

GOVERNMENT DEGREE COLLEGE

**DEPARTMENT
OF
BOTANY**

ADD ON COURSE ON

**MEDICINAL BOTANY
AND
ETHANO BOTANY
2021-22**



Government Degree College, Paderu
Affiliated to Andhra University
(Upgraded to Model Degree College under RUSA 2.0)
Paderu, Alluri Sitharama Raju -District, AP.



Est:1985 NAAC "C" Grade phone no: 08935 250013 Email.ID :Paderu.jkc@gmail.com.

Proposal for Certificate Course in

ETHNO BOTANY AND MEDICINAL BOTANY

Academic year 2021 – 22

From
The Course Coordinator
Dept of Botany
Govt Degree College
Paderu

To
The Principal
Govt Degree College
Paderu

Respected Sir,

Sub: Proposal for starting Certificate Course in **Ethano Botany and Medicinal Botany** in Botany to B.Sc., students of our college – Request regarding.

Our department of Botany is planning to start a certificate course in **Ethano Botany and Medicinal Botany** to the students of B.Sc., groups choosing 35 among them. This course can enhance the skills of disciplinary attitude of a student at professional areas.

Studying plant utilization methods by tribal/rural/migrant populations for their beverages, food, medicinal and uses, the role of ethnic groups in conservation of plant genetic resources, project work on traditional knowledge about plant medicines, study of indigenous medicinal sciences and their efficacy.

In this regard we humbly request your esteemed self to conduct staff council meeting for discussing the syllabus and course outcomes.

Thanking you sir,

Name of the Certificate Program: **Ethano Botany and Medicinal Botany**
Course Coordinator : Dr.S.Chandra Kala


Course Coordinator


Principal

Principal
Govt. Degree College
PADERU-531024
Alluri Sitharama Raju Dist.





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DEPARTMENT OF BOTANY

Detailed Objectives of 'Certificate Course in **Ethano Botany and Medicinal Botany** for B.Sc.students

Title: Ethano Botany and Medicinal Botany

Eligibility: all Under Graduate students of our college

Duration: 40 days / 1 hr daily

Syllabus: as given below

System of Assessment: Internal

Introduction:

1. Certificate Course in Ethano Botany and Medicinal Botany What is it all about?

Certificate Course in Ethano Botany and Medicinal Botany is the traditional knowledge of indigenous communities about the surroundings plant diversity.

2. The study of how the people of a particular culture and region make use of indigenous plants. The science studying "The relation between a given society and the plant world."

Objectives:

1. Identification of various plant parts used as medicines by ethnic groups, understanding the difference between ancient wisdom and modern system of medicine.
2. Traditional medicine at the rescue of curing drug resistant maladies like malaria and viral diseases, understanding the role of spices in Indian kitchens, their therapeutic role.
3. Physical and chemical tests for evaluation of unorganized drugs - Asaphoetida, Honey, Castor oil. Acacia
4. Identification of bark drugs - cinchona, cinnamom
5. Identification of fruit drugs - Cardamom, Coriander
6. Identification of whole plant - Aloes, Vinca, Punarnava.
7. Collection of locally available crude drugs from local vendors (minimum of 20)
8. Detailed morphological and anatomical study of medicinally important part(s) of locally available plants (Minimum 8 plants) used in traditional medicine.
9. To identify and collect ethnomedicinal plants used by local tribes/folklore.


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DEPARTMENT OF BOTANY

Detailed syllabus on ETHNOBOTANY AND MEDICINAL BOTANY

Unit-I: Ethnobotany

- Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context
- Major and minor ethnic groups or Tribals of India, and their life styles.
- Plants used by the tribal populations: a) Food plants, b) intoxicants and beverages, c) Resins and oils and miscellaneous uses.

Unit-II: Role of ethnobotany in modern Medicine:

- Role of ethnobotany in modern medicine with special example
Rauvolfia serpentina, *Trichopus zeylanicus*, *Artemisia annua*, *Withania somnifera*.
- Significance of the following plants in ethno botanical practices
Azadirachta indica, b) *Ocimum sanctum*, c) *Vitex negundo*, *Gloriosa superba*, e) *Tribulus terrestris*, f) *Phyllanthus niruri*, g) *Cassia* d) *auriculata*, h) *Indigofera tinctoria*, i) *Senna auriculata* j) *Curcuma*

Unit-III: Ethnobotany as a tool to Protect interests of ethnic groups

- Sharing of wealth concept with few examples from India.
- Biopiracy, Intellectual Property Rights and Traditional Knowledge.

