



राष्ट्रीय वनस्पति स्वास्थ्य प्रबंधन संस्थान NATIONAL INSTITUTE OF PLANT HEALTH MANAGEMENT

Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India

Rajendranagar, Hyderabad - 500 030, Telangana INDIA

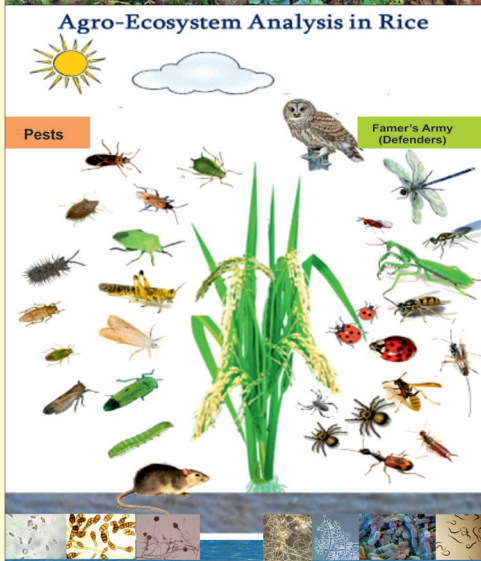
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रा व स्वा प्र सं
NIPH M

प्रशिक्षण अनुसूची 2015-16 / Training Schedule 2015-16

Agro Eco-System Analysis based Plant Health Management



Ecological Engineering for Pest Management



Growth in agricultural production, which is dependent on several factors such as weather conditions, soil fertility, irrigation etc., is further subject to debilitating influence of pests and nutritional imbalances. It is estimated that in India, crop losses due to pests will be in the range of 10 to 30%, which may be exacerbated due to the looming threat of climate change. Intensive use of ecosystems to enhance productivity can erode ecosystems and cause disruption to the flow of ecosystem services, which in-turn will affect plant health and biosecurity. There is an urgent need to update the scientific knowledge of the stakeholders in agricultural sector, more so in the light of emerging challenges.

About NIPHM

National Institute of Plant Health Management (NIPHM) is a premier national level institute under the administrative control of the Department of Agriculture and Cooperation, Government of India. Established in the year 1966 at Hyderabad, the Institute, as approved by the Union Cabinet, was converted as an autonomous body on 24th October, 2008 with an expanded scope of promoting environmentally sustainable Plant Health Management practices in diverse and changing agro-climatic conditions and Biosecurity Management and Pesticide Management through capacity building programmes, besides providing inputs for policy formulation on Plant Health Management, biosecurity, Invasive Alien Species, market access, etc. at state and national level.

The capacity building programmes in different areas are offered by NIPHM through on campus programmes at Hyderabad as well as off campus programmes in India and foreign countries by its following 4 major technical divisions: a) Plant Health Management, b) Plant Biosecurity, c) Pesticide Management and d) Information and Communication Technology. NIPHM also specializes in Plant Health Engineering and Vertebrate Pest Management.

Aim of the Training Programmes

Develop a committed and competent cadre of professionals to promote sustainable plant health and biosecurity management in India & her neighbourhood.

A BRIEF OUTLINE OF THE PROGRAMMES

Post Graduate Diploma in Plant Health Management (PGDPHM): 1 yr Programme

The programme develops expertise in plant health management, the science and practice of understanding and overcoming the biotic and abiotic factors that limit plants from achieving their full genetic potential as crops. The programme also imparts skills to address the emerging challenges in Biosecurity and Pesticide Management. The programme is open for Graduates in Agriculture/ Horticulture and Post Graduates in Life Sciences.

Agro-Ecosystem Analysis (AESA) & Ecological Engineering

Globally IPM practices underwent several improvements and over the years AESA has gained universal recognition and acceptance. AESA takes into account the intricate interdependence among various components of an ecosystem, particularly the dynamics of pests and defenders. AESA also enlists farmers participation in decision making, based on experiential learning through Farmers Field Schools. The programmes also provide insights to the emerging field of ecological engineering for pest management.

Plant Biosecurity & Incursion Management

Significance of Pest Risk Analysis, Pest Surveillance & diagnostics in biosecurity management and threats of invasive alien species in the context of globalization are highlighted in the programme, besides exposure to SPS Measures and the relevant International standards.

