

From

Chennai

The Head

01-05-2019

Faculty of Agricultural Sciences

BIHER

To

The Dean

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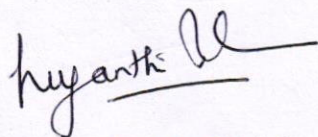
Respected Sir

Sub: approval to start a value added course on "Horticulture" -reg

It has been planned by the Faculty of Agricultural sciences to start a Value Added Course on "Horticulture" for the benefit of the B.Sc. (Ag) and B-Tech Agricultural Biotechnology students from 18th June, 2019. The duration of the course is 30 hrs comprising of both theory and practical classes. I request you to kindly approve of the same.

Thanking you

Yours sincerely



DR. JAYANTHI REDDY
Ph.D. (Ag Biotech), D.Sc. (Ag)
Professor & Head
Dept. of Industrial Biotechnology
BHARATH UNIVERSITY
(Dec. U/s 3 of UGC Act, 1956)
Chennai-600 073 INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Date: 10-05-2019

SCHOOL OF AGRICULTURE

CIRCULAR

Notification for Value added courses offered by the School of Agriculture

The School of Agriculture is scheduled to offer a “**Short course on Horticulture**” from 18/06/2019 for a period of 3 weeks. Interested students can approach Ms. R.M. Gokula Lakshmi, Assistant Professor and Course Coordinator, Faculty of Agricultural Sciences for registration and for further details on or before 5th June 2019.

Eligibility- II B.Sc. Agri., & II, III IV B.Tech ABT

Course Coordinator

HOD

Copy to:

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments



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SCHOOL OF AGRICULTURE

SHORT COURSE ON HORTICULTURE

(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 AGRICULTURE
VALUE ADDED COURSE SYLLABUS
2019-2020

SHORT COURSE ON HORTICULTURE

OBJECTIVES

1. To understand and experience the basic principles of landscaping and design
2. To acquire an extensive knowledge on cut flower production
3. To acquire knowledge on different propagation techniques and value addition of horticultural crops

MODULE 1: LANDSCAPING

Elements and principles of landscaping design-Introduction to garden and landscape plants Graphics and symbols of landscape design-Tools and implements used in landscape design- Layout of informal types of garden-Layout of formal types of garden-Home landscaping- Landscaping of places of public importance-3D AutoCAD Design-Safety considerations

MODULE 2: PRODUCTION TECHNOLOGY OF CUT FLOWER CROPS UNDER PROTECTED CONDITIONS

Major flowers and ornamental plants growing in greenhouse- Introduction to pot plants, bulbous plants and succulents - Production technology of important cut flowers like rose, chrysanthemum, gerbera, carnation, lily and orchids under protected conditions-Post harvest management of flower crops

MODULE 3: BASIC PROPAGATION TECHNIQUES IN HORTICULTURE

.Propagation: need and potentialities - sexual and asexual methods of propagation and their advantages and disadvantages - Methods of vegetative propagation: cutting, grafting, layering, budding techniques -Propagation structures: mist chamber, humidifier, green houses, glass houses, poly houses, cold frames and hot beds - Use of growth regulators in propagation- Micro – propagation and hardening of plants in nurseries- Techniques of propagation through specialized organs; corms, runner, suckers etc.-Media for propagation of plants in nursery beds and mist chambers

MODULE 4: VALUE ADDITION IN FRUITS AND VEGETABLES

Value addition concepts, principles and methods of preservation, intermediate moisture food –Jam, jelly, marmalade, preserve, candy- concepts and standards of fermented and non fermented beverages. Tomato products – Concepts and Standards- Drying and dehydration of fruits and vegetables, concepts and methods, osmotic drying. Canning-concepts-processing of canned products-spoilage and prevention. Packaging of products –quality standards- GMP, HACCP, FSSAI, Codex alimentarius and ISO certification

Total Contact Hours: 30

TEXT BOOKS

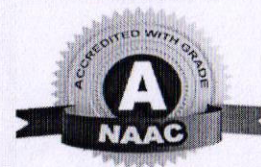
1. Bhattacharjee, S.K and De L.C (2003) Advanced Commercial Floriculture Vol. (1) Aavishkar publishers, Distributors, Jaipur.
2. Adel A. Kader. 2002. Post Harvest Technology of Horticultural Crops. University of California Agrl. And Natural Resources Publication
3. Sadhu, M.K.1989. Plant Propagation. Wiley Eastern Ltd., 4835/24, Ansari Road, Daryaganj, New Delhi- 110 002. Bose, T.K., S.K. Mitra, M. K. Sadhu and B. Mitra. 1991.

