



FACULTY OF SCIENCE AND TECHNOLOGY

The Faculty of Science & Technology offers quality programs leading to degrees in Biotechnology, Botany, Chemistry, Environmental Science, Physics, Mathematics, Geography and Zoology. The faculty and staff in our Faculty are committed to excellence in education, research and service and strive to provide special and personalized attention to each of our students.

The Faculty of Science & Technology represents a scientifically vital active society with diverse knowledge and cultures, having a group of distinguished professors, specialists, experts and prominent researchers, who are trying to achieve excellence, and who contribute significantly towards supporting the vision and mission of the University for the continuing evolution and enduring success. All members of this faculty are competent academics and are actively involved in research, witnessed by publications in highly ranked academic journals.

In contemporary society, which is characterized by the fast-paced advancement of science and technology, researchers must deal with a diversity of new issues. Our students also play a substantial role in making our programs successful through hard work and persistence in finding solutions to challenging issues. The university produces researchers who acquire a more sophisticated ability to discover and resolve problems through more specialized studies and are equipped for extensive activity in society. Our new goals center on enhancing existing programs and building new programs, increasing our focus and integration of global and international competencies and experiences, deepening our community engagement, and intensifying our research and scholarship.

Our academic staff and faculty have trained a large number of students having majors in various fields of sciences. The rate of success of our graduates, who enter in post-graduate programs, is higher than 90%. Many of our alumni work in the community and are successful individuals, who contribute to the economic, social, and overall development and welfare of the country.

The Heads of Departments, faculty, staff and I myself welcome you to make the process of learning an enjoyable and empowering experience.

Prof. Dr Shagufta Naz

Dean Faculty of Science and Technology

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DEGREE PROGRAM OFFERED

- BS Biotechnology (Regular)
- BS Biotechnology (Self Supporting)
- MS Biotechnology (Regular)
- MS Biotechnology (Self Supporting)
- Ph.D. Biotechnology

OVERVIEW

It is a matter of pride and pleasure for me to introduce the Department of Biotechnology, Lahore College for Women University. The Department was established in 2010 with an objective of imparting quality education in the multidisciplinary field of Biotechnology at both undergraduate and postgraduate levels. Our Department is located in close proximity to other Departments in the natural sciences - Chemistry, physics, statistics and mathematics - the institute of Pharmacy and state-of-the-art shared facilities, making LCWU a rich environment for our students and faculty. Department of Biotechnology has well-equipped research and computer labs. A Library in the department laden with latest books in order for our students to acquaint themselves with the latest knowledge and research. Scanning Electron Microscope, XRD, FTIR, GCMS, HPLC and many other resources, are close by. Our outstanding facilities and beautiful department provide an exceptional environment for teaching and research.. Biotechnology, a major driving force towards a sustainable society. Sustainable production of biofuels, biochemicals, pharmaceuticals, clothes, food and other products is a necessary alternative to current production methods and requires massive education of biotechnologist. Biotechnologist work in all phases of society's development towards bio based economy. Biochemical and molecular biological tasks include mining of genes, modifying processes, or natural compounds from natural resources as well as design and construction of recombinant cell-factories. Fermentation tasks include design, optimization, and running of fermentation processes. Other tasks include purification and quality control of proteins and biochemical - and most importantly, the invention of new methods to use biotechnology for the benefit of society. All of these tasks require specialized biotechnologist that are educated in a combination of scientific research and industrial application. Biotech industry is an expanding billion-dollar industry offering a promising future for Biotechnologist whether employed in a large biotech company or starting up small companies as bio-entrepreneurs. Through the programed, you will build upon your fundamental knowledge of biochemistry, protein and enzymology, microbiology, molecular biology, genetics, proteomics and fermentation process technology.

You will learn to apply this knowledge on biotechnological problems, ranging from basic research issues to the development of new cell factories and the study of their performance in bioreactors. You will acquire the relevant competencies for collecting and analyzing wide-ranging types of data using statistics, bioinformatics, and mathematical models. Some of our research groups focus on Health and Agricultural Biotechnology, while others explore open questions with Microbial Biotechnology, Industrial Biotechnology, Molecular Biology, Bioinformatics, Pharmaceutical Biotechnology, Bio-Nanotechnology, Genomics and Proteomics, Molecular Diagnostics and Virology. We are dedicated to developing the next generation of scholars in biotechnology and building an inclusive learning environment.

LEARNING OBJECTIVES

- To provide education that leads to comprehensive understanding of the principles and practices of biotechnology.
- To educate and make them up to date with the current scientific literature, computer programs and web information.
- To provide broad based training in technical skills in methods of biotechnology.
- To empower students with the ability to think and solve problems in the field of biotechnology.
- To ensure students are able to effectively communicate with biotech and other interdisciplinary professionals.
- To produce responsible biotechnologists that can work within the interdisciplinary framework of biotechnology and related fields.
- To build strong foundation for future leaders of our country towards a more prosperous and a more developed Pakistan.

OUTCOMES

- Students will be able to demonstrate their knowledge of biotechnology concepts.
- Students will possess the technical background knowledge needed to support biotechnology research activity.
- Students will possess hands-on technical skills necessary for supporting biotechnology research activity.
- Students will be equipped with skills to work in teaching and research institutes, diagnostic labs or any Biotechnology industry.
- Students will be able to demonstrate the ability to apply research strategies to solve biotechnology problems.
- Students will be able to demonstrate the ability to communicate effectively with appropriate audiences with regard to field of biotechnology.
- Students will show understanding of management tools and concepts.
- Students will be able to demonstrate the ability to work effectively in teams.

