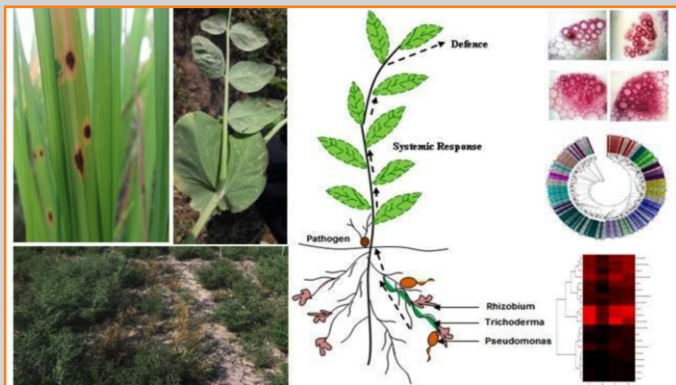


Integrated Disease Management



Billion dollars of crop loss is caused by plant diseases worldwide each year. No single disease management strategy is applicable to all plant pathogens. Factors like modern agricultural practices and climate change helped in evolution of new pathogen races. Farmers depend heavily on synthetic pesticides to manage plant diseases. Indiscriminate use of such chemicals has harmed all life forms. Integrated disease management (IDM) strategies advocate managing plant diseases with minimal use of synthetic pesticides. However, IDM strategies are based on understanding the pathogen etiology, diversity and evolution. Genomics of plant pathogens contributed to understanding of pathogen diversity and evolution. Additionally, biotechnological tools supported management of pathogens against whom resistant source is not available in cultivated species. Therefore, the IDM course is designed to give a clear picture of plant pathogens; processes of disease development; management of some important cereals, pulses, fruits, vegetables and oilseed diseases; and approaches of plant disease management utilizing genomics and biotechnological tools.

COURSE NAME

Integrated Disease Management

START DATE

February 20, 2018

DURATION

6 Weeks

PREREQUISITES

None

REGISTRATION

Open and free of charge

Instructor

Prof. B. K. Sarma
BHU, Varanasi

Operations

Dr. Neeta Singh
Ms. Revathy KT
Mr. Deepak Kumar
Mr. Abhishek Shukla
Mr. K.K. Dubey
Ms. Sugatha Chaturvedi
Ms. Aparna Gaikwad
Mr. Aditya Vadlamani
Mr. Avinash Karnick

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Who should attend this course

- UG and PG Students of Agriculture and allied sciences
- Faculty of SAUs
- Agriculture Scientists in ICAR
- Professionals in State Department of Agriculture
- Specialists working in KVKs
- NGOs in Agriculture
- Progressive farmers/ Farming community

Course content

Concepts of plant diseases	Pulse and vegetable diseases and their management
Principles of plant disease management	Diseases of fruit crops and their management
Major diseases of field crops and their management	Applications of genomics and biotechnology in plant disease management

At the end of the course, a participant should know about

- Climate change and plant diseases
- Emerging plant pathogens
- Host resistance
- Biotechnology and plant disease management
- R-gene mediated host resistance
- Genomics in plant disease management

Certificates

Qualifying students will be given certificates based on their involvement and performance. Participation certificate and Competency certificate will be issued by Center for Development of Technical Education, IIT Kanpur and Commonwealth of Learning (COL), Canada.

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For more information contact: info@agmoocs.in



Integrated Disease Management

