

GRAND ASIAN UNIVERSITY, SIALKOT

A Chartered University







MESSAGE FROM THE CHAIRMAN



It is with immense pride and great pleasure that I welcome you to the Grand Asian University Sialkot (GAUS). The remarkable journey of the Islam Group, rooted in a steadfast commitment to quality education, has led to the creation of *Islam Education City*—a hub of intellectual excellence. Over the years, a number of prestigious institutions have been established, including *Islam Medical & Dental College, Islam College of Pharmacy, Grand College of Pharmacy, Islam College of Physiotherapy, Islam College of Nursing, Islam Law College*, and *Islam College of Management & Sciences*. These institutions have proved the beacon to lay down the foundation of academic distinction, shaping professionals who contribute significantly to society.

This beacon then nurtured our vision to establish the *Grand Asian University Sialkot (GAUS)*, a great land mark to achieve excellence to render higher education and serve humanity. As a premier institution, GAUS is not merely

an academic institution, but a vibrant ecosystem where knowledge meets innovation, and tradition is harmonized with futuristic thinking. Our mission is to cultivate not just academic achievers, but global leaders who possess the critical thinking, creativity, and ethical grounding required to navigate an ever-evolving world.

At GAUS, we believe that education is not just about acquiring knowledge but about developing the whole individual. Our curricula have been designed to foster intellectual curiosity, leadership, and innovation, ensuring that students are equipped with the skills to excel in a dynamic global landscape. From cutting-edge research opportunities to transformative learning experiences, we provide an environment that encourages students to challenge the status quo, think beyond conventional boundaries, and aspire to greatness.

By holding an unwavering ambition, we at GAUS empower our students to stand shoulder to shoulder with the brightest minds in the world. Our graduates will not only be able to hold their presence in the international arena but will also set new standards of excellence.

With state-of-the-art facilities, an inspiring faculty, and a forward-thinking approach, GAUS stands at the forefront of higher education in the region. We are dedicated to provide a transformative educational experience that not only fosters intellectual excellence but also shapes character and purpose.

I invite you to embark on this extraordinary journey with us. At GAUS, we are committed to help you shape your future with boldness, vision and determination. Together, let us craft a future where your success knows no bounds. Your aspirations, combined with our expertise, will create a legacy of excellence.

Muhammad Islam Chairman Board of Governors Grand Asian University, Sialkot

MESSAGE FROM THE VICE CHANCELLOR

It is with immense pleasure that I extend my warmest welcome to you all at Grand Asian University Sialkot (GAUS). Our university stands as a beacon of higher education, dedicated to fostering an environment where learning, discovery, and innovation converge to shape the leaders of tomorrow.

At GAUS, we believe that a university is not just a place to earn a degree, but a dynamic platform for personal and professional growth. Our commitment is to provide an enriching academic experience that prepares our students to meet the challenges of an increasingly interconnected and complex world. With a strong emphasis on interdisciplinary learning, global perspectives, and research-driven innovation, GAUS empowers students to develop not only their knowledge but also the critical skills necessary to succeed in today's rapidly evolving job markets.



We are deeply proud of our diverse and distinguished faculty who are passionate about nurturing talent and guiding students to realize their full potential. Their dedication to research and academic excellence ensures that GAUS remains at the cutting edge of education in Pakistan and beyond. Our modern facilities, vibrant campus life, and wide array of programs create a stimulating environment where ideas flourish and futures are shaped.

As Vice Chancellor, I am committed to furthering our vision of becoming a globally recognized institution that not only will impart knowledge but also cultivate integrity, leadership, and social responsibility. Together, we will continue to pursue academic excellence and innovation, ensuring that GAUS remains a trailblazer in higher education.

I look forward to seeing each of you achieve your dreams and contribute positively to society. Let us embark on this remarkable journey together.

Prof. Dr. Syed Mujahid Kamran

Vice Chancellor, Grand Asian University, Sialkot Sitara-e-Imtiaz Pride of Performance Abdus Salam Prize

MESSAGE FROM SENIOR DIRECTOR



Welcome to Grand Asian University, Sialkot! It is with great pride and enthusiasm that I extend my warm greetings to all students of our esteemed institution. As we continue to build on the legacy of excellence, I am honored to be part of an academic community that is dedicated to shaping the leaders of tomorrow. At Grand Asian University, our mission is to provide an inclusive, stimulating, and dynamic learning environment that nurtures creativity, critical thinking, and innovation. We aim to equip our students with not only academic knowledge but also the practical skills needed to succeed in an ever-changing global landscape. Our commitment to fostering holistic development empowers students to excel not only in their chosen fields but also as responsible citizens of the world. Our highly qualified faculty, modern infrastructure, and diverse academic programs are designed

to meet the evolving needs of the job market. We are committed to continuous research, innovation, and knowledge sharing, ensuring that our students are prepared to make a meaningful impact in their careers and communities. As an institution, we strive to create an environment where academic excellence, ethical values, and social responsibility come together. The success of our students is our highest priority, and we are deeply committed to supporting each individual in achieving their goals. Thank you for being a part of the Grand Asian University family. I am confident that together, we will continue to inspire, innovate, and lead with integrity. I look forward to witnessing your achievements and success.

Dr. Tanveer IslamSenior Director
Grand Asian University, Sialkot

ACCREDITATIONS







National Technology Council





INTERNATIONAL COLLABORATOR



MOUs













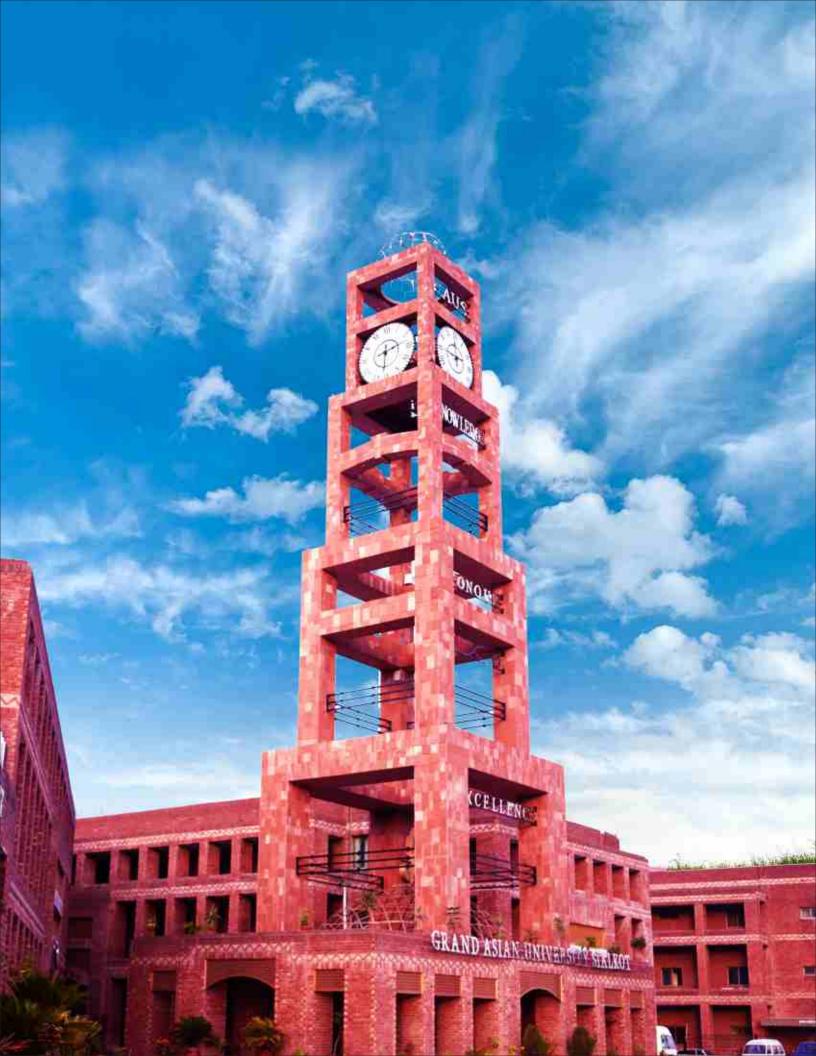


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ABOUT THE UNIVERSITY

History and Overview

The Islam Group has a **distinguished heritage in education**, with over a decade of dedicated service to **nurturing young minds and advancing academic standards**. Through this unwavering commitment, the group has established itself as a pioneer in the education sector. In 2021, this commitment reached a new pinnacle with the launch of Grand Asian University Sialkot (GAUS). The university, a fully chartered institution under the Act of 2021 by the Government of Punjab, Lahore, is duly **recognized by the Higher Education Commission** (**HEC**) Islamabad. GAUS stands as a beacon of modern education, rooted in tradition yet embracing the innovations necessary for future success, and has quickly become a leading institution in the Sialkot region.

Strategically located on Pasrur Road, Sialkot, GAUS spans an impressive 10-acre campus with a developed **area of 324,517 sq. ft**. The campus is a testament to modern architecture and cutting-edge infrastructure, designed to foster a vibrant academic environment. Students benefit from access to advanced laboratories equipped with the latest technology, a modern digital library that offers vast academic resources, and an array of facilities tailored to enhance the overall learning experience. GAUS, as a multidisciplinary institution, offers a broad spectrum of career-oriented, cutting-edge programs across both undergraduate and postgraduate levels. These programs span diverse disciplines, ensuring that students are equipped with the knowledge and skills necessary to excel in today's fast-evolving global landscape.

Currently, GAUS is home to more than **3,500 students**, a testament to its rapid growth and strong reputation. The university is proud to have over **250 dedicated faculty members**, including a significant number of **PhD-qualified professors** who contribute to both teaching and research. These faculty members are one of the institution's greatest assets, driving forward a culture of academic excellence and innovation. The university continuously strives to strengthen its academic and research programs by adopting unique, progressive, and innovative practices. Through these efforts, GAUS remains at the forefront of **educational innovation**, **consistently redefining and raising** the standards of academic excellence.

VISION

Be a regional leader in producing the intellectual human resource in contemporary disciplines and to positively contribute in the educational and economic development of local and global communities to meet multidirectional challenges

MISSION

To create a transformative educational environment to foster the cutting-edge knowledge, innovation and nurturing integrity in students by engaging specialized resources and aligning activities to achieve Sustainable Development Goals (SDGs)



MOTTO

A motto is a short expression or combination of motivating words that describes a guiding principle of an organization. Mottos help institutions express what's important to them and how they want to do business. In branding, mottos are used as front-facing elements that capture and communicate a company's values. The following Motto has been given by the Chairman BOG for adoption at Grand Asian University Sialkot:



CORE VALUES

Core values are the guiding principles because they form a solid core of who we are, what we believe, and want to be going forward. The following Core Values have been proposed for adoption at Grand Asian University Sialkot: We value:

GAUS: An Arabic word means promoter of justice

Innovation: Promoting research culture and creative thinking
Integrity: Promoting self, institutional and national integrity
Diversity: Promoting multi-cultural norms to strengthen society
Talent: Promoting professional teaching and academic staff

Teamwork: Promoting harmony and cooperative culture

Loyalty: Promoting long term organizational relationship

Respect: Promoting dignity and love for others

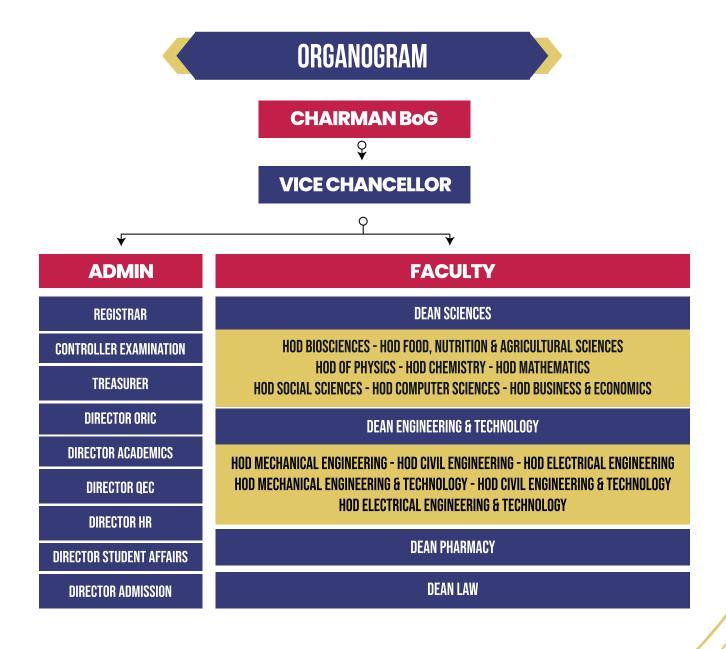
Honesty: Promoting morality in employees and students

Competency: Valuing competent human resource

UNIVERSITY GOVERNANCE

The good governance of any academic institution depends on the formal constitution and working of the authorities. In accordance with the Section 17, of GAUS Act, 2021, following organogram shows the Authorities of the University.

Moreover, the GAUS governance relies upon the Statutes, Regulations, Policies and SOPs are properly prepared and followed/ implemented in true letter and spirit. One of the important aspect of this governance is the provision of Vision & Mission to lead all the stakeholders to the right direction and ultimate growth of the institute.