BS BIOTECHNOLOGY

Eligibility Criteria

- F.Sc Pre-medical, A levels or equivalent.
- All other requirements are as per university admission policy (Please see University eligibility criteria for BS admission)

Duration: 4 Years,

Total Credit hours: 136 CH

MS PROGRAM

Eligibility Criteria

- 16 years of education i.e. BS/M.Sc. in Biotechnology, Botany, Biochemistry, Zoology, Environmental sciences, Agricultural sciences and Pharmacy, Homeopathic medicine, Medical Lab Technology or equivalent.
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by University is mandatory for admission.
- All other requirements as per University policy (Please see University criteria for MS)

Duration: 2 Years

Total Credit Hours: 36 CH

SPECIALIZATION OFFERED

- Algal Biotechnology • Bioinformatics • Bio-Nanotechnology • Genetic Engineering
- Health Biotechnology • Human Genetics • Industrial Biotechnology
- Microbial Biotechnology • Pharmaceutical Biotechnology • Plant Biotechnology

Ph.D. BIOTECHNOLOGY

Eligibility Criteria

- 18 years of education i.e. MS/ M.Phil. in Biotechnology, Botany, Biochemistry, Zoology, Environmental Sciences, Agricultural Sciences, Pharmacy, Homeopathic Medicine, Medical Lab Technology or equivalent.
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and interview organized by University is mandatory for admission to Ph.D program.
- All other requirements as per University policy (Please see University admission eligibility criteria for Ph.D)
- Admission in Ph.D program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Duration: 3-5 years

Total Credit Hours: 18 CH

SPECIALIZATION OFFERED

- Algal Biotechnology
- Bioinformatics
- Bio-Nanotechnology
- Genetic Engineering
- Health Biotechnology
- Human Genetics
- Industrial Biotechnology
- Microbial Biotechnology
- Pharmaceutical Biotechnology
- Plant Biotechnology

List Of Faculty

- **Prof. Dr. Shagufta Naz**, Dean Faculty of Science and Technology, M.Sc. Botany (PU), Ph.D. Botany with Specialization in Plant Biotechnology (PU)
- **Prof. Dr. Mehwish Iqtedar**, Chairperson Tenured Associate Professor (TTS), M.Sc. Zoology (PU), Ph.D. Zoology with Specialization in Microbiology (PU),
- **Prof. Dr. Faiza Saleem**, Tenured Associate Professor (TTS), M.Sc. Zoology (PU), Ph.D. Biological Sciences with Specialization in Micro- and Molecular Biology (PU), Postdoc Molecular Biology (PU)
- **Dr. Roheena Abdullah**, Tenured Associate Professor (TTS), M.Sc. Botany (PU), M.Ed., M.Phil (GCU), Ph.D. Botany with Specialization in Industrial Biotechnology (GCU)
- **Dr. Neelma Munir**, Tenured Associate Professor (TTS) M.Sc. Botany (PU), Ph.D. Botany with Specialization in Plant Biotechnology (PU)
- **Dr. Rasheeda Bashir**, Tenured Associate Professor (TTS), M.Sc. Zoology (GCU), M.Phil. Zoology (GCU), Ph.D. Microbiology and Molecular Genetics (PU)
- **Dr. Afshan Kaleem**, Tenured Associate Professor (TTS) MS Biochemical Engineering (Denmark), Ph.D. Biotechnology (GCU) with Specialization in Proteomics and Bioinformatics
- **Dr. Farheen Aslam**, Assistant Professor (TTS), M.Sc. Biochemistry (PU), Ph.D. Biological Sciences with Specialization in Biochemistry and Molecular Biology (PU)
- **Dr. Saiqa Ilyas**, Assistant Professor M.Sc. Botany (GCU), M.Phil. Biotechnology (GCU), Ph.D. Botany with Specialization in Plant Biotechnology (LCWU)
- **Dr. Rukhama Haq**, Assistant Professor (Adhoc) BS (Hons.) Botany (LCWU), MS Botany (LCWU), Ph.D. Biotechnology (LCWU)
- **Dr. Mahwish Aftab**, Assistant Professor (Adhoc) BS (Hons) Zoology (PU) (Gold Medalist), M.Phil. Molecular Biology (CEMB, PU) (Gold Medalist), Ph.D. Biotechnology (LCWU)

Contact detail:

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DEGREE PROGRAM OFFERED

- BS Botany (Regular+ Self Supporting)
(4 year program)
- MS Botany (Regular+ Self Supporting)
(2 year program)
- Ph.D. Botany (3-5 year program)

OVERVIEW

Botany as subject is being taught to college classes since 1922 at LCWU, B.Sc Botany was started in 1956. M.Sc. Botany was launched in 1994 by the endless efforts of then, Head of the Department Prof. Mrs. Khatoon Zahoor. A four year BS degree program was initiated in 2005, whereas MS, MS leading to Ph.D and Ph.D programs were started in 2009.

Mrs. Dilara Muqueet, Ms. Prem Madan, Prof. Mrs. Khatoon Zahoor, Mrs. Shamim Sattar , Prof. Mrs. Rashida Zafar and Prof. Mrs. Zafar Hussain served as former HODs from 1956 to 2013. Ms. Prem Madan would always be remembered as a legendary teacher and administrator. Currently Prof. Dr. Farah Khan is working as the Chairperson of the Botany Department since 2013.

Our mission and vision is to educate and train the youth to apply the basic knowledge of Plant Sciences to broadening horizons of Agriculture, Horticulture, Biotechnology, Molecular Biology and other related fields. We are striving to achieve excellence to produce professionally trained graduates in line with increased productivity and skills requirements.

BS BOTANY PROGRAM

Learning Objectives

- The overarching aim of Botany Department is to produce Graduates, Post Graduates & Doctorates with better understanding of plant sciences.
- We are also determined to provide well skilled female graduates of Plant Sciences, according to the requirement of the job market on national and international levels and give a new get up to Botany as a subject, making it more appreciable and attractive for the human resource sector.

Outcomes

- To produce graduates with dynamic and research oriented approach who are able to get incorporated in reputable national and international universities, institutes and companies for further education/research or job.
- To develop and train Human resource in current job oriented fields of Plant Sciences.
- To prepare the skilled and professional Pakistani female youth with high moral values and ethics.

Job Opportunities

- Teaching at various public and private sector Educational Institutes/Universities.
- Researchers at different scientific national and international research institutes.
- Employment at national and international Agriculture, Horticulture and Biotechnological Institutions/Departments and Companies.

Eligibility Criteria

- F. Sc. (Pre-Medical) or Equivalent

Duration: 4 Years

MS BOTANY PROGRAM

Learning Objectives

- Our basic objective is to produce post graduate scholars with better understanding of Plant Sciences and their applications in society.
- Department of Botany intends to get its students well groomed, creative and confident to step forward in the practical life.

Outcomes

- To develop and train human resource in the field of Plant Sciences, making it job and business oriented.
- To prepare the skilled and professional Pakistani female youth with high moral values and ethics.

