

How to Reach

Imphal is well connected by air with the major cities like New Delhi, Kolkata and Guwahati. Three National Highways, viz., N.H-39, N.H- 53 and N.H-150 criss-cross the State connecting all districts. The institute is located 10 kms from Imphal Airport and is 2 kms. from AOC Bus stand. The nearest rail head is at Dimapur, Nagaland which is 208 kms. from Imphal by road (NH-39). Bus and Winger service is available from Dimapur Railway Station/Bus Stand up to Imphal. Auto and Taxi service is frequently available from Imphal Airport/AOC Bus Stand to reach ICAR. The nearby land marks are RIMS (1.5 km), Kendriya Vidyalaya-I (200 m) and 86 BN. CRPF Camp (100 m).

How to Apply

The participants should submit their application online using CBP vortal of Agricultural Education Division, ICAR (<http://proj.iasri.res.in/cbp/>) or under the link in the ICAR website (<http://www.icar.org.in/en/node/5906>). After filling the online application, take a printout of application form, get it approved by the competent authority of your organization. Upload the approved form (scanned copy) on this vortal. The original copy of the Approved Application Form should be duly forwarded by the competent authority and submitted to the Course Director at the address given below along with a sum of Rs.50/- as registration fee (non-refundable) in the form of postal order drawn in favour of Joint Director, ICAR Research Complex for NEH Region, Manipur Centre payable at Post office, Lamphelpat -795004. An advance copy may be sent to shortcourse.icarneh@gmail.com. However, the candidature for final selection will be considered only after receipt of the approved original copy. For speedy disbursement of selection letters, participants are requested to provide Email ID, Fax No. and Mobile No. positively. The detail guideline for participating in the short course can be downloaded from the ICAR CBP vortal (<http://proj.iasri.res.in/cbp/ToDownload/Guidelines%20to%20participate%20in%20training%20program.pdf>).

Important Dates

Last date for receipt of application	: 30 June, 2015
Confirmation to selected candidates	: 25 July, 2015
Commencement of the course	: 15 September, 2015

Address of Correspondence

COURSE DIRECTOR

Dr. Narendra Prakash
Joint Director

ICAR Research Complex for NEH Region
Manipur Centre, P.O. Lamphelpat - 795004, Imphal
Contacts : +91 385 2414654 (O), +91 9436894982 (M), +91 385 2414260/749 (Fax)
Email : shortcourse.icarneh@gmail.com, jdmn.icar@nic.in

COURSE COORDINATORS

Dr. Subhra Saikat Roy
Scientist (Horticulture)

ICAR Research Complex for NEH Region
Manipur Centre, P.O. Lamphelpat - 795004, Imphal
Contact : +91 8730933835 / 9436891040
Email : ssroy.icar@nic.in, subhrasaikat@gmail.com

Dr. Meraj Alam Ansari
Scientist (Agronomy)

ICAR Research Complex for NEH Region
Manipur Centre, P.O. Lamphelpat - 795004, Imphal
Contact : +91 9089654323
Email : maansari.icar@nic.in, merajjari@gmail.com

Information Brochure

Short Course on

Integrated Farming System : An Approach Towards Livelihood Security and Natural Resource Conservation

September 15-25, 2015

Sponsored By



AGRICULTURAL EDUCATION DIVISION
INDIAN COUNCIL OF AGRICULTURAL RESEARCH



Organized By



ICAR Research Complex for North Eastern Hill Region
Manipur Centre, Lamphelpat, Imphal - 795 004

Background

Sustainable development on our planet cannot be achieved without a major contribution from agriculture. People must be fed, and agriculture has to face the challenge of producing sufficient food for a rapidly growing world population whilst maintaining the world's fragile resources. The major problems of present day agriculture are decline in agriculture growth rate, decline in factor productivity, static or decline in food production, increasing malnutrition, shrinkage in net cultivable area, increasing environmental pollution, depleting groundwater table, increasing cost of production, low farm income and increasing unemployment. Modern farming systems have evolved to meet this need in a way that combines the essential requirements of profitability and productivity. The Indian economy is predominantly rural and agricultural, and the declining trend in size of land holding poses a serious challenge to the sustainability and profitability of farming. Sustainable development must encompass food production alongside conservation of finite resources and protection of the natural environment so that the needs of people living today can be met without compromising the ability of future generations to meet their own needs. To meet these multiple objectives Integrated Farming System has emerged as the most viable and valuable approach to addressing the problems of sustainable economic growth for farming communities in India, especially for the small and marginal farmers under fragile hill ecosystem under the changing climatic scenario. Economic and ecological access to food can be ensured by adopting IFS consisting of change from commodity-based to resource-based planning and integrated use and management of land, water and human resources to maximize income and employment. The primary goals of IFS is to maximize the yield of all component to provide round the year income at higher level, rejuvenation of systems productivity and achieve agro-ecological equilibrium through natural resource conservation. Integrated farming system has the advantages of increasing economic yield per unit area per unit time, profitability, sustainability and provides balanced nutritious food for the farmers, pollution free environment and provide opportunity for effective recycling of one product as input to other component, income round the year and solve the energy, fodder, fuel and timber crisis, avoids degradation of forests and enhance the employment generation, increase input use efficiency and finally improve the livelihood of the farming community. Integrated farming systems have emerged as a well-accepted, single window and sound strategy for harmonizing simultaneously joint management of land, water, vegetation, livestock and human resources. It is this approach that can lead to a quantum jump in the productivity on a sustainable basis and ensure better livelihood securities to the people in fragile hill ecosystems. Thus, IFS is not only a powerful tool for management of natural resources and to achieve sustainability in agriculture, but also ensures rural prosperity by improving standard of living of the farm families. Adoption of Integrated Farming System for enhancing resource use efficiency, mitigation of climate change and crop productivity is the need of the hour. Given this backdrop, the short course is being organized with an objective to upgrade knowledge and improve skills of the researchers on Integrated Farming System and its practical utility for enhancing productivity, profitability, sustainability, resource use efficiency and healthy living.