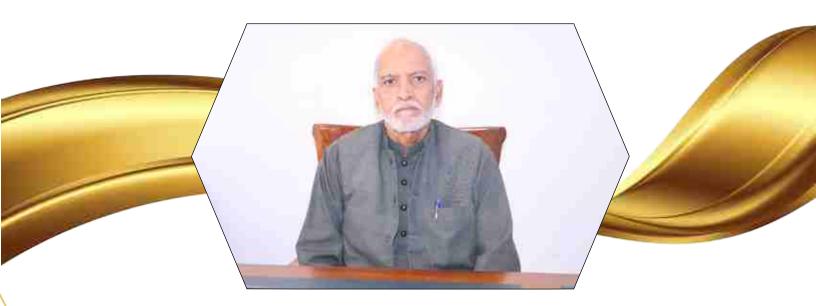
ACADEMICS Faculties & Departments

Message From The Dean

I welcome all the new students who have taken admission in the Faculty of Sciences, Grand Asian University Sialkot. The Faculty of Sciences was established in 2023 after accreditation by HEC. Faculty of Sciences comprised of 8 Departments as Biosciences, Food Nutrition and Agricultural Sciences, Physics, Mathematics, Chemistry, Social Sciences, Computer Science, Software Engineering and IT, Management Science and Economics

Faculty of Sciences comprised of highly trained and experienced academia and well equipped laboratories. Along with its own, this faculty is catering to fulfill demand of other faculties in undergraduate and post-graduate teaching. Faculty is involved in active research collaborations within and among other faculties and with other National and International institutions. Faculty of Sciences currently is offering different degree programs entitled as ADP, BS, MS/MPhil and PhD.

The Dean Office monitors, assesses, investigates, and responds to new and evolving needs of individual students or student groups. In partnership with other directorates in the University and with the community at large, the office facilitates coordinated responses to immediate situations and develops proactive initiatives to prepare for future needs of the diverse student population. Our aim has always been to produce men and women of integrity, who should dedicate their capabilities for understanding and solving the National problems in general and the people residing in different areas of Punjab.



Professor Dr. Muhammad Gulfraz PhD, Post Doc



Mission

The Faculty of Sciences is striving hard to provide state-of-the-art infrastructure and an interdisciplinary research environment premised through civil, public, and industrial collaboration embed with commitment, dedication and devotion among the prospective graduates to develop the profession acumen and responsibility to nurture entrepreneurship and further contribution in economic and social stability at regional and national levels in our country.

Department of Biosciences

Introduction

Bioscience is among the pioneer departments established in this faculty. This is one of the major departments plays a crucial role to educate in various fields, including biotechnology, biochemistry, zoology, botany, pharmacology, medical lab and imaging technologies. Comprising of highly educated academic faculty, this department is putting all its efforts out to impart quality education, create future leaders with integrity, enlighten with social norms and capable of devising knowledge based economy to contribute to the economic uplift of this region and country.

Objectives

The core objectives of this department are to:

- produce outstanding students with diverse academic and cultural background in various disciplines of sciences capable to compete at national and international level.
- improve quality of education on regular basis through impeccable curriculum development.
- improve well-being of human population by producing innovative research products to uplift living standards of community
- focus and build up the students personality along with their professional development for their successful career.

Programs Being Offered

ADP Medical Lab Technology

ADP Imaging Technology

ADP Zoology

BS Zoology

BS Biochemistry

BS Biotechnology

BS Microbiology

BS Botany

MS Biochemistry

MS Biotechnology

MS Pharmacology

Message From HOD



It is with great pride and enthusiasm that I extend a warm welcome to all students and prospective scholars of the Department of Biosciences at Grand Asian University, Sialkot. Our department is dedicated to providing a high standard of education and fostering innovative research in the rapidly evolving field of biosciences. With a focus on academic excellence and a strong commitment to advancing scientific knowledge, we aim to equip our students with the tools necessary to contribute meaningfully to the world of science and healthcare.

The Department of Biosciences is renowned for its outstanding academic programs, which include undergraduate, graduate, and postgraduate degrees in fields such as Medical Laboratory and Imaging Technologies, Molecular Biology, Biotechnology, Microbiology, Biochemistry and Pharmacology. Our rigorous curriculum is designed to build a solid foundation in both

theoretical concepts and practical laboratory skills. Our team of experienced and highly qualified faculty members guides students not only through their course work but also in research projects that explore cutting-edge topics such as genetic engineering, microbial technology, and environmental sustainability.

Research and development form the backbone of our department, and we continuously strive to expand our research capacity and contribute to global scientific advancements. Our students have access to state-of-the-art laboratories and facilities, enabling them to engage in hands-on learning and practical applications.

As the Head of the Department, leading and proud to shape the shape the future of biosciences, contributing to scientific progress, and addressing the pressing challenges of our time. I look forward to seeing all of you achieve greatness in this exciting and dynamic field. We are here to get you all the current and new students to embark after getting admission in the fields mentioned above and march together to achieve the excellence in education and thereby to become the most functional graduates in society at large.

Prof. Dr. Sajid MahmoodProject Director, GAUS
PhD Biochemistry



ADP Medical Lab Technology

Teaching Faculty
Ms. Komal Shoukat (Lecturer)
Ms. Hamna Waris (Lab demonstrator)

Program Summary

Admission Fall & Spring
Duration 2 Years

Total Semesters 4
Total Credit Hours 66

Career Prospects

- ·Clinical biochemists
- ·Establishment of clinical laboratories
- ·Academia, biotechnologists, molecular biologists.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE -501	Quantitative Reasoning I	3(3-0)
ISL-501	Islamic Studies	2(2,0)
BIO-501	Fundamentals of Biology	2(2-0)
BIO-501-P	Fundamentals of Biology Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
ENT-501	Entrepreneurship	2(2-0)
CCE-501	Civics and Community Engagement	2(2-0)
MLT-501	Human Anatomy -I	2(2-0)
MLT-501-P	Human Anatomy -I Lab	1(0-1)
MLT-502	General Microbiology	2(2-0)
MLT-502-P	General Microbiology Lab	1(0-1)
MLT-503	Clinical Hematology	2(2-0)
MLT-503-P	Clinical Hematology Lab	1(0-1)
MLT-504	Introductory Pharmacology	2(2-0)
MLT-504-P	Introductory Pharmacology Lab	1(0-1)
MLT-505-P	Basic Lab Principles, Lab Safety and First Aid Lab-I	1(0-1)
MLT-506	Blood Banking	1(1-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	English II (Expository Writing)	3(3-0)
QRE-502	Quantitative Reasoning II	2(2-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
1CT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
BCH-501	Introductory Biochemistry	2(2-0)
BCH-501-P	Introductory Biochemistry Lab	1(0-1)
MLT -501	Human Physiology	3(3-0)

Course Code	Course Title	Credit Hour
MLT -507	Medical laboratory instrumentation and analytical	2(2-0)
	techniques	
MLT -507 -P	Medical laboratory instrumentation and analytical	1(0-1)
	techniques Lab	
MLT -508	Histopathology and Histotechnology -I	2(2-0)
MLT -508 -P	Histopathology and Histotechnology -I Lab	1(0-1)
BCH -606	Molecular Biology	2(2-0)
BCH -606 -P	Molecular Biology Lab	1(0-1)
BCH -614	Clinical Biochemistry	2(2-0)
BCH -614 -P	Clinical Biochemistry Lab	1(0-1)
MLT -509	Chemical Pathology -I	2(2-0)
MLT -509 -P	Chemical Pathology -I Lab	1(0-1)
MLT -698	Clinical Lab Practice -I/Internship	3(3-0)
THQ -501	Teaching of Holy Quran	Non Credit
	Total Credit Hours	68

ADP Imaging Technology

Teaching Faculty Prof. Dr. Sajid Mehmood (Professor & HOD) Ms. Hamna Waris(Lab demonstrator)

Program summary Admission Fall & Spring 2 Years Duration

Total Semesters Total Credit Hours 66

Career Prospects

- ·Establishment of ultra sound and other radio-graphical facilities
- ·Academia and technical expertise in various hospitals and poly clinics

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning I	3(3-0)
ISL-501	Islamic Studies	2(2,0)
BIO-501	Fundamentals of Biology	2(2-0)
BIO-501-P	Fundamentals of Biology Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
ENT-501	Entrepreneurship	2(2-0)
CCE-501	Civics and Community Engagement	2(2-0)
MLT-501	Human Anatomy -I	2(2-0)
MLT-501-P	Human Anatomy -I Lab	1(0-1)
IMT-503	Magnetic Resonanace Imaging (MRI)	2(2-0)
IMT-503-P	Magnetic Resonanace Imaging (MRI) - Lab	1(0-1)
IMT-504	Embryology	2(2-0)
IMT-504-P	Embryology Lab	1(0-1)
IMT-505	Introductory Pharmacology	2(2-0)
IMT-505-P	Introductory Pharmacology Lab	1(0-1)
MLT-506	Basic Lab Principles, Lab Safety and First Aid Lab-I	1(0-1)
IMT-507	Blood Banking	1(1-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	English II (Expository Writing)	3(3-0)
QRE-502	Quantitative Reasoning II	2(2-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
1CT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
IMT-501	Introductory Biochemistry	2(2-0)
IMT-501-P	Introductory Biochemistry Lab	1(0-1)
IMT-502	Human Physiology	3(3-0)

Course Code	Course Title	Credit Hour
IMT-508	General Radiology	2(2-0)
IMT-508-P	General Radiology Lab	1(0-1)
IMT-509	Radiation Sciences and Technology	3(3-0)
IMT-510	Medical Imaging Physics and Instrumentation	2(2-0)
IMT-510-P	Medical Imaging Physics and Instrumentation Lab	1(0-1)
IMT-511	Abdominal & Gynecological Ultrasound	2(2-0)
IMT-511-P	Abdominal & Gynecological Ultrasound Lab	1(0-1)
IMT-512	Computed Tomography and Clinical Practice	2(2-0)
IMT-512-P	Computed Tomography and Clinical Practice Lab	1(0-1)
IMT-698	Clinical Lab Practice-I/Internship-I	3(3-0)
THQ-501	Teaching of Holy Quran	Non Credit
	Total Credit Hours	68

BS Biochemistry

Teaching Faculty

Prof. Dr .Muhammad Gulfraz (Professor & Dean)

Prof. Dr. Sajid Mehmood (Professor & HOD)

Prof. Dr. Syed Muhammad Nurulain (Professor)

Dr. Nimrah Khalid (Assistant Professor)

Program summary

Admission Fall & Spring Duration 4 Years

Total Semesters 8 Total Credit Hours 135

Career Prospects

Biochemistry offers diverse career paths in healthcare, research, industry, and education:

- Clinical biochemists, pharmaceutical researchers, forensic scientists, and genetic counselors.
- Academia, biotechnologists, molecular biologists.
- Agricultural biochemists, environmental biochemists, and toxicologists.
- Biochemical engineers and quality control analysts.
- Regulatory affairs specialists and public health officers.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-502	Introduction to History	2(2-0)
BCH-501	Introductory Biochemistry	2(2-0)
BCH-501-P	Introductory Biochemistry Lab	1(0-1)
PSY-500	Introduction to Psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
CHEM-501	Inorganic Chemistry	2(2-0)
ECO-501	Fundamentals of Ecology	2(2-0)
ECO-501-P	Fundamentals of Ecology Lab	1(0-1)
ZOO-503	Cell Biology	2(2-0)
ZOO-503-P	Cell Biology Lab	1(0-1)
MIC-501	Microbiology	2(2-0)
MIC-501-P	Microbiology Lab	1(0-1)
BCH-506	Bio-membrane and Cell Signaling	2(2-0)
BCH-506-P	Bio-membrane and Cell Signaling Lab	1(0-1)
CCE-501	Civics and Community Engagement	2(2-0)
CCE-501-P	Civics and Community Engagement Lab	1(0-1)

Semester 2

Course Code	Course Title	Credit Hou r
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative Reasoning II	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-01	Applications of Information and Communication Technologies	2(2-0)
ICT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
BCH-502	Carbohydrates & Lipids	2(2-0)
BCH-502-P	Carbohydrates & Lipids Lab	1(0-1)
BCH-503	Amino acids & Proteins	2(2-0)
BCH-503-P	Amino acids & Proteins Lab	1(0-1)
THQ-501	Teaching of Holy Quran	Non Credit

Course Code	Course Title	Credit Hour
ENT -501	Entrepreneurship	2(2-0)
CHEM -502	Organic Chemistry	2(2-0)
BCH -507	Immunology	2(2-0)
BCH -507 -P	Immunology Lab	1(0-1)
BCH -508	Metabolism 1	2(2-0)
BCH -508 -P	Metabolism 1 Lab	1(0-1)
BCH -509	Enzymology	2(2-0)
BCH -509 -P	Enzymology Lab	1(0-1)
ZOO -506	Fundamentals of Genetics	3(3-0)

Semester 5

Course Code	Course Title	Credit Hour
CHEM -503	Physical Chemistry	2(2-0)
BCH-601	Integrated Metabolism	2(2-0)
BCH-601-P	Integrated Metabolism Lab	1(0-1)
BCH-602	Plant Biochemistry	2(2-0)
BCH-602-P	Plant Biochemistry Lab	1(0-1)
BCH-603	Current trends in Biochemistry	2(2-0)
BCH-603-P	Current trends in Biochemistry Lab	1(0-1)
BCH-604	Biochemical Techniques	2(2-0)
BCH-604-P	Biochemical Techniques Lab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
BCH-610	Introduction to Bioinformatics	3
BIO-601	Biosafety and Bioethics	2(2-0)
BIO-601-P	Biosafety and Bioethics Lab	1(0-1)
BCH-612	Research Planning and Report Writing	2(2-0)
BCH-612-P	Research Planning and Report Writing Lab	1(0-1)
BCH-613	Methods in Molecular Biology	2(2-0)
BCH-613-P	Methods in Molecular Biology Lab	1(0-1)
BCH-618	Molecular Genetics	3(3-0)
BCH-697	Internship/Field Experience	3(3-0)