Eligibility Criteria

- BS Botany or Equivalent (16 Years education)
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by University is mandatory for admission.
- All other requirements as per University policy (Please see University criteria for MS)

Duration: 2 Years

Total Credit Hours: 36 CH

Specializations Offered

- Molecular Genetics/ Molecular Biology • Biotechnology • Fungal Biotechnology
- Medicinal Plants • Molecular Taxonomy • Phytochemistry • Plant Physiology
- Plant Taxonomy • Molecular Mycology • Plant Fungal Interaction • Biochemistry
- Nano Biotechnology • Molecular Virology

Ph.D BOTANY PROGRAM

Learning Objectives

We aim to produce national scholars and researchers, who are not only able to transfer their knowledge to society but can also compete on national and international levels using their innovative and evolutionary research work.

Outcomes

- To generate self- motivated scholars who can compete at international level by making revolutionary development in Plant Sciences.
- To prepare the skilled and professional Pakistani female youth with high moral values and ethics.

Eligibility Criteria

- MS Botany or Equivalent (18 Years education)
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and interview organized by University is mandatory for admission to Ph.D program.
- All other requirements as per University policy (Please see University admission eligibility criteria for Ph.D)
- Admission in Ph.D program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Duration: 3-5 years

Total Credit Hours: 18 CH

Specializations offered

Area of Specialization

- Molecular Genetics/Molecular Biology • Biotechnology • Phytochemistry
- Fungal Biotechnology • Medicinal Plants • Molecular Taxonomy • Plant Physiology
- Plant Taxonomy • Molecular Mycology • Plant Fungal Interactions • Biochemistry
- Nanobiotechnology

List Of Faculty

- **Prof. Dr. Farah Khan**, Chairperson, Professor, M.Sc. Botany, Ph.D Botany with specialization in Biotechnology (PU, Pk.), Post Doc in Molecular Genetics specially the Viroidal Genomics, Ohio State University, (USA).
- **Dr. Zubaida Yousuf**, Professor, M.Sc. Botany (UAAR, Pk.), Ph.D. with specialization in Molecular Taxonomy (QAU, Pk.), Post Doc. with specialization in medicinal Plants Genomics and Genetics (China).
- **Dr. Sumera Iqbal** Associate Professor, M.Sc. Botany (UAAR, Pk.), Ph.D Plant Sciences with specialization in Plant Physiology (QAU, Pk).
- **Dr. Shabnam Shaheen** Associate Professor, M.Sc. Botany (UAAR, Pk.), Ph.D Plant Sciences with specialization in Plant Taxonomy (QAU, Pk.), Post Doc. with specialization in medicinal Plants (Malaysia).
- **Dr. Khajista Jabeen** Associate Professor, M.Sc Botany, Ph.D Mycology and Plant Pathology with specialization in Fungal Biotechnology (PU, Pk).
- **Dr. Sumera Javad** Associate Professor, M.Sc Botany Gold Medalist (LCWU, Pk.), Ph. D Botany with specialization in Plant Tissue Culture and Biochemistry (LCWU, Pk).
- **Dr. Smaina Sarwar**, Assistant Professor, M.Sc. Botany, Ph.D Botany with specialization in Molecular Mycology/Fungal Biology(PU, Pk.), PhD IRSIP Fellowship (UK).
- **Dr. Mobina Ulfat**, Assistant Professor, M.Sc. Botany, M.Phil Botany with specialization in Plant Physiology (UAF, Pk), Ph.D Botany with specialization Molecular Plant Stress Physiology (GCU, Lahore, Pk)
- **Dr. Sobia Ilyas** Assistant Professor, BS Hons. Botany, Ph.D Botany with specialization in Molecular Mycology, Plant Fungal Interaction, Fungal Biology (PU, Pk.), PhD IRSIP Fellowship (USA).
- **Dr. Sana Khalid** Assistant Professor, M. Sc Hons. Gold medalist (Botany), M. Phil (PU. Pk) Ph.D (PU. Pk) with specialization in Molecular Plant Virology.
- **Dr. Kiran Shahzadi** Assistant Professor Adhoc, M.Sc. Botany, M.Phil Biotechnology (GCU, Pk.), Ph.D Botany with specialization in Plant Biotechnology (LCWU, Pk).
- **Dr. Riffat Siddique** Assistant Professor Adhoc M.Sc. Gold medalist Botany (PU, Pk.) Ph. D Botany with specialization in Molecular Virology (LCWU, Pk).

- **Dr. Hannan Mukhtar** Assistant Professor Adhoc, M.Sc. Botany (PU, Pk.)
Ph. D Botany with specialization in Biotechnology (LCWU, Pk).
- **Dr. Amina Tariq** Assistant Professor (Adhoc) M.Sc. Botany, M.Phil Environmental Sciences (GCU, Pk.) Ph. D. Botany Gold medalist with specialization in Biotechnology (LCWU, Pk).
- **Dr. Aroosa Aftab** Lecturer, M.Sc. Gold Medalist, Botany (GCU, Pk.), M.Phil Botany (GCU, Pk) Ph. D. Botany with specialization in medicinal plants, genetic + genome (LCWU, PK).
- **Dr. Zaryab Khalid Sial** Lecturer, MS Botany, Ph. D. Botany with specialization in Molecular Genetic (LCWU, Pk).

Supporting Staff

- **Ms. Shaheen Qasim**, Senior Lecture Assistant
- **Mr. Muhammad Wasim**, Junior Clerk
- **Ms. Tayyiba Khaliq**, Lecture Assistant

Contact Detail:

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DEGREE PROGRAM OFFERED

- BS Chemistry
- MS Chemistry (Regular)
- MS Chemistry (Self-support)
- Ph.D. Chemistry

OVERVIEW

Chemistry has been taught at LCWU at intermediate level since 1922. Graduate program was commenced in 1958 while B.Sc Honours (3 years), M.Sc. Chemistry and Ph.D programs were offered in 2003 after upgradation of college to university. Currently BS (4 years), MS (2 years), MS (2 years, self-supporting) and Ph.D programs are being offered by the department. A total of 11 faculty members (9 Ph.D and 2 MS) are working in the fields of analytical, biochemistry, inorganic, organic and physical chemistry. Chemistry department is progressing towards excellence in education and research under guidance of Higher Education Commission, Pakistan. Dr. Bushra Naseem, Head of Chemistry Department endeavors the department to be a nationally recognized model where students learn and contribute in the society.