Unit-IV: History, Scope and Importance of Medicinal Plants. indigenous Medicinal Sciences

- Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts, Rasayana, plants used in ayurvedic treatments.
- Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine.
- Unani: History, concept: Umor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.


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Course outcomes

1. Identification of various plant parts used as medicines by ethnic groups, understanding the difference between ancient wisdom and modern system of medicine.
2. To know the Traditional medicine at the rescue of curing drug resistant maladies like malaria and viral diseases, the role of spices in Indian kitchens, their therapeutic role
3. The Ethano medicine also studies the different natural treatments for illness and healing practices refers to a wide range of health care systems and structures. Practices, benefits and therapeutic techniques that arise from indigenous cultural development.
4. To know the traditional medicines and remedies. The Ethano medicine is the study of cultural interpretation of illness and health.
5. The Scientific ethano medicinal studies constitute either anthropological research or drug discovery.
6. To know the sources of phyto chemicals and their uses it is one of the based point for pharmaceutical drug discovery research. Ethanomedicine has been used as a starting point in drug discovery.


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DEPARTMENT OF BOTANY

Minutes of the Meeting

The following are the minutes of the meeting is held on 14.10.2021 for starting a certificate course in 'ETHNOBOTANY AND MEDICINAL BOTANY' for B.SC students for the academic year 2021-2022.

The following minutes have been discussed and resolved unanimously.

1. It is proposed to start a certificate course in 'ETHNOBOTANY AND MEDICINAL BOTANY' for the students of B.Sc during the academic year 2021-2022.
2. It is proposed to endorse Dr.S.Chandra Kala as course coordinator.
3. It is suggested to the coordinator to enrol maximum number of students for the certificate course.
4. It is also discussed to use Virtual class room and other equipment to teach in an easy way.
5. It is also discussed how we can motivate the students towards the course.

Members of the committee during minutes

- 1.
- 2.
- 3.
- 4.

Course Coordinator

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DEPARTMENT OF BOTANY

Date: 20.10.2021

CIRCULAR

Sub: Certificate Program for the academic year 2021-2022

The Department of Botany is planned to conduct the certificate program for B.Sc students. The certificate course which are designed and offered by our department for the benefit of the students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the certificate course can enrol their names to the course coordinator.

Name of the certificate Program : ETHNOBOTANY AND MEDICINAL BOTANY'

Course Coordinator : Dr.S.Chandra Kala

Commencement of the course from 22.10.2021 to 30.11.2021

Time : 9.00 am to 10.00


Course Coordinator




Principal
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DEPARTMENT OF BOTANY

Name of the Certificate course: ETHNOBOTANY AND MEDICINAL BOTANY Course Coordinator:

Dr.S.Chandrakala

Total Hours: 40 Hrs (Exempted sundays 6h) Academic Year: 2021-2022

S.no	Topics to be covered	Hours	Delivery date
1	Greetings and Introduction	6	I Week 22.10.2021
2	Participating in survey how to use the Ethano medicines how to cure		
3	Collected people health information and their cultures		
4	Survey on to take preventions of different diseases		
5	Survey on the seasonal diseases		
6	How to cure the seasonal diseases, and ethanomedicine remedies	6	II Week
7	What is the routine diseases and ethanomedicine remedies		
8	Awareness on drinking water		
9	Awareness on Hygenic condition		
10	How to avoid the skin diseases by using ethanomedicine		
11	How to avoid the skin diseases by using ethanomedicine	6	III Week
12	Howmany plants are useful, plant names and used parts		
13	Howmany plants are useful, plant names and used parts		
14	Howmany plants are useful, plant names and used parts		
15	Snake bites and using ethanomedicine		
16	Snake bites and using ethanomedicine	6	IV Week
17	How to used the ethanomedicines		
18	How to used the ethanomedicines		
19	Survey on the Ethanomedicine using variation in place to place		
20.	Survey on the Ethanomedicine using variation in place to place		
21.	Survey on the Ethanomedicine using variation in place to place	6	VWeek
22.	Survey on the Ethanomedicine using variation in place to place		
23.	Different types leaf paste and how to mixed another plant parts		
24.	Different types leaf paste and how to mixed another plant parts		
25.	Different types leaf paste and how to mixed another plant parts		
26.	Which plant parts used for different diseases in different ways	6	VIWeek
27.	Which plant parts used for different diseases in different ways		
28.	Wild plants and collect the medicinal plants		
29.	Wild plants and collect the medicinal plants		
30.	Uses of phytochemicals		
31.	Types of phytochemicals	6	1-12-21
32.	Inter relation between the phytochemicals and ethanobotany		
33.	Ayurveda and unani medicines		
34.	Medicine and side effects benefits of ethanomedicine		
35.	Exam		

