

TRAINING CALENDAR 2025-2026



भाकुअनुप-केन्द्रीय कन्द फसल अनुसंधान संस्थान

(भारतीय कृषि अनुसंधान परिषद्) श्रीकार्यम, तिरूवनन्तपुरम 695 017, केरल, भारत

ICAR-Central Tuber Crops Research Institute (Indian Council of Agricultural Research)

Sreekariyam, Thiruvananthapuram 695 017, Kerala, India







ICAR-Central Tuber Crops Research Institute

(Indian Council of Agricultural Research)
Sreekariyam 695 017, Thiruvananthapuram, Kerala, India

TRAINING CALENDAR 2025-2026

From the Director



With profound happiness, I am presenting the training calendar for the year 2025-26 for the benefit of the stakeholders in our country. The training programmes are meticulously designed to empower the participants with the advanced knowledge, skills and confidence to excel in respective areas. Whether you are a beginner eager to learn the basics or an experienced professional looking to refine your expertise, this training programme offers a comprehensive and engaging learning experience tailored to meet your needs. This calendar is designed to serve as your comprehensive guide to the training opportunities available to support your professional growth and skill

development. In today's dynamic world, staying updated and continuously enhancing capabilities is vital for both individual career and organizational success. The sessions outlined in this calendar have been carefully curated to address a broad spectrum of needs, from foundational skills to advanced techniques tailored to specific roles. Whether you are looking to sharpen your technical expertise, enhance soft skills, or explore new areas of interest, this calendar provides a diverse range of options to suit your goals.

Our goal is to create a supportive and interactive environment where you can explore new concepts and techniques, apply practical skills through hands-on activities, gain insights from real-world examples and case studies and collaborate with peers to broaden your perspective. During the course of the training, you will have access to expert guidance and valuable resources to ensure that you achieve your learning objectives. By the end of this programme, you will not only have enhanced your capabilities but also developed a strong foundation for future growth and success in your area of expert.

Thank you for taking this important step in your professional journey. Let's embark on this learning adventure! Together, let's move, in the journey of continuous learning and growth.

Panele

G. Byju Director



About ICAR-CTCRI

The ICAR-Central Tuber Crops Research Institute (ICAR CTCRI) was established during the Third Five Year Plan for intensification of research on tuber crops (other than potato). The Institute started functioning on 01 July 1963 with its headquarters (HQ) at Sreekariyam, Thiruvananthapuram, Kerala. It has one Regional Station (RS) at Bhubaneswar, Odisha. The ICAR-CTCRI is conducting basic, strategic and applied research on various edible tropical tuber crops. The All India Coordinated Research Project on Tuber Crops (AICRP TC) was started in 1968 for testing and popularizing the location specific tuber crops technologies in various parts of India. It has presently 21 centres including ICAR-CTCRI HQ and Regional Station. The Institute is also one of the centres of the All India Co-ordinated Research Project on Pre and Post-Harvest Technology as well as AINPOF.

Vision

Root and tubers for ensuring better health, wealth generation and inclusive growth.

Mission

To integrate root and tuber crops as sustainable farming system components to ensure food and nutritional security of the nation and livelihood improvement of rural population.

Mandate

- Basic, strategic and applied research on genetic resource management, crop improvement, sustainable production and utilization of tropical tuber crops.
- Co-ordinate research and validation of technologies through AICRP on Tuber Crops.

Core Values of ICAR-CTCRI

- Innovations
- Diversity
- Commitment
- Excellence
- Farmers welfare

Divisions/Sections/Regional Station of ICAR-CTCRI

The Institute has three divisions, two sections and one regional station for doing research and development on tropical tuber crops.

- 1. Division of Crop Improvement
- 2. Division of Crop Production
- 3. Division of Crop Protection



- 4. Section of Crop Utilization
- 5. Section of Extension and Social Sciences
- 6. Regional Station, Bhubaneswar, Odisha