On-Farm Production of Biocontrol Agents & Microbial Biopesticides to Promote AESA based Plant Health Management in conjunction with Ecological Engineering for Pest Management

The programme imparts skills in Mass Production Techniques for commercially viable biocontrol agents and microbial biopesticides. The trainees will be equipped to train farmers in farm level biocontrol agent and microbial biopesticide's production. Skills for vermicomposting, production of biofertilizers including mycorrhiza and fruit fly lures and traps will also be imparted.

Pesticide Management

Aims at developing expertise in pesticide formulation/residue analysis using conventional as well as modern instrumental methods of analysis. The trainees will also be exposed to good laboratory practices and NABL accreditation requirements.

Vertebrate/Rodent Pest Management

Provides an in-depth analysis of integrated rodent pest management (RPM) that is woven around the ecology and ethology of rodents in diverse agro-ecosystems. Some programmes cater to the requirement of RPM in urban areas, to prevent spread of dreaded Zoonotic diseases such as plague, leptospirosis, scrubtyphus etc.

Plant Health Engineering

Focuses on appropriate engineering systems for pesticide application, calibration of the appliances for proper delivery regime, safe, judicious and efficacious use of pesticides. The significance of droplet size and drift in enhancing bioefficacy will be unravelled.

Courses for Directorate of PPQ&S

Induction training programme for new recruits and transferees and refresher courses for the Officers in biosecurity and plant health management.

Training programmes for Private/Public Sector/NGOs

Programmes in AESA based plant health management, phytosanitary treatment (M.Br./AI P Fumigation), production protocol for Biocontrol agents and biopesticides, urban IPM, Pesticide Formulation and Residue Analysis, Instrumentation in Pesticide Analysis etc. are offered on payment basis.

Admission to the programmes

- Officials from different States/Union Territories, SAUs, ICAR, KVKs, NGOs and Private Sector may be nominated and the nominations should reach the Registrar/ Course Director well in advance.
- Foreign Governments may sponsor their officials by sending the nominations to the Director General through the Ministry of External Affairs, Government of India.
- Industry/NGOs and other Organisations can also sponsor their officials.
- Unemployed Agricultural Graduates can also enroll for the programmes on payment basis.

TRAINING SCHEDULE FOR 2015-2016 (प्रशिक्षण अनुसूचि)

I. Educational Programmes : शिक्षण कार्यक्रम

S. No.	Title of the Programme	Duration	From	To
1.	Post Graduate Diploma Programme in Plant Health Management (PGDPHM)	12 months	August 2015	July 2016
2.	Diploma in Plant Biosecurity, Pesticide Management, Plant Health Management etc.	06 Months	August, 2015 Feb. 2016	Jan. 2016 July 2016

II. CAMPUS TRAINING COURSES FOR OFFICERS OF GOVT./SAUS/ICAR

सरकारी/ राज्य कृषि वि. वि. / भा.कृ.अ.नु.प. के अधिकारियों हेतु संस्थान परिसर में प्रशिक्षण

S. No.	Title of the Programme	Duration	From	To
Plant Biosecurity (वनस्पति जैवसुरक्षा)				
1.	PQ National Regulations & Procedures	06	13.07.2015 01.02.2016 20.06.2016	18.07.2015 06.02.2016 25.06.2016
2.	Bio Security & Incursion Management (BIM)	21	20.07.2015 16.11.2015 08.02.2016	09.08.2015 06.12.2015 28.02.2016
3.	Fundamentals of Biosecurity	06	20.07.2015 16.11.2015 08.02.2016	25.07.2015 21.11.2015 13.02.2016
4.	Pest Risk Analysis	06	06.07.2015 23.11.2015 15.02.2016	11.07.2015 28.11.2015 20.02.2016
5.	Emergency Preparedness & Incursion Management	06	04.08.2015 30.11.2015 22.02.2016	09.08.2015 05.12.2015 27.02.2016
6.	Quarantine Pests: Detection and Identification	21	01.09.2015 31.03.2016	21.09.2015 20.04.2016
7.	Quarantine Pathogens: Seed Health Testing Methods and Molecular Diagnostic Techniques	08	07.09.2015 11.04.2016	14.09.2015 18.04.2016
8.	Stored Grain Pest Detection and Identification and Phytosanitary treatments	21	01.06.2015 04.01.2016	21.06.2015 24.01.2016
9.	Stored Grain Pest Detection and Identification	05	01.06.2015 04.01.2016	05.06.2015 08.01.2016
10.	Phytosanitary Treatments (MBR & ALP)	15	16.06.2015 11.01.2016	30.06.2015 25.01.2016
11.	Stored Grain Pest Management for FCI and CWC officials	06	05.10.2015 09.05.2016	10.10.2015 14.05.2016
12.	Orientation for PEQ Inspection Authority	06	24.06.2015 06.06.2016	29.06.2015 11.06.2016
13.	Pest Surveillance	08	12.10.2015 10.03.2016 18.05.2016	19.10.2015 17.03.2016 25.05.2016