Semester 6

Course Code	Course Title	Credit Hour
BCH-605	Analytical Chemistry	2(2-0)
BCH-606	Molecular Biology	2(2-0)
BCH-606-P	Molecular Biology Lab	1(0-1)
BCH-607	Bioenergetics	2(2-0)
BCH-607-P	Bioenergetics Lab	1(0-1)
BCH-608	Nutritional Biochemistry	2(2-0)
BCH-608-P	Nutritional Biochemistry Lab	1(0-1)
BCH-609	Cell and Tissue Culture	2(2-0)
BCH-609-P	Cell and Tissue Culture Lab	1(0-1)

Semester 8

Course Code	Course Title	Credit Hour
BCH-614	Clinical Biochemistry	2(2-0)
BCH-614-P	Clinical Biochemistry Lab	1(0-1)
BCH-615	Environmental Biochemistry	2(2-0)
BCH-615-P	Environmental Biochemistry Lab	1(0-1)
BCH-617	Pharmacology	2(2-0)
BCH-617-P	Pharmacology Lab	1(0-1)
BCH-698	Capstone Research Project	6(0-6)
	Total Credit Hours	135

MS Biochemistry

Teaching Faculty
Prof. Dr .Muhammad Gulfraz
(Professor & Dean)
Prof. Dr. Sajid Mehmood (Professor & HOD)
Dr. Nimrah Khalid (Assistant Professor)

Program summary

Admission Fall & Spring
Duration 2 Years
Total Semesters 4

Total Credit Hours 30

Career Prospects

Biochemistry offers diverse career paths in healthcare, research, industry, and education:

- Clinical biochemists, pharmaceutical researchers, forensic scientists, and genetic counselors.
- Academia, biotechnologists, molecular biologists.
- Agricultural biochemists, environmental biochemists, and toxicologists.
- Biochemical engineers and quality control analysts.
- Regulatory affairs specialists and public health officers.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
STAT -701	Biostatistics	3(3-0)
BCH-701	Research Methodology	3(3-0)
BTH-701	Advances in Analytical Techniques	3(3-0)
BCH-702	Advances in Molecular Biology	3(3-0)

Semester 2

Course Code	Course Title	Credit Hour
BTH-704	Fermentation and Bioprocess Technology	3(3-0)
BCH-703	Advances in Biochemistry	3(3-0)
BCH-706	Advances in Clinical Biochemistry	3(3-0)
BCH-709	Special Problems	2(2-0)
BCH-710	Seminar	1(1-0)

Semester 3&4

Course Code	Course Title	Credit Hour
BCH-708	Research and Thesis	6(6-0)
	Total Credit Hours	30

ADP and BS Zoology

Teaching Faculty
Ms. Sadia Asmat (Lecturer
Ms..Maliha Ijaz (Lecturer)

Program summary

Admission Fall & Spring
Duration 2 & 4 Years
Total Semesters 4 & 8
Total Credit Hours 66 & 132

Career Prospects

Zoology offers various career opportunities in fields related to animal science and conservation:

- Studying animal behavior, habitats, and ecosystems.
- Working to protect endangered species and natural environments.
- Caring for animals in zoos and wildlife parks.
- Researching marine species and ocean ecosystems.
- Analyzing animal behavior for research or welfare purposes.
- Studying ecosystems and biodiversity.
- Providing medical care for animals.
- Teaching and conducting research in zoology and advising on wildlife conservation

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2-0)
ZOO-501	Animal Diversity I	2(2-0)
ZOO-501-P	Animal Diversity-Hab	1(0-1)
PSY-501	Introduction to Psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE501	Quantitative Reasoning I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative Reasoning II	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
ZOO-502	Animal Diversity II	2(2-0)
ZOO-502-P	Animal Diversity II Lab	1(0-1)
ZOO-503	Cell Biology	2(2-0)
ZOO-503-P	Cell Biology Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
CHEM-501	Inorganic Chemistry	2(2-0)
CHEM-501-P	Inorganic Chemistry Lab	1(0-1)
ECO-501	Fundamentals of Ecology	2(2-0)
ECO-501-P	Fundamentals of EcologyLab	1(0-1)
BCH-502	Carbohydrates and Lipids	2(2-0)
BCH-502-P	Carbohydrates and LipidsLab	1(0-1)
ZOO-504	Form and Function I	2(2-0)
ZOO-504-P	Form and Function ILab	1(0-1)
MIC-501	Introductory Microbiology	2(2-0)
MIC-501-P	Introductory MicrobiologyLab	1(0-1)
CCE-501	Civics and communityengagement	2(2-0)

Course Code	Course Title	Credit Hour
CHEM-502	Organic Chemistry	2(2-0)
CHEM-502-P	Organic Chemistry Lab	1(0-1)
ZOO-505	Form and Function II	2(2-0)
ZOO-505-P	Form and Function IILab	1(0-1)
BTH-501	Introduction to Biotechnology	2(2-0)
BTH-501-P	Introduction to BiotechnologyLab	1(0-1)
ZOO-506	Genetics	2(2-0)
ZOO-506-P	Genetics Lab	1(0-1)
BCH-606	Molecular Biology	2(2-0)
BCH-606-P	Molecular BiologyLab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
THQ-501	Teaching of Holy Quran	Non Credit
	Total Credit Hours	66

Semester 5

Course Code	Course Title	Credit Hour
CHEM503	Physical Chemistry	2(2-0)
CHEM503-P	Physical Chemist f yab	1(0-1)
ZOO-601	Animal Physiology	2(2-0)
ZOO-601-P	Animal Physiologyab	1(0-1)
ZOO-602	Developmental Biology	2(2-0)
ZOO-602-P	Developmental Biologyb	1(0-1)
ZOO-603	Wildlife	2(2-0)
ZOO-603-P	WildlifeLab	1(0-1)
ZOO-604	Evolution	3(3-0)
BOT-501	Diversity of plants	2(2-0)
BOT-501-P	Diversity of plankab	1(0-1)

Semester 6

Course Code	Course Title	Credit Hour
BOT-505	Plant Physiology	3(3-0)
ZOO-605	Animal Behavior	2(2-0)
ZOO-605-P	Animal Behavior Lab	1(0-1)
ZOO-606	Zoogeography and Paleontology	2(2-0)
ZOO-606-P	Zoogeography and Paleontology Lab	1(0-1)
ZOO-607	Bioinformatics	2(2-0)
ZOO-607-P	Bioinformatics Lab	1(0-1)
ZOO-696	Biological Techniques	2(2-0)
ZOO-696-P	Biological Techniques Lab	1(0-1)
ZOO-609	Immunology	2(2-0)
ZOO-609-P	Immunology Lab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
BIO-601	Biosafety and Bioethics	3(3-0)
ZOO-695	Synopsis and Research Methodology	3(3-0)
ZOO-610	Fisheries	2(2-0)
ZOO-610-P	Fisheries Lab	1(0-1)
ZOO-611	Entomology	2(2-0)
ZOO-611	Entomology Lab	1(0-1)
ZOO-697	Internship/Field Experience	3(0-3)

Semester 8

Course Code	Course Title	Credit Hour
ZOO-612	Economic Zoology	2(2-0)
ZOO-612-P	Economic Zoology Lab	1(0-1)
ZOO-613	Parasitology	2(2-0)
ZOO-613-P	Parasitology Lab	1(0-1)
ZOO-614	Ichthyology	2(2-0)
ZOO-614-P	Ichthyology Lab	1(0-1)
ZOO-698	Capstone Research Project	6(0-6)
	Total Credit Hours	132

BS Biotechnology

Teaching Faculty

Dr. Muhammad Rashid (Assistant Professor)

Dr. Qudsia Firdous (Assistant Professor)

Dr. Waheed Ahmed Chatha

(Assistant Professor)

Mr. Waqas Ahmed (Lecturer)

Program Summary

Admission Fall & Spring
Duration 4 Years

Total Semesters 8 Total Credit Hours 126

Career Prospects

Biotechnology offers a wide range of career opportunities across various sectors:

- Drug development, clinical research, and medical devices.
- Genetic modification, crop improvement, bioengineering of food products and sustainable farming technologies.
- Waste management, bioremediation, and renewable energy (biofuels).
- Production of enzymes, biofuels, and biodegradable materials.
- Genetic data analysis, gene editing, and personalized medicine.
- Ensuring compliance with industry standards in biotech companies.
- Teaching, academic research, biotech innovation and biotech startups.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2-0)
BTH-501	Introduction to Biotechnology	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)
ENG-501	English-I (Functional English)	3(3-0)
QRE-501	QuantitativeReasoning I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative Reasoning II	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
BTH-502	Cell Biology	2(2-0)
BTH-502-P	Cell Biology Lab	1(0-1)
BCH-501	Biochemistry-I	2(2-0)
DCH 501 D	Dioghamistry I I ah	1(0.1)

Semester 3

Course Code	Course Title	Credit Hour
CHEM -501	Inorganic Chemistry	2(2-0)
CHEM -501 -P	Inorganic Chemistry Lab	1(0-1)
ECO-501	Fundamentals of Ecology	2(2-0)
ECO-501 P	Fundamentals of Ecology Lab	1(0-1)
BTH-503	Analytical Techniques & Instrumentation	2(2-0)
BTH-503-P	Analytical Techniques & Instrumentation Lab	1(0-1)
MIC-501	Microbiology	2(2-0)
MIC-501-P	Microbiology Lab	1(0-1)
CCE-501	Civics and Community Engagement	2(2-0)
BCH-502	Biochemistry -II	2(2-0)
BCH-502 P	Biochemistry -II Lab	1(0-1)
THQ-501	Teaching of Holy Quran	Non Credit

Semester 5

Course Code	Course Title	Credit Hour
CHEM-504	Analytical Chemistry	2(2-0)
CHEM-504-P	Analytical Chemistry Lab	1(0-1)
ZOO-609	Immunology	2(2-0)
ZOO-609-P	Immunology Lab	1(0-1)
BTH-615	Genetic Resources and Conservation	3(3-0)
BTH-601	Microbial Biotechnology	2(2-0)
BTH-601-P	Microbial Biotechnology Lab	1(0-1)
BTH-616	Molecular diagnosis	2(2-0)
BTH-616-P	Molecular diagnosis Lab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
BTH-606	Animal Biotechnology	3(3-0)
BTH-607	Cell and Tissue Culture	2(2-0)
BTH-607-P	Cell and Tissue Culture Lab	1(0-1)
BTH-695	Research methodology and Skill Enhancement	2(2-0)
BTH-695-P	Research methodology and Skill Enhancement Lab	1(0-1)
BTH-608	Principles of Biochemical Engineering	3(3-0)
BTH-696	Internship / Field Experience	3(3-0)

Semester 4

Course Code	Course Title	Credit Hour
CHEM-502	Organic Chemistry	2(2-0)
CHEM-502-P	Organic Chemistry Lab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
BCH-606	Molecular Biology	2(2-0)
BCH-606-P	Molecular Biology Lab	1(0-1)
BTH-504	Nano Biotechnology	3(3-0)
BTH-505	Enzymology	2(2-0)
BTH-505-P	Enzymology Lab	1(0-1)
ZOO-506	Genetics	2(2-0)

Semester 6

Course Code	Course Title	Credit Hour
BCH-614	Clinical Biochemistry	2(2-0)
BCH-614-P	Clinical Biochemistry Lab	1(0-1)
BTH-602	Health Biotechnology	3(3-0)
BTH-603	Environmental Biotechnology	3(3-0)
BTH-604	Industrial Biotechnology	3(3-0)
BTH-605	Food Biotechnology	2(2-0)
BTH-605-P	Food Biotechnology Lab	1(0-1)

Semester 8

Course Code	Course Title	Credit Hour
BTH-609	Agricultural Biotechnology	3(3-0)
BCH-618	Genomics and Proteomics	3(3-0)
BTH-610	Biosafety and Bioethics	2(2-0)
BTH-697	Capstone Research Project	3(0-3)
ZOO-607	Bioinformatics	2(2-0)
ZOO-607-P	Bioinformatics Lab	1(0-1)
BTH-611-P	Lab Principles, Lab Safety & First Aid Lab	1(0-1)
	Total Credit Hours	126

MS Biotechnology

Teaching Faculty
Dr. Muhammad Rashid
(Assistant Professor)
Dr. Waheed Ahmed Chatha
(Assistant Professor)

Program Summary

Total Credit Hours

Admission Fall & Spring
Duration 2 Years
Total Semesters 4

30

Career Prospects

Biotechnology offers a wide range of career opportunities across various sectors:

- Drug development, clinical research, and medical devices.
- Genetic modification, crop improvement, bioengineering of food products and sustainable farming technologies.
- Waste management, bioremediation, and renewable energy (biofuels).
- Production of enzymes, biofuels, and biodegradable materials.
- Genetic data analysis, gene editing, and personalized medicine.
- Ensuring compliance with industry standards in biotech companies.
- Teaching, academic research, biotech innovation and biotech startups.

