



**LATE KU DURGA K. BANMERU SCIENCE COLLEGE,
LONAR, DIST. BULDANA. 443302.**

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