



Three Months
ADD-ON COURSE
In
Medicinal Plant Management and Conservation
(BOT-MPMC)
SYLLABUS

Offered by
Department of Botany, Mangaldai College

1. Title of the course: THREE MONTHS ADD-ON COURSE IN MEDICINAL PLANT MANAGEMENT AND CONSERVATION

2. Nature & duration of the Programme: FULLTIME Add-on course of THREE MONTHS (approved by the Academic Council, Mangaldai College).

3. Requirement/ Eligibility:

For admission in the course it is required that the candidate should be a regular student of Mangaldai College for the current session. It is desirable to have Chemistry as one of his/her subjects.

4. Credit points for certificate: 3

5. Duration of course: 3months

6. Mark Distribution:

Components	Weightage in %
I. Class attendance	10
II. Theory Examination	20
III. Field study report	10
IV. Assignment	10
Total	50

Unit 1: Introduction to Medicinal plants- Definition, history, importance, present and future needs of medicinal plants. Introduction of plant parts (fruit, leaves, roots, stem, seeds and their modification).

(1 hours)

Unit 2: Important Indian medicinal plants-

Plant parts used as powder: Identification and utilization of Turmeric (*Curcuma longa*), Garlic (*Allium sativum*), Cinnamon (*Cinnamomum verum*), Sarpgandha (*Raulfia serpentina*), Black pepper (*Piper nigrum*).

Plant parts used as juice/ decoction: Identification and utilization of Amla (*Embelica officinalis*), Bottle guard (*Lagenaria siceraria*), Basil (*Oscimum santum*), Giloy (*Tinospora cordifolia*)

Plant Parts Used as Lotion and Ointments: Identification and utilization of Aloe (*Aloe vera*), Fenugreek (*Trigonella foenumgraecum*), Neem (*Azadirachta indica*)

Plant Parts Used as Oil: Clove (*Syzygium aromaticum*), Coconut (*Cocos nucifera*), Castor (*Ricinus communis*), Til (*Sesamum indicum*).

(8 hours)

Unit 3: Pharmacognosy- History, definition and future scope of Pharmacognosy, Classification and pharmacognostic studies of crude drugs.

(3 hours)

Unit 4: Management and conservation of medicinal plants- Medicinal plant conservation areas (MPCA), Good Agriculture Practices (GAP), Integrated Pest Management (IPM).

(2 hours)

Unit 5: Practical-

(16 hours)

1. Collection, identification and herbarium preparation of locally available common important medicinal plants.
2. Study and documentation of commercial production of at least five medicinal plants. (Using website/ You Tube).
3. Field study and submission of field report.