REFERENCE BOOKS

1. Bose, T.K., Yadav, L.P., Pal. P., Parthasarathy, V.A., Das. P., 2003. Commercial flowers. Vol. I and II. Naya udyog, Kolkata-6.
2. Sudheer, K. P. and V. Indira. 2007. Post harvest technology of horticultural crops, New India publishing agency, New Delhi.
3. Hartman, H.T. and Kester, D.E. 1986. Plant propagation – Principles and Practices – Prentice Hall of India Ltd., New Delhi.



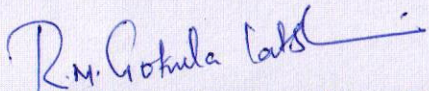
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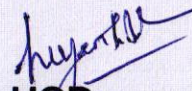


SCHOOL OF AGRICULTURE
SHORT COURSE ON HORTICULTURE

Certificate of Participation

This is to certify that Mr /Ms. V. BASKARAN (U18AG042) has attended three weeks "**Short course on Horticulture**" conducted by School of Agriculture at Bharath Institute of Higher Education and Research, Chennai (TN), India during 18th June - 6th July 2019.


COURSE COORDINATOR


HOD

SCHOOL OF AGRICULTURE

VALUE ADDED COURSE

SHORT COURSE ON HORTICULTURE (2019-2020)

Session	Topic
Session I	Landscaping
Session II	Types of Gardening
Session III	Protected cultivation of rose, chrysanthemum, carnation
Session IV	Protected cultivation of gerbera, orchids, lillium
Session V	Post harvest management of flower crops
Session VI	Basics of Propagation
Session VII	Propagation Techniques
Session VIII	Value addition of horticultural crops
Session IX	Quality Standards

Date	Duration (Hr)	Resource person
18/6/2019	3	Ms. R.M. Gokula Lakshmi
22/6/2019	3	Mr. Kumari Mannan
23/6/2019	4	Ms. R.M. Gokula Lakshmi
23/6/2019	3	Mr. Kumari Mannan
28/6/2019	3	Ms. R.M. Gokula Lakshmi
29/6/2019	4	Dr. L. Jeyanthi Rebecca
29/6/2019	3	Mr. Kumari Mannan
5/7/2019	3	Ms. R.M. Gokula Lakshmi
6/7/2019	4	Mr. Kumari Mannan



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**SCHOOL OF AGRICULTURE****VALUE ADDED COURSE****SHORT COURSE ON HORTICULTURE (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	U18AG012	NARMADHA D
11	U18AG013	JAWAHAR R
12	U18Av014	CHANDRU R
13	U18AG015	VIGNESH T
14	U18AG016	YEDLA RAVI TEJA
15	U18AG018	OGETI VISWANADHA SASTRY
16	U18AG019	ANNAM SONIA
17	U18AG020	GOWSHIK BALA S M
18	U18AG021	GADDE MANEESH KUMAR
19	U18AG022	DINESH R
20	U18AG023	P JYOTHIKA
21	U18AG024	KYNTUMIKI SLONG
22	U18AG025	PRIYA VARSHINI P
23	U18AG026	KARTHIKEYAN V
24	U18AG027	KAVIYA SRI J
25	U18AG028	GADDE SRI NAGA GOPI
26	U18AG029	JAISON JAYAKUMAR M
27	U18AG030	K SAI CHAITANYA
28	U18AG031	MODDU SAI SUJAN
29	U18AG032	PRAVEEN KUMAR G
30	U18AG033	PEGADA JAYASRI
31	U18AG034	SURIYA R
32	U18AG035	NEELAKANTAM SIVANI
33	U18AG036	KAYYURI POOJITHA
34	U18AG038	SAMMANA HARATHI
35	U18AG039	ASI VYSHNAVI
36	U18AG040	BOYAPATI ANUSHA
37	U18AG041	HARINI N
38	U18AG042	BASKARAN V
39	U18AG043	RAJ KUMAR N
40	U18AG044	RISHITHA
41	U17AC121	CHENNURU NIKHITHA

