



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)



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173, Agaram Road, Selaiyur, Tambaram,
Chennai - 600 073. Tamil Nadu.

05.07.2019

From
Head of the Department,
School of Agricultural Sciences,
Bharath Institute of Higher Education and Research,
Chennai- 600 073

To
The Dean,
School of Agricultural Sciences,
Bharath Institute of Higher Education and Research,
Chennai- 600 073

Respected Sir,

Sub: Permission for conducting value added course — Reg.

I'm writing to express my interest in teaching a three-week value-added course on **Fundamentals of Plant Health Management for Plant Health Doctors** beginning on August 3, 2019.

Thanking you sir,

Head of the Department

Head of the Department
School of Agricultural Sciences
Bharath Institute of Higher Education And Research
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Chennai- 600 073, India.



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Date: 05-07-2019

SCHOOL OF AGRICULTURAL SCIENCES

CIRCULAR

Notification for Value added courses offered by the School of Agricultural Sciences

The School of Agricultural Sciences will offer a 3-week course titled “**Fundamentals of Plant Health Management for Plant Health Doctors**” starting on August 8, 2019. On or before July 30, 2019, interested students should contact Ms. R.M. Gokula Lakshmi, Assistant Professor and Course Coordinator, School of Agricultural Sciences, for registration and further information.

Eligibility- I and II B.Sc., (Hons.)Agriculture


Course Coordinator


Dean- Agriculture

Copy to:

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments

DEAN - AGRICULTURE
Chennai-600 073, INDIA.
Chennai-600 073, INDIA.



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SCHOOL OF AGRICULTURE

Fundamentals of Plant Health Management for Plant Health

Doctors

(2019-2020)

COURSE CO-ORDINATOR DETAILS

Faculty Name : Ms. R.M. Gokula Lakshmi, Assistant Professor,
Faculty of Agricultural Sciences
Email ID : agrikokila@gmail.com
Mobile number : 8870523432

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF AGRICULTURAL SCIENCES

VALUE ADDED COURSE SYLLABUS 2019-2020

Fundamentals of Plant health management for plant health

Objective:

1. To enhance skills of Students in promotion of AESA based plant health management
2. Acquire knowledge about integrated pest management and concepts of Biological control, and application techniques.
3. To understand the Good Agricultural practise

Module:1 Epidemiology and Diagnosis of Plant pest and diseases: Classification of plant diseases - Disease triangle/ Disease Pyramid - Epidemiology of plant pest and diseases - role of weather factors in pest and disease development - survival and dispersal of plant pathogens- pest and Disease surveillance, assessment and forecasting– Diagnosis of plant pest and diseases- Seed health tests- chemodiagnosis, serodiagnosis and Molecular diagnosis

Module: 2 AESA and Ecological Engineering in pest management: Sustainable pest management in crops, NIPHM organized crop specific, Season long training programme on AESA based PHM in conjunction PHM with Ecological Engineering for pest management in field crops and horticultural are organised. FFS methodology Integrated soil nutrient and weed management, Rhizosphere Engineering and ecological engineering for pest management

Module: 3 Micro biomes plant growth and Biotechnological approaches: Rhizosphere, spermsphere, phyllosphere, epiphytic and endophytic micro biomes and their significance. Plant growth promoting rhizobacteria and soil microorganisms and their interactions – positive and negative interactions. Rhizosphere Engineering and ecological engineering for pest management. Structural and bio chemical resistance in plants. Biotechnological approaches for crop health management.

Module: 4 Integrated Pest Management and good agricultural practise – IPM requirements for successful pest management programme, Cultural, physical, mechanical, Parasitoids, predators and microbial agents in pest management. Identification and mass culturing of different types of parasitoids , predators and entomopathogens identification and mass culturing of different types of parasitoids , predators and entomopathogens . Pesticide formulations and toxicity parameters. Pesticides compatibility, safety and hazards in the use of pesticides – pesticide poisoning - impact of pesticides in agro-ecosystem

TEXT BOOK:

1. Prakasam, V., T. Raguchander and K. Prabakar, 2006. Applied Plant Pathology, A.E. publications, Coimbatore.
2. Dinakaran, D., Arjunan, G and Karthikeyan, G. 2003. Biological control of crop diseases

REFERENCE:

1. Agrios, G.N. 2005. Plant Pathology – (5th Edition). Academic Press, New York.
2. Richard N. Strange. 2003. Introduction of Plant Pathology - John Wiley & Sons Ltd, London
3. Dale Walters (2009). Disease control in crops. Blackwell Publishing Ltd, UK

SCHOOL OF AGRICULTURAL SCIENCES
VALUE ADDED COURSE

FUNDAMENTALS OF PLANT HEALTH MANAGEMENT FOR PLANT HEALTH (2019-2020)