S. No.	Title of the Programme	Duration	From	To
14.	FHAT (Forced Hot Air Treatment)	05	06.07.2015 26.10.2015	10.07.2015 30.10.2015
15.	Orientation for PSC Issuing Authority	06	17.08.2015 14.03.2016	22.08.2015 19.03.2016
16.	Plant Quarantine Procedures for Imports and Exports	05	13.07.2015 01.02.2016	17.07.2015 05.02.2016
17.	SPS Awareness Programme for Senior officers	03	28.03.2016	30.03.2016
18.	SPS Awareness Programme for middle level officers	04	25.08.2015 15.02.2016	28.08.2015 18.02.2016
19.	Workshop on Agricultural Biotechnology	03	08.09.2015	10.09.2015
Plant Health Management (वनस्पति स्वास्थ्य प्रबंधन)				
1.	Crop specific Agro Ecosystem Analysis (AESA) based Plant Health Management (PHM) in conjunction with Ecological Engineering for Pest Management in : (i) Vegetables	30	24.08.2015	22.09.2015
	: (ii) Rice	30	08.12.2015	06.01.2016
2.	Fundamentals of Plant Health Management for Plant health Doctors	21	24.08.2015 09.02.2016	13.09.2015 29.02.2016
3	On farm production of Biocontrol agents and Micorbial Biopesticides to promote Agro Ecosystem Analysis (AESA) based Plant Health Management (PHM) in conjunction with Ecological Engineering for Pest Management (Also open to PGDAEM students of MANAGE & Resource persons of NTI, MANAGE)	10	22.07.2015 05.08.2015 21.09.2015 06.10.2015 17.11.2015 01.12.2015 18.01.2016 01.02.2016 21.03.2016 11.04.2016 16.05.2016 13.06.2016	31.07.2015 14.08.2015 30.09.2015 15.10.2015 26.11.2015 10.12.2015 27.01.2016 10.02.2016 30.03.2016 20.04.2016 25.05.2016 22.06.2016
4.	Farmer's Field School Methodology	06	02.11.2015 05.01.2016	07.11.2015 10.01.2016
5.	Good Agricultural Practices	06	17.08.2015 25.04.2016	22.08.2015 30.04.2016
6.	Rhizosphere Engineering	06	05.08.2015 11.04.2016	10.08.2015 16.04.2016
7.	Economic importance of Plant Parasitic & Entomo-Pathogenic Nematodes	05	21.09.2015 20.06.2016	25.09.2015 24.06.2016
8.	(AESA) based Plant Health Management (PHM) in conjunction with Ecological Engineering for Pest Management	21	24.08.2015 08.12.2015	13.09.2015 28.12.2015
9.	Integrated Soil Nutrient and Weed Management (ISNWM)	07	24.08.2015 08.12.2015	30.08.2015 14.12.2015
10.	Orientation Programme on Principles of AESA PHM in conjunction with Ecological Engineering for Pest Management (DD and above level officers)	03	06.10.2015 06.04.2016	08.10.2015 08.04.2016
11.	Induction Programme in Plant Health Management and Agriculture Extension for New Recruits [collaborative programme between NIPHM (7 days) & MANAGE (6 days)]	13	24.08.2015 01.02.2016	05.09.2015 13.02.2016