To achieve this vision, the department is committed to provide best educational environment by:

- Frequent interactions between faculty and students
- Independent thought
- Collegial exchange of ideas and high ethical standards
- Use of modern educational technology in lectures and laboratory courses

However, our actual pride is our confident, well educated and competent faculty and female students who are expected to occupy the best position in academia, chemical and pharmaceutical industries at both national and international levels.

OBJECTIVES

The department aims to disseminate a systematic, fundamental and comprehensive knowledge of all fields of chemistry to all levels of students:

- The students can communicate successfully in both written and oral formats.
- They can perform effectively in the workplace and have the ability to work and make effective use of a wide variety of current technologies.
- The student can express the ability to think critically, conceptually and rationally, can gather, interpret and analyze data to give inferences.

OUTCOMES

- Reveal first rate laboratory skill and techniques; include use of different analytical instruments.
- Demonstrate satisfactory way of thinking to chase their career objectives and further professional training at national and international level.
- Written and communication skills reflect their scientific concepts and knowledge.
- Students show analytical approach towards life, can organize, analyze the raw data and use scientific methods to get results and cope with different problem solving situations.

BS PROGRAM

The BS program is designed for students planning graduate study in Chemistry and seeking career as professional chemists.

Eligibility Criteria

- Intermediate (Pre-Medical / Pre-Engineering) with more than 60% marks.
- A level and equivalent with good grades and premedical subjects.
- All other requirements as per university policy (please see university admission criteria for BS)

Duration: 4 years

Total Credit Hours: 136 CH

GROUPS

- Chemistry, Botany, Zoology
- Chemistry, Physics, Maths

MS Chemistry

The master of sciences in Chemistry is designed for individuals with a bachelor's degree in Chemistry who wish to advance their careers in the local chemical/ pharmaceutical industries, educational and research institutes.

Eligibility Criteria

- 16 years of education (B.S or M.Sc in relevant fields) or equivalent.
- The candidates must have obtained 2.5/4.00 CGPA in semester system or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by university is mandatory for admission.
- All other requirements as per university policy (Please see University admission criteria for MS).

Duration: 2 years

Total Credit Hours: 36 CH

Specialization Offered

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Biochemistry
- Analytical Chemistry

Ph.D. PROGRAM

The Doctor of Philosophy in Chemistry program provides a broad foundation in Chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. The program is designed to produce well qualified chemists for educational institutions, government agencies, and industrial and business entities.

Eligibility Criteria

- Minimum 18 years of education M.Phil / MS in Chemistry.
- The candidates must have obtained 3.00/4.00 CGPA in semester or 60% marks in annual system.
- Entry test (70% qualifying marks) and interview organized by university is mandatory for admission in Ph.D program.
- Candidates working in Government/semi-government institutions have to submit NOC from concerned organization.
- All other requirements as per university policy (Please see university admission criteria for Ph.D).
- Admissions in PhD program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Specialization Offered

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Biochemistry
- Analytical Chemistry

List Of Faculty

- **Dr. Bushra Naseem**, Chairperson, Tenured Professor, M.Phil, Ph.D (QAU) Post Doc. Bristol, UK
- **Dr. Saadia Rashid Tariq**, Tenured Professor, M.Phil, Ph.D (QAU)
- **Dr. Erum Akbar Hussain**, Tenured Professor, M.Sc, Ph.D (HEJ research institute of Chem. KU)
- **Dr. Shahida Shujaat**, Tenured Associate Professor, M.Phil (QAU), Ph.D (HEJ research institute of chem. KU) Post Doc. Univ of Cincinnati, Ohio, USA
- **Dr. Sana Ahmad**, Tenured Associate Professor, M.Sc. Hons (PU), Ph.D France
- **Dr. Abida Yasmeen**, Assistant Professor (TTS), M.Sc, (UAF), M.Phil, Ph.D (QAU)
- **Dr. Fozia Iram**, Assistant Professor (TTS), M.Phil (GCU), Ph.D (PU)
- **Dr. Shahnaz**, Assistant Professor (TTS), M.Sc., Ph.D (HEJ)
- **Dr. Rehana Kousar**, Assistant Professor (TTS), M. Phil (BZU Multan), Ph.D (South Korea)
- **Ms. Syeda Nazish Arshad**, Lecturer, MS (LCWU)
- **Ms. Touseef Kazmi**, Lecturer, MS (LCWU) (on study leave)

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DEGREE PROGRAM OFFERED

- BS Environmental Science(4 Years Degree)
(Regular+Self-Supporting)
- MS Environmental Science(2 Years Degree)
(Regular+Self-Supporting)
- Ph.D. Environmental Science

OVERVIEW

The 21st century promises for both an exciting time and a challenging world to live in. Many of the most complex challenges will be environmental forcing people to divert their attention towards this field. Meeting these challenges will require problem solving abilities based in natural, social and management sciences, and other disciplines. Environmental Science is the application of a combination of scientific disciplines to issues and questions regarding environmental and socio-economic problems. Environmental degradation, energy crisis, water scarcity, food security; mitigation and adaptation to climate change impacts are the major areas of concern in today's world. The economy is moving towards "Green or low Carbon Economy" based on Carbon neutrality and valuation of ecosystem services. Environmental pollution, depletion of resources and disintegration of ecological functions are of global, regional and local concerns. To prevent continued environmental degradation and the decline of human society, interactions between human and the environment have to be in harmony. This is achievable through an integrated, holistic approach encompassing natural, social and management sciences with political support and technological, economic and social interventions. This will require qualified and trained human resource and so is the objective of Environmental Science Department.

Environmental science department takes pride in the fact that since its inception; over six hundred students have graduated obtaining their BS, MSc and MS degrees and providing services to various echelons of society which indicates the success of our program and the trust of the stakeholders in this department. Environmental Science department is actively involved in the restoration of indigenous flora with community participation, creating awareness about the role of ecosystems in human health and local community capacity building regarding conservation of indigenous vegetation.

Graduates of Environmental Science Department, LCWU are working with various Eco-Laboratories, Institutes, Organizations, NGO's and Industries of UK, USA, Kuwait, Saudi Arabia and Pakistan etc. It is a great success of Environmental Science Department that majority of graduates have been successful to get the job right after passing out from the University.

