



SMT. SINDHUTAI JADHAO ARTS & SCIENCE MAHAVIDYALAYA, MEHKAR

(Affiliated to Sant Gadage Baba Amravati University, Amravati;

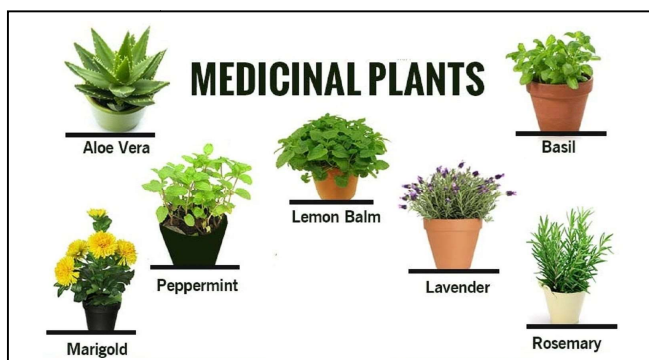
UGC 2 (f) & 12 B; NAAC Accredited with 'C+' grade)

DEPARTMENT OF BOTANY



Value Added Course in

"MEDICINAL PLANTS"



BY

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(Head Of Department)

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DEPARTMENT OF BOTANY

SMT. SINDHUTAI JADHAO ARTS & SCIENCE
MAHAVIDYALAYA, MEHKAR DIST. BULDHANA 443301
JUN.- 2022

Course Objectives

- To impart knowledge of Medicinal plant as the basic objective of education.
- To develop the students for establishing the small scale Pharmaceutical Industry for production of Plants based drugs.
- To encourage the students for the cultivation of Medicinal Plant enhance.
- To inculcate the economic status of students.
- To conserve the traditional knowledge & folk medicine.
- To develop skill in practical work experiment equipment and laboratory use along with collection on interpretation of Medicinal Plant and their utilization.

Scope & Course Outcome

Upon completion of the course, the students shall be able to know the:

- Basic of Medicinal Plant identification, plant parts, Classification of Drugs, Cultivation of Medicinal Plants, and Harvesting & Storage
- The course also covers the important aspects of ethno-medicine, traditional medicines & formulation, traditional system of therapy, preparation of Plants based drug formulation.
- Indian Traditional Medicine system.
- Knowledge of routinely used Ayurvedic & rare Medicinal plants & their parts
- Application & economic importance of Medicinal Plant
- Conservation strategies & sustainable utilization of Medicinal Plants.

Syllabus

Unit I: Introduction & Identification of Local Medicine

Definition & History and Importance of Medicinal Plants Traditional system of Indian Medicine: Ayurveda, Unani, Yoga, Homoeopathy etc. Identification and description of Medicinal Plants.

Unit II: Cultivation & Harvesting Practices

Ordinary cultivation Methods for local & rare Medicinally important Plants; Methods of Harvesting, Storage & Preservation of Medicinal Plants.

Unit III: Traditional Uses of Medicinal Plants

Traditional information & usefulness of some medicinal plants; plant parts used: Root, Stem, Leaves, Flowers, Fruits, Barks and Seeds; Ethno-medicine, Folk Medicine;

Unit IV: Processing & formulation of Plant based Drugs

Introduction, methods of preparation of Plant based drugs; Churna, Vati, Asava, Arishta, Bhasma and Taila; Preparation of Medicinal Plant Infusions: Decoctions, Lotions, Syrups, Ointments, Oils.

Unit V: Application & Doses of Medicinal Plants

Methods and uses of common medicinal plants. Techniques of Disease Diagnosis & treatment. Constraints and remedial measures.

Unit VI: Conservation of Medicinal Plants

Medicinal Plant Conservation – issue and approaches. Conservation Strategies, sustainable utility of Medicinal Plants.

Teaching & Examination Scheme

Course	Teaching workload	Exam		Grade System
		Theory (40 Marks)	Practical (60 Marks)	
Certificate	4 Lectures	20	4 practical	Marks
Course in	1 Practical	Multiple Choice		100-81: O Grade
“Medicinal Plant”	per week	Question (each for 2Marks)		80-71: A Grade
				70-61: B Grade
				60-51: C Grade
				40-00: Fail

Recommended Books/ References

- Indian Medicinal Plants by Vaidya Ratnam & P.S. Varires, Arya VaidyaSale vol-4
- Ayurvedic Pharmacology & Therapeutic uses of Medicinal plants by Vaidya V. M. Gogte
- Medicinal Plants of India by Lal S. N.
- Charak Samhita on Ayurvedic text by Govt. of India
- Handbook of Medicinal Herbs by S. Bhattacharya
- The ayurvedic Pharmacopia of India by Govt. of India vol-5
- Indian Medicinal Plants- An Illustrated Medical Dictionary
- Economic Botany by Pande B. P.
- Economic Botany by Sen S.
- Cultivation of Medicinal Plants by C. K. Atal & B. M. Kapoor
- Database on Medicinal Plants Used in Ayurveda by K.V. Billore, M.B. Velne, T.J. Dennis & B.G. Chaudhari
- Encyclopedia Of Herbal Medicine: 550 Herbs and Remedies for CommonAilments Hardcover by Andrew Chevallier
- Handbook Of Medicinal Plants by U. S. Bose, Oxford Book Company
- Medicinal Plants Chemistry And Properties by Daniel M., Oxford & IBHPublishing Co.
- Medicinal Plants of India by Neeru Mathur, RBSA Publishers

- Cultivation of Medicinal & Aromatic Crops by A. A. Farooqi & B.S. Sreeramu, University Press
- Handbook of Herbal Medicinal Plants by L.D. Kapoor, Herbal ReferenceLibrary
- Identification of Common Indian Medicinal Plants by V. N. Naik, Scientific Publisher, Jodhpur, India
- Ethnobotany & Medicinal Plants of India & Nepal by V. Singh, ScientificPublisher, Jodhpur, India

HOD

Principal