

Agricultural Entomology & Plant Pathology/Food technology/Agril. Extension and other relevant field of agriculture. Doctoral degree holders are likely to be preferred. Participants should be from ICAR Institutes/SAUs/CAU/Agricultural faculty of AMU/BHU/Viswa Bharti and Nagaland University in the cadre of Assistant Professors or equivalent and above.

How to Apply

As per ICAR, guide lines, interested candidates should register and apply online through "Capacity Building Programme" (CBP) portal as follows:

1. Visit the website <http://www.iasri.res.in/cbp> or click on Capacity Building Programme link <http://www.icar.org.in>
2. Log in by using your ID & password. To create user ID, use "Create New Account" link.
3. After login, click on "Participation in Training" link and fill up the given Performa.
4. Take a printout and send duly signed copy through proper channel (recommended by competent authority) to the course director of winter school by post as well as a scanned copy of the same (completed & duly signed form) to his email id.

N.B.

The selected candidates will be informed by email only. Advance copy may be sent to course director but final selection will only be made after receiving the original application, duly recommended by concerned competent authority.

Travelling Allowances

The participants will be paid for the journey, to and fro, restricted to AC-II tier train fare or bus or any other means transport in vogue, as the case may be by on production of journey tickets by the participants. TA will be paid from place of duty to winter school location and back by the shortest route.

Boarding & Lodging

Lodging and boarding arrangement will be made available in the University Guest House along with

food. Local participants are not eligible for boarding and lodging. However, local hospitality i.e. working lunch, tea *etc* will be provided to them.

Location

Bihar Agricultural University, Sabour, Bhagalpur is situated at a latitude of 25°23'N, a longitude of 87°07'E & of altitude 38.79 m above the mean sea level.

Travel to BAU

The nearest railway stations are Sabour (SBO), Bhagalpur (BGP) & Naugachia (NAA), located 0.5 km, 9.0 km and 22.0 km from University head quarter, respectively. It is well connected to Kolkata, Delhi, Mumbai, Bangalore, Guwahati, Bhubaneswar through rail heads. Weather during November will be charming with light coldness in morning & evening hour.

Important dates

- Last date of receiving the nomination: 31/08/2017
- Information of selection: 11/09/2017
- Confirmation of participation by the selected candidates: 15/09/2017

Course Director:

Dr. Nilanjan Chattopadhyaya

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Course Coordinators:

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Information Brochure ICAR Sponsored Winter School On Future Approach To Organic Agriculture 7th - 27th November, 2017



Course Director

Dr Nilanjan Chattopadhyaya

Course Coordinators

Dr Anshuman Kohli

Dr Nintu Mandal

Organized by

Department of Soil Science and
Agricultural Chemistry

Bihar Agricultural University, Sabour,
Bhagalpur, Bihar-813210

Background

Indian agriculture, in the post-green revolution era is under multiple stress resulting decline in partial factor productivity. Emergence of multinutrient deficiency, loss of biodiversity, depletion of ground water level, complexities in biotic and abiotic stresses coupled with climate uncertainties poses serious threat on system production and productivity. Scientific intervention in designing production system with aim of sustainability is of utmost importance now-a-days.

Organic agriculture is being projected as good alternative for sustainable production system. Critical inputs or organic agricultures (Manures, composts, biofertilizers, residues etc) being biological in nature would maintain good soil health and quality. Site suitability for organic agriculture, challenges in conversion into organic, relative changes in soil attributes in organic production system, quality parameters in organic produce, certification and marketing, feasibility of spatial and temporal convergence of organic agriculture in Indian context invites lots of scientific deliberations and discussion. The challenge before the scientific community is to consider this partiality over a temporal as well as a spatial scale for fitting into the established mechanisms of agricultural production. With this background, this winter school aims to be a scintillating experience for the participants to consider organic agriculture as a sustainable alternative to high external input production systems.

The Host Institute

Bihar Agricultural College has been established by the Britons in the year of 1908 and renowned for being the one of the oldest conventional agricultural institute in pre independence period. The University (BAU) was established on 5th August, 2010 to serve as a leading center of teaching, research, extension and training in the field of agriculture and allied subjects. There are seven colleges, thirteen research stations, twenty Krishi Vigyan Kendras, spread over

the state are under operation within the purview of this esteemed institute. The University got ICAR Accreditation for imparting quality education, research, extension and training services. The university also got ISO certification for excellence in teaching, research, extension and training services in agricultural sciences and allied disciplines.

The Department of Soil Science and Agricultural Chemistry

The department is well equipped with sophisticated instrumentation facility and well trained faculty members. The department is having commercial Bio-fertilizer Production unit equipped with quality control laboratory for Bio-fertilizers (Annual production capacity -500mt). The unit is producing Rhizobium, PSB, Azotobacter and Azospirillum biofertilizers for distribution among farmers of the state of Bihar. Mechanized. Commercial vermicompost Production unit equipped with analytical laboratory is there under the department. *Azolla* germplasm are being maintained to assist teaching, research and extension activities of the department. The department has commercial Blue Green Algae (BGA) production unit. soil testing laboratory, remote sensing and GIS laboratory, soil microbiology laboratory, Nanoscience and nanotechnology unit and Central instrumentation laboratory with state of art facilities.. The research farm of the university has well established Integrated farming system (IFS) experiment unit, Organic production system experiment and Long-term Biofertilizer efficacy evaluation experiment.

Course Content

The course cover entire organic production system into five major thematic areas viz. General aspects, Basic, Applied, Production system and certification, marketing and trading. Thematic areas along with its content will be as mentioned below:

1. General aspects

- Introduction to Organic Agriculture.
- Location analysis & Site suitability for organic farming

- Conversion to organic farming from conventional farming & challenges

2. Basic aspects

- Soil Organic Matter (SOM): Formation, characterization and effect on soil properties
- Clay-humus complexation, synthetic humic acids and its implication
- Soil cultivation & tillage practices in organic agriculture
- Microbial richness and diversity in organic production system and enzymology

3. Applied aspects

- Cropping system designing under organic agriculture
- Advances in composting, green manuring, biofertilizers productions and its quality control.
- Water management in organic agriculture
- Weed & pest management in organic agriculture
- Plant propagation techniques

4. Production system

- Quality produce under organic farming particularly high value crops
- Commercial bio-fertilizers & plant materials production
- Commercial fruit production under organic farming

5. Certification, marketing and trading

- Certification of organic produce
- Marketing & management in organic agriculture

Duration of the Winter School

21 days (7th-27th November, 2017).

Eligibility

Master's Degree in Agricultural Sciences with specialization preferably in Agronomy/Soil Science/Horticulture/Plant Breeding & Genetics /