



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.

14.07.2021

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

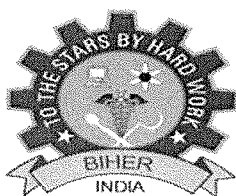
Respected Sir,

Sub: Permission for conducting value added course — Reg.

I'm writing to express my interest in teaching a three-week value-added course on
Impact of medicinal plants on society beginning on August 3, 2021.

Thanking you sir,

Head of the Department



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Date: 21-07-2021

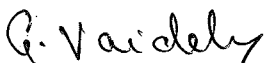
SCHOOL OF AGRICULTURAL SCIENCES

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 “**Impact of medicinal plants on society**” starting on August 3, 2021. On or before July 28, 2021, interested students should contact Dr. G. Vaidehi, Associate 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

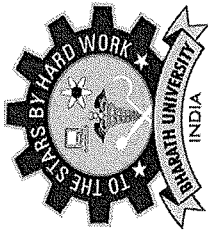
Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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SCHOOL OF AGRICULTURAL SCIENCES

Courses on Impact of medicinal plants on society

Certificate of Participation

This is to certify that Mr /Ms. YASHIKA S (U18AG006) has attended three weeks "Impact of medicinal plants on society" conducted by School of Agricultural Sciences at Bharath Institute of Higher Education and Research, Chennai (TN), India during 3rd August – 28th August 2021.

COURSE COORDINATOR

DEAN-AGRICULTURE



Sharath

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SCHOOL OF AGRICULTURAL SCIENCES

Courses on Impact of medicinal plants on society

(2021-2022)

COURSE CO-ORDINATOR DETAILS

Faculty Name : Dr.G.Vaidehi, Associate Professor,
School of Agricultural Sciences

Email ID : Vaidehispices@gmail.com

Mobile number : 9790517821

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF AGRICULTURAL SCIENCES

VALUE ADDED COURSE SYLLABUS 2021-22

Impact of medicinal plants on society

Objective:

- Understand the drug Extraction methods
- Gain knowledge on the various chemical components present in the plants
- Understand the post-harvest technology of herbs

Unit I

Medicinal Plants – Importance and Scope. Classification of medicinal plants. Cultivation of medicinal plants – Processing and utilization. Chemical nature of crude drugs - Extraction, Preparation and preservation of crude drugs. Ayurveda, Siddha and Unani systems of herbal medicine.

Unit II

Traditional herbal teas. Herbs for woman, Babies and children. Concepts of Herbal garden– Home, School Herbal gardens.

Unit III

Classification and Estimation of primary metabolites- Carbohydrates, fatty acids, aminoacids and Proteins. Secondary Metabolites - Classification, General characters, Chemical nature, Extraction and Estimation methods for Glycosides, Tannins, Volatile oils, Resinous substances, Terpenoids – Phenolic compounds and Alkaloids.

Unit IV

Plants defense mechanism – Antioxidants – Reactive Oxygen Species enzymatic and non-enzymatic antioxidants - Role of antioxidants - Estimation of antioxidants – Ascorbic acid, Alpha Tocopherol. Antioxidant enzymes – preoxidase, SOD and catalase. Free radical, Types of Free radicals – Production of free radicals.

Unit V

Post-harvest technology in medicinal plants scope and importance. Importance of herbal marketing -Future prospects and constraints of the herbal drug industry - Regulatory status of herbal medicine in India. Adulteration with reference to plant drug, types of adulterants and methods of adulteration.

TEXT BOOK:

1. Farooqi, A.A. and B. S. Sreeramu, 2004. Cultivation of medicinal and aromatic crops. Revised edition, Universities Press (India) Private Limited, Hyderabad
2. Harbone, J.B. 1998. Phytochemical Methods: A guide to modern techniques of plant analysis. 3rd Edn., Springer (India) Private Limited, New Delhi.

REFERENCE BOOK

1. WHO, 2002. Quality control methods for medicinal plant materials, World Health Organization, Geneva, A.I.T.B.S., Publishers and Distributors, New Delhi.
2. Halliwall, B. and J.M. Gutteridge. 1985. Free radicals in Biology and medicine. Oxford university press.
3. Agrios, G.N. 2005. Plant Pathology – (5th Edition). Academic Press, New York.

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	Scope and importance of medicinal plants	03.08.2021	3	Dr.G.Vaidehi
Session 2	Cultivation of medicinal plants, processing and utilisation.	05.08.2021	2	Dr.G.Vaidehi
Session 3	Extraction, Preparation and preservation of crude drugs.	07.08.2021	2	Dr.G.Vaidehi
Session 4	Preparation of traditional herbal tea- scope and importance	10.08.2021	2	Dr.G.Vaidehi
Session 5	Classification and Estimation of primary metabolites	12.08.2021	2	Dr.G.Vaidehi
Session 6	secondary metabolites- Classification and estimation	14.08.2021	2	Dr.G.Vaidehi
Session 7	Plant defence mechanism- antioxidants and Reactive Oxygen species	18.08.2021	2	Dr.G.Vaidehi
Session 8	Role of anti-oxidants in life	19.08.2021	3	Dr.G.Vaidehi
Session 9	Estimation of Anti-oxidants	20.08.2021	2	Dr.G.Vaidehi
Session 10	Extraction of Anti-oxidants	21.08.2021	3	Dr.G.Vaidehi
Session 11	Post harvest technology in medicinal plants	23.08.2021	2	Dr.G.Vaidehi
Session 12	Importance of herbal marketing	24.08.2021	2	Dr.G.Vaidehi
Session 13	Future prospects and constraints of the herbal drug industry	25.08.2021	3	Dr.G.Vaidehi

IMPACT OF MEDICINAL CROPS ON SOCIETY



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SCHOOL OF AGRICULTURAL SCIENCES**

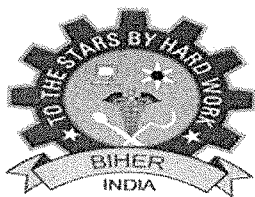
VALUE ADDED COURSE

Impact of medicinal plants on society (2020-2021)

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	THENMOZHIA
52	U19AG047	THIRUMAL.B
53	U19AG048	THULASI G.K



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Course Feedback Form

Impact of Medicinal Plants on Society

Date: 25.08.2021

Course Title: Impact of Medicinal Plants on Society

Name: A.M. Chowshik Bala.

Reg. No.: U18AC1020

Department: Bsc(Hons) Agriculture.

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

Signature



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Course Feedback Form

Impact of Medicinal Plants on Society

Date: 25.08.2021

Course Title: Impact of Medicinal Plants on Society

Name: Mathuvei, G

Reg. No.: UIBAG009

Department: B.Sc., (Hons) Agriculture.

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


Signature