DEPARTMENT OF ZOOLOGY, HINDU COLLEGE, UNIVERSITY OF DELHI organizes

SHORT-TERM COURSE

on

INTEGRATED PEST MANAGEMENT (IPM): EFFECTIVE, ECONOMICAL AND ECO-FRIENDLY WAYS OF KEEPING INSECT PESTS AT BAY





RESOURCE PERSONS:

Dr. Paula Levin Mitchell Professor Emerita, Department of Biology Winthrop University, USA

Dr. Manoj K Navak

Principal Research Scientist, Leader, Postharvest Grain Protection Unit - Crop and Food Science, Agri - Science Queensland, Department of Agriculture and Fisheries

Dr. S. Subramanian F.R.E.S

Principal Scientist, Division of Entomology, Indian Agricultural Research Institute, New

Dr Raghavendra K V Scientist, NCIPM, IARI, New Delhi

Dr. Kalleshwara Swamy

M.Sc (Agri), Ph.D., PGDAGM, FAAPMHE Assistant Professsor of Entomology, College of Agriculture, UAHS

Dr. Kuldeep Singh

Scientist and Officer Incharge, IMCR -National Institute of Malaria Research

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Sr Assistant Professor, Department of Zoology, Hindu College, University of Delhi

Dr. Indrakant K Singh

Assistant Professor, Department of Zoology, Deshbandhu College, DU

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Assistant Professor, Cotton University,

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Ph. D. (Ent), PGDMCJ

FESI, DST Inspire Fellow Scientist (Sr. Scale) Division of Entommology, IARI, Pusa Campus, New Delhi

Mr. Kiran Kumar Salam

Assistant Professor, Department of Zoology, Hindu College, University of Delhi

REGISTER HERE:

https://forms.gle/ARR4HTd2 h1KDNWdt9

CONCEPT NOTE

Integrated Pest Management (IPM) is a fairly modern concept with major shift from age-old principles of pest control that relied heavily on chemical treatments. IPM is a holistic approach that relies on a combination of common-sense practices that use current, comprehensive information on the life cycles of pests and their interaction with the broader environment. This information, in combination with available pest control methods, is used in effective way to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment.

IPM is a systems approach that takes advantage of all available appropriate pest management options including, but not limited to, the judicious use of pesticides. For organic food production, however, many of the same concepts as IPM are applied, but the use of pesticides is limited to those that are produced from natural sources, as opposed to synthetic chemicals.

OBJECTIVE

Through this short-term add-on course on IPM, the students shall be able to comprehend the fundamental principles of pest management in a very easy-to-understand manner, and enable them to take informed choices if they wish to pursue research studies in this field and establish themselves as IPM professionals in future.

LIMITED SEATS!

NUMBER OF SEATS - 30 FEE - ₹1000/- PER STUDENT

ELIGIBILITY - Students enrolled in a regular UG course in any University, with basic knowledge of Life Sciences. Scientific aptitude and passion for recording observations in the surroundings, and research is a must.

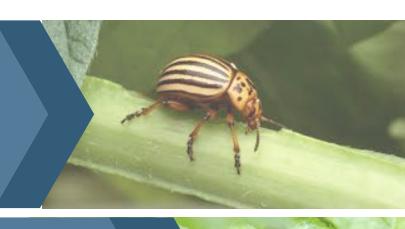
PLATFORM - GOOGLE MEET 🗔



ABOUT IPM:

Principles of an IPM Program

- A. Identify pests, their hosts and beneficial organisms before taking action
- B. Establish monitoring guidelines for each pest species
- C. Establish an action threshold for the pest
- D. Prevention
- E. Evaluate and implement control tactics
- Monitor, evaluate and document the results



Various methods/tools used in IPM

- 1) Alteration of surroundings so as to make it unfavourable for the establishment of pest population
- 2) Introduction of natural enemies of the pest: Predators, parasites and pathogens
- 3) Grow plants that resist pests
- 4) Disrupt development of pest by using Insect Growth Regulators (IGRs) \
- 5) Identify the initial symptoms of pest damage and prevent the pest population from reaching the Economic Injury Level or EIL
- 6) Disrupt pest behavior by using sex pheromones, repellents, etc.
- 7) Use botanical pesticides
- 8) Need-based and judicious use of chemical pesticides



Advantages of an IPM Program

- Lower cost intervention
- Benefits to environment
- 3. Minimize residue hazards of synthetic pesticide
- 4. Safe for human health

SCHEDULE:

26 Sept. 2020	3 Oct. 2020	10 Oct. 2020	17 Oct. 2020
An overview of the Course; Fundamental concepts of IPM	Destructive phytophagous insect pests	Comprehensive account of Pest control methods	Pest Control methods: Use of Endocrine disruptors: IGRs
Dr Subramanian	Dr Subramanian Dr Anupam V. Sharma	Dr Raghavendra K V	Dr Anjana S. Naorem/ Dr Anupam V. Sharma
Management of Stored grain pests	Variation in mouthparts of insects; significance in pest management	Pest Control methods: Biological control	Biotechnological interventions in pest control
Dr Manoj Nayak	Dr Anupam V. Sharma	Prof. Paula Mitchell	Dr Indrakant K. Singh
Interactive session	Interactive session	Interactive session	Interactive session
24 Oct. 2020	31 Oct. 2020	7 Nov. 2020	21 Nov. 2020
Insect vectors and diseases	Success Stories of IPM In India	Student Presentations	Student Presentations
Mr Kiran K.Salam	Dr Kalleswara Swamy	Q&A Session	Q&A Session
Lacunae in vector control programs	Scope of the course	28 Nov. 2020	
Dr Kuldeep Singh	Dr Anupam V. Sharma	Student Presentations	
Interactive session	Interactive session	Q&A Session	VALEDICTORY

TIMINGS: 2pm - 5pm

No session has been scheduled for 14th Nov. 2020 on account of Diwali festival on 15th Nov.2020

For Queries :-

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EXECUTIVE COMMITTEE

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