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
STAT-701	Biostatistics	3(3-0)
BCH-701	Research Methodology	3(3-0)
BTH-701	Advances in Analytical Techniques	3(3-0)
BTH-705	Recombinant DNA Technology	3(3-0)

Course Code	Course Title	Credit Hour
BTH-704	Fermentation and Bioprocess Technology	3(3-0)
BTH-702	Modern Biotechnology; Principles and Applications	3(3-0)
BTH-707	Advances in cell and tissue culture	3(3-0)
BTH-709	Special Problems	2(2-0)
BTH-710	Seminar	1(1-0)

Semester 3&4

Course Code	Course Title	Credit Hour
BTH-708	Research and Thesis	6(6-0)
	Total Credit Hours	30

BS Microbiology

Teaching Faculty
Ms. Tayyaba Rashid (Lecturer)
Mr. Asim Mushtaq (Lecturer)
Ms. Tabinda Fatima (Lecturer)

Program Summary

Admission Fall & Spring
Duration 4 Years
Total Semesters 8
Total Credit Hours 126

Career Prospects

Microbiology offers a wide range of career opportunities in various sectors:

- Diagnosing infectious diseases in hospitals and labs.
- Developing antibiotics, vaccines, and other drugs.
- Ensuring food safety and quality by studying microorganisms in food.
- Studying microbes to solve environmental issues like pollution and waste treatment.
- Using microbes in industrial processes like fermentation and biofuel production.
- Developing biotechnological products using microbes.
- Teaching and conducting research in microbiology.
- Working in disease control and prevention.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2-0)
MIC-501	Introductory Microbiology	2(2-0)
MIC-501-P	Introductory Microbiology-Lab	1(0-1)
PSY-501	Introduction to psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative Reasoning II	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
MIC-502	Microbiological Anatomy and Physiology	2(2-0)
MIC-502-P	Microbiological Anatomy and Physiology Lab	1(0-1)
ZOO-503	Cell Biology	2(2-0)
ZOO-503-P	Cell Biology Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
CHEM-501	Inorganic Chemistry	2(2-0)
CHEM-501-P	Inorganic Chemistry Lab	1(0-1)
ECO-101	Fundamentals of Ecology	2(2-0)
ECO-101-P	Fundamentals of Ecology Lab	1(0-1)
MIC-503	Bacterial Genetics	2(2-0)
MIC-503-P	Bacterial Genetics Lab	1(0-1)
BTH-501	Introduction to Biotechnology	2(2-0)
BTH-501-P	Introduction to Biotechnology Lab	1(0-1)
BCH-501	Biochemistry -I	2(2-0)
BCH-501-P	Biochemistry -I Lab	1(0-1)
CCE-501	Civics and Community Engagement	2(2-0)

Semester 4

Course Code	Course Title	Credit Hour
CHEM -502	Organic Chemistry	2(2-0)
CHEM -502 -P	Organic Chemistr Lab	1(0-1)
MIC -504	Microbial Taxonomy	2(2-0)
MIC -504 -P	Microbial Taxonomy Lab	1(0-1)
MIC -505	Molecular Biology	2(2-0)
MIC -505 -P	Molecular Biology Lab	1(0-1)
MIC -506	Microbiology Enzymology	2(2-0)
MIC -506 -P	Microbiology Enzymology Lab	1(0-1)
BCH -502	Biochemistry -II	2(2-0)
BCH -502 -P	Biochemistry -II Lab	1(0-1)
ENT -501	Entrepreneurship	2(2-0)
THQ -501	Teachings of Holy Quran	Non Credit

Semester 5

Course Code	Course Title	Credit Hour
ZOO-694	Biodiversity of Animals	2(2-0)
ZOO-694-P	Biodiversity of AnimalsLab	1(0-1)
MIC-601	Introduction to MedicaMicrobiology	2(2-0)
MIC601-P	Introduction to MedicaMicrobiologyLab	1(0-1)
MIC-602	General Virology	2(2-0)
MIC-602-P	General VirologyLab	1(0-1)
BOT-604	Mycology	2(2-0)
BOT-604-P	MycologyLab	1(0-1)
MIC-603	Clinical Parasitology	2(2-0)
MIC-603-P	Clinical ParasitologyLab	1(0-1)
MIC-604	General Immunology	2(2-0)
MIC-604-P	General ImmunologyLab	1(0-1)

Semester 6

Course Code	Course Title	Credit Hour
BOT-501	Biodiversity of Plants	2(2-0)
BOT-501-P	Biodiversity of PlantsLab	1(0-1)
MIC-605	Food Microbiology	2(2-0)
MIC-605-P	Food MicrobiologyLab	1(0-1)
MIC-606	Environment Microbiology	2(2-0)
MIC-606-P	Environment MicrobiologyLab	1(0-1)
MIC-607	Medical Virology	2(2-0)
MIC607-P	Medical VirologyLab	1(0-1)
MIC-608	Fresh Water Microbiology	2(2-0)
MIC-608-P	Fresh Water MicrobiologyLab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
BIO-601	Biosafety and Bioethics	3(3-0)
MIC-609	Cell and Tissue Culture	2(2-0)
MIC-609-P	Cell and Tissue Culture Lab	1(0-1)
MIC-695	Research Methodology	3(3-0)
MIC-610	Epidemiology and Public Health	2(2-0)
MIC-610-P	Epidemiology and Public Health Lab	1(0-1)
MIC-697	Internship/Field Experience	3(0-3)

Semester 8

Course Code	Course Title	Credit Hour
MIC-611	Pharmaceutical andIndustrial Microbiology	2(2-0)
MIC-611-P	Pharmaceutical andIndustrial MicrobiologyLab	1(0-1)
MIC-612	Soil Microbiology	2(2-0)
MIC-612	Soil MicrobiologyLab	1(0-1)
MIC-613	Infectious waste management	2(2-0)
MIC-613-P	Infectious waste managementLab	1(0-1)
MIC-698	Capstone Research Project	6(0-6)
	Total Credit Hours	126

BS Botany

Teaching Faculty
Dr. Qudsia Firdous
(Assistant Professor)
Mr. Waqas Ahmed (Lecturer)

Program Summary

Admission Fall & Spring
Duration 4 Years
Total Semesters 8
Total Credit Hours 126

Career Prospects

Botany offers diverse career opportunities in plant science and related fields:

- Researching plant biology, genetics, and growth.
- Improving crop production and farming practices.
- Cultivating and managing plants in gardens and landscapes.
- Studying plant ecosystems and biodiversity.
- Investigating plant diseases and pest control.
- Advising on plant conservation and sustainability projects.
- Managing forest resources and conservation.
- Conducting botanical research or teaching in academic settings.
- Working in disease control and prevention.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
HIS-501	Introduction to History	2(2,0)
BOT-501	Diversity of Plants and Related Life	2(2-0)
BOT-501-P	Diversity of Plants and Related LifeLab	1(0-1)
PSY-501	Introduction to Psychology	2(2-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative ReasoningI	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative Reasoning II	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501-P	Applications of Information and Communication Technologies Lab	1(0-1)
ZOO-506	Cell Biology	2(2-0)
ZOO-506 -P	Cell Biology Lab	1(0-1)
BOT -503	Plant Systematics, Anatomy and Development/ Embryology	2(2-0)
BOT-503-P	Plant Systematics, Anatomy and Development/ Embryology Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
CHEM-501	Inorganic Chemistry	2(2-0)
CHEM-501-P	Inorganic Chemistry Lab	1(0-1)
EC0-501	Fundamentals of Ecology	2(2-0)
EC0-501-P	Fundamentals of Ecology Lab	1(0-1)
ZOO-501	Animal Diversity-I	2(2-0)
ZOO-501-P	Animal Diversity-I Lab	1(0-1)
CCE-501	Civic and Community Engagement	2(2-0)
MIC-501	Microbiology	2(2-0)
MIC-501-P	Microbiology Lab	1(0-1)
BOT-505	Plant Physiology	2(2-0)
BOT-505-P	Plant Physiology Lab	1(0-1)

Semester 4

Course Code	Course Title	Credit Hour
CHEM-502	Organic Chemistry	2(2-0)
ZOO-502	Animal Diversity-II	2(2-0)
ZOO-502-P	Animal Diversity-II Lab	1(0-1)
BOT-507	Ethnobotany	2(2-0)
BOT-507-P	Ethnobotany Lab	1(0-1)
BCH-606	Molecular Biology	2(2-0)
BCH-606-P	Molecular Biology Lab	1(0-1)
BOT-508	Entrepreneurship	2(2-0)
ZOO-506	Genetics	3(3-0)
THQ-501	Teachings of Holy Quran	Non Credit

Semester 5

Course Code	Course Title	Credit Hour
BOT-601	Plant Pathology	3(3-0)
BTH-602	Biodegradation and Bioremediation	2(2-0)
BTH-602-P	Biodegradation and BioremediationLab	1(0-1)
MIC-620	Bacteriology and Virology	3(3-0)
BOT-604	Lower Fungi	2(2-0)
BOT-604-P	Lower Fungi Lab	1(0-1)
BOT-605	Bryology	2(2-0)
BOT-605-P	Bryology Lab	1(0-1)

Semester 6

Course Code	Course Title	Credit Hour
BIO-601	Biosafety and Bioethics	2(2-0)
BIO-601-P	Biosafety and Bioethics Lab	1(0-1)
BOT-602	Plant Biotechnology	2(2-0)
BOT-602-P	Plant Biotechnology Lab	1(0-1)
BOT-603	Challenges of a Changing Earth	3(3-0)
BOT-604	Mycology	2(2-0)
BOT-604-P	Mycology Lab	1(0-1)
BCH-602	Plant Biochemistry	2(2-0)
BCH-602-P	Plant Biochemistry Lab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
BOT-611	Diversity of Vascular Plants	2(2-0)
BOT-611-P	Diversity of Vascular Plantkab	1(0-1)
BOT-612	Biodiversity & Conservation	2(2-0)
BOT-612-P	Biodiversity & Conservatiohab	1(0-1)
BOT-613	PlantAnatomy	2(2-0)
BOT-613-P	Plant AnatomyLab	1(0-1)
BCH-618	Molecular Genetics	2(2-0)
BCH-618-P	Molecular GeneticsLab	1(0-1)
BOT-699	Research Planning and Report Writing	2(2-0)
BOT-699-P	Research Planning and Report Writingab	1(0-1)
BOT-697	Internship/Field Experience	3(3-0)
ВОТ-699-Р	Research Planning and Report Writing Research Planning and Report Writingab	2(2-0) 1(0-1)

Course Code	Course Title	Credit Hour
BOT-615	Environmental Biology	2(2-0)
BOT-615-P	Environmental Biology	1(1-0)
BOT-616	Palynology	2(2-0)
BOT-616-P	Palynology Lab	1(1-0)
BOT-617	Plant Nutrition and Soil Fertility	2(2-0)
BOT-617-P	Plant Nutrition and Soil Fertility Lab	1(1-0)
BOT-698	Capstone Research Project	6(0-06)
	Total Credit Hours	126

MS Pharmacology

Teaching Faculty Prof. Dr. Syed Muhammad Nurulain (Professor)

Dr. Nimrah Khalid (Assistant Professor)

Program Summary

Admission Fall & Spring Duration 2 Years

Total Semesters 4
Total Credit Hours 30

Career Prospects

Pharmacology offers a variety of career opportunities in the medical, research, and pharmaceutical sectors:

- Studying drug effects on humans for safety and efficacy.
- Developing new drugs and therapies.
- Assessing the safety and effects of drugs and chemicals.
- Ensuring compliance with drug regulations.
- Monitoring the safety of medicines post-market.
- Providing scientific support to healthcare professionals and companies.
- Dispensing medications and advising patients.
- Teaching pharmacology or conducting drug-related research.

SCHEME OF STUDIES

Semester 1

	Semester	4
Course Code	Course Title	

Course Code	Course Title	Credit Hour
STAT-701	Biostatistics	3(3-0)
BCH-701	Research Methodology	3(3-0)
BTH-701	Advance Analytical Techniques	3(3-0)
PHARM-707	Therapeutic Drug monitoring	3(3-0)

Course Code	Course Title	Credit Hour
PHARM-708	Chemotherapeutics	3(3-0)
PHARM-710	Pharmacopathology	3(3-0)
PHARM-709	Basic and advanced pharmacology	3(3-0)
BCH-703	Advances in Biochemistry	3(3-0)

Samostar 2

Semester 3&4

Course Code	Course Title	Credit Hour
PHARM-711	Research and Thesis	6(6-0)
	Total Credit Hours	30

Department of Food, Nutrition & Agricultural Sciences

Introduction

This Department feels pleasure to welcome all the students who have taken admission in the Grand Asian University, Sialkot. The Department being one of the major departments is offering ADP, BS, MS and PhD Programs in Human Nutrition and Dietetics and Food science and Technology. In addition, this department is also offering BS programs in Food Safety and Quality Management, Environmental Sciences and Public Health. Among them, the discipline of Human Nutrition and Dietetics is one of the most chosen departments. The message from the Dean of Nutrition and Agricultural Sciences typically emphasizes the importance of sustainable practices, innovation in food systems, and the role of nutrition in public health. It may also highlight the commitment to research, education, and community engagement, aiming to address global challenges like food security and health disparities. Collaboration across disciplines is often encouraged to foster advancements in these critical areas.

