



INFORMATION BROCHURE

Model Training Course

on

‘Integrated crop management practices for enhancing productivity, resource-use efficiency, soil health and livelihood security’

(October 3–10, 2017)

Sponsored by

Department of Agriculture Cooperation & Farmers Welfare,
Ministry of Agriculture & Farmers Welfare,
Govt. of India, New Delhi

Course Director

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Course Coordinators

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Background

Integrated crop management (ICM) concept has been adopted recently in agriculture and is of much significance and relevance than the individual approach of soil, water, nutrients, crops, pests and energy management. Thus, ICM is a combination of integrated nutrient management (INM), conservation agriculture (CA), integrated weed management (IWM), integrated water management (IWm), integrated pest management (IPM), integrated disease management (IDM), integrated energy management (IEM), integrated post-harvest management etc. Overall, it is an alternative system of crop production which conserves and enhances natural resources while producing quality food on an economically viable and sustainable foundation.

In current scenario, the deteriorated soil-water-plant continuum is direly indicating the urgent need to follow ICM principles in the agrarian sector especially in vulnerable areas. The lack of knowledge about site-specific/resource-base specific ICM modules for different cropping systems/different agro-ecological situations, thus, urge for training of agricultural officers of State Departments of Agriculture as well as KVK scientists about these socially acceptable, practically feasible and environment resilient ICM recommendations in this frontier area of research and development.

Very few organizations are working on ICM concept. The farm scientists of IARI, New Delhi are working in this frontier area of research. The IARI has also developed some ICM modules for different cropping systems/different agro-ecological situations, thereby; this institute is organizing this MTC training for agricultural officers/KVK scientists to transfer the innovations on ICM practices at field level. In order to address the production-, resource- and climatic-vulnerability related issues at farm level, the current training for extension officers/extension field functionaries of the country will scale-up their knowledge on ICM technologies and speed-up the adoption of ICM technologies at farm level.

Objectives

This MTC would definitely shape-up our current crop management practices to address the emerging matrix of agricultural problems in holistic manner. This training aims to train and aware the extension officers with ICM practices to tackle production-, resource- and climatic-vulnerability issues of farm sector; to train and aware the extension officers with integrated soil, crop, pests and energy management practices for promising cropping systems for improving system productivity and profitability; to know about the benefits of ICM practices in enhancing the resource-use efficiency, resources and energy conservation, GHG emission reduction and soil health management; and to aware the extension functionaries about minimal agro-chemical use for efficient pest & disease management and quality food.

Course Content

The entire course curriculum would emphasize upon the theoretical and practical aspects of ICM components i.e. integrated nutrient management (INM), conservation agriculture (CA), integrated weed management (IWM), integrated water management (IWm), integrated pest management (IPM), integrated disease management (IDM), integrated energy management (IEM), and integrated post-harvest management etc. Major production-, resource- and climatic-vulnerability issues of Indian agriculture and their possible solutions following ICM concept would also be the part of course curriculum. Importance of ICM concept and its relevance in enhancing productivity, profitability, resource-use efficiency and soil health would be the prime focus of the training. Various climate resilient and resource-efficient ICM modules for different cropping systems/agro-ecosystems would also be suggested in the MTC. ICM practices for precision nutrient and water management practices, crop residue management and even the biocompost & biomass utilization for improved soil health and agricultural sustainability would also be covered under this MTC. Role of biofertilizers and PGPRs' as component of ICM modules, inclusion of legumes, carbon sequestration, GHG reduction

and climate resilience, integrated weed and pest management practices for quality food etc. would be the main content of this course.

Among practical aspects, the computation of fertilizer/manure doses for soil/foliar application, computation of herbicide/pesticide doses, maintenance of spray equipments, farm machinery use for energy use optimization, pesticide residue analysis in farm produce, post-harvest handling/storage management, and improvement and quantification of site-specific ICM modules for enhanced factor productivity, farm profitability, and soil health under various farming systems and prominent cereal/oilseed/pulse/vegetable based and even fodder based cropping systems etc. would be the prime course curriculum of this MTC.

Course duration

October 03–10, 2017

Eligibility

This Model Training Course is meant for the state extension/developmental officers of agriculture and horticulture, soil conservation and watershed management, dairy and livestock management; and KVK scientists of ICAR/SAUs in the area of Agronomy/Soil Science/Crop Protection/ /Agricultural Extension/Agricultural Economics/ Agricultural Engineering/ Soil Water Conservation /Horticulture/ Microbiology/ Dairy & Livestock management/Food Technology/ Agroforestry or any other related disciplines. The total number of participants shall be limited to 20. All the applications must be routed through proper channel. There are no course fee charges to participants for attending this training.

Travel, Boarding and Lodging

The boarding, lodging, and TA expenses of the selected participants from the State Departments of Agriculture/Horticulture/ Dairying and other related allied state departments will be met from the funds provided by the Ministry of Agriculture as per norms and operational guidelines for organization of Model Training Courses. Participants will be paid to-and-fro fare for journey by train (strictly III AC) or bus or other

means of transport in vogue as the case may be. Actual TA will be paid on production of a tickets/certificate by the participants. *However, the participants coming from ICAR/SAUs/KVKs, the TA and DA expenditure will have to be borne by their nominating organization/institute, and the boarding and lodging will be provided by the organizers.* The participants will be provided accommodation in the Guest Houses/Trainee Hostels of the Institute.

How to apply?

Application for participation in the MTC may be made in the prescribed format as given herewith and forwarded by the competent authority where the candidate is employed. Applicants may send an advance copy if they anticipate delay in forwarding through proper channel. However, the final selection will be made only if the application duly recommended by the competent authority is received. The selected candidates will be intimated within 3 days of the receipt of their application.

After the candidates are intimated of their selection, they should immediately reply with firm acceptance. Cancellation at the last moment for casual reasons after acceptance is undesirable as it will deprive other eager candidates who could have availed of the opportunity.

IMPORTANT DATES

Last date for receipt of the application	25/09/2017
Intimation of Selection	26/09/2017
Participation confirmation by the candidates	28/09/2017

How to reach IARI

IARI popularly known as 'Pusa Institute' is located at Pusa Campus in East Patel Nagar about 10 kms from 'Maharana Pratap-ISBT', 8 kms west of New Delhi Railway Station, and about 16 kms east of IGI Airport. Pre-paid taxi/auto can be availed at railway/airport/bus stations to reach at IARI, New Delhi.

Application form for Participation in MTC

(To be sent to the Course Director of MTC)

1. Full name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (Give E-mail, Tel. / Mobile No.):
5. Permanent address:
6. Sex: Male/Female
7. Marital status: Married/unmarried
8. Academic record (Indicate in tabular form examinations passed from B.Sc. degree onwards, Main subjects, Year of passing, Class / rank / University / Institution, Other information):
9. Service experience:
10. Signature of applicant (indicate name of place and date):
11. Recommendation of the forwarding Institute (Signature, date, designation / address):

CERTIFICATE

It is certified that the above information was furnished as per the office record and was found correct.

(Signature and Designation of sponsoring authority)

Applications/nominations may be sent to:

Dr. Anil K. Choudhary
Course Director & Senior Scientist
Division of Agronomy
Indian Agricultural Research Institute
New Delhi-110012. INDIA.
Mobile: 087438-39766
Tel.: 011-25841488(O)
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For further information please contact:

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