

Subject : Syllabi along with other details for Certificate course in 'Ethnobotany' under the scheme of Career Oriented Programme at first degree level.

It is notified for general information of all concerned that the authorities of the University have accepted the syllabi of Certificate course in "Ethnobotany" under the Scheme of Career Oriented Programme at first degree level as given in following Appendix-A, to be implemented from the Academic Session 2014-15.

It is further notified that the eligibility criteria and other details along with the Scheme of examination shall be as provided under Ordinance No.47 of 2005, Regulation No.38 of 2005.

Sd/-

( Dineshkumar Joshi)

Registrar

Sant Gadge Baba Amravati University

Appendix-A

## SYLLABUS FOR CERTIFICATE COURSE IN ETHNOBOTANY

- Unit I :** Introduction to Ethno botany :  
Definition, history of ethnobotany, Indian scenario of ethnobotany ,role of ethnobotany in medicinal plants knowledge and Ayurveda, importance of ethnobotany.
- Unit II :** Introduction to Medicinal Plants –  
System of Classification of Plants – Bentham and Hookers System for classification of plants , binomial system, Identification of plants by vernacular names and regional floras.
- Unit III :** Plant Morphology – ( In General )  
Morphology of root , stem , leaf , flower , seeds. Modifications of roots , stem , leaf , flower.
- Unit IV :** Medicinal plants Propagation methods-( Any five plants )  
Definition, Scope , Traditional and advanced methods of plant propagation. Merits and demerits, vegetative methods for plant propagation, propagation by seeds. Management practices.
- Unit V :** Applications of Medicinal Plants.( Any 10 plants)  
Study of locally available medicinal plants with local, vernacular and scientific names and their traditional , modern uses. Role of medicinal plants in Ayurveda.

## Practical Course :

1. Morphological study of medicinal plants.
2. Identification of the local medicinal plants by using the state flora/ regional flora.
3. Study of vegetative plant propagation techniques used in the field by local cultivars.
4. Study of tuberous medicinal plants,
5. Preparation of Herbarium specimens of local medicinal plants . ( Any 25 medicinal plants )
6. Collection of medicinal plants seeds from local forest area with proper identification and labelling.

## Distribution of Marks :

Theory Examination	:	100 marks
Practical examination	:	50 marks
Field work / Project Report	:	50 marks
Total Marks	:	200 marks

## Distribution of marks for practical examination :

Time 03 Hrs.

Max.Marks : 50

- Q.1 Experiment on plant propagation techniques used for medicinal plant. 20 marks
- Q.2 Comment on plant morphological features of medicinal plants.  
(One from Class :Dicotyledones, other from Class: Monocotyledones) 20 marks
- Q.3 Viva – voce 05 marks.
- Q.4 Record book & field diary 05 marks

## Field Visit / Project Report :

- Project Report on survey, enumeration and identification of medicinal plants from local area.
- Project Report on digital herbarium of medicinal plants of local area.
- Project Report on case study of the use of medicinal plants by the tribal peoples of melghat range.
- Training camp for the tribals in melghat range.
- Field excursion to forest for the observation of medicinal plants.
- Visit to any medicinal plant park.

## Books Recommended:-

1. Plant morphology-A.C. Datta.
2. Plant taxonomy-B.P. Pandey.
3. A text book of medicinal plant, J.L. Shrimali
4. MarathwadyatilDivya Van aushadhi , V. N. NAIK.
5. Forest Flora of Melghat – R I Patcl.
6. Flora of MelghatTifer Rescrve – M.A. Dhore.
7. Indian medicinal plants – P.K. Warriar.
8. Medicinal plants and ethnobotany in India – C. Padhah
9. Ethnobotany and cultural resources – T. Scott.
10. Ethnobotany- Paul Minnis.
11. Ethnobotany and Indias natural medicine Cuture- Ashwanikumar
12. Practical Botany – Bendre and Kumar.
13. Plants propagation – M.K. Sadhu
14. Medicinal plants propagation and conservation – Google book
15. Text book of economic botany- B.P. Pandey
16. Glimpses of ethnobotany – S. K.Jain
17. Flora of Maharashtra State for Dicotyledones Vol. I, II : B.S. I. Western circle Pune
18. Flora of Maharashtra State forMonocotyledones , B.S. I. Western circle Pune
19. Ethnobotany – R. K. Sinha
20. Medicinal plants of India – R. C. Mehrotra

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