

INSTITUTE OF ETHNOBIOLOGY

Course offered:

M.Sc. Medicinal Plants & Herbal Resource Management : (Two years / Four semester)

Profile of the Deptt.;

Since time immemorial plants and their products have been the most important need of the man. India possesses enormous biodiversity in the form of plants. Reports indicate that over 18000 species of flowering plants only occur in different parts of India. The number of species of lower plants is much more. In spite of this huge wealth its management and marketing aspects was not taken much care. The escalating human population and the need for food, fodder, fuel, fiber and other commodities has added great pressure on several important species. This has resulted in grand scale felling and clearing of forests. A large number of plants thus have disappeared and several others are facing several kinds of threat. During last several decades the industries, especially the pharmaceuticals have increased manifold collection of plants from forests without considering their conservational aspect.

In India over 7500 plant species are reported to be used for medicinal purposes, but the pressure lies on two or three hundred species only. This vast indigenous knowledge of multifarious uses of plants lies mainly with tribal people of the country. The rights of their knowledge should also be protected. Nearly one thousand medicinal plants of our country possess great market value, but due to lack of knowledge regarding their cultivation, storage and marketing very less economic benefit is gained. The drugs, which are at large, demand and they are not easily available, need special attention. The entire world is looking towards India for its enormous plant wealth. In 1990 The Ministry of Commerce, Govt. of India constituted a core group, which recommended for the promotion of education in plantation management. Now the conservation, cultivation and marketing of medicinal plants and other useful herbs have taken the shape of industry worldwide. People from all walks of life can be involved and benefited in this field. Educating people in this subject can also solve the unemployment problem of the rural and other sectors up certain extent. There is a great export potential in this field.

The institute treasures botanical archives, update literature on medicinal plants, tribal exhibits, good library and a herbarium. The university has a well established 'Medicinal plants Garden' (**Charak Udyan**) with over 250 plant species growing over there. Ex-situ conservation of approximately 20 threatened plant species has also been done in the garden. The garden has been recognized by **Botanical Garden Conservation International UK**, an international organization. The institute has a vast collection of seeds belonging to over 200 species. The present course provides education and training on the cultivation, management and marketing of medicinal, aromatic and other important plant species. **It also fulfils the thrust area programme of the UGC**, by having greater interaction between educational institutes, research laboratories, industries, trade and rural sectors. It also aims to provide knowledge on plants based small entrepreneurship, herbal drugs, Intellectual Property Rights Issues and related legal matters. The course mainly consists of two major aspects (a) Knowledge on plant wealth/its nature/availability/cultivation/utility/conservation. (b) Production/marketing and property rights on plant and products. A good number of research projects sponsored by international and national agencies have been conducted and ongoing by the institute.

The course has a wide scope and the pass out students are being demanded by:

Pharmaceuticals/Biotechnologylaboratories/Drug ResearchLaboratories/IndianPatent offices/ Agriculture/
BiodiversityDepartments/ ForestDepartments/ BotanicalGardens/
Plant Nurseries/Perfume/Dye/Tannin/Cosmetic/Gum Industries/CSIR Research Laboratories, etc

Placement : A good number of pass out students of the course have been employed in reputed pharmaceuticals, NGOs and other concerns.

Available seats : OPEN = 10

NRI = 2

Contact Person : Prof. Ashok K. Jain

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Mode of selection : On the basis of the merit in index based on the qualifying examinations

Eligibility : B.Sc. with 50% with a combination of any two subjects : Botany / Chemistry / Zoology / Forestry / Biochemistry / Industrial Chemistry / Biosciences / Microbiology / Biotechnology / Agro-forestry / Agriculture / Env. Sciences / Biotechnology / B.Pharma. / B.A.M.S.

Course Structure :

I–Semester	II–Semester	III–Semester	IV–Semester
Phytodiversity & Conservation	Plantation Technology & Resource Management	Downstream processing of herbal drugs	Financial Management
Ethnobotany & Traditional Systems of medicine	Aromatic Plants, Nutraceuticals and cosmeceuticals	Marketing Research & Statistics	Pharmaceutical laws, IPR & small scale
Fundamentals of Biochemistry	Marketing Management	Pharmacology of Herbal Drugs-I	Entrepreneurship Lab Course
Pharmacognosy of Medicinal Plants	Analytical Techniques & Computer Application	Pharmacology of Herbal Drugs-II	Triaining & Project work
Lab. course–I	Lab. course –III	Lab. course –V	<i>Presentation of Project work</i>
Lab course-II	Lab course-IV	Lab Course-VI	<i>(Visit to field and relevant organization)</i>

Fees for the course :

Open Seat

Course	I Semester	II Semester	III Semester	IV Semester
M.Sc. Medicinal Plant & Herbal Resource Management	Rs. 18415.00	Rs. 14525.00	Rs. 15875.00	Rs. 14525.00