Our graduates have opportunity to opt career in the Environmental Laboratories, Universities, Health Department, Agricultural Department, Environmental Law, Industries, Research Organizations, NGO's Environmental Engineering, GIS/Mapping, and Meteorology Department. Graduates also have opportunities in the sectors including Environmental Management, Research Regulations and Policy Development of Government.

BS ENVIRONMENTAL SCIENCE

Learning Objectives

Environmental Science is a decision support science, which has emerged as a result of convergence of a wide range of disciplines, therefore, its scope is wide as inter and multi-disciplinary field of knowledge. Its ambit is as wide as environment itself.

The aim of undergraduate degree programme in the discipline of Environmental Science is sustainable development and to develop human resource equipped with knowledge to support decisions, skills needed to mitigate impacts of climate change or adapt necessary measures and attitude to contribute in development of sustainable life style in the society and to develop green economy.

Eligibility Criteria for BS-Environmental Science

- The eligibility for admission is F.Sc. Pre-Medical or Pre-Engineering with 60% marks or A-level with equivalent marks.
- All other requirements as per university policy (please see university admission criteria for BS).

Duration: 4 Years

Total Credit Hours: 136 CH

MS ENVIRONMENTAL SCIENCE

Eligibility Criteria for MS Environmental Science

- All the applicants with minimum 16 years of educations (BS/M.Sc./Equivalent) in the subject of Environmental Science/ Botany/ Chemistry/Zoology/Physics/Agriculture/MBBS/ Pharmacy/Geography are eligible.
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by University is mandatory for admission.
- All other requirements as per University policy (Please see University criteria for MS)

Duration: 2 Years

Total Credit Hours: 36 CH

Ph.D. ENVIRONMENTAL SCIENCE

Eligibility Criteria for Ph.D.

- All the applicants with minimum 18 years of education (M.Phil./MS/Equivalent) in the subject of Environmental Science/ Botany/Zoology/Chemistry/Physics/Agriculture/MBBS/Pharmacy /Geography/Wild life and Fisheries are eligible.
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and interview organized by University is mandatory for admission to Ph.D program.
- All other requirements as per University policy (Please see University admission eligibility criteria for Ph.D)
- Admission in Ph.D program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Duration: 3-5 years

Total Credit Hours: 18 CH

Specializations Offered

- Sustainable Water Resource Management • Biodiversity • Climate Change
- Environmental Biotechnology • Environmental Monitoring • Environmental Green Chemistry
- Environmental Toxicology • Environmental Nanotechnology • Solid waste management
- Alternate Energy Resources • Bio-fuel Techniques • Applied Microbiology
- Environment and Health • Occupational Health & Safety • Conservation
- Environmental Plant Pathology • Phytochemistry • Soil and Environment

List Of Faculty

- **Prof. Dr. Arifa Tahir**, Tenured Professor, Chairperson Ph.D. Botany (PU). Area of Specialization: Environmental Microbiology, Climate Change/Conservation, Water Treatment Technologies.
- **Dr. Nadia Ghani**, Tenured Associate Professor, Ph.D. Zoology (PU). Area of Specialization: Environmental Toxicology
- **Dr. Numrah Nisar**, Tenured Associate Professor, Ph.D. Cell and Molecular Biology, (UK). Area of Specialization: Environmental Monitoring, Environmental Biotechnology.
- **Dr. Sofia Nosheen**, Assistant Professor, Ph.D. Environmental Chemistry (UAF). Area of Specialization: Environmental Chemistry, Sustainable, Green Chemistry.

- **Dr. Ammara Fatima**, Tenured Assistant Professor, Ph.D. Plant Nutrition (JLU, Germany).
Area of Specialization: Environmental Biotechnology, Environmental Stress Physiology.
- **Dr. Moneeza Abbas**, (TTS) Assistant Professor Ph.D. Zoology (LCWU). Area of Specialization: Environment and Health, Environmental Pollution and Management
- **Dr. Amina Abrar**, Assistant Professor, Ph.D. Environmental Science (LCWU) (Bronze Medalist LCWU). Area of Specialization: Environmental Monitoring, Environmental Impact Assessment, Environmental Health.
- **Dr. Hina Chaudhry**, Assistant Professor, Ph.D. Environmental Science (LCWU). (Gold Medalist LCWU), Area of Specialization: Environmental Monitoring, Occupational Health, Climate Change, Conservation.
- **Dr. Zaira Ahmad**, Lecturer, (Silver Medalist LCWU), Ph.D. Environmental Science (PU).
Area of Specialization: Conservation Biology, Sustainable Development
- **Ms. Zahra Asghar**, Lecturer, M.Sc. MS. Applied Environmental Science, (LCWU), (Bronze Medalist LCWU), Ph.D. (in progress LCWU). Area of Specialization: Environmental Monitoring, Environment and Health
- **Mrs. Saima Atif**, Lecturer, M.Sc. MS. Applied Environmental Science, (LCWU), Ph.D. (in progress LCWU). Area of Specialization: Environmental Monitoring.
- **Ms. Fakhra Aslam**, Lecturer, M.Sc. (Honors) Environmental Science (PU), MS. Applied Environmental Science, (LCWU), Ph.D. (in progress LCWU). Area of Specialization: Solid Wastes Management, Environmental Monitoring.
- **Ms. Rabia Shehzadi**, Lecturer, M.Sc. MS. Applied Environmental Science, LCWU), Ph.D. (in progress LCWU). Area of Specialization: Waste Water Treatment, Disaster Risk Assessment.

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DEGREE PROGRAM OFFERED

- BS Geography (Regular+ Self Supporting)
(4-years)

OVERVIEW

The Department of Geography has the honor to be one of the oldest departments of Lahore College for Women University, Lahore. Right from the beginning, Geography department has been producing knowledgeable students at intermediate and graduate levels. The Department owes a great deal of gratitude to the eminent teachers and professors like Mrs. Bilquis Qureshi, Dr. Maryam Khan, Ms. Ruqia Rafique, Mrs. Akram, Mrs. Saeeda Karamat Mrs. Sadiqa Nasir and Mrs. Bushra Sharif who contributed towards the progress and betterment of department and worked as the Head of the department respectively. The department launched BS (4-Year) Degree Program in 2011. Presently, Dr. Aysha Hanif (Faisal) is working devotedly as the Incharge of the Department. As a step towards academic development, department aims to start MS program shortly.

