

Application process

Prescribed application format as given below:

1. Full Name (in block letters):
2. Designation:
3. Present employer and address:
4. Address to which reply should be sent:
(Phone, mobile, fax & email id)
5. Date of Birth:
6. Sex: Male/ Female
7. Experience in teaching/research/extension
(Years)
8. Need for this training and how it helps in
your on-going research activities

Signature of the applicant

Date:

Place:

Recommendation by Head of College/ Institute/
Station/ KVK:

Signature:

Designation:

Address:

Duly forwarded applications should be sent to
the Course Director/Course Coordinator.

Preferred mode of communication is e-mail.

Important dates

Last date for receipt of application: Jan 22, 2014

Intimation of selection: Jan 24, 2014

Confirmation by participants: Jan 27, 2014

Course Director: Dr. R. K. Avasthe

Course Coordinators: Dr. Raghavendra Singh
Dr. Subhash Babu
Mr. Shaon Kumar Das

All correspondence will be addressed to:

Dr. R. K. Avasthe
Joint Director and Course Director
ICAR Research Complex for NEH Region
Sikkim Centre, Gangtok, Sikkim-737102
Email: jdsikkim.icar@gmail.com
Phone number: 03592-231030

OR

Dr. Raghavendra Singh
Course Coordinator
Senior Scientist (Agronomy)
ICAR Research Complex for NEH Region
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Training on NATURAL RESOURCE MANAGEMENT FOR ENHANCING CLIMATE RESILIENCE IN MOUNTAIN ECOSYSTEMS (10– 19, February, 2014)

Sponsored by
**National Initiative on Climate Resilient
Agriculture (NICRA)**
ICAR RC for NEH Region
Umroi Road, Umiam, Meghalaya-793 103



Organized by
ICAR Research Complex for NEH Region
Sikkim Centre, Gangtok, Sikkim-737 102



About the training

The variability of the climate under current and future climate scenarios has been a topic of recent interest for a number of reasons. Climate change could have negative consequences on agricultural production worldwide and it has generated a desire to build resilience into agricultural systems. Change in climate causes certain variability which affects our agricultural activities and ultimately resulting in poor productivity of crops and/or soil. Similarly, the production and productivity of animals is also negatively affected by the changing climate. Hence, in order to cope up with the situation it is necessary to raise awareness among researchers and all the stakeholders involved in extension through capacity building as well as demonstration programmes.

Therefore, the aforesaid training on climate resilient agriculture will be conducted as a part of the capacity building programme under NICRA at ICAR Research Complex for NEH Region, Sikkim Centre, Tadong, Gangtok. In this training programme, possible causes of climate change, its impact on crops and management of natural resources will be addressed. It will be emphasized on how different adaptation/ mitigation strategies/ options will enhance the resources' use efficiency, crop productivity and resource conservation.

The proposed training will acquaint the teacher/researcher/extension personnel about adaptation and mitigation strategies for managing emerging environmental problems for

enhancing sustainability of agriculture. These apart, the course will also include various resource conservation techniques, technologies for efficient water/ nutrient utilization for enhancing production of crop, soil health, breeding strategies and animal health management under changing climate scenario.

- Enhance the capacity and skill of various stakeholders involved in managing natural resources.
- Exposure to improved land and water resource management options/ strategies/ models in hill ecosystems.

Course Content

- ✚ Precision techniques for resources use efficiency for enhancing crop production
- ✚ Natural resource management under changing climatic scenario
- ✚ Agro techniques for improving resource use efficiency under changing climatic conditions
- ✚ Conservation agriculture: an option for mitigating abiotic stress
- ✚ Breeding strategies for major crops under changing climatic era
- ✚ Impact of climatic change on insect-pest of crops and their management options
- ✚ Management of soil fertility through locally available resources
- ✚ Weed management strategies in the era of climate change
- ✚ Role of allelopathy for efficient resource utilization in crop production

- ✚ Crop and soil specific mechanism for improving nutrient use efficiency in changing climatic era
- ✚ Water management options for efficient crop production in changing climatic situation
- ✚ Enhancing input use efficiency through integrated farming system research
- ✚ Biochar: key for acidic soil amelioration and efficient nutrient utilization
- ✚ Strategies to sustain livestock to combat climatic variability
- ✚ Reproductive disorders in farm animals and their management under changing climate
- ✚ Strategies to minimizing greenhouse gases emission from livestock manure
- ✚ ITKs for mitigating climate change
- ✚ Possible options to overcome the problems through adaptation/mitigation strategies

Note: All the contents are practical oriented.

Eligibility:

Assistant Professors / Scientists / Extension workers of the different ICAR institute, SAUs, CAUs and KVKs *etc.*, will be eligible to apply.

Note: All participants are entitled to lodging and boarding and other facilities. **Reimbursement of travelling expenses shall be restricted only up to III AC (excluding Rajdhani and Shatabdi).**