42	U17AC088	SWETHA P
43	U17AC089	YASHMA A
44	U17AC064	ABIRAMI E
45	U17AC067	GORAPALLI YAMUNA
46	U17AC033	DHARANI K
47	U17AC034	SABITHASREE M
48	U17AC052	REDDI ASWINI
49	U17AC053	NIVEDHITA T
50	U17AC054	BOYANI MONITHA
51	U17AC055	MYTHILI PRASANNA S
52	U18AC055	IMMARAJU ANUDEEPIKA
53	U18AC057	KAVIYARASI S
54	U18AC059	SHIVANI P
55	U18AC063	MEESALA HARSHITHA
56	U18AC030	PACHA SANTHI
57	U18AC031	BHARATHI S
58	U18AC040	PALAGIRI MOUNIKA
59	U19AC002	APPANA LAVANYA
60	U19AC003	ATCHAYA K
61	U19AC004	AVULA TAGORE VINAY KUMAR
62	U19AC005	BHAGAVATHI V
63	U19AC006	BHEEMANENI SOWMYA
64	U19AC007	BIKKI RAVI TEJA

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF AGRICULTURE
VALUE ADDED COURSE
SHORT COURSE ON HORTICULTURE (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	U18AG012	NARMADHA D	5
11	U18AG013	JAWAHAR R	4.6
12	U18Av014	CHANDRU R	5
13	U18AG015	VIGNESH T	4.4
14	U18AG016	YEDLA RAVI TEJA	3.7
15	U18AG018	OGETI VISWANADHA SASTRY	4.5
16	U18AG019	ANNAM SONIA	4.5
17	U18AG020	GOWSHIK BALA S M	5
18	U18AG021	GADDE MANEESH KUMAR	5
19	U18AG022	DINESH R	5
20	U18AG023	P JYOTHIKA	5
21	U18AG024	KYNTUMIKI SLONG	4.5
22	U18AG025	PRIYA VARSHINI P	5
23	U18AG026	KARTHIKEYAN V	4.5
24	U18AG027	KAVIYA SRI J	5
25	U18AG028	GADDE SRI NAGA GOPI	4.5
26	U18AG029	JAISON JAYAKUMAR M	4
27	U18AG030	K SAI CHAITANYA	5
28	U18AG031	MODDU SAI SUJAN	4.5
29	U18AG032	PRAVEEN KUMAR G	5
30	U18AG033	PEGADA JAYASRI	4
31	U18AG034	SURIYA R	4.5
32	U18AG035	NEELAKANTAM SIVANI	5
33	U18AG036	KAYYURI POOJITHA	5
34	U18AG038	SAMMANA HARATHI	5
35	U18AG039	ASI VYSHNAVI	4.5
36	U18AG040	BOYAPATI ANUSHA	5
37	U18AG041	HARINI N	4.5
38	U18AG042	BASKARAN V	4.5
39	U18AG043	RAJ KUMAR N	5
40	U18AG044	RISHITHA	5
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42	U17AC088	SWETHA P	4.5
43	U17AC089	YASHMA A	5
44	U17AC064	ABIRAMI E	5
45	U17AC067	GORAPALLI YAMUNA	4.5
46	U17AC033	DHARANI K	4
47	U17AC034	SABITHASREE M	5
48	U17AC052	REDDI ASWINI	5
49	U17AC053	NIVEDHITA T	4.5
50	U17AC054	BOYANI MONITHA	4
51	U17AC055	MYTHILI PRASANNA S	4.5
52	U18AC055	IMMARAJU ANUDEEPIKA	4.5
53	U18AC057	KAVIYARASI S	5
54	U18AC059	SHIVANI P	4
55	U18AC063	MEESALA HARSHITHA	4
56	U18AC030	PACHA SANTHI	4
57	U18AC031	BHARATHI S	4.5
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64	U19AC007	BIKKI RAVI TEJA	4