Learning Objectives

- To create understanding of Physical and cultural environment
- To develop skills for analytical study of man-environment interaction
- To develop skills in map reading and cartography
- To introduce simple quantitative methods in geography
- To enhance understanding of physical and cultural milieu of Pakistan and its provinces
- To create understanding of GIS and Remote Sensing, among the students
- To enable students to carry out research projects independently, including data collection, data processing and data presentation in a report, thesis, ACP (Active Citizenship Program)
- To enhance communication and presentation skills

Outcomes

Students shall be able to:

- Have understanding of Geography as a subject so that they become professionals and have the capability to adapt to any challenge that may offer within their careers
- Work in environmental based organizations e.g., EPA, that deal with the results of man-environment interaction and methodologies to combat them
- Become efficient map interpreters
- Apply quantitative techniques in geography and be able to draw conclusions
- To understand Pakistan's geographical landscape and economic conditions, and serve in institutions like, Statistical Bureau, Dept. of Demography etc.
- Understand the conceptual framework of spatial and attribute data models, and perform complex analysis and presenting the results using Arc GIS and other advanced software
- Achieve educational standards, precisely writing and presentation skills

Research Activities

The Department of Geography took part in 16th All Pakistan Geographer's Conference and hosted 2nd day of the conference.

Eligibility Criteria For BS

- F.A, FSc, I.Com or Equivalents are eligible to apply for BS Geography with at least 60% Marks
- All other requirements as per university admission policy (please see university eligibility criteria for BS admission).

List of Permanent Faculty

- **Dr. Aysha Hanif**, Incharge Assistant Professor, Ph.D (PU), M.Sc. Geography (PU), M.Phil. (CSAS) P.U, Diploma (GIS) PIMS
- **Dr. Nausheen Mazhar**, Lecturer, Ph.D. Geography (Pu) Fellowship from University of Leeds, U.K M.Sc. (P.U), M.A (Eng. Lit.) P.U, PGD (GIS) PIMS, M.S (GCUL)
- **Dr. Sahar Zia**, Lecturer, Ph. D. Geography (PU), BS Geography (P. U), M.Phil. Geography (P.U)
- **Ms. Rehana Mehar Ali**, Lecturer, BS (Hons) Geography (GCU) M.S Geography (GCUL)
- **Ms. Amna Afzal**, Lecturer, M.Sc. (P. U) M.S Geography (GCUL)

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DEPARTMENT OF MATHEMATICS

DEGREE PROGRAM OFFERED

- BS Mathematics (4 years)
Regular/Self Supporting
- MS Mathematics (2 years)
- Ph.D. Mathematics (3-5 years)

OVERVIEW

Mathematics is a language to delineate every science and technology. The Department of Mathematics is one of the oldest department in the University which covers Mathematics (both Pure and Applied) in different programs. It was established during the pre-partition days. Mrs. Ali Muhammad was head the of department, when the college was shifted to the present building in 1951. Dr. Maria Hussain is presently working as Chairperson of the department.

Mathematics, as a subject in B.Sc., was introduced in 1958. M.Sc. classes were launched in 1996. Currently, department offers 4-years BS program, MS in mathematics and PhD in mathematics.

Graduates of the university are expected to apply their skills to solve multifaceted problems in an ever-changing world and mathematics plays a vital part in cultivating the skills and framework needed to tackle such challenges. It is also one of the best supporting subjects for many other disciplines. Graduates from the department take up positions in diverse fields like business, industry, planning and environmental organizations etc. If you are a potential undergraduate student, we invite you to join us in exploring the exciting opportunities.

Learning Objectives

- It is desired to produce a pool of students equipped with the tools and strategies necessary to provide solutions to the mathematical problems. The graduates must be capable of contributing to industrial, managerial and educational fields through their innovative approach.
- Students will be capable of problems identification and finding their optimal solution.
- To develop a cultural of innovative research

Outcomes

- Qualified graduates can serve the nation as teachers, researchers, bankers as well as entrepreneurs.
- The graduates can contribute as full time researchers in different research

Eligibility Criteria For BS

- First division in intermediate or equivalent exams. At least 60% marks in elective Mathematics of 200 marks.

Duration: 4 years

Total Credit Hour: 135 CH

Eligibility Criteria For MS

- For Ms, 16 years of education (BS /M.Sc. in Mathematics) with a minimum CGPA 2.5 or (50% marks in annual system)
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by University is mandatory for admission.
- All other requirements as per University policy (Please see University criteria for MS)

Duration: 2 Years

Total Credit Hours: 36 CH

Eligibility Criteria For Ph.D.

- For PhD: 18 years of education (M.Phil/MS in Mathematics) with minimum CGPA 3.0 or (60% marks in annual system)
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and interview organized by University is mandatory for admission to Ph.D program.
- All other requirements as per University policy (Please see University admission eligibility criteria for Ph.D)
- Admission in Ph.D program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Duration: 3-5 years

Total Credit Hours: 18 CH

List of Permanent Faculty

- **Dr. Maria Hussain**, Chairperson/Associate Prof, Ph.D. Computer Aided Geometric Design
- **Dr. Uzma Bashir**, Assistant Prof, Ph.D, Computer Aided Geometric Design
- **Dr. Mrs. Shazia Javed**, Assistant Prof, Ph.D, Digital Signal Processing, Optimization Theory
- **Ms. Shamsa Ishaq**, Assistant Prof, M.Phil
- **Dr. Tahira Sumbal Shaikh**, Assistant Prof, Ph.D, Computer Aided Geometric Design
- **Dr. Salma Kanwal**, Assistant Prof, Ph.D, Graph Theory
- **Dr. Saima Nazeer**, Assistant Prof, Ph.D, Graph Theory
- **Dr. Sehrish Iftikhar**, Assistant Prof, Ph.D, General Relativity & Cosmology
- **Dr. Kanwal Nazir**, Assistant Prof, Ph.D, Modified Theories, Cosmology

- **Dr. Tayba Arooj**, Assistant Prof, Ph.D, Fractal Theory
- **Dr. Sara Shafiq**, Assistant Prof, Ph.D, Semiring Theory
- **Dr. Rehana Ashraf**, Assistant Prof. ,Ph.D. Algebraic Topology
- **Dr. Rabia Safdar**, Assistant Prof (TTS), Fluid Dynamics
- **Dr. Naila Sajid**, Lecturer , Ph.D.,PDEs
- **Dr. Sidra Saleem**, Lecturer, Ph.D, PDEs
- **Mrs. Sana Zahra**, Lecturer, M.Phil
- **Ms. Atifa Asghar**, Lecturer
- **Ms. Asma Rafique**, Lecturer
- **Ms. Neelam Bashir**, Lecturer
- **Ms. Hina Ali**, Lecturer

