

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Value Added Certificate Course in "HERBAL MEDICINE"

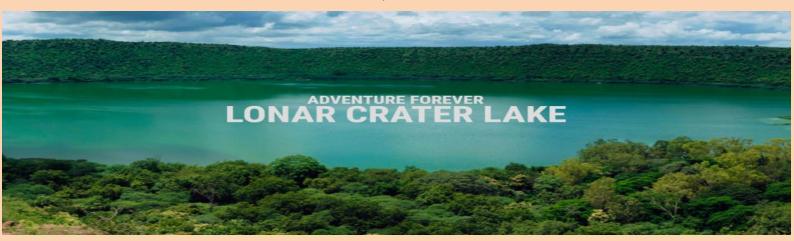


By

Department of Botany,

Late Ku. Durga K. Banmeru Science College, Lonar, Dist. Buldana. Pin. 443302.

Dec, 2019



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Course Objectives

- To develop the students for establishing the small scale Pharmaceutical Industry for production of Herbal Drugs.
- To encourage the students for Medicinal Plant farming.
- To inculcate the economic status of students.
- To conserve the traditional knowledge & folk medicine.
- To understand the advance instruments, formulation & its application in drug analysis.

Scope & Course Outcome

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

- Basic of Herbal 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 herbal formulation.
- Ethno-medicine & folk medicine
- Knowledge of routinely used Ayurvedic & rare herbal drug plants & their parts
- Application & economic importance of Medicinal Plant
- Conservation strategies & sustainable utilization of Herbal Medicinal Plants.

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Syllabus

Unit I: General Introduction & Identification of Local Herbal Medicine

Definition & History, scope of Herbal Medicine; System of Indian Medicines; Ayurveda, Homeopathy; Classification of crude drugs; Identification, local name, Botanical Name of Medicinal Plants.

Unit II: Traditional Uses of Herbal Medicine

Traditional knowledge & utility of some medicinal plants; Medicinally used plant parts: Roots, Stem, Barks, Leaves, Flowers, Fruits, Seeds; Ethno-medicine, Folk Medicine.

Unit III: Cultivation & Harvesting Management

Common cultivation Methods for local & rare herbal Medicinal Plants; Mass production of crude drugs; Harvesting of Medicinally used plant parts; Storage & Preservation.

Unit IV: Processing & formulation of Herbal Drugs

Introduction to Ayurvedic formulation with methods of preparation: Churna, Vati, Asava, Arishta, Taila & Bhasma; Preparation of Herbal Infusions: Decoctions, Lotions, Syrups, Poulties, Ointments, Oils.

Unit V: Application & Doses of Herbal Medicine

Methods of Disease Diagnosis & treatment; Application methods of common Herbal Medicinal Plants; Quality control & doses on particular diseases.

Unit VI: Conservation Strategies & Future Prospecting

Sustainable utility of Rare Herbal Plants, Conservation Strategies & Future Prospecting of Herbal Medicinal Plants.

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Teaching & Examination Scheme

Course	Teaching	Exam		Grade System
	workload	Theory	Practical	
		(40 Marks)	(60 Marks)	
Certificate	4 Lectures	20 Multiple	4 practical	Marks
Course in	1 Practical	Choice		100-81: O Grade
"Herbal	per week	Question		80-71: A Grade
Medicine"		(each for 2		70-61: B Grade
		Marks)		60-51: C Grade
				50-00: Fail

Recommended Books/References

- Indian Medicinal Plants by Vaidya Ratnam & P.S. Varires, Arya Vaidya Sale 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 Common Ailments Hardcover by Andrew Chevallier
- Handbook Of Medicinal Plants by U. S. Bose, Oxford Book Company

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- Medicinal Plants Chemistry And Properties by Daniel M., Oxford & IBH Publishing 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 Reference Library
- Identification of Common Indian Medicinal Plants by V. N. Naik, Scientific Publisher, Jodhpur, India
- Ethnobotany & Medicinal Plants of India & Nepal by V. Singh, Scientific Publisher, Jodhpur, India

HOD Principal