Course Content

The major focus of the short course is to bring familiarity with state of the art research technologies and dissemination of the recent scientific advances in the field of integrated farming system to enhance adaptation and mitigation potential of farmers of our country with special reference to North Eastern Hill Region. The short course has been designed to cover the basic concept, procedure and methodologies of integrated farming system, Soil-plant-animal relationship, sloping agricultural land technology (SALT), sloping watershed environmental engineering technology (SWEET), resource conservation technology, soil and water conservation measures, IFS enterprise planning and management for small and marginal farmers, integrated pest and disease management, horticulture based farming system, seed production, agro-forestry interventions, nutrient dynamics, bio-organics, microbial consortia, biofortification, carbon sequestration, energy budgeting, biodiversity management, recycling of crop residue and farm waste, biomass management, application of RS and GIS, apiculture, matrix model application, erosion management, jhum rehabilitation, protected cultivation, poultry-livestock-fishery management, mushroom production, value addition, socio-economic analysis, gender mainstreaming, participatory rural appraisal, farm mechanization, market linkages and supply chain management.

Approach & Methodology

The short course will include lectures from specialists, field and laboratory oriented problem-solving sessions as well as documentary film show, farm visits, industry visit, visits to outreach IFS programme for live demonstration and case studies. The faculty for the short course will consist of eminent scientists/academicians from various scientific research/educational institutions in the region and the country. Balanced emphasis will be given on the theory and hands on practical sessions. The participants are encouraged to bring information on IFS technologies developed by their institute for discussion and interactive session. Hence, the short course will provide an excellent opportunity to discuss and exchange ideas/knowledge sharing between the participants and with the experts/resource persons who have made notable contributions in these fields. The period of the short course is 10 days (15-25 September, 2015).

The Host Institute

ICAR Research Complex for North Eastern Hill Region was established in the year 1975 by the Indian Council of Agricultural Research to provide an adequate research base for supporting agricultural development in the North Eastern Hill region of the country. It is the first institute of its kind setup by ICAR which encompasses all the disciplines of agriculture, horticulture, animal sciences, agricultural engineering, agro forestry and fishery to cater to the research needs of the NEH Region. It is one of the major institutes in ICAR family. The headquarters of the Institute is located at Umiam (Meghalaya). The Manipur Centre (Imphal) of the institute is one of the prominent research organizations in the state working in the field of agriculture and allied sectors. The centre has made significant contributions in the area of crop improvement, natural resource conservation, horticulture and played key role in developing farming systems & related technologies for various stakeholders, especially for the poor farming community. The centre has experimental farm, seed farm, hi-tech horticultural complex and central instrumentation facility. The centre also has five Krishi Vigyan Kendras under its jurisdiction.

Location & Climate

Manipur is located in North Eastern part of India and shares international border with Myanmar. The state is well known for its scenic beauty and cultural heritage. The weather of Imphal during September is quite pleasant. The average temperature during the day and night is expected to be around 28°C and 18°C, respectively. A couple of shower is always expected during this period. Relative humidity is expected to be around 70 to 90%. The participants should carry light warm cloths as night temperature may drop sometimes during this period.

The Participants

The Winter School is meant for active researchers and extension functionaries working at the rank of Scientist/Assistant Professor/Subject Matter Specialist or above in the National Agricultural Research System (NARS), with minimum qualification of M.Sc./M.Tech. or equivalent degree from any recognized university in all the relevant disciplines of agriculture and allied fields. A maximum of 25 participants will be selected for the course by a screening committee as per ICAR guidelines. The decision of the selection committee will be final.

TA, Boarding & Lodging

The boarding, lodging and TA expenses of the selected participants will be met as per norms and operational guidelines of ICAR for organization of short course. Participants will be paid travel (to and fro) fare by rail (restricted to AC-II tier) or by bus as per their entitlement. Actual TA for the shortest route will be paid on production of the tickets. No DA will be provided by the organizers. All the participants will be provided good hospitality (breakfast, lunch, evening tea and dinner) and free shared accommodation in the Institute Scientist Home. Participants are requested not to bring their spouse or any family members as there is no scope for additional accommodation.