

# DEPARTMENT OF BOTANY

GOVT. DEGREE COLLEGE NOWSHERA

DEPARTMENTAL PROFILE FOR THE SESSION 2020-21

Prepared by:

Prof. Pooja Devi; Head of Department, Botany



## **YEAR OF ESTABLISHMENT**

The department was established in the year 2016 after the introduction of science stream in the college.

## **DETAILS OF TEACHING POSTS**

- Teaching posts sanctioned: 01
- Teaching posts filled: 01
- Faculty on academic arrangement: 01
- Total teaching faculty: 02

## **DETAILS OF NON-TEACHING STAFF**

There is no sanctioned post of Laboratory Assistant and Laboratory Bearer in the Department. Still, the college has provided one Local Fund Employee to perform the duty of Lab. Bearer in Department.

## **PROFILE OF THE PRESENT FACULTY**

- Name: Mrs. Pooja Devi
- Designation: Assistant Professor
- Teaching Experience: 04 years 3 months
- Qualification: M.Sc., M.Phil., NET

## **LEARNING RESOURCES**

- Number of Subject books available in College Library: 182
- Specimen copies of Books provided by Publishers.

- Models, Charts, Specimens, Permanent Slides etc.
- Botanical Garden
- Herbal Garden (at its inception)
- A small collection of HERBARIA representing the local flora.

### **INFRASTRUCTURE**

- Staff Room: 01
- Practical Lab: 01
- Store Rooms: 02

### **EQUIPMENTS/INSTRUMENTS/LEARNING MATERIAL**

- Olympus Microscope Model HB: 10
- Dissecting Microscope: 06
- Models: RNA & DNA
- pH meter: 01
- Electronic oven: 01
- Weighing Balance: 01
- Charts/ Chemicals/ Permanent/ Specimens/ Class-work material as per the Syllabus

### **ESTABLISHMENT OF BOTANICAL GARDEN**

The Botanical Garden was established in the year 2019. A fallow area was chosen and the saplings were planted in properly manured pits. Majority of the plants were donated by Mr. Ramesh Chander Sharma, a Govt. Teacher by profession, who runs a private Plant Nursery at Siot

(Sunderbani, Distt. Rajouri). The staff and students of the college also contributed to enrich the Botanical Garden.

The Botanical Garden serves as an important learning resource for imparting taxonomic knowledge to the students of Botany.

### **ESTABLISHMENT OF HERBAL GARDEN**

A Herbal Garden was started in the college in March, 2021. A variety of herbal plants of medicinal importance such as aloe vera, kalanchoe (patharchatta), Murraya (curry-patta), ashwagandha, arjun, bahera, amla etc. are growing in the Herbal Garden. It shall be enriched with more plants in future.

### **HERBARIUM**

Herbarium is a repository of plants in dried and preserved form. A variety of Herbarium specimens belonging to local flora have been submitted by the students of Botany.

### **PROJECT WORK GIVEN TO STUDENTS**

In order to impart experiential learning, the students are assigned Project work under various courses. A summarized account of various Projects given to students of Botany is given below:

<b>S. No.</b>	<b>PROJECT TITLE</b>	<b>COURSE TITLE/CODE</b>
1.	Study the morphological diversity and taxonomy of the common plants belonging to the families mentioned in your syllabus (at least 10 plants)	Characteristics and systematics of seed plants /UBOPC 202
2.	Cultivation of Oyster mushroom (Dhingari)	Mushroom Cultivation Technology/UBOTS 503
3.	Prepare any two mushroom recipes	Mushroom Cultivation Technology/UBOTS 503
4.	Prepare a list of spices, timber-yielding plants and medicinal plants of your area (at least 10 plants of each category)	Economic Botany and Biotechnology/ UBOPE 502

## CURRICULUM DESIGN AND DEVELOPMENT

**Botany is being taught to students of UG Semester I to VI under Choice Based Credit System.**

**The curriculum focusses on all the divisions of Plant kingdom (Algae, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms); Plant Taxonomy; Plant Anatomy; Plant Physiology and metabolism; Plant Tissue Culture; Cell Biology and Genetics; Economic Botany and Biotechnology; Plant Ecology.**

**As our college is affiliated to University of Jammu, the curriculum framed by the affiliating university is adopted. However, the faculty is involved in curriculum revision by participating in the meetings of Board of Studies, organized by the affiliating University.**

## TITLES OF COURSES BEING TAUGHT AT UG LEVEL

### UNIVERSITY OF JAMMU SYLLABI FOR BACHELOR DEGREE PROGRAMME IN BOTANY

The following Courses of Study are prescribed for I to VI Semester/s Bachelor Degree (UG) Programme under CBCS in the Subject of BOTANY

Semester	Course No.	Title	Credits	Nature of Course
I	UBOTC101	<b>Diversity of microbes and Cryptogams</b>	4	CORE
	UBOPC102	<b>Diversity of microbes and Cryptogams</b>	2	CORE (Practicals)
II	UBOTC201	<b>Characteristics and Systematics of seed plants</b>	4	CORE
	UBOPC202	<b>Characteristics and Systematics of seed plants</b>	2	CORE (Practicals)
III	UBOTC301	<b>Plant Anatomy, Embryology and Ecology</b>	4	CORE
	UBOPC302	<b>Plant Anatomy, Embryology and Ecology</b>	2	CORE (Practicals)
	UBOTS303	<b>Nursery, Gardening and Floriculture</b>	4	SKILL ENHANCEMENT
IV	UBOTC401	<b>Plant Physiology and Metabolism</b>	4	CORE
	UBOPC402	<b>Plant Physiology and Metabolism</b>	2	CORE (Practicals)
	UBOTS403	<b>Ethnobotany</b>	4	SKILL ENHANCEMENT
V	UBOTE501	<b>Cell Biology and Genetics</b>	4	DSE/GE
	UBOPE502	<b>Cell Biology and Genetics</b>	2	DSE/GE (Practicals)
	UBOTS503	<b>Mushroom Cultivation Technology</b>	4	SKILL ENHANCEMENT
VI	UBOTE601	<b>Economic Botany and Biotechnology</b>	4	DSE/GE
	UBOPE602	<b>Economic Botany and Biotechnology</b>	2	DSE/GE (Practicals)
	UBOTS603	<b>Biofertilizers</b>	4	SKILL ENHANCEMENT