

Training Program on “Production protocols of bioinputs for sustainable agriculture”	
Course Synopsis	Under this training, the trainees are provided with hands on experience on mass production of different microbial biopesticides and biocontrol agents. This training programme imparts knowledge on various aspects of Production Protocol for microbial biopesticides, preparation and maintenance of pure cultures of fungus and bacteria and production protocol and formulations for bio pesticides such as NPV, <i>Trichoderma viridae</i> , <i>Pseudomonas spp</i> , Entomopathogenic fungi, etc. the production protocols for host cultures, parasitoids, predators, entomopathogenic nematodes etc.
Course Duration	02 Weeks
Justification/ Rationale	NIPHM is a National level premier institute under the administrative control of the Department of Agriculture, Ministry of Agriculture & Farmers Welfare, and Government of India. NIPHM is promoting environmentally sustainable Plant Health Management practices in diverse and changing agro-climatic conditions through capacity building programmes. The value of bioinputs as a part of Integrated Pest Management (IPM) programs has led to a notable increase in their use in India.
Aims & Objective of the course	To impart knowledge and skills on <ul style="list-style-type: none"> ● Non chemical options for sustainable soil and plant health management ● Mass production of different biopesticides viz., such as NPV, <i>Trichoderma viridae</i>, <i>Pseudomonas spp</i>, Entomopathogenic fungi, etc. ● Mass production and field release techniques of biocontrol agents (predators & parasitoids) ● Botanicals for pest management ● Mass production of Entomopathogenic nematodes. ● Mass production of biofertilizers, etc.
Expected Outcome of the course	During the training course the participants will acquire skill /hands-on practices in the following areas: <ul style="list-style-type: none"> ● Mass production of bio-pesticides, biofertilizers ● Mass production of parasitoids and predators
Eligibility conditions of the participants	Graduate, Post Graduate and PhD in agriculture/ plant sciences
Target Participants	Scientists/Officers working in research institutes or bio control labs