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DEPARTMENT OF PHYSICS

DEGREE PROGRAM OFFERED

- BS Physics Morning(4 years)
- BS Physics Self Supporting Program (4 years)
- MS Physics (2 years)
- Ph.D. Physics (3-5 years)

OVERVIEW

Physics is an existing intellectual adventure that inspires young people and expands the frontiers of our knowledge about nature. It generates fundamental knowledge needed for the future technological advances that will continue to drive the economic engines of the world. It contributes to the technological infrastructure and provides trained personnel needed to take advantage of scientific advances and discoveries. Physics is an important element in the education of chemists, engineers and computers scientists, as well as practitioners of the other physical and biomedical sciences. Physics extends and enhances our understanding of other disciplines, such as the earth, agricultural, chemical, biological, environmental science, astrophysics and cosmology subjects of substantial importance to all peoples of the world. It also improves our quality of life by providing the basic understanding necessary for developing new instrumentation and techniques for medical applications, such as CT scan, magnetic resonance imaging, positron emission tomography, ultrasonic imaging and laser surgery, nano medicine and drug delivery system.

The department of Physics was established in 1951. Mrs. Hajra Khan was the first head while Mrs Munawar Mansoor, Miss Naeema Mohsin, Mrs. Qaisra Shiraz Khan, Prof. Mrs. Yasmeen Ali and Prof. Dr. Rehana Zia were the other former heads of Physics department. Presently Prof. Dr. Zohra Nazir Kayani is the head of Physics department. B.Sc classes were started in 1958 and later B.Sc (Hons) classes were conducted in the 1960's. M.Sc program was started in 1966. Ph.D program has been successfully launched in 2003. Currently department enroll students for 4 year BS (Physics) program, 2 year MS (Physics) and Ph.D. program.

Learning Objectives

- To provide sound basic education in Physics for students planning career in science, engineering and other disciplines.
- To encourage students to participate in research projects appropriate to their academic abilities and experience.
- To prepare and train students for advanced studies and specialization in recently emerging technologies
- To encourage creativity analytical thinking, critical analysis and innovative problem solving skills.
- To develop scientific attitude and demonstrate professional skills in teaching and research.
- To provide opportunity for considerable personal development.

Outcomes

- Students have the ability to do small independent project and work independently with multi-disciplinary team.
- Students with advanced capabilities in leadership and management can provide significant intellectual contributions in the fields of Physics.
- Students can use the techniques, skills and modern scientific tools necessary for professional practice.
- Students can apply knowledge of Physics and other specialties in everyday of life.
- Students can conduct empirical research and think analytically

BS PROGRAM (4-Year Degree Program)

Eligibility Criteria:

- Students who have passed Intermediate (**Pre Medical**) are not eligible for BS-Physics.
- Students who have passed Inter (Pre Engineering/ ICS(Maths,Physics) with more than 60% marks are eligible.
- A-Level and equivalent with good grades and pre-engineering subjects.
- All other requirements as per university policy (please see university admission criteria for BS).

Duration: 4 Years,

Total Credit hours: 136 CH

MS PROGRAM

Eligibility Criteria

- Minimum 16 years of education BS/MSc Degree in Physics or equivalent
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and interview organized by University is mandatory for admission.
- All other requirements as per University policy (Please see University criteria for MS)

Duration: 2 Years

Total Credit Hours: 36 CH

Ph. D PROGRAM

Eligibility Criteria

- Minimum 18 years of education M.Phil/ MS in Physics or equivalent is required in the relevant field.
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and interview organized by University is mandatory for admission to Ph.D program.
- All other requirements as per University policy (Please see University admission eligibility criteria for Ph.D)
- Admission in Ph.D program will be carried out twice a year, in spring and in autumn depending on the availability of seats.

Duration: 3-5 years

Total Credit Hours: 18 CH

Specialization Offered:

- Theoretical Plasma Physics • Semiconductor Physics • Material Science • Advance Ceramics
- Magnetic Materials • Advance Thin Films • Nano-materials • Biomaterials
- Fuel Cell Technology

List Of Faculty

- **Prof. Dr. Zohra Nazir Kayani**, Chairperson Professor, M.Sc., Ph.D. (PU)
- **Prof. Dr. Safia Iftikhar**, Professor, M.Sc. (LCWU), M.Phil (QAU), Ph.D. (UET)
- **Dr. Alliya Qamar**, Assistant Prof, M.Sc, M.Phil (PU), Ph. D (LCWU)
- **Dr. Aneeqa Sabah (TTS)**, Assistant Prof, M.Sc, M.Phil (PU), Ph. D (Thiland)
- **Dr. Madiha Riaz**, Assistant Prof(Adoc) MS, Ph.D.(LCWU)
- **Dr. Zeba Israr (TTS)**, Assistant Prof, Msc, M.Phil, Ph.D(GCU)
- **Dr. Salma Waseem**, Assistant Prof(Adoc), Msc,M.Phil(PU), Ph.D(LCWU)
- **Dr. Shafaq Arif**, Assistant Prof, Msc(GCU), M.Phil(UET), Ph.D(LCWU)
- **Dr. Talat Saeed**, Assistant Prof(Adoc), Msc(GCU), M.Phil(UET), Ph.D(LCWU)
- **Dr. Afshan Rashid**, Lecturer, Msc(PU), Ms(LCWU)
- **Mrs. Hina Irfan**, Lecturer(on study leave), Msc(PU), Ms(LCWU)
- **Dr. Saima Khalid**, Lecturer, Msc(GCU),M.Phil(UET) Ph.D.(LCWU)
- **Mrs. Rabia Khurram**, Lecturer, Msc(PU), Ms(LCWU)
- **Ms. Saba Tehniat**, Lecturer
- **Dr. Farah Anjum**, Teaching Assistant

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DEGREE PROGRAM OFFERED

- BS Zoology (Regular)
- BS Zoology (self-supporting)
- MS Zoology (Regular)
- MS Zoology (self-supporting)
- Ph.D. Zoology (Regular)

OVERVIEW

Zoology department was established in 1956. Prof. Dr. Farkhanda Manzoor is the present head of the Department. Currently Zoology department enrolls students for 4 years Bachelors degree (BS Zoology) and 2 years MS degree (MS Zoology) and Doctoral degree programs (Ph.D Zoology). A number of original research papers from the faculty and students have been published in refereed journals. Research projects from HEC and other funding agencies have been won by the faculty members and are successfully accomplishing. A biannual journal entitled 'Journal of Innovative Sciences' is also published under the Society for Promotion of Science and Technology, Zoology Department, LCWU. The Journal has been awarded 'Y' category' by Higher Education Commission of Pakistan. Department of Zoology, LCWU is the first women university winning HEC funded TDF grant in Aquaculture. Well established Animal House, Aquaculture Facilities and specialized Labs having modern equipments are key features of the Department. The Department has been successfully organizing "International Conferences on New Trends in Natural Sciences" for the last three years.