Objective

The core objectives are to

- produce competent graduates with adequate scientific background to meet the implied needs of public and private sector
- provide professional leadership, services and outreach activities in the major areas of Nutritional Sciences, food science, environmental sciences and public health.
- contribute and help resolving the nutritional and health issues in our country
- develop human resource competent enough to address emerging issues and challenges in the field of food science and technology
- train man power having capacity to serve the nation in terms of food security and safety
- promote critical thinking and problem-solving skills to analyze and address complex environmental challenges.
- equip students with practical skills in environmental assessment, monitoring, and data analysis, using modern tools and technologies
- instill a commitment to ethical practices and social responsibility in addressing public health challenges.
- prepare graduates for careers in various public health sectors, including epidemiology, health education, health policy, and environmental health.

Programs Being Offered

ADP Human Nutrition and Dietetics

1

BS Food Safety and Quality Management

ADP Food Science and Technology

BS Environmental Sciences

BS Human Nutrition and Dietetics

Post Graduate Diploma in Halal Industry

BS Food Science and Technology

Message From HOD



With great pleasure I welcome all the students who have taken admission in the Department of Food, Nutrition, and Agricultural Sciences at Grand Asian University, Sialkot. As one of the major and dynamic departments of the university, we are committed to providing quality education, fostering research, and preparing our students to make significant contributions to the food, nutrition, and environmental sectors.

Our department offers ADP and BS programs in Human Nutrition and Dietetics, Food Science and Technology, Food Safety and Quality Management, and Environmental Sciences. These programs are designed to equip students with a deep understanding of the principles and practices required to address the challenges of the modern world, including those related to food security, public health, and sustainable food, nutrition and environmental practices. The department highlights the importance of

innovation and sustainability in food systems, food quality management, role of food and nutrition in clinical therapies specifically and as well as the crucial role in improving the nutritional and environmental health of public at large. Our rigorous curriculum is designed to build a solid foundation in both theoretical concepts and practical laboratory skills, ensuring that our students are well-prepared for careers in research, healthcare, environmental management, and industry.

We are deeply committed to advan research and education that address global challenges such as food insecurity, nutritional and health disparities, and environmental sustainability. Collaboration across disciplines is encouraged within our department, enabling students and faculty to engage in ground breaking work that tackles these critical issues.

We, the professional faculty of the department, are excited to work with our current and new students, to guide them through this journey of learning, research, and community engagement. As you embark on this exciting academic adventure, we encourage you to take full advantage of the opportunities before you, and together, we will contribute to the advancement of food, nutrition, and agricultural sciences on both a national and global scale.

Welcome to a brighter future with Grand Asian University!

Prof. Muhammad Mushtaq Ahmad PhD and Post Doctorate Chairman Halal Certification Board Punjab Halal Development Agency, Lahore

Department of Food, Nutrition & **Agricultural Sciences**

ADP and BS Human Nutrition and Dietetics

Teaching Faculty

Dr. Muhammad Mushtaq Ahmad (Professor) PhD, Post Doc

Dr. Aneeq ur Rehman (Assistant Professor) Ms. Rimsha Sattar (Lecturer)

Program Summary

Admission

Fall and Spring

Program Duration Number of Semesters 4 & 8

2 &4 Years

Total Credit Hours

135

Career Prospects

- Clinical Dietitian/Nutritionist
- **Public Health Nutritionist**
- Food Service Manager
- **Private Practice**
- Research and Academia
- Corporate Nutritionist/Food Industry Expert
- **Sports Nutritionist**
- Health Coach
- Policy Advisor

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ES-501	Introduction to Environmental Sciences	3(3-0)
HIST-501	Introduction to History	2(2-0)
HND-501	Fundamentals of Human Nutrition	3(3-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning-I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 2

Course Code	Course Title	Credit Hour
HND-502	Introduction to Food Science and Technology	3(3-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501 P	Applications of Information and Communication Technologies lab	1(0-1)
ICP-501	Ideology & Constitution of Pakistan	2(2-0)
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative ReasoningI	3(3-0)
CCE-501	Civics & Community Engagement	2(2-0)

Semester 3

CourseCode	Course Title	CreditHour
HND-503	Macronutrientsin HumanNutrition	3(3-0)
PSY-500	Introductionto Psychology	2(2-0)
HND-504	HumanAnatomy	2(2-0)
HND-504 P	HumanAnatomyLab	1(0-1)
HND-505	GeneralPathology	2(2-0)
HND-505 P	GeneralPathologyLab	1(0-1)
HND-506	NutritionalEducationand Awareness	3(3-0)
HND-507	Food Safety and Toxicology	3(3-0)

Course Code	Course Title	Credit Hour
HND-508	Micronutrientsin Human Nutrition	3(3-0)
HND-509	Human Physiology-I	3(3-0)
HND-510	Nutritionthrough Life Cycle	3(3-0)
HND-511	Meal Planning and Management	2(2-0)
HND-511 P	Meal Planning and Management Lab	1(0-1)
HND-512	Assessment of Nutritional Status	2(2-0)
HND-512 P	Assessment of Nutritional Status Lab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
THQ-501	Teaching of Holy Quran	Non-Credited
	Total Credit Hours	66

Semester 5

Course Code	Course Title	Credit Hour
FSQM-501	Food Safety and Quality Management	3(3-0)
FBIT-515	Food Biotechnology	3(3-0)
HND-513	Human Physiology-II	3(3-0)
HND-514	Food Microbiology	2(2-0)
HND-514 P	Food Microbiology Lab	1(0-1)
HND-515	Functional Food and Nutraceutical	3(3-0)
HND-516	Dietetics-I	3(3-0)

Semester 6

Course Code	Course Title	Credit Hour
HND-517	Public Health Nutrition	3(3-0)
HND-518	Scientific Report Writing	3(3-0)
HND-519	Nutritional Practices in Clinical Care	2(2-0)
HND-519 P	Nutritional Practices in Clinical Care Lab	1(0-1)
HND-520	Dietetics-II	3(3-0)
HND-521	Food Analysis	2(2-0)
HND-521 L	Food Analysis LAB	1(0-1)
BIOCHEM-501	Mineral and Water Metabolism	3(3-0)

Semester 7

CourseCode	Course Title	CreditHour
HND522	Dietetic s II	3(3-0)
HND523	Nutritionn Emergencies	3(3-0)
HND524	SportsNutrition	2(2-0)
HND524P	SportsNutritionLab	1(0-1)
HND525	FoodServiceManagement	3(3-0)
HND526	Internship	3(0-3)

Semester 8

Course Code	Course Title	Credit Hour
HND-527	Infantand Young Child Feeding	2(2-0)
HND-527 P	Infantand Young Child Feeding Lab	1(0-1)
HND-528	Global Food Issues	3(3-0)
HND-529	Nutritionand Psychology	3(3-0)
HND-530	NutritionPolicies and Programs	3(3-0)
HND-531	ResearchProject	3(3-0)
HND-532	Food and Drug Laws	3(3-0)
	Total Credit Hours	135

ADP and BS Food Science and Technology

Teaching Faculty
Dr. Waheed Ahmad (Assistant Professor)
Ms. Habiba Shahzad (Lecturer)

Program Summary

Admission Fall and Spring Program Duration 2 &4 Years Number of Semesters 4 & 8

Number of Semesters 4 & 8 Total Credit Hours 66 & 135

• Career Prospects

Graduates with a degree in Food Science and Technology have diverse career opportunities across industries related to food production, safety, quality, and innovation.

- Food Technologist
- Quality Assurance Manager
- Product Development Scientist
- Food Safety Specialist
- Food Microbiologist.
- Supply Chain Manager
- Food Analyst/Chemist:
- Entrepreneur/Business Owner
- Food Marketing and Sales
- Research Scientist (Academic or Industry)

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ES-501	Introduction to Environmental Sciences	3(3-0)
HIS-501	Introduction to History	2(2-0)
FST-501	Introduction to Food Science and Technology	3(3-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning -I	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Course Code	Course Title	Credit Hour
FST-502	Fundamentals of Human Nutrition	3(3-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501 P	Applications of Information and Communication Technologies lab	1(0-1)
ICP-501	Ideology & Constitution of Pakistan	2(2-0)
ENG-502	Expository Writing	3(3-0)
QRE-502	Quantitative ReasoningII	3(3-0)
CCE-501	Civics & Community Engagement	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
FST-503	Food Processing and Preservation	2(2-0)
FST-503 P	Food Processing and Preservation Lab	1(0-1)
FST-504	Food Microbiology	2(2-0)
FST-504 P	Food Microbiology Lab	1(0-1)
FST-505	Food Chemistry	3(3-0)
PSY-501	Introduction to Psychology	2(2-0)
FST-506	Technology of Fats and Oils	2(2-0)
FST-506 P	Technology of Fats and Oils Lab	1(0-1)
FST-507	Dairy Technology	2(2-0)
FST-507 P	Dairy Technology Lab	1(0-1)

Semester 4

CourscCode	Course Title	CredifHour
FST-508	FruitsandVegetabl@rocessing	2(2-0)
FST-508P	FruitsandVegetabl&rocessin&ab	1(0-1)
ENT501	Entrepreneurship	2(2-0)
FST-509	BakeryProducfTechnology	2(2-0)
FST-509P	BakeryProducfTechnologLab	1(0-1)
FST-510	FoodAnalysis	2(2-0)
FST-510P	FoodAnalysi&ab	1(0-1)
FST-511	SensoryEvaluationfFoods	2(2-0)
FST-511P	SensoryEvaluationfFoodsLab	1(0-1)
FST-512	BeverageTechnology	2(2-0)
FST-512P	Beverag&echnologLab	1(0-1)
THQ501	Teachingof HolyQuran	NonCredite
	Total Credit Hours	66

Semester 5

CourseCode	Course Title	CredifHour
BIOT515	FoodBiotechnology	3(3-0)
BCH501	IntroductorBiochemistry	3(3-0)
FST-513	SugarTechnology	3(3-0)
FST-514	CereaПechnology	3(3-0)
FST-515	FoodSafety	3(3-0)
FST-516	FoodPackaging	3(3-0)

Semester 6

Course Code	Course Title	Credit Hour
BIOCHEM-501	Mineral and Water Metabolism	3(3-0)
FST-517	Community Nutrition	3(3-0)
FST-518	Food Product Development	2(2-0)
FST-518 P	Food Product Development Lab	1(0-1)
FST-519	Meat Technology	2(2-0)
FST-519 P	Meat Technology Lab	1(0-1)
FST-520	Food Plant Layout and Sanitation	3(3-0)
FST-521	Scientific Report Writing	3(3-0)

Semester 7

CourseCode	Course Title	CreditHour
FST-522	PostHarvesfTechnology	3(3-0)
FST-523	Poultryand Egg Processing	3(3-0)
FST-524	ConfectionerundSnackFoods	3(3-0)
FST-525	UnitOperationn FoodProcessing	3(3-0)
FST-526	Internship	3(3-0)

Semester 8

CoursCode	Course Title	CrediHour
FST-527	SeaFoodProcessingTechnology	3(3-0)
FST-528	ExtrusionTechnology	3(3-0)
FST-529	FoodQualityManagement	3(3-0)
FST530	MilkandMeat Hygie ne dPublic Health	3(3-0)
FST-531	Researc Project	3(3-0)
FST-532	FoodLaw sandRegulation	3(3-0)
	Total CredHours	135

BS Food Safety and Quality Management

Teaching Faculty
Dr. Muhammad Waheed Iqbal
Ms. Palwasha Shafique (Lecturer)

Program Summary

Admission
Program Duration
Number of Semesters
Total Credit Hours

Fall and Spring 4 Years

8

128

Career Prospects

- Food Safety Manager
- Quality Assurance (QA) Manager
- Food Auditor/Inspector
- Regulatory Affairs Specialist
- Food Safety Consultant
- Compliance Officer
- Food Safety Coordinator
- Food Microbiologist
- Quality Control Analyst
- Supply Chain and Procurement Manager
- Food Safety Trainer/Educator

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ES-501	Introduction to Environmental Sciences	3(3-0)
HIS-501	Introduction to History	2(2-0)
FSQM-501	Introduction to Food Science & Quality Management	3(3-0)
ENG-501	Functional English	3(3-0)
QRE-501	Quantitative Reasoning	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 2

Course Cod	Course Title	Credit Hou
FSQM502	Food Processing & Preservation	2(2-0)
FSQM502P	Food Processing & Preservatianum L	1(0-1)
ICT-501	Applications of Information and Commu Technologies	2(2-0)
ICT-501P	Applications ofnformation and Communic Technologiesa b	1(0-1)
ICP-501	Ideology & Constitution of Pakistan	2(2-0)
ENG-502	Expository Writing	3(3-0)
QRE502	Quantitative Reason i hlg	3(3-0)
CCE501	Civics & Community Engagement	2(2-0)

Semester 3

Course Cod	Course Title	Credit Hou
FSOM503	Pre-Requisites Programs in Food Stand Quality	
FSQM504	Risk Assessment and Control Plans	3(3-0)
FSQM505	Food Safety & Hygiene	3(3-0)
PSY-500	Introduction to Psychology	2(2-0)
MGT-510	Human Resource Management	3(3-0)
BCH-501	Introduction to Biochemistry	3(3-0)

Semester 4

Course Code	Course Title	Credit Hour
FSQM-506	Food Chemistry	2(2-0)
FSQM-506 P	Food Chemistry L ab	1(0-1)
FSQM-507	Post-Harvest Technology	2(2-0)
FSQM-507 P	Post-Harvest Technology L ab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
FSQM-508	Introduction to Food Retail	3(3-0)
SCM-501	Supply Chain Management	3(3-0)
FSQM-509	Food Safety Management Systems	2(2-0)
THQ-501	Teaching of Holy Quran	Non-Credited