S. No.	Title of the Programme	Duration	From	To
12.	Integrated Vertebrate Pest Management	21	04.02.2016	24.02.2016
13.	Refresher Training on Rodent Pest Management	07	09.09.2015 05.01.2016 07.06.2016	15.09.2015 11.01.2016 13.06.2016
14.	Rodent Pest Management in Storage	05	02.11.2015	06.11.2015
15.	Appropriate Pesticide Application Techniques and Farm Level Storage Practices	08	13.07.2015 06.10.2015 18.01.2016 20.04.2016	20.07.2015 13.10.2015 25.01.2016 27.04.2016
16.	Safe and Judicious Use of Chemical Fertilizers and Chemical Pesticides	08	17.08.2015 16.11.2015 01.03.2016 20.06.2016	24.08.2015 23.11.2015 08.03.2016 27.06.2016
Pesticide Management (पीडकनाशि प्रबंधन)				
1.	Calibration of glassware and Laboratory Equipment – Pesticide Formulation Analysis / Quality control	08	14.07.2015 03.06.2016	21.07.2015 10.06.2016
2.	Pesticide Formulation Analysis	66	10.08.2015 03.11.2015 23.02.2016	14.10.2015 07.01.2016 28.04.2016
3.	Inspection, Sampling & Prosecution Procedure under Insecticides Act- 1968	06	14.09.2015 02.11.2015 03.02.2016 03.05.2016	19.09.2015 07.11.2015 08.02.2016 08.05.2016
4.	Pesticide Residue Analysis	30	15.09.2015 19.01.2016	14.10.2015 17.02.2016
5.	Laboratory Quality System Management and Internal Audit as per ISO/ IEC 17025-2005	06	25.09.2015 16.11.2015 27.06.2016	30.09.2015 21.11.2015 02.07.2016
6.	Principles of Pesticide Management	21	06.10.2015	26.10.2015
7.	Method Validation in Pesticide Formulation Analysis and Measurement of Uncertainty	06	12.10.2015 23.12.2015	17.10.2015 28.12.2015
8.	Refresher Program on Analysis of New molecules of Pesticides	10	12.10.2015 15.06.2016	21.10.2015 24.06.2016
9.	Analysis of Household Pesticides	06	26.10.2015	31.10.2015
10.	Sampling of fruits, vegetables and other items for Pesticide Residue Analysis & Calibration of Laboratory Equipment – Residue Analysis / PRA.	08	15.12.2015 12.04.2016	22.12.2015 19.04.2016
11.	Documentation Procedures for NABL Accreditation for PTL and PRLs	04	19.01.2016 24.05.2016	22.01.2016 27.05.2016
12.	Method Validation in Pesticide Residue Analysis and Measurement of Uncertainty	06	16.05.2016	21.05.2016
13.	Training Program for Pesticide Dealers (TPPD)	15	Dates to be decided	

III. Exclusive Programmes for Officers of Directorate of PPQ&S

केवल पादप संरक्षण, संगरोध एवं भंडार निदेशालय के अधिकारियों हेतु संस्थान परिसर में प्रशिक्षण

S. No.	Title of the Programme	Duration	From	To
1.	Induction Training programme for the new recruits of DPPQ&S	90	Dates to be decided	
2.	Induction Training for Transferees to Plant Biosecurity	35		
3.	Induction Training for Transferees to Plant Health Management	35		
4.	Refresher programme Plant Biosecurity	6		
5.	Refresher programme on Plant Health Management	6		
6.	Induction (Sandwich programme)	10		

IV. Programmes Open for Industry and Civil Society (Payment basis)

उद्योग एवं नागरिक संगठनों के अधिकारियों हेतु संस्थान परिसर में प्रशिक्षण (भुगतान आधारित)

Plant Biosecurity (वनस्पति जैवसुरक्षा)

1.	Pest Risk Analysis	06	06.07.2015 23.11.2015 15.02.2016	11.07.2015 28.11.2015 20.02.2016
2.	Stored Grain Pest Detection and Identification and Phytosanitary treatments	21	01.06.2015 04.01.2016	21.06.2015 24.01.2016
3.	Phytosanitary Treatments (MBR & ALP)	15	08.06.2015 11.01.2016	22.06.2015 25.01.2016
4.	FHAT (Forced Hot Air Treatment)	05	06.07.2015 26.10.2015	10.07.2015 30.10.2015
5.	Training Programme for Kadiyam Nursery Men	05	25.04.2016	29.04.2016
6.	Plant Quarantine Procedures for Imports and Exports	05	13.07.2015 01.02.2016	17.07.2015 05.02.2016

Plant Health Management (वनस्पति स्वास्थ्य प्रबंधन)

