

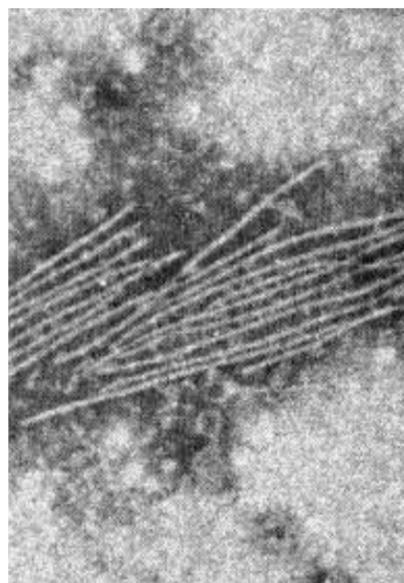
VENUE & LOCATION

Department of Plant Pathology
College of Agriculture, Bhubaneswar
Odisha University of Agriculture & Technology
(OUAT)
Bhubaneswar, Odisha-751003

CONTACT

Dr. Sandeep Kumar

Assistant Professor, Department of Plant Pathology,
College of Agriculture, OUAT, Bhubaneswar
email- plantvirology@ouat@gmail.com
Mobile no: +91 8280124228



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Course Director

Dr. (Mrs.) Deepa Khulbe

Professor & Head
Department of Plant Pathology, CA, OUAT, Bhubaneswar

Co-Course Director

Dr. Arabinda Dhal

Officer-in-Charge, AICRP on Mushrooms, OUAT, Bhubaneswar

Course Coordinator

Dr. Sandeep Kumar

Assistant Professor, Department of Plant Pathology, CA,
OUAT, Bhubaneswar

Course Co-Coordinators

Dr. (Mrs) Anita Priyadarshini

Assistant Professor, CTMRT, Department of Plant Pathology,
OUAT, Bhubaneswar

Dr. Sushri Sangita Bal

Assistant Professor, AICRP on Medicinal & Aromatic plants and
Betelvine, OUAT, Bhubaneswar



Announcement-cum-Invitation

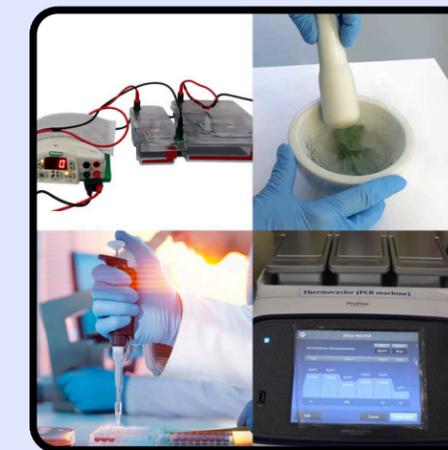


1 Week Hands-on training
on

Detection, Diagnosis and Management
of Plant Viral Diseases

for
Students

March 19 to March 25, 2026



Course Director

Dr. (Mrs.) Deepa Khulbe

Professor & Head
Department of Plant Pathology, CA,
OUAT, Bhubaneswar

Course Coordinator

Dr. Sandeep Kumar

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OUAT, Bhubaneswar

Sponsored by

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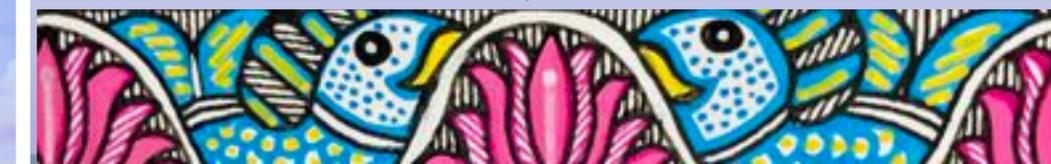
Viral Diseases in Odisha

Department of Plant Pathology

College of Agriculture, Bhubaneswar

Odisha University of Agriculture & Technology

Bhubaneswar, Odisha-751003



About Hands-on training

Plant viral diseases are a major problem in agricultural and horticultural crops, reducing yield and quality. Since symptoms are often confusing and the viruses spread quickly through vectors and infected planting materials, early detection and correct diagnosis are essential for effective management.

Different techniques are used for the detection of plant viruses, ranging from conventional to advanced molecular methods. Traditional approaches include observation of characteristic disease symptoms. Microscopic techniques such as electron microscopy allow direct visualization of virus particles. Serological methods, especially ELISA are widely used for routine and large-scale detection due to their specificity and simplicity. Molecular techniques like PCR and its variants provide highly sensitive and accurate detection of DNA and RNA viruses, while real-time PCR enables quantification of viral load. Advanced methods such as bioinformatics analysis allow simultaneous detection of known and novel viruses, making them powerful tools for comprehensive virus diagnosis and surveillance.

Advanced diagnostic techniques have revolutionized the detection of plant viruses and, in turn, enabled the development of effective and targeted management strategies.

The present hands-on training is designed to provide an overview of advanced serological and molecular diagnostics for the early and sensitive detection of major plant viruses and virus-like pathogens, while enabling students to develop and disseminate effective, eco-friendly management strategies for plant viral diseases.

About Plant Virology lab



Odisha govt.'s first plant virology laboratory is a landmark initiative for strengthening plant health and agricultural research in the state. Designed as a state of the art center, the lab focuses on rapid and precise diagnosis of viral diseases, helping farmers minimize crop losses through timely advice and interventions. Its advanced facilities for virus isolation, identification and characterization support research on major viral diseases of pulses, fruits and vegetables, which are crucial for nutrition and income security. The laboratory will also serve as a key training hub for students, faculty and field officers, building local expertise in modern plant virology techniques. Through systematic disease surveillance and reliable testing of planting materials, this facility is expected to promote healthier crops, higher productivity and better quality produce and, ultimately, more secure livelihoods for the farming communities of Odisha.

Eligibility

Students of B.Sc. (Agriculture/Horticulture) second year onwards are eligible for this training. A total of 25 candidates shall be nominated by the Dean, CA, OUAT, Bhubaneswar.

How to Apply

The nominated candidates need to apply through the Google form mentioned below by 18th March, 2026.

https://docs.google.com/forms/d/e/1FAIpQLScdoKIJ9OL7L3wQO-wTIKmBJh6gA4_nvQPKblMvRUyE-JZtFw/viewform?usp=publish-editor

There is no course fee for this training. In case of any difficulty in applying online using Google form, the participants are advised to contact the Course Coordinator or can email to plantvirologyabout@gmail.com

Travel & Accommodation

There is no accommodation for the participants. They will be provided with breakfast and lunch.

Assessment & Certificate

After completion of the training, the participants will be evaluated with an objective to assess how far the training programme succeeded in reaching up to them to enhance their competence on various techniques covered. The participants will be presented with a certificate on completion of the training.