Integrated Plant Protection

2 hrs

3 hrs

15 hours

4 hrs

4 hrs

60 hours

	e of Course:		Integrated Plant Pr	otection	
Nodal	Department of HEI to run cours	se	_		
Broad Area/Sector		Plant Protection			
Sub Sector			Plant Health Management		
Nature of Course-Independent/Progressive			Independent		
Name of suggestive Sector Skill Council			Agriculture Skill Council of India [ASCI]		
Aliened NSQF level			4		
Expec	ted fees of the course- Free/Paid				
Stipen	d to student expected from indu	stry			
Number of Seats					
Course Code:			Credits: 03 (1 Theory, 2 Practical)		
Max. Marks: 100			Min Marks:		
Name	of proposed Skill Partner (Pleas	e specify Name			
	ustry, Company etc. for				
	cal/Training/internship/OJT)				
Job prospects-Expected Fields of occupation where			Agripreneurs, Organic Farming, Plant Health		
student will be able to get job after completing this			Consultancy		
	(Please specify name/type of inc	lustry)			
Syllab	us				
_ -	I	1	_		
Unit	Topics	General/Skill	Theory/Practical/OJ	No of	No of
Unit	Topics	General/Skill component	Theory/Practical/OJ T/Internship/Traini	Theory Hrs	Skill Hrs
Unit	Topics			Theory Hrs (Total-15	Skill Hrs (Total-60
Unit	Topics		T/Internship/Traini	Theory Hrs (Total-15 Hrs=1	Skill Hrs (Total-60 Hrs=2
			T/Internship/Traini ng	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60
Unit	Need for Plant Protection: Threat		T/Internship/Traini	Theory Hrs (Total-15 Hrs=1	Skill Hrs (Total-60 Hrs=2
I	Need for Plant Protection: Threat and Economic significance		T/Internship/Traini ng	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2
	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest		T/Internship/Traini ng	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2 Credits)
I	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical,		T/Internship/Traini ng Theory - 01	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2
I II	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control		T/Internship/Traini ng Theory - 01 Theory - 03	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2 Credits)
I	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms;		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2 Credits)
I II	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08 Theory - 05	Theory Hrs (Total-15 Hrs=1 Credit) 1 hr	Skill Hrs (Total-60 Hrs=2 Credits)
I II	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of Horticultural crops- pathogen,		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08	Theory Hrs (Total-15 Hrs=1 Credit)	Skill Hrs (Total-60 Hrs=2 Credits)
I II	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08 Theory - 05	Theory Hrs (Total-15 Hrs=1 Credit) 1 hr	Skill Hrs (Total-60 Hrs=2 Credits)
I II	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of Horticultural crops- pathogen, symptoms, etiology and		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08 Theory - 05 Practical- 16	Theory Hrs (Total-15 Hrs=1 Credit) 1 hr	Skill Hrs (Total-60 Hrs=2 Credits)
I II III	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of Horticultural crops- pathogen, symptoms, etiology and management		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08 Theory - 05 Practical- 16 Theory - 01	Theory Hrs (Total-15 Hrs=1 Credit) 1 hr	Skill Hrs (Total-60 Hrs=2 Credits)
I II III	Need for Plant Protection: Threat and Economic significance Insect and Non-insect Pests. Pest management: Physical, Chemical and Biological Control Plant diseases and symptoms; Common diseases of Horticultural crops- pathogen, symptoms, etiology and management Defence mechanisms in plants -		T/Internship/Traini ng Theory - 01 Theory - 03 Practical- 08 Theory - 05 Practical- 16	Theory Hrs (Total-15 Hrs=1 Credit) 1 hr 3 hrs	Skill Hrs (Total-60 Hrs=2 Credits) 16 hrs

Suggested Readings:

VI

Weed management

Management

Good Practices for Plant Health

Title of Course:

- 1. Gupta V K, Paul T S, 2004. Fungi & Plant diseases. Kalyani publishers, New Delhi 6.
- 2. Kerruish, R M, Unger, P W. *Plant protection 1: Pests, Diseases and Weeds*, 4th edition, Root Rot Press 22 Lynch Street, Hughes, Canberra, ACT, Australia (e-book available)

Practical-02

Theory - 03

Practical-02

TOTAL

- **3.** Verma L R, Verma A K, Goutham D C, 2004. *Pest Management in Horticulture Crops: Principles and Practices*. Asiatech Publ., New Delhi.
- 4. Susheela, K., Satyanarayana N. *Illustrative Guide on Weed Regulation*, NIPHM, Hyderabad, (ebook).
- 5. Chaube H S, Ramji S, 2001. Introductory Plant Pathology. International Book Distributing Co. Lucknow.
- 6. Plants Health Newsletter, NIPHM, Hyderabad, India.

Suggested Digital Platforms/Web Links for Reading: www.niphm.gov.in

Suggested OJT/ Internship/Training/Skill Partner):

Suggested Continuous Evaluation Methods: Projects/Assignments from the topics of the course.

Course Pre-requisites:

To study this course, a student must have the subject BIOLOGY in class 12th/Certificate/Diploma.

Suggested equivalent online courses: Plant Pathology and Soil Health on SWAYAM portal

Any remarks/suggestions:

Notes:

*Number of units in Theory/Practical may vary as per need.

- *Total Credits/semester-3 (There can be more credits, but student will get only 3 credits/semester or 6 credits/year)
- *Credits for Theory = 01 (Teaching Hours = 15)
- *Credits for Internship/Training/Practical = 02 (Training Hours = 60)

Name: Dr Rohan John D'Souza

Department: Botany, St. John's College, Agra.