1.	Fundamentals of Plant Health Management for Plant health Doctors	21	24.08.2015 09.02.2016	13.09.2015 29.02.2016
2.	On farm production of Biocontrol agents and Micorbial Biopesticides to promote AESA based PHM in conjunction with Ecological Engineering for Pest Management	10	21.09.2015 06.10.2015 01.12.2015 01.02.2016	30.09.2015 15.10.2015 10.12.2015 10.02.2016
3.	On farm production of Biocontrol agents and Micorbial Biopesticides to promote Agro Ecosystem Analysis(AESA) based Plant Health Management (PHM) in conjunction with Ecological Engineering for Pest Management – for AP Tobacco growers	05	18.04.2016 02.05.2016 23.05.2016 06.06.2016 27.06.2016	22.04.2016 06.05.2016 27.05.2016 10.06.2016 01.07.2016
4.	On farm production of Biocontrol agents and Micorbial Biopesticides to promote AESA based PHM in conjunction with Ecological Engineering for Pest Management – for Karnataka Tobacco growers	05	26.10.2015 23.11.2015 01.12.2015	30.10.2015 27.11.2015 05.12.2015

S. No.	Title of the Programme	Duration	From	To
5.	On farm production of Biocontrol agents and Micorbial Biopesticides to promote AESA based PHM in conjunction with Ecological Engineering for Pest Management – for Tobacco officials	10	18.01.2016	27.01.2016
6.	Training for Tobacco Senior Grading officers	03	16.12.2015	18.12.2015
7	Refresher Training Programme for AC & ABC Agripreneurs (in collaboration with MANAGE)	05	06.07.2015 26.10.2015 15.02.2016 22.02.2016 07.03.2016	10.07.2015 30.10.2015 19.02.2016 26.02.2016 11.03.2016
8.	Refresher Training Programme for Input Dealers under DAESI programme	10	Dates to be decided	
9.	Certificate Course on Urban Integrated Pest Management	15	27.07.2015 07.12.2015 04.04.2016	10.08.2015 21.12.2015 18.04.2016
10.	Integrated Rodent Pest Management in Urban environs	05	28.07.2015 08.12.2015 05.04.2016	01.08.2015 12.12.2015 09.04.2016

Pesticide Management (पीडकनाशि प्रबंधन)

1.	Calibration of glassware and Laboratory Equipment – Pesticide Formulation Analysis / Quality Control	8	14.07.2015 03.06.2016	21.07.2015 10.06.2016
2.	Laboratory Quality System Management and Internal Audit as per ISO/IEC 17025-2005	06	25.09.2015 16.11.2015 27.06.2016	30.09.2015 21.11.2015 02.07.2016
3.	Sampling of fruits, vegetables and other items for Pesticide Residue Analysis & Calibration of Laboratory Equipment – Residue Analysis / PRA	08	15.12.2015 12.04.2016	22.12.2015 19.04.2016
4.	Calibration of Laboratory Equipment – Chromatography and Spectroscopy	05	14.07.2015	18.07.2015
5.	Sampling of fruits, vegetables and other items for Pesticide Residue Analysis	02	15.12.2015 12.04.2016	16.12.2015 13.04.2016
6.	Calibration of Laboratory Equipment – Residue Analysis / PRA	06	17.12.2015 14.04.2016	22.12.2015 19.04.2016
7.	Training Program for Pesticide Dealers	15	Dates to be decided	

V. Programmes for Progressive Farmers

प्रगतिशील कृषको हेतु संस्थान परिसर मे प्रशिक्षण

S. No.	Title of the Programme	Duration	From	To
1.	On-Farm production of Biocontrol agents for Bio-intensive pest management	03	Dates to be decided	
2.	Farmer Training of Trainer Farmers (FTOT) on Rodent Pest Management	03	Dates to be decided	

VI. Off Campus Training Programmes

संस्थान परिसर से बाहर प्रशिक्षण कार्यक्रम

S. No.	Title of the Programme	Duration	From	To
1.	FHAT (Forced Hot Air Treatment)	05	02.05.2016	06.05.2016
2.	Biosecurity & Phytosanitary Awareness	04	Dates to be decided	
3.	Border Pest Surveillance	03		
4.	BIM for Border States	03		
6.	Refresher Training on Rodent Pest Management	05	Dates to be decided	
7.	Training on Vertebrate Pest Management	05	With ICAR Collaboration	