Semester 5

Course Code	Course Title	Credit Hour
FSQM510	Food Microbiology	2(2-0)
FSQM510P	Food Microbiologya b	1(0-1)
FSQM511	Pakistan Halal Food Standards (PS32939)	3(3-0)
FSQM512	Integrated Pest Management	3(3-0)
FSQM513	Food WasteManagement	2(2-0)
FSQM513P	Food Waste ManagemenatL	1(0-1)
FSQM514	Occupational and Health Safety Systems	3(3-0)
FSQM515	Audit and Inspection Techniques	3(3-0)

Semester 6

Course Code	Course Title	Credit Hour
FSQM-516	Food Packaging	2(2-0)
FSQM-516 P	Food Packaging Lab	1(0-1)
FSQM-517	Introduction to Food Labeling	3(3-0)
FSQM-518	Food Toxins and Allergens	3(3-0)
FSQM-519	Food Analysis and Instrumentation	2(2-0)
FSQM-519 P	Food Analysis and Instrumentation Lab	1(0-1)
MGT-525	Production and Operation Management	3(3-0)
FSQM-520	Halal and Ethnic Food Management	3(3-0)

Semester 7

Course Code	Course Title	Credit Hour
FSQM-521	Food Laws and Regulations	3(3-0)
FSQM-522	Global Good Agricultural Practices	3(3-0)
MGT-523	Consumer Behavior	3(3-0)
FSQM-524	Scientific Report writing	3(3-0)
FSQM-525	Internship	3(3-0)

Course Code	Course Title	Credit Hour
FSQM -526	Food Plant Layout and Sanitation	3(3-0)
FSQM -527	Food Biotechnology	3(3-0)
FSQM -528	Introduction to Food Fraud Mitigation	3(3-0)
FSQM -529	Research Project	3(3-0)
Total Credit Hours		128

BS Environmental Sciences

Teaching Faculty
Dr. Khadija Siddique
(Assistant Professor)
Ms. Kashaf Nasir (Lecturer)

Program Summary

Admission Fall and Spring
Program Duration 4 Years
Number of Semesters 8
Total Credit Hours 137

Career Prospects

- Environmental Consultant
- Environmental Scientist
- Conservation Biologist
- Wildlife Manager
- Environmental Policy Analyst
- Sustainability Coordinator
- Environmental Educator
- Water Resource Specialist
- Air Quality Specialist
- Soil Scientist

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ES-501	Introduction to Environmental Science	3(3-0)
HIS-501	Introduction to History	2(2-0)
ES-502	Introduction to Earth Sciences	3(3-0)
ENG-501	Functional English	3(3-0)
QRE-501	QuantitativeReasoningI	3(3-0)
ISL-501	Islamic Studies	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
CHEM503	Basic Chemistry	2(2-0)
CHEM503P	Basic Chemistryalb	1(0-1)
ES-503	Climatology	3(3-0)
ES-504	Environmental Pollution	3(3-0)
ES-505	Environmental Economics	3(3-0)
PSY-500	Introduction to sychology	2(2-0)
ES-506	Environmental Profile of Pakistan	3(3-0)

Semester 5

Course Cod	Course Title	Credit Hour
ES-511	Applied Ecology	2(2-0)
ES-511P	Applied Ecology ab	1(0-1)
ES-512	Population & Environment	3(3-0)
BCH-501	Introductory Biochemistry	3(3-0)
ES-513	Analytical Techniques in Environmental Science	1(1-0)
ES-513 P	Analytical Techniques in Environmental Sciende	2(0-2)
ES-514	Public Health & Environment	3(3-0)
ES-515	Pollution Control Technologies	3(3-0)

Semester 2

Course Coo	Course Title	Credit Hour
ES-502	Fundamentals of Ecology	3(3-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
I ICHESOLP	Applications of Information and Communication Technologi ab L	1(0-1)
ICP-501	Ideology & Constitution of Pakistan	2(2-0)
ENG502	Expository Writing	3(3-0)
QRE502	Quantitative Reasonihlg	3(3-0)
CCE501	Civics & Community Engagement	2(2-0)

Semester 4

Course Code	Course Title	Credit Hour
ES-507	Environmental Toxicology	2(2-0)
ES-507 P	Environmental Toxicology L ab	1(0-1)
MICR -522	Environmental Microbiology	2(2-0)
MICR-522 P	Environmental Microbiology L ab	1(0-1)
ES-508	Biodiversity & Conservation	3(3-0)
ENT-501	Entrepreneurship	2(2-0)
ES-509	Energy and Environment	2(2-0)
ES-510	Solid Waste Management	3(3-0)
THQ-501	Teaching of Holy Quran	Non-Credited

Course Code	Course Title	Credit Hour
ES-516	Environmental Biotechnology	2(2-0)
ES-516 P	Environmental Biotechnology Iab	1(0-1)
ES-517	GIS & Remote Sensing	2(2-0)
ES-517 P	GIS & Remote Sensing Lab	1(0-1)
ES-518	Environmental Management	3(3-0)
ES-519	Environmental Governance	3(3-0)
ES-520	Environmental Monitoring	2(2-0)
ES-520 P	Environmental Monitoring Lab	1(0-1)
ES-521	Water Resources Management	3(3-0)

Semester 7

Course Code	Course Title	Credit Hou
ES-522	AgroEcology	3(3-0)
ES-523	Basics of Environmental Impact Assess	3(3-0)
ES-524	Natural Resource Management	3(3-0)
ES-525	Research Methods in Environmental Sc	3(3-0)
ES-526	Climate Change	3(3-0)
ES-527	Internship	3 (3-0)

Semester 8

Course Code	Course Title	Credit Hour
ES-528	Environmental Laws & Policies	3(3-0)
ES-529	Occupational Health and Safety	3(3-0)
ES-530	Urban Environmental Management	2(2-0)
ES-530 P	Urban Environmental Management L ab	1(0-1)
ES-531	Air and Noise Pollution	3(3-0)
ES-532	Disaster Risk Management	3(3-0)
ES-533	Research Project	3(3-0)
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Post Graduate Diploma in Halal Industry

Teaching Faculty

Dr. Muhammad Mushtaq Ahmad (HoD and Professor)

Dr. Waheed Ahmad (Assistant Professor)
Ms. Habiba Shahzad (Lecturer)

Program Summary

Admission: Fall and Spring Timing: Weekend Classes Total Credit Hours: 24

Career Prospects

- Halal Compliance Assistant
- Halal Certification Assistant
- Quality Control Technician
- Halal Product Sales Representative
- Halal Food Production Operator
- Halal Supply Chain Assistant

SCHEME OF STUDIES

HI-707

HI-708

Semester 1

Course code	Course Title	Credit Hour
HI-701	Halal and Haram in the Light of Quran and Sunnah	3(3-0)
HI-702	Food Safety and Hygiene	3(3-0)
HI-703	Animal Slaughtering	3(3-0)
HI-704	Food Ingredients and Control	3(3-0)

Course code Course Title Credit Hour HI-705 Global Halal Market Issues, Standards and Opportunities HI-706 Pakistan Halal Food Standard(PS 3733-303-0)

Halal Financing, Textiles andCosmetics

Industry based case study

Semester 2

3(3-0)

3(3-0)

FACULTY OF SCIENCES

Department of Physics

Introduction

Department of Physics is one of the rapidly growing departments in GAUS. Our well-known and experienced Faculty members are devoted to provide students with the platform where hard work, dedication and willingness to learn can make them outclass. With the ultimate goal to strive for expanding and strengthening opportunities. Traditional classroom experiences besides hands-on skills in the laboratory and research under supervision of devoted and dedicated faculty members make them trained in professional fields. The department is offering ADP, BS and MPhil programs and endeavoring hard to provide high-quality education and innovative research in physics that advances scientific understanding and addresses real-world challenges. We are committed to cultivating an inclusive learning environment, supporting the professional growth of students and faculty, and contributing to scientific progress through collaboration and discovery.

Objectives

The core objectives of this department are to:

- build up expertise among the students to match the national level required education & research and become national leader in producing highly professional and motivated Physicist.
- preparing undergraduate and graduates for advanced studies
- develop hands-on experience in different laboratory techniques and modern instrumentation.
- equip students with the necessary skill set for pursuing careers in physics education.
- research and industry in government or private organization.

Programs Being Offered

ADP Physics BS Physics MS Physics

Message From HOD



The Department of Physics at Grand Asian University, Sialkot, is one of the fastest-growing departments, committed to fostering a robust learning environment where students can thrive academically, professionally, and personally.

The department's primary goal is to expand and strengthen opportunities for physics students, ensuring they receive a well-rounded education that prepare them for the challenges of the modern world. Alongside traditional classroom experiences, we emphasize the development of hands-on skills in the laboratory and offer students the chance to engage in research projects under the mentorship of our devoted faculty. This combination of theoretical knowledge and practical experience makes our students experts in their field and equips them with the skills necessary to tackle complex real-world problems.

Our faculty members are deeply committed to cutting-edge experimental and theoretical research, collaborating with various renowned institutes across Pakistan. This collaboration not only enriches the research environment but also provides students with valuable exposure to innovative work in physics, encouraging them to engage in high-level scientific inquiry. Additionally, we place great emphasis on the moral and ethical development of our students, aiming to nurture not only their scientific expertise but also their sense of responsibility as future leaders and good citizens.

At the Department of Physics, we are confident that our students will emerge as highly skilled, ethical, and well-rounded professionals, ready to make meaningful contributions in both the scientific community and society at larger scale.

Dr. Fasih-Ud-DinPhD Physics



ADP Physics

Teaching Faculty Dr. Abdul Jabbar (Assistant Professor) Miss Haiqa Nadeem (Lecturer)

Total Credit Hours

Program Summary Admission Fall and Spring 2 years Duration Number of Semesters 4

Career Prospects

- Colleges and Higher Educational Institutions
- National Research & Development Organizations such as PICRET, PNRA, KRL, NESCOM, PAEC, PINSTECH, KANUP, PIEAS, NELOP etc.

SCHEME OF STUDIES

Semester 1

66

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3(3-0)
PSY-501	Introduction to Psychology	2(2-0)
MTH-520	Calculus and Analytical Geometry	3(3-0)
ISL-501	Islamic Studies	2(2-0)
ICT-501	Applications of Information and Communication Technologies	2(2-0)
ICT-501 P	Applications of Information and	1(0-1)
	Communication Technologieab	
QRE-501	Quantitative Reasoning	3(3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
QRE-502	Quantitative ReasoningII	3(3-0)
PHY-501	Mechanics1	2(2-0)
PHY-501 P	Mechanics1 Lab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
CCE-501	Civics & Community Engagement	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
MTH-526	Multivariable Calculus	3(3-0)
ENG-503	Creative Writing	2(2-0)
PHY-502	Waves and Oscillations	2(2-0)
PHY-502 P	Waves and OscillationsLab	1(0-1)
PHY-503	Electricity and Magnetism	3(3-0)
CHEM-510	Introductory Chemistry	3(3-0)
PHY-504	MechanicsII	3(3-0)

Course Code	Course Code Course Title	
PHY-505	Electricity and Magnetishh	3(3-0)
MTH514	Differential Equations and Application	3(3-0)
PHY-506	Computing Tools for Physicists	3(3-0)
PHY-507	Heat and Thermodynamics	3(3-0)
PHY-508	ModernPhysics	2(2-0)
PHY-508P	PHY-508P ModernPhysicsLab	
MTH521	MTH521 Discrete Mathematics	
THQ-501	Teaching of Holy Quran	Non-credit
	Total Cradit Hours	66

BS Physics

Teaching Faculty
Dr. Fasih Ud Din
(Associate Professor & HoD)
Dr. Abdul Jabbar (Assistant Professor)
Miss Haiqa Nadeem (Lecturer)

Program Summary

Admission Fall and Spring
Duration 4 years
Number of Semesters 8

Number of Semesters 8 Total Credit Hours 130

Career Prospects

- Colleges and Higher Educational Institutions
- National Research & Development Organizations such as PICRET, PNRA, KRL, NESCOM, PAEC, PINSTECH, KANUP, PIEAS, NELOP etc.