Mandate Crops

- 1. Cassava: Manihot esculenta Crantz, Euphorbiaceae
- 2. Sweet potato: *Ipomoea batatas* (L.) Lam., Convolvulaceae
- 3. Greater yam: Dioscorea alata L., Dioscoreaceae
- 4. White yam: *Dioscorea rotundata* Poir., Dioscoreaceae
- 5. Lesser yam: Dioscorea esculenta (Lour.) Burk., Dioscoreaceae
- 6. Elephant foot yam: Amorphophallus paeoniifolius (Dennst.) Nicolson, Araceae
- 7. Taro: Colocasia esculenta (L.) Schott., Araceae
- 8. Tannia: Xanthosoma sagittifolium (L.) Schott., Araceae
- 9. Giant taro: Alocasia macrorrhiza (L.) Schott., Araceae
- 10. Swamp taro: Cyrtosperma chamissonis (Schott.) Merr., Araceae
- 11. Chinese potato: *Plectranthus rotundifolius* (Poir.) Spreng., Lamiaceae
- 12. Yam bean: Pachyrrhizus erosus (L.) Urban, Fabaceae
- 13. West Indian arrowroot: Maranta arundinacea L., Marantaceae
- 14. Queensland arrowroot: Canna edulis (Ker-Gawler), Cannaceae
- 15. East Indian arrowroot: Curcuma angustifolia Roxb. Zingiberaceae





Core Training Areas

Crop Improvement	Crop Production	Crop Protection	Crop Utilization	Extension and Social Sciences
 Molecular breeding Gene editing Plant tissue culture and related techniques Molecular tools and techniques 	 Nutrient management Organic farming Natural farming Hi tech cultivation Urban farming Quality planting material production Integrated farming systems Soil, plant and water analysis 	 Integrated pests and diseases management Organic management of pests and diseases Mass production of bio agents 	 Processing techniques Value addition Development of machineries Mechanization 	 R package Entrepreneurship development Smart farming Intellectual property management Business incubator management



Training Programmes (April 2025 - March 2026)

1. Title : Processing, Value Addition and Entrepreneurial Opportunities

in Tuber Crops

Date : 09-13 June 2025

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Value addition in tuber crops, primary and secondary processing

equipment for tuber crops, processing techniques for preparation of cassava flour and starch, potential uses of cassava starch, starch modification process, extrusion processing of tuber crop starches/flour, ready to eat bakery products, intermediate moisture foods, functional foods, tuber crop based snacks and industrial products, tuber crops based animal feed, by-products utilization, cassava leaf based bio formulations for plant protection, cassava based bioethanol and biodegradable packaging films, postharvest deterioration in cassava, sensory evaluation of snack products, quality parameters of tuber crop, nutrition and bio-chemical analysis, best agronomic practices for producing quality products, tuber crop varieties suitable for industrial processing, quality improvements in starch and sago industries and standardization of cassava products, on-farm processing centres, techno-economic feasibility of value added products, business models, role of common facility centres for entrepreneurship development, handson training on development of value added products and field visits

to the processing units.

Eligibility : Employees from ICAR Institutes/State AUs/CAU/Deemed to be

Universities/Colleges affiliated to general Universities who are interested/associated with value addition and allied aspects of agro

processing.

Training fee (Rs.) : 10000 + GST(18%)

Course Director : Dr. M.S. Sajeev

Course Coordinator : Dr. A.N. Jyothi, Dr. T. Krishnakumar and Dr. C. Pradeepika

Contact details : Dr. M. S. Sajeev, Principal Scientist

E-mail:sajeev.ms@icar.gov.in Mobile:+91 9446102911



2. Title : Advances in Integrated Pest and Disease Management

Date : 18-22 August 2025

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Crop health management – holistic approach, biotic and abiotic

factors lead to crop loss, soil health and its role in managing biotic and abiotic factors, production of pest and disease free planting materials, field and lab level identification of pest and diseases, novel techniques for pest and disease diagnosis, management of biotic and abiotic factors, biopesticides developed from cassava leaves,

demonstration on effectiveness of various biopesticides.

Eligibility : Students/Staff from ICAR Institutes/SAUs/CAU/ Deemed to be

Universities/Colleges/KVKs, State Departments of Agriculture/

Horticulture, Entrepreneurs etc.

Training fee (Rs.) : 5000 + GST(18%)

Course Director : Dr. M.L. Jeeva

Course Coordinator : Dr. S.S. Veena, Dr. E.R. Harish and Dr. T. Makesh kumar

Contact details : Dr. M.L. Jeeva, Principal Scientist

E-mail: jeeva.ml@icar.gov.in

Mob: 9446102163

3. Title : Molecular Markers Techniques for Crop Improvement

Date : 08-12 September 2025

Duration : 7 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Basic molecular techniques including good laboratory practices,

preparation of stock solutions, DNA isolation and quantification, Gel electrophoresis, PCR amplification and diversity analysis, gene

mapping using SSR markers.