S. Chandrakala
Course Coordinator

V. A.
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Certificate program Assessment test

Name of the course: ETHNOBOTANY AND MEDICINAL BOTANY

Date: 1-12-2021

Academic year: 2021-2022

Time: 1.30 hrs

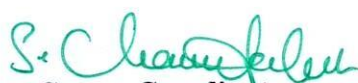
PART-A

I Answer all the following questions. 20x2=40

1. What is Ethanomedicine
2. What is Traditional medicine
3. Write about seasonal diseases.
4. Which plants used for snakebites
5. Define skin diseases
6. Which plant parts used for allergy
7. Which plant parts used for cold
8. Which plant parts used for fever
9. Which plant parts used for stomach problems
10. Which plant parts used for headache
11. Which plant parts used for wound healing
12. Which plant parts used for itching
13. Which plant parts used for ringworms
14. Which plant parts used for cancer
15. Which plant parts used for vomitings
16. Which plant parts used for digestive problems
17. Which plant parts used for throat problems
18. Which plant parts used for cough
19. Which plant parts used for mouth problems
20. Which plant parts used for women problems

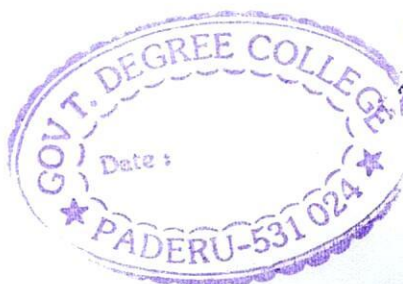
II Answer the following the True/False 5x2=10M

1. Ethano medicine is very useful (True/False)
2. It is one of the basic point for drug discovery (True/False)
3. Its very useful but not cure long diseases (True/False)
4. More useful for rural people (True/False)
5. Ethanomedicine didn't have side effects (True/False)


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DEPARTMENT OF BOTANY

Name of the certificate course: ETHNOBOTANY AND MEDICINAL BOTANY
Course co-ordinator : Dr.S.Chandra kala Academic Year: 2021-2022

Willing Students list

YEAR	HT. NO.	NAME OF THE CANDIDATE	GROUP
2021-22	719125405075	A. ANANDA RAO	III CBZ
	81	G. LAILA DEVI	
	87	L. GIRISH DORA	
	94	P. AMARENDRA	
	101	S. KAMESWARI	
	123	K. VAMSIKRISHNA	III BZH
	107	A. MOHAN BABU	
	114	K. VIJAYA LALITHA	
	120	K. SAI BABU	
	126	M. SRAVANI	
	132	P. JOY SNEHITH	
	138	S. MALLIKA	II CBZ
	720125405077	B. ASHOK KUMAR	
	83	J. RASI	
	89	K. SRUJANA	
	96	P. KUMARI	
	102	S. JAGAN	
	108	U. BANGARU BABU	
2021-22	114	A. UMA MAHESWARI	II BZH
	120	G. RAMURTHY	
	126	K. NAYOMI	
	132	M. MOUNIKA	
	139	P. LOVATHALLI	
	145	T. SURYA VAMSI	III CBZ
	720125405078	D. SIMHACHALAM	
	84	K. LAXMAN RAO	
	90	K. SUSHANA	
	97	P. MAHESH	
2021-22	103	S. SATHI BABU	III BZH
	109	V. DHANA VENKATA LAKSHMI	
	115	B. SAI PRAKASH	
	121	K. SATYAVATHI	
	910125405005	B. VIKRAM	III MPC
2021-22	014	K. KAVITHA	
	020	K. SANDYA RANI	
	026	M. UMADEVI	
	032	S. PRAVALLIKA	
2021-22	041	B. KAMALA	III HEP
	047	G. BEEMA RAJU	
	058	S. PURNANANDA	
2021-22	119125301048	PANGI NARESH	III HEP
	119125301049	POIBA JAVED	
	119125301050	POTTANGI RAMANNA	
	119125301051	RANDHI PRASAD	
	119125301052	RANDHI SATYANARAYANA	
	119125301053	RANDI PUNYAVATHI	
	119125301054	REGAM LAVANYA	

