

**Course Objectives:**

- To understand the diversity and distribution of medicinal and aromatic plants in India and cultivation and management of selected plants.
- To learn about the importance of Traditional Botanical Knowledge (Ethnobotany), Biopiracy, Intellectual Property Rights(IPR) and Bioprospecting of Medicinal and Aromatic Plants.
- To learn the significance and understand the role of medicinal and aromatic plants in different systems of medicine, drug industry and other commercial products.

**Course Outcomes:**

CO01: Knowledge on the diversity and distribution of medicinal and aromatic plants

CO02: Information on Biopiracy, IPR, Bioprospecting of medicinal and aromatic plants

CO03: Understanding the importance of medicinal and aromatic plants in different systems of medicine and drug industry

**Syllabus****Unit – 1**

Introduction to Medicinal plants (history, definition and classification, significance) and Aromatic plants (history, definition and classification, significance). Traditional and complementary medicine – Indian Traditional medicine (Ayurveda, Sidha & Unani), Naturopathy, Homeopathy.

**Unit – 2**

Characteristics of medicinal and aromatic plants, poisonous plants. Cultivation and management of any five important medicinal plants and aromatic plants of the world and India.

**Unit -3**

Diversity and distribution of Medicinal and aromatic plants in India. Sustainable utilization of medicinal and aromatic plants, commercial importance of products and process (drugs, cosmetics, perfumes *etc.*). Significance of any five medicinal plants and five aromatic plants occurring in India.

**Unit – 4**

Importance of Traditional Botanical Knowledge of medicinal plants (Ethnobotany, Ethnomedicines), Biopiracy, Intellectual Property Rights(IPR) and Bioprospecting of Medicinal and Aromatic Plants.

### **Evaluation Pattern:**

<b>Assessment</b>	<b>Internal</b>	<b>External</b>
Mid-Term Examination	30	0
Continuous Assessment	30	0
End Semester Examination	0	40
<b>Total</b>	<b>60</b>	<b>40</b>

\*CA - Can be Quizzes, Assignments, Projects, and Reports.

### **Text Books**

Amritpal Singh Saroya. 2018. *Text book of Medicinal and Aromatic Plants*. Indian Council of Agricultural research(ICAR), New Delhi.

Deepa devi, N. A . 2017. *Text Book of Medicinal and Aromatic Crops*. Aavishkar Publishers, Distributors, Jaipur.

Jitendra Singh, 2001. *Medicinal & Aromatic Crops*. Eastern Book Consortium. New Delhi.

### **References**

Farooqi, A.A & Sriram AH. 2000. *Cultivation Practices for Medicinal and Aromatic Crops*. Orient Longman Publ.

Hota D. 2007. *Bio Active Medicinal Plants*. Gene Tech Books.

SSC-MAP. 2007. *International Standard for Sustainable Wild Collection of Medicinal and Aromatic Plants*. Medicinal Plants Specialists Group, Species Survival Commission and IUCN.

[https://books.google.com.sa/books/about/Medicinal\\_Plants\\_of\\_the\\_World.html?id=UAitDwAAQBAJ&redir\\_esc=y](https://books.google.com.sa/books/about/Medicinal_Plants_of_the_World.html?id=UAitDwAAQBAJ&redir_esc=y)

[https://www.unido.org/sites/default/files/2009-10/Compendium\\_of\\_medicinal\\_and\\_aromatic\\_plants\\_volume\\_2\\_0.pdf](https://www.unido.org/sites/default/files/2009-10/Compendium_of_medicinal_and_aromatic_plants_volume_2_0.pdf)

[https://repository.poltekkes-kaltim.ac.id/id/eprint/1148/1/Handbook%20of%20Medicinal%20Herbs%20\(%20PDFDrive%20\).pdf](https://repository.poltekkes-kaltim.ac.id/id/eprint/1148/1/Handbook%20of%20Medicinal%20Herbs%20(%20PDFDrive%20).pdf)