Eligibility : Researchers, academicians and students in basic plant

biotechnology and molecular laboratory techniques

Training fee (Rs.) : 7000 + GST(18%)



Course Director : Dr. C. Mohan

Course Coordinator : Dr. K.M. Senthilkumar

Contact details : Dr. C. Mohan, Principal Scientist

E-mail: mohan.c@icar.gov.in Mobile: +91 9495201553

4. Title : Tuberous Vegetables Based Nutrigardens by Organic and

Urban Farming

Date : 01-05 December 2025

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Organic farming

Protocols for organic production of tuberous vegetables, integrated organic farming system involving tuber crops, eco-friendly pest and bio-intensive disease management, hands-on-experience on the preparation of different organic manures namely panchagavya, beejamrit, ghana and drava jeevamrit, vermicompost, vermiwash, etc., visit to organic farmers fields and promotion of organic farming

Urban and semi urban farming

and nutrigardens.

Soil and soilless cultivation by different media mixes, nutrient management, and low cost hydroponics and high-tech cultivation

aspects for yield and planting material production.

Eligibility : Students/Staff from ICAR Institutes/SAUs/CAU/ Deemed to be

Universities/Colleges/KVKs, State Departments of Agriculture/

Horticulture, Entrepreneurs etc.

Training fee (Rs.) : 5000+GST (18%)

Course Director : Dr. J. Suresh Kumar

Course Coordinators: Dr. G. Suja and Dr. S. Sunitha

Contact details : Dr. J. Suresh Kumar, Scientist

E- mail: suresh.j@icar.gov.in Mobile: +91 8075397038



5. Title : Quality planting material production and value addition in

tropical tuber crops

Date : 15-19 December 2025

Duration : 5 days

Venue : Regional Station, ICAR-CTCRI, Bhubaneswar

Training areas : Importance of tropical tuber crops, area & distribution, climate &

soil suitability, characteristics of different varieties in tuber crops and its nutritional value, crop production technologies, nutritional deficiency toxicity disorders and its control measures, nutrient management and INM strategies, pests and diseases in tuber crops and its management, IPM/IDM strategies in tuber crops, preparation of value added products in tuber crops. Practicals on collection of soil and plant samples and analysis, estimation of soil chemical properties using standard extraction and estimation procedures, biological parameters, plant sample analysis, nutrient recommendations based on soil test, generation of soil health cards, calculation of soil quality indices and soil health. Preparation of

value added products in tuber crops.

Eligibility : Assistant Horticultural Officers (AHOs), Horticultural Officers

(HOs), Assistant Directors of Horticulture (ADHs), Students/Staff from ICAR Institutes/ SAUs/ CAU/ Deemed to be Universities/ Colleges/ KVKs, State Departments of Agriculture/ Horticulture,

Entrepreneurs etc.

Training fee (Rs.) : 8000 + GST(18%)

Course Director : Dr. K. Laxminarayana

Course Coordinator : Dr. R. Arutselvan

Contact details : Dr. K. Laxminarayana, Principal Scientist & SIC

Regional Station of ICAR-CTCRI Dumuduma Housing Board Post Bhubaneswar-751019, Odisha

E- mail: laxmi.narayana@icar.gov.in;

klnarayana69@rediffmail.com

Mobile: +91 9437018169; 9348568328



6. Title : Soil, Plant and Water Analysis for Efficient Nutrient

Management

Date : 05-09 January 2026

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Collection of soil, plant and water samples and analysis, soil

physical parameters and chemical parameters using standard extraction and estimation procedures and with Soil Test based Fertilizer Recommendation (STFR) kit, biological parameters, irrigation water quality assessment, plant sample analysis, nutrient recommendations based on soil test, generation of soil health cards, customized fertilizer formulations, calculation of soil quality indices

and soil health.

Eligibility : Students/Staff from ICAR Institutes/SAUs/CAU/ Deemed to be

Universities/Colleges/KVKs, State Departments of Agriculture/

Horticulture, Entrepreneurs etc.

Training fee (Rs.) : 5000 + GST(18%)

Course Director : Dr. V. Ramesh

Course Coordinators: Dr. K. Susan John and Dr. Jeena Mathew

Contact details : Dr. V. Ramesh, Principal Scientist

E- mail: ramesh.v1@icar.gov.in

Mobile: +91 9486960928

7. Title : Hands-on Training on R for Biological Data Analysis

Date : 19-23 January 2026

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Installing R and R Studio, R syntax fundamentals, working with data

structures, basic functions and data manipulation, summary statistics and data visualization with ggplot2, identifying outliers and anomalies, statistical analysis of experimental data in R,



hypothesis testing (t-tests, ANOVA, chi -squared tests), non-parametric tests, regression analysis, correlation and regression analysis in R, statistical modeling in agriculture with R, multivariate analysis in R, exploratory data analysis and visualization in R, response surface methodology (RSM) and PCA analysis in R, introduction to big data analytics in R, machine learning applications: application of machine learning techniques to biological data, using deep learning for image analysis or sequence classification, role of feature engineering in preparing data for machine learning, time series analysis for big data in R, big data tools and ecosystems in R, introduction to R for breeding.

