



Vocational Certificate Course on Mass Scale Production of Bio-Pesticides

23rd November to 22nd December, 2023

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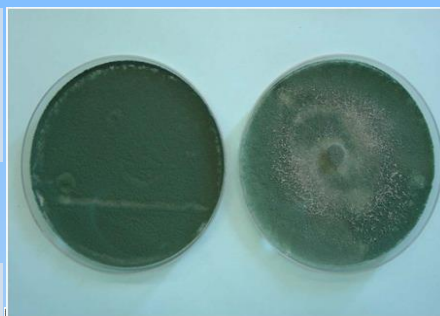
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Jointly Organized by

Department of Plant Pathology & Entomology, SKNCOA, Jobner and
IDP-NAHEP SKN Agriculture University, Jobner-303 329, Jaipur (Raj.)



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Demand and scope of the course

In nature every ecosystem exists in a balance. Growth and multiplication of each organism depends on the food-chain, its predators, parasites, etc. In biological control system, these interrelations are exploited. The natural enemy of a pest, disease or weed is selected, its biology is studied for mass multiplication and utilize the same to check the target pest. They are also specific in their action and perish once their feed (i.e. the pest) is exhausted. Thus they are based on natural principles, do not leave any residue, safe and economical.

Among the alternatives, biological control of pests is one of the important means for checking pest problems in almost all agro-ecological situations. **Bio pesticides** are living organisms which can intervene the life cycle of insect pests in such a way that the crop damage is minimized. The agents employed as biopesticides, include parasites, predators and disease causing fungi, bacteria and viruses, which are the natural enemies of pests. Further, they complement and supplement other methods of pest control. Utilisation of naturally occurring parasites, predators and pathogens for pest control is a classical biological control. On the other hand, these bio agents can be conserved, preserved and multiplied under Laboratory condition for field release. Once these bio-agents are introduced in the field to build their population considerably, they are capable of bringing down the targeted pest' population below economic threshold level (ETL).

S.No.	Topics
1	An Overview of biocontrol agents
2	Basic concepts and principles of Plant pathology
3	Biotic and Abiotic causes of plant diseases
4	Principles of Plant Disease Management and IDM
5	Methods of diagnosis and detection of important crop diseases
6	Acquaintance with various laboratory equipment's &Glassware's .
7	Identification of Bio-control agents.
8	Preparation of media, Mass multiplication of Trichoderma based formulation
9	Identification of diseases and pests of field and horticultural crops
10	Identification of common NEs of crop pests (parasitoids, predators, microbes) and weed killers
11	Preparation of plant extract: neem, karanj etc
12	An Overview of some biopesticides and uses in IPM
13	Large scale adoption of biocontrol agents: challenges and opportunity
14	Role of biocontrol agents in IPM
15	A global perspective of entomopathogens as microbial biocontrol agents of insect-pests
16	Recent advances for biological control of insect-pests
17	Hands on training on mass production of microbials (entomopathogenic fungi and NPV)
18	Mass Production techniques of important biocontrol agents
19	The hands on practical sessions on rearing of rice moth, <i>Corcyra cephalonica</i> , mass production procedure of <i>Trichogramma</i> spp. and Tricho-card preparation
20	Biological control of invasive insect-pests
21	Use of botanical pesticides in pest management
22	Field visits and lab visits.

Contact us:

For any query regarding the course one may contact to the following E-mail address and mobile numbers

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