2021-22	119125403037	NAGABHUSAN RAJU MATYARASA	III B.Com. General
	119125403038	NIRAMALA DEESARI	
	119125403039	PADALI PRAVEEN KUMAR	
	119125403040	PALASI BHAGYA VATHI	
	119125403042	PALASI SIVA RAMAKRISHNA	
	119125403043	PALASI SUSMITHA	
	119125403044	PALASI UMADEVI	
	119125403045	PANGI HUNDI	
2021-22	119125404036	PANGI RAMESH	III B.Com. Voc
	119125404037	PANGI SIVA SANKAR	
	119125404038	PAPPU HARIKRISHNA	
	119125404039	POIBA NOOKA RAJU	
	119125404040	REGABOINA PANDURAJU	
	119125404041	REGAM VENKATESH	
	119125404042	SARASANGI DILLEP KUMAR	
	119125404043	SINGIDI PAVAN	
2021-22	120125301043	PALASI SURYA MANI	II HEP
	120125301044	PALLI SUMAN	
	120125301045	PANGI BABU RAO	
	120125301046	PANGI CHINNARAO	
	120125301047	PANGI KRISHNA	
	120125301048	PANGI PRAKASH	
	120125301049	PANGI RAMBHA	
	120125301050	PUJARI ANUSHA	
2021-22	120125301051	PUJARI CHIRANJEEVI NAIDU	Spl.Telugu
	120125301140	THAMARLA SRINU	
	120125301141	VANDEBU KAMESWARA RAO	
2021-22	120125301142	VANJANGI DEEPIKA	Spl.Eng
	120125301104	VANTHALA NEEHARIKA	
	120125301105	VANTHALA SANDHYA RANI	
2021-22	120125301106	VANTHALA SUVARNA	B.Com. Gen
	120125403019	KORRA DHARMA RAJU	
	120125403020	KORRA JYOTHI	

Course coordinator

V. ch
Principal
Govt. Principal College
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Suggested References:

- 1) S.K. Jain, Manual of Ethnobotany, Scientific Publishers, Jodhpur, 1995.
- 2) Glimpses of Indian. Ethnobotany, Oxford and IBH, New Delhi – 1981.
- 3) S.K. Jain (ed.) 1989. Methods and approaches in ethnobotany. Society of ethnobotanists, Lucknow, India.
- 4) S.K. Jain, 1990. Contributions of Indian ethnobotany. Scientific publishers, Jodhpur.
- 5) Colton C.M. 1997. Ethnobotany – Principles and applications. John Wiley and sons – Chichester
- 6) Rama Rao, Nand A.N. Henry (1996). The ethnobotany of Eastern Ghats in Andhra Pradesh, India. Botanical Survey of India. Howrah.
7. Trivedi P.C., 2006. Medicinal Plants: Ethnobotanical Approach, Agrobios, India.
8. Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd edn. Agrobios, India.
9. Pal, D.C. & Jain, S.K., 1998. Tribal Medicine. Naya Prakash Publishers, Calcutta
10. Raychudhuri, S.P., 1991. (Ed.) Recent advances in Medicinal aromatic and spice crops. Vol. 1, Today & Tomorrow's printers and publishers, New Delhi



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DEPARTMENT OF BOTANY

Test Analysis Report

Name of the course: **ETHNOBOTANY AND MEDICINAL BOTANY**

Name of the Course Coordinator: **Dr.S.Chandrakala**

Academic Year: 2021-2022

The Department of Botany offered Certificate course to students of all disciplines. We provided a syllabus to the students and covered all of the syllabus. The overall course duration was 40hrs and the attendance of the students was recorded.

I confirmed that all the students for this certificate course actively attended and performed well. We conducted an exam and the eligible students received certificates.


Course coordinator


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Department of Botany

Test Analysis Report

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Name of the course Coordinator: **Dr.S.Chandra Kala** Academic year: **2021-22**

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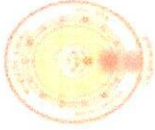
Course coordinator

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VISAKHAPATNAM DISTRICT, A.P-531024.
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CERTIFICATE OF COMPLETION

This to certify that KIMUDU VAMSI KRISHNA
Regd.No 719121505123 of GOVERNMENT DEGREE COLLEGE, PADERU has completed
his/her one month CERTIFICATE COURSE on "**ETHANOBOTANY AND MEDICINAL BOTANY**" organised by
the DEPARTMENT OF BOTANY (2021-2022)

The overall performance of an INDIVIDUAL during his /her ENTIRE COURSE is found to be.....(Satisfactory/ Not
satisfactory).

S. Chaitanya
COURSE COORDINATOR

V. M. L.
Principal
Govt. Degree College
PADERU-531024
Andhra Pradesh

PRINCIPAL
PADERU-531024
Ziluri Siharana Raju Dist