Eligibility : Participants are expected to possess a fundamental grasp of biology

and some familiarity with programming concepts. Prior experience

with R is desirable but not mandatory.

Training fee (Rs.) : 8000+GST (18%)

Course Director : Dr. J. Sreekumar

Course Coordinators: Dr. C. Visalakshi Chandra and Dr. P. Prakash

Contact details : Dr. J. Sreekumar, Principal Scientist & Scientist In Charge

E-mail: sreekumar.j@icar.gov.in

Mobile:+91 8281839985

8. Title : Smart Farming driven by Artificial Intelligence

Date : 02-06 February 2026

Duration : 5 days

Venue : ICAR-CTCRI, Thiruvananthapuram

Training areas : Introduction to AI in agriculture, understanding smart farming

concepts, AI technologies in agriculture, data collection and sensing techniques, data analysis and predictive modeling, resource management and optimization, pest and disease detection, automation and robotics, integration with farm management systems, case studies and best practices, hands-on training and practical application, ethical and regulatory considerations,

evaluation and certification.



Eligibility : Scientists, teachers and students of NARS, other R&D institutions

and Universities of Governmental and Non-Governmental systems.

Training fee (Rs.) : 5000 + GST(18%)

Course Director : Dr. V. S. Santhosh Mithra Course Coordinators : Dr. K. M. Senthilkumar

Contact details : Dr. V. S. Santhosh Mithra, Principal Scientist

E-mail: vss.mithra@icar.gov.in

Mobile: +91 9495155965

Training Methodology

• Front end teaching

- Interactive training
- Hands on training
- Experiential learning

Training Partners

• ICAR Institutes, SAUs, Universities, NAARM, MANAGE, IMG, IITs etc.

Facilities at ICAR-CTCRI

- Air conditioned smart lecture halls of varying seating capacity equipped with advanced audio visual aids
- Computer labs with GIS, multimedia, E-learning facilities
- Conference rooms for video conferencing
- State of the art training halls with all modern facilities
- Well equipped laboratories
- Fully furnished guest rooms to accommodate 50 participants
- Library with latest editions of books and journals
- Campus wide Wi-Fi connectivity
- Agri Business Incubation centre with all facilities for the incubates and upcoming start ups
- Agricultural Knowledge Management Unit (AKMU)
- Dairy Unit
- Techno Incubation Centre (TIC)
- Departmental Canteen





Integrated organic farming system



AAS laboratory



Library



Agricultural Knowledge Management Unit



Agri Business Incubation centre



Techno-Incubation centre



Museum



Dairy Unit



Guest House

How to Apply

The interested candidates may send their filled-in applications (as per the format attached) for various training programmes to the concerned course director through e-mail. Participants for the training will be selected after an initial screening and selected candidates will be informed individually.

Fee Payment Details

Account Name : ICAR UNIT CTCRI

Account No : 57019705533

Bank : State Bank of India

Branch : Kallampally IFSC Code : SBIN0070288



Faculty of ICAR-CTCRI

Crop Improvement

- 1. Dr. Manas Ranjan Sahoo, Principal Scientist (Horticulture) & Head
- 2. Dr. P. Murugesan, Principal Scientist (Vegetable Science)
- 3. Dr. K.I. Asha, Principal Scientist (Economic Botany and PGR)
- 4. Dr. C. Mohan, Principal Scientist (Genetics and Plant Breeding)
- 5. Dr. A. Asha Devi, Principal Scientist (Genetics and Plant Breeding)
- 6. Dr. Shirly Raichal Anil, Principal Scientist (Genetics and Plant Breeding)
- 7. Dr. L.K. Bharathi, Principal Scientist (Vegetable Science)
- 8. Dr. N. Krishna Radhika, Senior Scientist (Agricultural Biotechnology)
- 9. Dr. Kalidas Pati, Senior Scientist (Vegetable Science)
- 10. Dr. C. Visalakshi Chandra, Senior Scientist (Genetics and Plant Breeding)
- 11. Dr. K.M. Senthilkumar, Senior Scientist (Agricultural Biotechnology)
- 12. Dr. T.P. Sujatha, Scientist (Agricultural Biotechnology)
- 13. Dr. S. N. Rahana, Scientist (Genetics and Plant Breeding)
- 14. Mr. K. Hanume Gowda, Scientist (Vegetable Science)