LEARNING OBJECTIVES

- To impart knowledge about animal sciences through wide range of subjects related to natural sciences.
- To teach different methods of exploration, investigation, organization of data and its utilization in practical life with reference to animal biology.
- To prepare and train students for advanced studies and specialization in recently emerging technological and interdisciplinary fields such as Biodiversity, Wildlife and Conservation, Molecular Biology, Entomology, Parasitology, Aquaculture, Genetics, Physiology and Endocrinology.

OUTCOMES

After the completion of the degrees students will be able to have:

- Skill in asking relevant critical questions regarding animals and their ecological associations as well as finding, comprehending and summarizing relevant information on zoological topics.
- Prepare successfully to compete in job placement.
- Understand broadly how to use various instrumental techniques effectively and will be capable enough to provide mediatory steps for the specific areas of concerns.

BS PROGRAM

Eligibility Criteria:

- F.Sc. with Pre-medical with more than 60% marks
- A-Level and equivalent with good grades and pre-medical subjects.
- All other requirement as per university policy (please see university admission criteria for BS)

Duration: 4 years

Total credit hours: 136 CH

MS PROGRAM

Eligibility Criteria for MS

- 16 years of education having BS/M.Sc. degree in Zoology / Equivalent as per HEC criteria.
- The candidates must have obtained 2.5/4.00 CGPA in semester or 50% marks in annual system.
- Entry test (50% qualifying marks) and qualifying interview organized by University is mandatory for admission.
- All other requirements as per University policy (please see university admission criteria for MS)

Duration: 2 years

Total credit hours: 36 CH

Specializations Offered

- Entomology and Vector Biology • Environmental Biology • Fisheries & Aquaculture
 - Molecular Biology, Microbiology and Genetics • Pathophysiology and Parasitology
 - Physiology and Endocrinology • Immunology and Toxicology
- * Specialization will be offered according to specialization requested by the student and availability of the faculty.

Ph.D PROGRAM

Eligibility Criteria

- 18 years of education. MS/M.Phil in Zoology/ Equivalent
- The candidates must have obtained 3.00/4.00 CGPA in semester or first division in annual system.
- Entry test (70% qualifying marks) and qualifying interview organized by University is mandatory for admission to Ph.D. program.
- Candidates working in Government/ semi-government institutions must have to submit NOC from concerned organization.
- All other requirement as per University policy (please see university admission criteria for Ph.D).
- Admission in Ph.D. program will be carried out twice a year, in spring and in autumn depending on the availability of the seats.

Duration: 3-5 years

Total credit hours: 18CH

SPECIALIZATIONS OFFERED

- Entomology & Vector Biology
- Environmental Biology/ Biodiversity
- Fisheries & Aquaculture
- Molecular Biology, Microbiology and Genetics
- Pathophysiology and Parasitology
- Physiology and Endocrinology
- Immunology and Toxicology

* Specialization will be offered according to specialization requested by the student and availability of the faculty.

LIST OF FACULTY

- **Prof. Dr. Farkhanda Manzoor**, Professor (Chairperson of Department) M.Sc., Ph.D. (PU), M. Ed. (Sci. Edu), Postdoc. (USA), PGD in Environmental Law (PU)
- **Prof. Dr. Farzana Rashid**, Professor M.Sc., M.Phil. (PU), Ph.D. (BUCT, China), M. Ed. (Sci. Edu.)
- **Dr. Saima Sharif**, Associate Professor (TTS), M.Sc., Ph.D. (PU)
- **Dr. Asma Abdul Latif**, Associate Professor (TTS), M.Sc., Ph.D. (PU), B.Ed. (PU)
- **Dr. Shaqufta Naz**, Associate Professor (TTS), M.Sc., M.Phil., Ph.D. (PU) B.Ed. (AIU)
- **Dr. Ghazala Jabeen**, Associate Professor (TTS), M.Sc., Ph.D. (UAF), B.Ed. (AIU)
- **Dr. Shafaq Fatima**, Associate Professor (TTS), M.Sc.(UAF), M.Phil(GCU), Ph.D(Australia), M.Ed.
- **Dr. Sumera Sajjad**, Associate Professor (TTS), M.Sc., M.Phil., Ph.D. (QAU)
- **Dr. Fakhar-Un-Nisa**, Assistant Professor (TTS), M.Sc., Ph.D. (PU), Postdoc. (China), (On Postdoc study leave)

- **Dr. Zakia Kanwal**, Assistant Professor (TTS), M.Sc. (UAF), Ph.D. (Netherlands)
- **Dr. Najiya al-Arifa**, Assistant Professor (Adhoc), MPhil., Ph.D. (GCU)
- **Dr. Saffora Riaz**, Assistant Professor (Adhoc), MS, Ph.D. (LCWU)
- **Dr. Mateen Arshad**, Assistant Professor (Adhoc), MS, Ph.D. (LCWU), B.Ed.(AIOU)
- **Dr. Mahnoor Pervez**, Assistant Professor (Adhoc), MS, Ph.D. (LCWU)
- **Ms. Ayesha Tahir**, Lecturer, MS, (LCWU)

Technical Staff

- **Mr. Babar Amjad Khan**, Computer Lan Technician
- **Mr. Naveed Ahmad**, Lecturer Assistant
- **Mr. Taswar Hussain**, Lecturer Assistant
- **Mr. Tariq Akhlaq**, Lecturer Assistant
- **Iram Waqar**, Lecturer Assistant
- **Mr. Ramzan**, Junior Clerk

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