Session	Topic	Date	Duration (Hr)	Resource person
Session 1	Classification of plant Pest and diseases .Epidemiology of plant pest and diseases	03.08.2019	3	Dr. N. Emayavaramban
Session 2	Pest and Disease surveillance, assessment and forecasting,Diagnosis of plant pest and diseases	06.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 3	AESA based PHM in conjunction PHM with Ecological Engineering for pest management	09.08.2019	2	Mr. Kumari Mannan
Session 4	FFS methodology Integrated soil nutrient and weed management	08.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 5	Rhizosphere Engineering and ecological engineering for pest management	12.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 6	Structural and bio chemical resistance in plants	14.08.2019	2	Mr. Kumari Mannan
Session 7	Plant growth promoting rhizobacteria and soil microorganisms	17.08.2019	2	Dr. L. Jeyanthi Rebacca
Session 8	Biotechnological approaches for crop health management.	19.08.2021	3	Dr. N. Emayavaramban
Session 9	IPM requirements for successful pest management programme	20.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 10	Parasitoids, predators and microbial agents in pest management	21.08.2019	3	Dr. N. Emayavaramban
Session 11	Identification and mass culturing of different types of parasitoids , predators and entomopathogens	22.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 12	Pesticides compatibility, safety and hazards in the use of pesticides	24.08.2019	2	Ms. R.M. Gokula Lakshmi
Session 13	pesticide-poisoning and impact of pesticides in agro-ecosystem	26.08.2019	3	Mr. Kumari Mannan

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF AGRICULTURAL SCIENCES**

VALUE ADDED COURSE

Fundamentals of Plant Health Management for Plant Health Doctors (2019-2020)

Students Name list

S.No	Reg No	Name
1	U18AG002	YASHIKA S
2	U18AG004	SIVAPRIYA S
3	U18AG005	ANBARASAN B
4	U18AG006	YOGESHWARAN K
5	U18AG007	K S HIMA BINDU
6	U18AG008	BALAJI V
7	U18AG009	MUTHUVEL G
8	U18AG010	SOWMYA K
9	U18AG011	VAGGA VARSHINI
10	U18AG020	GOWSHIK BALA S M
11	U18AG021	GADDE MANEESH KUMAR
12	U18AG022	DINESH R
13	U18AG023	P JYOTHIKA
14	U18AG027	KAVIYA SRI J
15	U18AG028	GADDE SRI NAGA GOPI
16	U18AG029	JAISON JAYAKUMAR M
17	U18AG030	K SAI CHAITANYA
18	U18AG031	MODDU SAI SUJAN
19	U18AG032	PRAVEEN KUMAR G
20	U18AG033	PEGADA JAYASRI
21	U18AG034	SURIYA R
22	U18AG035	NEELAKANTAM SIVANI
23	U18AG036	KAYYURI POOJITHA
24	U18AG038	SAMMANA HARATHI
25	U18AG039	ASI VYSHNAVI
26	U18AG040	BOYAPATI ANUSHA
27	U18AG041	HARINI N
28	U18AG042	BASKARAN V
29	U18AG043	RAJ KUMAR N
30	U18AG044	RISHITHA
31	U19AG001	ABINAYA. M
32	U19AG003	ABIRAMI. J
33	U19AG004	ABISHEK. R
34	U19AG006	BALAJI. B
35	U19AG007	BANDI. MADHURI
36	U19AG010	DHAIRIYA LAKSHMI
37	U19AG011	DHEERATHANA. P
38	U19AG012	DILIP KUMAR. M
39	U19AG013	GANJI. CHANDU
40	U19AG015	GUTTULA TEJASWI

41	U19AG020	KAVIYA SRI. S
42	U19AG022	KOMALA. N
43	U19AG024	MANISHA. D.J
44	U19AG025	MARAN. S
45	U19AG026	MUGESH. R
46	U19AG034	POOJA PATTU. R
47	U19AG040	SANGEETHA.R
48	U19AG044	SURESH KUMAR B.T
49	U19AG045	SURESH BABU. E
50	U19AG045	SURESH BABU. E
51	U19AG046	THENMOZHILA
52	U19AG047	THIRUMAL.B
53	U19AG048	THULASI G.K

hyan



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SCHOOL OF AGRICULTURAL SCIENCES

Fundamentals of Plant Health Management for Plant Health Doctors

Certificate of Participation

This is to certify that Mr./Ms. SURESH KUMAR B.T (U19AG044) has attended three weeks "Fundamentals of Plant Health Management for Plant Health Doctors" conducted by School of Agricultural Sciences at Bharath Institute of Higher Education and Research, Chennai (TN), India during 3rd August – 28th August 2019.

