

Training on
Advances in Integrated Pest and Disease Management
(AIPDM)
18-22 August 2025



Course Director

Dr. M.L. Jeeva

Course Coordinators

Dr. S.S. Veena

Dr. E.R. Harish

Dr. T. Makesh Kumar

Organized by

Division of Crop Protection

ICAR - Central Tuber Crops Research Institute

Sreekariyam, Thiruvananthapuram - 695017, Kerala

About ICAR-Central Tuber Crops Research Institute

The ICAR-Central Tuber Crops Research Institute (ICAR-CTCRI), established in 1963 under the Indian Council of Agricultural Research, is the only institution in the world exclusively devoted to tropical tuber crops research. The institute is headquartered in Thiruvananthapuram, Kerala, with a Regional Station in Bhubaneswar, Odisha. The All India Coordinated Research Project on Tuber Crops (AICRP-TC) operates from the headquarters, coordinating research, development, and extension activities across 18 states and one union territory (Andaman and Nicobar Islands).

Tropical tuber crops include cassava, sweet potato, yams, and aroids (elephant foot yam, taro, and tannia), as well as minor crops like Chinese potato, arrowroot, and yam bean. These crops serve as crucial staple foods in many developing regions and have wide-ranging applications in food, feed, and industrial sectors.

Over the past six decades, ICAR-CTCRI has made significant contributions in the development of sustainable technologies for the production, protection, and value-added processing of tropical tuber crops. A total of 77 improved varieties have been released, tailored to diverse agro-ecological conditions. The institute has also been addressing the challenges posed by biotic stresses and integrated disease management strategies have been one of our key focus areas.

In addition, the institute houses an Agri-Business Incubator and Techno-Incubation Centres at both at headquarters and the Regional Station. These centers play a pivotal role in fostering entrepreneurship among farmers, startups, and other stakeholders through technology transfer, skill development, and enterprise support.

Background

Pests and diseases pose significant challenges to agricultural productivity, and their impact has intensified in recent years due to climate change. Altered weather patterns have led to the emergence and spread of new pests and pathogens, causing severe economic losses, especially in crops like tubers. Insects such as mealybugs, mites, whiteflies, and weevils, along with diseases caused by viruses, fungi, bacteria, and nematodes, have become increasingly difficult to manage using conventional methods alone. Overreliance on chemical pesticides has raised concerns over environmental safety, resistance development, and impacts on non-target organisms. There is an urgent need to adopt integrated pest and disease management (IPDM) strategies that combine cultural, biological, mechanical, and chemical methods in an ecologically sound manner. This training programme on 'Advances in Integrated Management of Pests and Diseases (AIMPD)' is designed to update stakeholders on recent developments, promote sustainable practices, and strengthen capacity for effective pest and disease management across diverse cropping systems.

Objectives

- To train with novel techniques for diagnosing pests and diseases
- To apprise and teach crop health management through holistic approach

Course Contents

- Identification of pests and diseases
- Management aspects of pests and diseases through chemical, biological approaches, soil health and weed management
- Molecular identification of pests and diseases viz., standardization of DNA isolation protocols, Polymerase Chain Reaction (PCR)
- RNA isolation from pest and infested plant samples
- Identification and management strategies of plant parasitic nematodes (PPN)
- Various modalities under BOLD (Barcode of Life Database) submission
- Pest management using CTCRI developed cassava based biopesticides
- Field demonstration on effectiveness of biopesticides against tuber crop pests

Duration

Duration of the course is five days from 18-22 August 2025. The outstation participants are expected to arrive latest by the evening of 17 August 2025. The participants are advised to schedule their return journey only after 5.00 PM on 22 August 2025.

Eligibility

Participant should be students/ staff from ICAR Institutes/ SAUs/ CAU/ Deemed to be Universities/ Colleges/ KVKs, State Departments of Agriculture/ Horticulture, Entrepreneurs etc. Maximum intake of participants to this training programme will be limited to 20 based on first come first serve basis. Interested participants may apply using QR code or by sending their application in the prescribed format by email (jeevactcri@gmail.com) on or before the last date **08 August 2025** with the details of the training fee remitted through NEFT transfer.

Training fee

Rs.5000/- plus 18% GST amounting to Rs.5900/-per head

Payments may be made to following account:

Account Name	:ICAR UNIT-CTCRI
Account No	:57019705533
Branch	: SBI, Kallampally IFSC : SBIN0070288

Travel, Food and Accommodation

The lodging and boarding expenses are to be borne by the participants. Guest house accommodation will be provided on payment, subject to the availability and on prior intimation (Rs. 300 to 400 per person per day).

Venue and Location

The programme will be held at ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram-695017, Kerala which is about 12 km away from Thiruvananthapuram Central Railway station/Air port/ Bus terminal and well connected with bus/pre-paid auto facility.

Dates to remember

Last date of submission of application: 08 August 2025

Date of training : 18-22 August 2025

APPLICATION FORM



▶ Scan & Apply

Name (in Block letters) :
Designation & office address :
Gender :
Postal address (In capital letters) :
Date of birth and age :
Nationality :
Educational qualifications :
Experience :
Mobile number :
Email ID :

Whether accommodation is required at ICAR-CTCRI (Yes/No):

Payment details

Mode of payment :
Transaction ID :
Bank details :
Date of transaction :
Amount : ₹

Signature of the applicant

Date :

Place :

Contact

Director

ICAR-CTCRI (0471-2598431)

E-mail: director.ctcri@icar.org.in, Website: <https://www.ctcri.org>

Dr. M.L. Jeeva (Course Director)

Principal Scientist, Division of Crop Protection

ICAR - Central Tuber Crops Research Institute, Sreekariyam, TVM - 695017 Mobile

No. 9446102163 (Off. 0471-2598551 to 2598554 Ext 223)

Fax: 0471 - 2590063

E-mail: jeevactcri@gmail.com