



WOMEN UNIVERSITY SWABI

KHYBER PAKHTUNKHWA-PAKISTAN

Department of Botany





Vice Chancellor's Message

Welcome to Women University Swabi, a university that is committed to empower women through higher education and provide them opportunities to work in a wide array of settings such as education, business, industry, health, and social services sectors.

To me, the job of a university is not only to produce degree holders and commercially marketable human resources, but I believe it is more than that. Universities are required to produce loyal, honest and enlightened human beings who can empathetically understand the needs of society, reverentially work in both national and international community, and take better care of the future generations.

PROF. DR. SHAHANA UROOJ KAZMI
WOMEN UNIVERSITY SWABI
KHYBER PAKHTUNKHWA-PAKISTAN

Department of Botany

Vision

Our vision is to be among the leading department of botany for providing world-class education to women and to establish internationally recognized laboratories that they can contribute in scientific exploration.

Mission

Our mission is to provide basic and applied education for young Pakistani women in the field of plant sciences, empowering them to become leading educationists and researchers who can effort in said field for the welfare of national community in particular and international in general.

BS Botany

Msc Botany

M.Phil Botany



ABOUT US

Botany is the scientific study of plants. Plants are a vital component of the Biosphere and are directly responsible for the conditions required for life on earth. Plants life can be studied from different perspectives i.e., from the genetic, molecular and biochemical level through different cell organelles, tissues, organs, individuals, populations, and plant communities. Plants are also the mainstay of human and animal diets and provide medicines, gum, timber, paper, clothing, shelter, and energy.

The Department of Botany is one of the pioneer department of Women University Swabi. Currently, it offers BS (4-years) and MSc (2-years) and MPhil in Botany.

The department has qualified faculty having diverse specializations providing quality education and research training to women. It facilitates interdisciplinary research and training opportunities to make it possible for students to address various problems related to natural or commercial plant resources. Being in floristic rich area, researchers of this department are conducting vegetation analysis for the welfare of the people of the area in particular and the country in general.

Since its inception, a total of 299 students have been completed their degrees in BS/MSc Botany. Presently, 195 students are enrolled in MPhil, MSc and BS programs in Botany.

The Department of Botany is enthusiastic to start PhD research program and has applied Higher Education Commission, Islamabad (HEC) for prior NOC.

Scope/ Career Opportunities

The graduates of Botany can contribute in national and international level projects related to plant sciences and they can get jobs in various organizations like;

- Public and private sectors organisations/departments in federal, provincial and district level like Education, Forestry, Wild Life, Horticulture, Floriculture, Agriculture, Health, food and pharmaceutical industries etc.
- Research institutions/organizations like Arid Zone Research Institute (AZRI), Pakistan Agricultural Research Council (PARC), Pakistan Council of Scientific and Industrial Research (PCSIR), National Institutes of Health (NIH), Pakistan Museum of Natural History (PMNH), National Institute of Food and Agriculture (NIFA) and Food and Agriculture Organization (FAO) etc.
- NGOs (local, National and international).

BS Botany

(4 Years)

(4 Years)
8 Semesters

Admission Criteria

- Minimum 45 % marks at intermediate level or equivalent.
- Bachelor of art (B.A) or B.sc degree for the Master admission

Scheme of Studies BS Botany

Category	Course Title	Credit Hours
Semester 1		
Major-01	<i>Phycology</i>	3(2+1)
G. Ed.-01	Islamic Studies	3(3+0)
G. Ed.-02	English Grammar & Composition	3(3+0)
G. Ed.-03	Quantitative Reasoning-I	3(3+0)
G. Ed.-04	Arts and Humanities-I	3(3+0)
Semester 2		
Major-02	<i>Mycology</i>	3(2+1)
G. Ed.-05	Pakistan Studies	3(3+0)
G. Ed.-06	Basic Communication Skills	3(3+0)
G. Ed.-07	Arts and Humanities-II	3(3+0)
G. Ed.-08	Quantitative Reasoning-II	3(3+0)

Semester 3		
Major-03	<i>Lichenology</i>	3(2+1)
Major-04	<i>Bryology</i>	3(2+1)
G. Ed.-09	Technical Report Writing	3(3+0)
G. Ed.-10	Social Science-I	3(3+0)
G. Ed.-11	Natural Sciences-I	3(2+1)
Semester 4		
Major-05	<i>Pteridology</i>	3(2+1)
Major-06	<i>Gymnospermology</i>	3(2+1)
Major-07	<i>Taxonomy of Flowering Plants</i>	3(2+1)
G. Ed.-12	Social Sciences - II	3(3+0)
G. Ed.-13	Natural Sciences-II	3(2+1)
Semester 5		
Major-08	<i>Plant Systematics</i>	3(2+1)
Major-09	<i>Plant Cytology</i>	3(2+1)
Major-10	<i>Plant Anatomy</i>	3(2+1)
Major-11	<i>Plant Physiology</i>	3(2+1)
Major-12	<i>Plant Ecology</i>	3(2+1)
Semester 6		
Major-13	<i>Plant Genetics</i>	3(2+1)
Major-14	<i>Plant Biochemistry</i>	3(2+1)
Major-15	<i>Biostatistics</i>	3(2+1)
Major-16	<i>Phytopathology</i>	3(2+1)
Major-17	<i>Medicinal Plants</i>	3(2+1)