R. S. Senthil
COURSE COORDINATOR

[Signature]
DEAN-AGRICULTURE

DEAN - AGRICULTURE

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Course Feedback Form

Fundamentals of Plant Health Management for Plant Health Doctors

Date: 26.08.2019

Course Title: Fundamentals of Plant Health Management for Plant Health Doctors

Name: *Asi Vajrmani*

Reg. No.: *V18A9039*

Department: *School of Agricultural Sciences*

S. No.	Particulars	1	2	3	4	5
(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very satisfied)						
1	Objectives of the course clear to you				✓	
2	Course content met with your expectation				✓	
3	Lecture sequence was well planned				✓	
4	Lectures were clear and easy to understand				✓	
5	Teaching Aids were effective					✓
6	Instructors encourage interaction and were helpful					✓
7	The level of the course				✓	
(1. Very Poor 2. Poor 3. Average 4. Good 5. Excellent)						
8	Overall rating of the course				✓	

Please give suggestion for the improvement of the course

Asi Vajrmani
Signature



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Course Feedback Form

Fundamentals of Plant Health Management for Plant Health Doctors

Date: 26.08.2019

Course Title: Fundamentals of Plant Health Management for Plant Health Doctors

Name: Abishek.R

Reg. No.: U19AG004

Department: School of Agricultural Sciences

S. No.	Particulars	1	2	3	4	5
(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very satisfied)						
1	Objectives of the course clear to you					5
2	Course content met with your expectation					5
3	Lecture sequence was well planned					5
4	Lectures were clear and easy to understand					5
5	Teaching Aids were effective					5
6	Instructors encourage interaction and were helpful					5
7	The level of the course					5
(1. Very Poor 2. Poor 3. Average 4. Good 5. Excellent)						
8	Overall rating of the course					5

Please give suggestion for the improvement of the course


Signature

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VALUE ADDED COURSE

Fundamentals of Plant Health Management for Plant health doctors (2019-2020)

Students Feedback

S.No	Reg No	Name	Rating
1	U18AG002	YASHIKA S	3.5
2	U18AG004	SIVAPRIYA S	4.5
3	U18AG005	ANBARASAN B	4.5
4	U18AG006	YOGESHWARAN K	3
5	U18AG007	K S HIMA BINDU	4.4
6	U18AG008	BALAJI V	3.5
7	U18AG009	MUTHUVEL G	4.5
8	U18AG010	SOWMYA K	5
9	U18AG011	VAGGA VARSHINI	4.5
10	U18AG020	GOWSHIK BALA S M	5
11	U18AG021	GADDE MANEESH KUMAR	5
12	U18AG022	DINESH R	5
13	U18AG023	P JYOTHIKA	5
14	U18AG027	KAVIYA SRI J	5
15	U18AG028	GADDE SRI NAGA GOPI	4.5
16	U18AG029	JAISON JAYAKUMAR M	4
17	U18AG030	K SAI CHAITANYA	5
18	U18AG031	MODDU SAI SUJAN	4.5
19	U18AG032	PRAVEEN KUMAR G	5
20	U18AG033	PEGADA JAYASRI	4
21	U18AG034	SURIYA R	4.5
22	U18AG035	NEELAKANTAM SIVANI	5
23	U18AG036	KAYYURI POOJITHA	5
24	U18AG038	SAMMANA HARATHI	5
25	U18AG039	ASI VYSHNAVI	4.5
26	U18AG040	BOYAPATI ANUSHA	5
27	U18AG041	HARINI N	4.5
28	U18AG042	BASKARAN V	4.5
29	U18AG043	RAJ KUMAR N	5
30	U18AG044	RISHITHA	5
31	U19AG001	ABINAYA. M	5
32	U19AG003	ABIRAMI. J	4.5
33	U19AG004	ABISHEK. R	5
34	U19AG006	BALAJI. B	5
35	U19AG007	BANDI. MADHURI	4.5
36	U19AG010	DHAIRIYA LAKSHMI	4
37	U19AG011	DHEERATHANA. P	5
38	U19AG012	DILIP KUMAR. M	5
39	U19AG013	GANJI. CHANDU	4.5
40	U19AG015	GUTTULA TEJASWI	4

41	U19AG020	KAVIYA SRI. S	4.5
42	U19AG022	KOMALA. N	5
43	U19AG024	MANISHA. D.J	4
44	U19AG025	MARAN. S	4
45	U19AG026	MUGESH. R	4
46	U19AG034	POOJA PATTU. R	4.5
47	U19AG040	SANGEETHA.R	4.5
48	U19AG044	SURESH KUMAR B.T	4
49	U19AG045	SURESH BABU. E	4
50	U19AG045	SURESH BABU. E	4.5
51	U19AG046	THENMOZHI.A	4.5
52	U19AG047	THIRUMAL.B	4
53	U19AG048	THULASI G.K	4.5

**FUNDAMENTALS OF PLANT HEALTH MANAGEMENT FOR PLANT
HEALTH DOCTORS**

