidemiology	50.	Fish Disease Diagnostics
8.	Advances in Micro-irrigation technologies	51.	Fish feeds, Nutraceuticals, Food fish as health nutrients
9.	Advances in plant protection appliances and applicators	52.	Fish product quality standards and certification
10.	Agri-business and market intelligence	53.	Fish stock assessment in Marine and Fresh water resources
11.	Agricultural engineering interventions for saving water and energy and higher productivity.	54.	Gender mainstreaming and gender budgeting
12.	Agro-forestry for mitigating climate change	55.	Gene transfer and therapy
13.	Alternatives to Methyl Bromide Fumigation of Agricultural Commodities	56.	Genetically modified Crops: Relevance and prospects in ensuring food security
14.	Animal Transgenics and cloning	57.	Hi-tech breeding for higher productivity, quality, food colorants and nutraceutical bioactive health compounds in vegetable crops
15.	Apparel manufacturing and designing	58.	Hi-tech interventions in Fruit Production for enhancing productivity, nutritional quality and value-addition.
16.	Aquaculture engineering	59.	Impact assessment of Rural Poultry in livelihood security
17.	Assessment and management of soil and water quality under evolving resource conserving technologies and agricultural intensification	60.	Improving reproduction rate in small ruminants by reproductive technologies
18.	Bio-drainage for combating water-logging and salinity	61.	*Increasing photosynthetic efficiency*
19.	Bio processing/food processing / packaging/product marketing/Expert	62.	Innovations in educational technology
20.	Bio-fortification of staple food crops	63.	Innovations in Reservoir
21.	Bio-fuels	64.	Integration of quality parameters into food safety-focussed HACCP systems
22.	Bio-management of orchard soil health	65.	Integrated Nutrient management
23.	Biomethanation of Solid and Liquid Organic Wastes	66.	Integrated pest and disease management
24.	BIS Standards in Good Agricultural Practices	67.	Knowledge Management in agriculture
25.	Bio-safety studies for GMOs	68.	Mariculture
26.	Breeding for abiotic stress with special reference to climate change traits	69.	Measurement and management of resistance to chemical pesticides
27.	Climate Change-Mitigation and adaptation including carbon sequestration	70.	Micro propagation techniques
28.	Climate change and stress physiology (Plants/Animals)	71.	Micro-irrigation
29.	Communication and management skills for extensional professionals	72.	Modern breeding strategies for plant resistance
30.	Conservation Agriculture	73.	Modern Methods of irrigation for enhanced water use efficiency and productivity
31.	Crop diversification through tropical and subtropical fruit crops	74.	Molecular approaches in disease diagnostics and vaccines
32.	Crop modeling for better management	75.	Molecular breeding and marker assisted selection for crop improvement
33.	Crop residue management equipment	76.	Molecular diagnostics of plant pathogens and host-pathogen interaction
34.	Current Trends in Commercial Floriculture/Ornamental Pisciculture	77.	Multiple breeding of fishes
35.	Cutting edge technologies in food-processing (pulsed electric heating, high pressure processing, ohmic heating, etc.	78.	Molecular techniques for Nematode Identification
36.	DNA Barcoding in fishes	79.	Nano-technology and bio- security in Agriculture / Aquaculture
37.	Decision support systems in agricultural research	80.	Nano-technology and plant disease management
38.	Designer foods and feeds	81.	Numerical methods for the analysis of agricultural engineering systems
39.	Developing efficacious human resource / Learning Resources/objects	82.	Natural edible colours and flavours
40.	Drudgery reduction technologies useful for farm women and farm workers	83.	Nutritional Security through Horticulture
41.	Emerging diseases of livestock	84.	On-Farm technology testing and impact assessment
42.	Enhancing water productivity in scarcity zones	85.	Participatory Extension Research and Management
43.	Entrepreneurship development through agro-processing centres	86.	Pest management in protected agriculture

P.T.O.

87.	Pest Risk Analysis Research	101.	Recent advances in micro-irrigation and fertigation
88.	Physiological approaches to phytoremediation: advances, impact and prospects	102.	Recent development in conservation technology in Animal Genetic Resources
89.	Phytochemicals formulations for pest management	103.	Resource Conservation Technologies
90.	Plant architectural engineering and management	104.	Role of Pollinator and pollinating agents in enhancing quality crop production
91.	Plant diseases and their management strategies	105.	RS & GIS application to water resources
92.	Popularization of rootstocks in vegetables and fruits	106.	Seed production including hybrid seed production, processing & marketing
93.	Postharvest pathology	107.	Securing Commodities from pests and diseases
94.	Pre-harvest management of fruit crops for improved post-harvest value	108.	Soil health assessment techniques
95.	Processing of milk and milk products/Dairy byproducts for value addition	109.	Stem cell research
96.	Processing value addition and waste utilization technologies for natural fibres	110.	Utilization of degraded land through Horticulture
97.	Production of quality planting material in horticultural crops and certification under changing WTO regime.	111.	Use of CAD & CAM for designing of agricultural machinery
98.	Phenotyping and Phenomics in Agriculture	112.	Use of ICT in Agriculture/Fisheries & Aquaculture
99.	Quality management of plant protection inputs and appliances	113.	Value addition of livestock products and quality control
100.	Quantitative genetics and statistical genomics	114.	WTA, GATS and IPR

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