Semester 1

Course Title Course Code Credit Hour ENG-501 Functional English 3(3-0) PSY-500 Introduction to Psychology 2(2-0) MTH520 Calculus and Analytical Geometry 3(3-0) ISL-501 Islamic Studies 2(2-0) ICT-501 Applications of Information Chalmmunication 2(2-0) Technologies Applications of Information and Communicati ICT-501P 1(0-1) Technologie&ab QRE501 Quantitative Reasoning 3(3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
QRE-502	Quantitative Reasoning -II	3(3-0)
PHY-501	Mechanics -1	2(2-0)
PHY-501 P	Mechanics -1 Lab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
CCE-501	Civics & Community Engagement	2(2-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour	Course Code	Course Title	Credit Hour
MTH526	Multivariable Calculus	3(3-0)	PHY-505	Electricity and Magnetidin	3(3-0)
ENG-503	Creative Writing	2(2-0)	MTH514	Differential Equations and Application	3(3-0)
PHY-502	Waves and Oscillations	2(2-0)	PHY-506	Computing Tools for Physicists	3(3-0)
PHY-502P	Waves and Oscillationsb		PHY-507	Heat and Thermodynamics	3(3-0)
		1(0-1)	PHY-508	ModernPhysics	2(2-0)
PHY-503	Electricity and Magnetism	3(3-0)	PHY-508P	Modern Physidsab	1(0-1)
CHEM510	Introductory Chemistry	3(3-0)	MTH521	Discrete Mathematics	3(3-0)
PHY-504	Mechanic II	3(3-0)	THQ501	Teaching of Holy Quran	Non-credit

Semester 5

Semester 6

Course Code	Course Title	Credit Hour	
PHY-601	Methods of Mathematical Physics	3(3-0)	
PHY-603	Classical Mechanics	3(3-0)	
PHY-605	ElectrodynamicsI	3(3-0)	
PHY-607	Electronics	3(3-0)	
PHY-611	Lab Course (Electromagnetism)	3(3-0)	

Course Code	Course Title	Credit Hour
PHY-602	Methods of Mathematical Physics -II	3(3-0)
PHY-604	Quantum Mechanics -I	3(3-0)
PHY-606	Nuclear Physics	3(3-0)
PHY-608	Electrodynamics -II	3(3-0)
PHY-612	Lab Course (Atomic & Nuclear Physics)	3(3-0)

Semester 7

Course Code	Course Title	Credit Hour
PHY-613	Quantum Mechaniell	3(3-0)
PHY-615	Plasma Physics	3(3-0)
PHY-617	Solid State Physiek	3(3-0)
PHY-619	Particle Physic4*	3(3-0)
PHY-621	Advanced Electronics*	3(3-0)
PHY-623	EnvironmentaPhysicsI*	3(3-0)
PHY-625	Health and Medical Physids	3(3-0)
PHY-627	Climatology and Metrology*	3(3-0)
PHY-629	Lab Course (Electronics)	3(3-0)
THQ-501	Teaching of Holy Quran	0(0-0)

Course Code	Course Title	Credit Hour
PHY-614	Computational Physics	3(3-0)
PHY-616	Solid State PhysicsII	3(3-0)
PHY-618	Laser and Optics	3(3-0)
PHY-620	Statistical Mechanics	3(3-0)
PHY-622	Particle Physics-II*	3(3-0)
PHY-624	Advanced Electronics Lab Course*	3(3-0)
PHY-626	Environmental Physics Lab Course*	3(3-0)
PHY-628	Health and Medical Physics-II*	3(3-0)
PHY-630	Climatology and MetrologyII*	3(3-0)
PHY-632	Research and Thesis**	6(6-0)
PHY-634	Project	3(3-0)
	Total CreditHours:	130

MPhil Physics

Teaching Faculty
Dr. Fasih Ud Din
(Associate Professor & HoD)
Dr. Abdul Jabbar (Assistant Professor)
Miss Haiqa Nadeem (Lecturer)

Program Summary

Admission Fall and Spring
Duration 4 years
Number of Semesters 8

Number of Semesters 8 Total Credit Hours 130

Career Prospects

- Colleges and Higher Educational Institutions
- National Research & Development Organizations such as PICRET, PNRA, KRL, NESCOM, PAEC, PINSTECH, KANUP, PIEAS, NELOP etc.

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
PHY-701	Mathematical Methods of Physics (Compulsory)	3(3-0)
PHY-702	Classical Mechanics (Compulsory)	3(3-0)
PHY-703	Quantum Mechanics (Compulsory)	3(3-0)
PHY-704	Electrodynamics (Compulsory)	3(3-0)

Semester 2

Course Code	Course Title	Credit Hour
PHY-705	Statistical Physics (Compulsory)	3(3-0)
PHY-7xx	Graduate Level Physics Course	3(3-0)
	(Elective Course I)	
PHY-7xx	Graduate Level Physics Course	3(3-0)
	(Elective Course II)	
PHY-7xx	Graduate LevePhysics Course	3(3-0)
	(Elective Course III)	

Semester 3&4

Course Code	Course Title	Credit Hours
PHY-799	Research and Thesis (Graduate Level)	6(0-6)
OR		
PHY-7xx	Two Elective courses	6(6-0)
	Total Credit Hours:	30

Elected Subjects

Course Code	Course Title	Credit Hour
PHY-701	Mathematical Methods of Physics	3(3-0)
PHY-702	Classical Mechanics	3(3-0)
PHY-703	Quantum Mechanics	3(3-0)
PHY-704	Electrodynamics	3(3-0)
PHY-705	Statistical Physics	3(3-0)
PHY-706	Material Science	3(3-0)
PHY-707	Nanoscale Physics	3(3-0)
PHY-708	Semiconductor Devices	3(3-0)
PHY-709	Materials Synthesis and Characterization	3(3-0)
PHY-710	Dielectric Physics	3(3-0)
PHY-711	Surface Physics	3(3-0)
PHY-712	Functional Materials aldevices	3(3-0)
PHY-713	Electrochemistry and Electrocatalysis	3(3-0)
PHY-714	Piezoelectric Materials and Devices	3(3-0)
PHY-715	Physics of Thin Film	3(3-0)
PHY-716	Advanced Scintillation Materials	3(3-0)
PHY-717	Advance Laser Optics	3(3-0)
PHY-718	Optoelectronics and Photonics	3(3-0)
PHY-719	Particle Physics	3(3-0)
PHY-720	Quantum Field Theory	3(3-0)
PHY-721	Group Theory	3(3-0)
PHY-722	Heavy Ion Physics	3(3-0)
PHY-723	Radiation Detection& Measurement	3(3-0)
PHY-724	AdvancedMagnetic Resonance Imaging	3(3-0)
PHY-725	Spectroscopy	3(3-0)
PHY-726	Superconductivity	3(3-0)
PHY-727	Plasma Physics	3(3-0)
PHY-728	Optical Properties of Solids	3(3-0)
PHY-729	Magnetism in Condensed Matters	3(3-0)
PHY-730	Advanced NuclePhysics	3(3-0)
PHY-731	General Relativity& Cosmology	3(3-0)
PHY-732	Advanced Computational Physics	3(3-0)

FACULTY OF SCIENCES

Department of Chemistry

Introduction

The department of chemistry was established in 2023. Chemistry is the study of matter and its transformations, providing a foundation for understanding molecules, nanostructures, and larger solids, along with their properties, reactions, and practical applications. This dynamic field is essential to numerous modern scientific and technological advances, particularly in interdisciplinary areas such as molecular genetics, nanotechnology, medicinal chemistry, drug development, and sustainable chemistry.

At GAUS, our Chemistry Department fosters a collaborative community committed to excellence in education, hands-on learning, and cutting-edge research opportunities. Our faculty brings a rich diversity of academic backgrounds, professional experiences, and research interests, which energizes our department. Covering all major fields of chemistry, analytical, inorganic, organic, physical, and applied chemistry the expertise of our faculty spans a wide range of specialties. Our curriculum is thoughtfully crafted with the Sustainable Development Goals in mind, ensuring that students receive comprehensive training in their chosen areas. Faculty members are dedicated to equipping students with the skills needed to collaborate effectively in research teams and contribute to achieving sustainability objectives.

Objectives

The core objectives of this department are to:

- develop outstanding professionals and academicians for the industry and the academic world.
- develop problem-solving skills, presentation skills in the scientific world.
- provide opportunities for advance research training in both the theoretical and experimental Chemistry.
- establish research collaboration with a number of well reputed national and international research centers, laboratories and chemical industries.

Programs Being Offered

BS Chemistry MS Chemistry

Message From HOD



The Department of Chemistry at Grand Asian University, Sialkot, was established in 2023 with the goal of fostering a collaborative and dynamic environment dedicated to excellence in education, hands-on learning, and cutting-edge research. We are committed to becoming a globally recognized leader in chemistry education and research, focusing on innovation, industrialization, entrepreneurship, commercialization, and sustainability. Our department aspires to uphold the highest academic and professional standards, while fostering personal growth and fulfillment for both our staff and students. We aim to provide a nurturing environment that encourages continuous improvement and excellence in all our endeavors.

This department brings a wealth of academic expertise, professional experience, and diverse research interests, which energize and enrich our learning environment. Covering all major fields of chemistry—including

analytical, inorganic, organic, physical, and applied chemistry—the breadth and depth of our faculty's specialties ensure that students receive a comprehensive and well-rounded education.

Our curriculum is carefully designed by keeping the intricacies of Sustainable Development Goals (SDGs) and equipping students with the skills and knowledge necessary to tackle global challenges. We prioritize training students to work effectively in research teams, with a particular focus on contributing to sustainability objectives.

Our department is committed to providing exceptional support, state-of-the-art facilities, and a rewarding learning environment that fosters both academic success and professional development.

Syed Mazloom Hussain Shah PhD Chemistry



BS Chemistry

Teaching Faculty
Dr. Sohail Ahmed (Assistant Professor)
Miss Amna Aamir (Lecturer)
Miss Misharab Liaqat (Lecturer)

Program Summary

Admission Fall and Spring
Duration 4 years
Number of Semesters 8
Total Credit Hours 131

Career Prospects

- Chemical industry, Paper industry, Cement industry, Glass industry, Food industry, Agriculture industry and Pharmaceutical industry.
- Designing and properties of materials involved in energy and information technology
- Analyzing and model real world problems based on chemistry as well as other scientific principles and to solve such problems by utilizing their skills and tools.
- Nuclear energy reactor as a junior scientist in nuclear and experts in solar energy, wind energy and hydropower plants.
- Medical, Pharmaceutical 1 Sectors and Medical Laboratories
- PAEC Cancer hospitals as well as other medical institutes
- Teaching opportunities in schools, colleges and universities

SCHEME OF STUDIES

Semester 1

Course Cod	Course Title	Credit Hou
CHEM501	Inorganic Chemistify	2(2-0)
CHEM501-P	Inorganic ChemisHyLab	1(0-1)
PSY-501	Introduction to Psychology	2(2-0)
QRE501	Quantitative Reasoning (Mathemalt)ics	3(3-0)
	IslamicStudies/Religious EducatiEnthics in lie of Islamic/Studies only for nVoluslim students	2(2-0)
ENG-501	Functional English (Eng Hs)h	3(3-0)
BTH-501	Introduction to Biotechnology	3(3-0)

Semester 2

Course Cod	Course Title	Credit Hou
CHEM502	Organic Chemist rl y	2(2-0)
CHEM502-P	Organic Chemist rl yLab	1(0-1)
PHY-509	General Physics	2(2-0)
PHY-509-P	General Physics Lab	1(0-1)
CCE-501	Civics and Community Engagement	2(2-0)
ICT-501	Applications of Information and Communicat Technologies (ICT) (Computer Applications)	2(2-0)
ICT-501-P	Applications of Information and Communicat Technologies (ICT) (Computer Applications)	1(0-1)
QRE502	Quantitative Reasonin (Mathematics II)	3(3-0)
ENG-502	Expository Writing (EngHM)	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
CHEM-503	Physical Chemistry -I	2(2-0)
CHEM-503-P	Physical Chemistry -I Lab	1(0-1)
CHEM - 504	Fuel Chemistry	2(2-0)
CHEM-504-P	Fuel Chemistry Lab	1(0-1)
ENT-501	Entrepreneurship	2(2-0)
ICP-501	Ideology and Constitution of Pakistan	2(2-0)
CHEM-505	Environmental Chemistry	3(3-0)
CHEM-506	Nutritional Chemistry	3(3-0)

Course Code	Course Title	CreditHour
CHEM-507	Biochemistry	2(2-0)
CHEM-507-P	Biochemistry Lab	1(0-1)
CHEM-508	Analytical Chemistryl	2(2-0)
CHEM-508-P	Analytical Chemistryl Lab	1(0-1)
ZOO-510	Cell biology, genetics and evolutionInterdiciliplinary	2(2-0)
ZOO-510-P	Cell biology, genetics and evolution/Interdiciliplinary Lab	1(0-1)
BOT-509	Plant physiology and ecology/ Interdiciliplinary	2(2-0)
BOT-509-P	Plant physiology and ecology/ Interdiciliplinary Lab	1(0-1)
CHEM-509	Industrial Chemistry	2(2-0)
HIST-501	History	2(2-0)

Semester 5

Course Code	Course Title	CreditHour
CHEM-601	Inorganic ChemistryII	2(2-0)
CHEM-601-P	Inorganic Chemistr-JI Lab	1(0-1)
CHEM-602	Organic ChemistryII	2(2-0)
CHEM-602-P	Organic ChemistryII Lab	1(0-1)
CHEM-603	Physical ChemistryII	2(2-0)
CHEM-603-P	Physical ChemistryII Lab	1(0-1)
CHEM-604	Analytical ChemistryII	2(2-0)
CHEM-604-P	Analytical ChemistryII Lab	1(0-1)

Semester 6

Course Code	Course Title	Credit Hour
CHEM -605	Inorganic Chemistry -III	2(2-0)
CHEM -605-P	Inorganic Chemistry -III Lab	1(0-1)
CHEM -606	Organic Chemistry -III	2(2-0)
CHEM -606-P	Organic Chemistry -III Lab	1(0-1)
CHEM -607	Physical Chemistry-III	2(2-0)
CHEM -607-P	Physical Chemistry-III Lab	1(0-1)
BTH-608	Bionanotechnology	3(3-0)

Semester-7 (Specialization in Inorganic Chemistry)

Offer any four cou	rses other than field experience	
Course Code	Course Title	Credit Hour
CHEM -608	Coordination Chemistry	3(3-0)
CHEM -609	Pi- acceptor ligands and Inorganic Polymers	3(3-0)
CHEM -610	Inorganic Spectroscopy	3(3-0)
CHEM -611	Instrumental Methods	3(3-0)
CHEM -612	Inorganic Reaction Mechanism	3(3-0)
CHEM-613	Advance Separation Techniques	3(3-0)
CHEM-614		3(0-3)