Crop Production

- 1. Dr. G. Byju, Director (Soil Science)
- 2. Dr. G. Suja, Principal Scientist (Agronomy) & Head
- 3. Dr. M. Nedunchezhiyan, Principal Scientist (Agronomy)
- 4. Dr. K. Susan John, Principal Scientist (Soil Science)
- 5. Dr. S. Sunitha, Principal Scientist (Agronomy)
- 6. Dr. K. Laxminarayana, Principal Scientist (Soil Science) & SIC, Regional Station
- 7. Dr. K. Sunilkumar, Principal Scientist (Vegetable Science)
- 8. Dr. V. Ramesh, Principal Scientist (Soil Science)
- 9. Dr. R. Muthuraj, Principal Scientist (Seed Science and Technology)
- 10. Dr. R. Saravanan, Principal Scientist (Plant Physiology)
- 11. Dr. Jeena Mathew, Senior Scientist (Soil Science)
- 12. Dr. J. Suresh Kumar, Scientist (Vegetable Science)



Crop Protection

- 1. Dr. T. Makeshkumar, Principal Scientist (Plant Pathology) & Head
- 2. Dr. M.L. Jeeva, Principal Scientist (Plant Pathology)
- 3. Dr. S.S. Veena, Principal Scientist (Plant Pathology)
- 4. Dr. E.R. Harish, Senior Scientist (Agricultural Entomology)
- 5. Dr. H. Kesava Kumar, Senior Scientist (Nematology)
- 6. Dr. B.G. Sangeetha, Senior Scientist (Agricultural Biotechnology)
- 7. Dr. R. Arutselvan, Scientist (Plant Pathology)

Crop Utilization

- 1. Dr. A.N. Jyothi, Principal Scientist (Agricultural Chemicals) & Scientist in Charge
- 2. Dr. M.S. Sajeev, Principal Scientist (Agricultural Structures & Process Engineering)
- 3. Dr. C. Pradeepika, Scientist (Vegetable Science)
- 4. Dr. T. Krishnakumar, Scientist (Agricultural Structures & Process Engineering)

Extension and Social Sciences

- 1. Dr. J. Sreekumar, Principal Scientist (Agricultural Statistics) & Scientist in Charge
- 2. Dr. Sheela Immanuel, Principal Scientist (Agricultural Extension)
- 3. Dr. V.S. Santhosh Mithra, Principal Scientist (Computer Applications & IT)
- 4. Dr. P. Sethuraman Sivakumar, Principal Scientist (Agricultural Extension)
- 5. Dr. D. Jaganathan, Senior Scientist (Agricultural Extension)
- 6. Dr. P. Prakash, Scientist (Agricultural Economics)

HRD Team

Nodal Officer : Dr. Sheela Immanuel, Principal Scientist

E-mail: sheela.immanuel@icar.gov.in

Co-Nodal Officer : Dr. P. Prakash, Scientist

E-mail: prakash.p1@icar.gov.in

Members : Dr. Shirly Raichal Anil, Dr. R. Muthuraj, Dr. S. Karthikeyan,

Sri. T. Manikantan Nair, Smt. S.S. Sneha, Smt. Rini Alocious,

Sri. Sreenath Vijay and Sri. P. Aswin Raj

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Telephone: 0471-2598431/E-mail: director.ctcri@icar.gov.in

APPLICATION FORM

Name				
Gender				
Designation & office address (if employed)				
Postal Address (In capital letters)				
Date of birth and age				
Nationality				
Educational qualifications				
Experience				
Mobile number				
Email ID				
Training course applied for				
Whether accommodation is required at ICAR-CTCRI (Yes/No)				
Date:				
Place:	Signature of the applicant			
For office use o	nly			
SAO/FAO/Cashier Pls.				
A total amount DD / online payment of Rs	+18% GST may			
be accepted from the candidate towards the training fee for.				
DD NO / Online transaction No				
of				
A A O FORTA DA JOAN (ENTE				
AAO, ESTABLISHMENT	Signature of the Course Director			

March 2025

TRAINING CALENDAR 2025-2026

Compiled and edited by

Dr. Sheela Immanuel, Dr. P. Prakash and Dr. D. Jaganathan

Published by Dr. G. Byju Director



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Tuber Crops for Food, Health, Wealth and Prosperity







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Social Media