Semester 7

Major-18	<i>Concept of Botanical Gardens</i>	3(2+1)
Major-19	<i>Management of Invasive Plant</i>	3(2+1)
Major-20	<i>Plant Nematology</i>	3(2+1)
Major-21	<i>Ethnobotany</i>	3(2+1)
Major-22	<i>Research Project /Optional-I</i>	3/3(2+1)

Semester 8

Major-23	<i>Management of Plant Diseases</i>	3(2+1)
Major-24	<i>Plants Microbes Interaction</i>	3(2+1)
Major-25	<i>Introduction to Tree-ring Science</i>	3(2+1)
Major-26	<i>Plant Tissue culture</i>	3(2+1)
Major-27	<i>Research Project /Optional-II</i>	3/3(2+1)

02 Optional/Elective courses will be offered for those students who are not interested in research projects.

Opt-1	<i>Subject Specific</i>	3(2+1)
Opt-2	<i>Subject Specific</i>	3(2+1)
Opt-3	<i>Subject Specific</i>	3(2+1)
Opt-4	<i>Subject Specific</i>	3(2+1)
Opt-5	<i>Subject Specific</i>	3(2+1)
Opt-6	<i>Subject Specific</i>	3(2+1)
Opt-7	<i>Subject Specific</i>	3(2+1)
Opt-8	<i>Subject Specific</i>	3(2+1)

Note: A mandatory internship for AD and BS is mandatory according to HEC Undergraduate Education Policy 2020/Women University Swabi approved rules and regulations

**List of approved courses for
Master of Philosophy (MPhil: BOTANY)**

Program	Course Title	Credit Hours
MPhil Course Work	<i>Vegetation Ecology</i>	3(2+1)
	<i>Molecular Plant Pathology</i>	3(2+1)
	<i>Plants Tissue Culture and growth regulators</i>	3(2+1)
	<i>Plant Stress Physiology</i>	3(2+1)
	<i>Histo Pathology of Diseased Plants</i>	3(2+1)
	<i>Phytogeography</i>	3(2+1)
	<i>Dendrochronology</i>	3(2+1)
	<i>Pharmacognosy</i>	3(2+1)
	<i>Plant Pathology and Environmental Concerns</i>	3(2+1)
	<i>Biological Control of Plant Diseases</i>	3(2+1)
	<i>Wetland Ecology</i>	3(2+1)
	<i>Plant Phylogeny</i>	3(2+1)
	<i>Aromatic Plant Resources</i>	3(2+1)
<i>Dendroecology</i>	3(2+1)	

HEC Revised Policy for Master of Philosophy (MPhil)

Minimum of 4 semesters, (2 years) for full time students	
Maximum time limit of 3 years for full time students	
Total No. of Credit Hours	30
Course Work OR Course Work +Thesis/Dissertation	30 credit hours by course work OR Course Work of 24 Credit Hours+ Thesis of 06 Credit Hours
Number of Regular Semesters	04
Course Work 1st Semester	09-12 credit Hours
Course Work 2nd Semester	09-12 credit Hours
Semester Duration (course Work)	Minimum of 16 weeks of teaching excluding examinations

Faculty Members of Botany

Dr. Muhammad Wahab

Associate Professor (Chairperson)
Ph.D. & Post Doc. in Botany



Dr. Gulnaz Parveen
Associate professor



Dr. Zaib-Un-Nisa
Assistant professor
Ph.D. in Botany



Dr. Latif Ahmad
Assistant Professor
Ph.D. in Botany



Dr. Shabana Wagi
Assistant Professor
Ph.D. in Botany



Dr. Rimsha Zainab
Lecturer Botany
Ph.D. in Botany



Dr. Zubia Rahim
Lecturer Botany
PhD in Botany



Dr. Roomina Mazhar
IPFP Fellow
Ph.D. in Botany



Ms. Neelam Azeem
Lecturer Botany
M.Phil in Botany



Ms. Khadija Rehman
Lecturer Botany
M.Phil in Botany



Ms. Asma Zahid
Lecturer Botany
M.Phil. in Botany