VII. International Training Programmes**Plant Biosecurity (वनस्पति जैवसुरक्षा)**

1.	Bio Security & Incursion Management (BIM)	21	20.07.2015 16.11.2015 08.02.2016	09.08.2015 06.12.2015 28.02.2016
2.	Fundamentals of Biosecurity	06	20.07.2015 16.11.2015 08.02.2016	25.07.2015 21.11.2015 13.02.2016
3.	Quarantine Pests: Detection and Identification	21	01.09.2015 31.03.2016	21.09.2015 20.04.2016
4.	Quarantine Pathogens: Seed Health Testing Methods and Molecular Diagnostic Techniques	08	07.09.2015 11.04.2016	14.09.2015 18.04.2016
5.	Phytosanitary Treatments (MBR & ALP)	15	08.06.2015 11.01.2016	22.06.2015 25.01.2016
6.	Pest Surveillance	08	12.10.2015 10.03.2016 18.05.2016	19.10.2015 17.03.2016 25.05.2016
7.	Emergency Preparedness & Incursion Management	06	04.08.2015 30.11.2015 22.02.2016	09.08.2015 05.12.2015 27.02.2016
8.	FHAT (Forced Hot Air Treatment)	05	06.07.2015 26.10.2015	10.07.2015 30.10.2015
9.	Pest Risk Analysis	06	06.07.2015 23.11.2015	11.07.2015 28.11.2015
10.	Stored Grain Pest Detection and Identification and Phytosanitary treatments	21	01.06.2015 04.01.2016	21.06.2015 24.01.2016
11.	Regional Plant Health System Analysis	15	08.12.2015	22.12.2015
12.	SPS awareness programme for middle level officers	04	25.08.2015 15.02.2016	28.08.2015 18.02.2016
13.	Workshop on Agricultural Biotechnology	3	08.09.2015	10.09.2015

Plant Health Management (वनस्पति स्वास्थ्य प्रबंधन)				
S. No.	Title of the Programme	Duration	From	To
1.	Crop specific AESA based PHM in conjunction with Ecological Engineering for Pest Management in : (i) Vegetables	30	24.08.2015	22.09.2015
	: (ii) Rice		08.12.2015	06.01.2016
2.	Fundamentals of Plant Health Management for Plant health Doctors	21	24.08.2015 09.02.2016	13.09.2015 29.02.2016
3.	Good Agricultural Practices	06	17.08.2015 25.04.2016	22.08.2015 30.04.2016
4.	Rhizosphere Engineering	06	05.08.2015 11.04.2016	10.08.2015 16.04.2016
5.	AESA based Plant Health Management in conjunction with Ecological Engineering for Pest Management	21	08.12.2015 24.08.2015	28.12.2015 13.09.2015
Pesticide Management (पीडकनाशि प्रबंधन)				
1.	Calibration of glassware and Laboratory Equipment – Pesticide Formulation Analysis / Quality control	08	14.07.2015 03.06.2016	21.07.2015 10.06.2016
2.	Pesticide Formulation Analysis	66	10.08.2015 03.11.2015	14.10.2015 07.01.2016
3.	Pesticide Residue Analysis	30	15.09.2015 19.01.2016	14.10.2015 17.02.2016

Facilities

- Accommodation : Air Conditioned Rooms with WiFi entertainment facilities.
- Library : Enriched with collection of journals and books of national & international repute.
- Audio-Visual-Aids : The lecture rooms are equipped with modern audiovisual facilities.
- ICT : Internet / WiFi facility is provided to the participants
- Medical Assistance : A senior Medical Consultant visits the Hostel daily.

How to Reach NIPHM: Visit the Institute Website : <http://niphm.gov.in>

Hyderabad Weather

Hyderabad enjoys a fairly moderate weather throughout the year. During summer months (March–May) the average temperatures hover around 39°C. The rainy season (June–September) is fairly long and receives good amount of rainfall. During winter (October–February) minimum temperatures will be in the range of 6°C to 14°C.

Contact Details

Registrar, National Institute of Plant Health Management (NIPHM),
Rajendranagar, Hyderabad 500 030
Telephones : +91-40-24015374, 24015378; Tele-fax : +91-40-24015346 / 24015053,
E-Mail : niphm@nic.in (or) infoniphm@nic.in (or) registrarniphm@nic.in
Visit us at : <http://niphm.gov.in>

Nominations of the domestic participants may be sent to the Registrar / or Course Director:
For more detail please visit the website: <http://niphm.gov.in>

Fumigation (Methyl Bromide): Pest Free Grain Export



Forced Hot Air Treatment (FHAT) : Pest Free Wood Packing Material



International Training Programmes



On-farm Production of Biocontrol Agents and Biofertilizers



Mass production of Trichoderma

Mass multiplication of Mycorrhiza



Projects

Capacity Building

Education



Adaptive Research

Policy Development

Consultancy