Semester-7 (Specialization in Organic Chemistry)

Course Code	Course Title	Credit Hour
CHEM-615	Heterocyclic & Organometallic Compounds	3(3-0)
CHEM-616	Fundamentals of Organometallic Compounds	3(3-0)
CHEM-617	Reactive Intermediates	3(3-0)
CHEM-618	Organic reaction Mechanism	3(3-0)
CHEM-619	Organic SpectroscopyI	3(3-0)
CHEM-614	Field Experience/ Internship	3(0-3)

Semester-7 (Specialization in Physical Chemistry)

Offer any four courses other than field experience		
Course Code	Course Title	Credit Hour
CHEM -620	Electrochemistry & Statistical Thermodynamics	3(3-0)
CHEM -621	Polymer Chemistry	3(3-0)
CHEM -622	Quantum Chemistry & MoleculaSpectroscopy	3(3-0)
CHEM -623	Surface chemistry	3(3-0)
CHEM -624	Solution Chemistry	3(3-0)
CHEM-614	Field Experience/ Internship	3(0-3)

Semester-8 (Specialization in Inorganic Chemistry)

Course Code	Course Title	Credit Hour
CHEM-625	Organometallics Chemistry	3(3-0)
CHEM-626	Symmetry andMagnetochemsitry	3(3-0)
CHEM-627	Radio & Nuclearchemistry	3(3-0)
CHEM-628	Research Methodology	3(3-0)
CHEM-629	Elementary group theory	3(3-0)
CHEM-630	Alternate energy resources	3(3-0)
CHEM-631	Capstone project	3(0-3)

Semester-8 (Specialization in Organic Chemistry)

Course Code	Course Title	Credit Hour
CHEM-632	Natural Products	3(3-0)
CHEM-633	Organic Synthesis	3(3-0)
CHEM-634	Medicinal Chemistry	3(3-0)
CHEM-635	Organic Reaction Mechanism-II	3(3-0)
CHEM-636	Organic Spectroscopy-II	3(3-0)
CHEM-628	Research Methodology	3(3-0)
CHEM-631	Capstone project	3(0-3)

Semester-8 (Specialization in Physical Chemistry)

Offer any four	courses other than Capstone project	
Course Code	Course Title	CreditHour
CHEM-637	Chemical Kinetics	3(3-0)
CHEM-638	Reaction Dynamics	3(3-0)
CHEM-639	Radiation & Photochemistry	3(3-0)
CHEM-640	Nuclear Chemistry	3(3-0)
CHEM-641	Colloids & Surface Chemistry	3(3-0)
CHEM-628	Research Methodology	3(3-0)
CHEM-631	Capstone project	3(0-3)
	Total Credit Hours	131

MS Chemistry

Teaching Faculty
Prof. Dr. Mukhtarul Hassan (Professor)
Dr. Mazloom Shah
(Associate Professor & HOD)
Dr. Muhammad Imran Jamil
(Assistant Professor)

Program Summary

Duration:

2 Year

Number of Semesters Total Credit Hours

4 30

Career Prospects

- Chemical industry, Paper industry, Cement industry, Glass industry,
- Food industry, Agriculture industry and Pharmaceutical industry.
- Designing and properties of materials involved in energy and information technology
- Analyzing and model real world problems based on chemistry as well as other scientific principles and to solve such problems by utilizing their skills and tools.
- Nuclear energy reactor as a junior scientist in nuclear and experts in solar energy, wind energy and hydropower plants.
- Medical, Pharmaceutical 1 Sectors and Medical Laboratories
- PAEC Cancer hospitals as well as other medical institutes
- Teaching opportunities in schools, colleges and universities

SCHEME OF STUDIES

Semester 1

Course Tile Credit Hour Course Code 3(3-0) CHEM- 7xx Graduate Level Chemistry Course (Elective Course I) CHEM-7xx Graduate Level Chemistry Course (Elective 3(3-0) Course II) CHEM-7xx Graduate Level Chemistry Course (Elective 3(3-0) 3(3-0) CHEM-7xx Graduate Level Chemistry Course (Elective Course IV)

Semester 2

Course Code	Course Tile	Credit Hour
CHEM- 7xx	Graduate Level Chemistry Course (Elective Course I)	3(3-0)
CHEM- 7xx	Graduate Level Chemistry Course (Elective Course II)	3(3-0)
CHEM- 7xx	Graduate Level Chemistry Course (Elective Course III)	3(3-0)
CHEM- 7xx	Graduate Level Chemistry Course (Elective Course IV)	3(3-0)

Semester 3&4

Course Code	Course Title	Credit Hour
CHEM-763	Research and Thesis	6(0-6)
	Total Credit Hours:	30

Course Code	Course Title	Credit Hour
General Courses		l
CHEM-701	Research Methodologies	3(3-0)
CHEM-707	Chemical Education	3(3-0)
CHEM-708	Computational Chemistry	3(3-0)
CHEM-709	Statistical Data Handling and Mathematics	3(3-0)
CHEM-710	Assessment in Higher Education	3(3-0)
CHEM-711	Forensic Chemistry	3(3-0)
	Courses of Inorganic/Analytical Chemistry	
CHEM-702	Advanced Spectroscopic Techniques	3(3-0)
CHEM-703	Solid State Chemistry	3(3-0)
CHEM-704	Chemistry of Organometallics	3(3-0)
CHEM-705	Advanced Chromatographic Techniques	3(3-0)
CHEM-706	Inorganic electronic spectroscopy	3(3-0)
CHEM-712	Kinetics and Mechanisms of Inorganic Reactions	3(3-0)
CHEM-713	Bioanalytical Chemistry	3(3-0)
CHEM-714	Metal-based drugs	3(3-0)
CHEM-715	Nanochemistry	3(3-0)
CHEM-716	Green Chemistry Techniques	3(3-0)
CHEM-717	Thermal Analysis	3(3-0)
CHEM-718	Validation of Analytical Methods	3(3-0)
CHEM-719	Nuclear medicine	3(3-0)
CHEM-720	Food, pharmaceutical and Forensic analysis	3(3-0)
CHEM-721	Advanced Electroanalytical Techniques	3(3-0)
CHEM-722	Inorganic Material Chemistry	3(3-0)
CHEM-723	Characterization of Natural Antioxidants and Essential Oils	3(3-0)

Courses of Or	rganic Chemistry	
CHEM-724	Natural Products Chemistry	3(3-0)
CHEM-725	Synthetic Applications of Named Reactions	3(3-0)
CHEM-726	Advanced Spectroscopy	3(3-0)
CHEM-727	Advanced Heterocyclic Chemistry	3(3-0)
CHEM-728	Organic Polymer Chemistry	3(3-0)
CHEM-729	Pharmaceutical Chemistry	3(3-0)
CHEM-730	Supramolecular Chemistry	3(3-0)
CHEM-731	Phytochemical Techniques	3(3-0)
CHEM-732	Modern Trends in Asymmetric Synthesis	3(3-0)
CHEM-733	Advanced Stereochemistry	3(3-0)
CHEM-734	Pericyclic Chemistry	3(3-0)
CHEM-735	Organic Compounds containing S, P & Si	3(3-0)
CHEM-736	Dyes and Pigments	3(3-0)
CHEM-737	Physical Organic Chemistry	3(3-0)
Courses of Ph	ysical Chemistry	
CHEM-738	Polymers and Advanced Composite Materials	3(3-0)
CHEM-739	Advanced Quantum Chemistry	3(3-0)
CHEM-740	Advanced Photochemistry and Radiation Chemistry	3(3-0)
CHEM-741	Advanced Electrochemistry	3(3-0)
CHEM-742	Surface Chemistry	3(3-0)
CHEM-743	Advanced Statistical Thermodynamics	3(3-0)
CHEM-744	Biophysical Chemistry	3(3-0)
CHEM-745	Chemistry of Atmosphere	3(3-0)
CHEM-746	Advanced Solid State Chemistry and Characterization	3(3-0)
	Techniques	<i>5(5 0)</i>
CHEM-747	Advanced Reactions Dynamics	3(3-0)
CHEM-748	Nanomaterials	3(3-0)

Courses of Applied Chemistry		
CHEM-751	Environmental Impact of Chemical Industries	3(3-0)
CHEM-752	Nanomaterials and their applications	3(3-0)
CHEM-753	Chemistry of Dyes and Pigments	3(3-0)
CHEM-754	Pharmaceutical Chemistry	3(3-0)
CHEM-755	Advanced Polymer Chemistry	3(3-0)
CHEM-756	Agrochemicals	3(3-0)
CHEM-757	Physical Structure of Porous Materials	3(3-0)
CHEM-758	Industrial Process Chemistry	3(3-0)
CHEM-759	Advances in Petrochemical Industries	3(3-0)
CHEM-760	Coal Gasification and Liquefaction Alternative Fuels	3(3-0)
CHEM-761	Nuclear Fuel Processing and waste management	3(3-0)
CHEM-762	Alternative Energy Sources	3(3-0)

Note: Any other course according to the availability of facilities, expertise in the institution may be offered.

FACULTY OF SCIENCES

Department of Mathematics

Introduction

The importance of Mathematics is due to its increasing effectiveness in step with the new developments in sciences. The challenges of staying updated are absolutely essential. We are living in an era where digital system has become an integral part of our daily day life. Beyond the imagination and speculation, one can't comprehend the concepts in Engineering Sciences, Physics, Computer Sciences, Management Sciences and Social Sciences without Mathematics. The Department of Mathematics at GAUS was launched with the aim of preparing students and researchers in Mathematics with a width of knowledge of the other sciences and technologies. The department offers BS Mathematics, MS Mathematics and PhD Mathematics programs.

We have faculty members who are actively working in broad range of areas in pure applied and computational mathematics with high standards of research. The main purpose of this department is to strive to create a vibrant academic environment that nurtures critical thinking and problem-solving skills in mathematics and equip students with the knowledge and expertise to apply their mathematical skills across a variety of interdisciplinary domains, preparing them to tackle real-world challenges with confidence and creativity.

Objectives

The core objectives of this department are to:

- provide students with an in-depth understanding of advanced mathematical theories and concepts.
- cultivate exceptional problem-solving skills in students through rigorous coursework, seminars, and research projects.
- encourage students to contribute to mathematical literature by publishing research findings in reputable journals, presenting papers at conferences, and collaborating with other researchers in the field.
- engage students in collaboration with fellow researchers, both within their institution and in the broader mathematical community.
- develop essential professional skills in students that include critical thinking, time management, project planning, data analysis, presentation skills, and scientific writing.

Programs Being Offered

ADP Mathematics BS Mathematics

MS Mathematics PhD Mathematics

Message From HOD



Mathematics plays an increasingly central role in the advancement of science and technology, making it one of the most important fields of study today. As we witness rapid developments in various scientific disciplines, the relevance of mathematics grows in tandem. In our modern world, where digital systems are integrated into every aspect of our daily lives, the concepts behind Engineering Sciences, Physics, Computer Sciences, Management Sciences, and even Social Sciences would be unimaginable without the foundation provided by mathematics. It is the backbone that drives innovation, enabling us to understand and solve complex problems.

The Department of Mathematics at Grand Asian University, Sialkot, was established with the vision of preparing students and researchers who possess a deep understanding of mathematics as well as its applications across various domains.

We offer a comprehensive range of programs, including ADP, BS, MS and PhD in Mathematics, each designed to provide students with a solid foundation in both the fundamental and advanced aspects of the subject.

Our esteemed faculty members, who are experts in a wide range of mathematical disciplines, are committed to upholding the highest standards of teaching and research. They actively engage in research in areas such as pure, applied, and computational mathematics, ensuring that our students are exposed to the latest developments and discoveries. The department fosters a dynamic environment for mathematical research and collaboration, connecting scholars and researchers from around the globe.

At GAUS, we are dedicated to shaping the next generation of mathematicians, researchers, and professionals who will lead the way in solving the most pressing challenges of the future.

Prof. Dr. Akbar Azam PhD Mathematics



ADP Mathematics

Teaching Faculty
Prof. Dr. Akbar Azam
Head of Department
Dr. Aqeel Shahzad
(Assistant Professor)
Dr. Naimul Baasat
(Assistant Professor)
Dr. Aniqa (Assistant Professor)

Mr. Shafqat-ur-Rehman (Assistant Professor) Muhammad Bilal (Lecturer) Usman Younas (Lecturer) Saima Atif (Lecturer)

Program Summary

Duration:
Number of Semesters
Total Credit Hours

2 Year 4

66

Career Prospects

- Research and Development Organizations
- Economic Research Firms
- Market Research and Manufacturing Organizations
- Teaching Opportunities in Schools, Colleges and Universities
- Accountant, Actuary, Statistician, Economist and Market Researcher
- Quantitative Risk Analyst, Treasury Management Specialist and Demographer
- Defense Research and Development Organizations
- Pakistan Space Research Organizations
- Reputed Software Companies
- Banks and Insurance Companies
- Provincial Public Services and Federal Public Services

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
MTH-501	Calculus-I	3(3-0)
ENG-501	Functional English	3(3-0)
ICT-501	Applications of Information and	2(2-0)
	Communication Technologies	
ICT-501 P	Applications of Information and	1(0-1)
	Communication TechnologiesLab	
QRE-501	Quantitative ReasoningI	3(3-0)
ISL-501	Islamic Studies	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)

Semester 2

Course Code	Course Title	Credit Hour
MTH -502	Calculus -II	3(3-0)
ENG -502	Expository Writing	3(3 -0)
CCE -501	Civics and Community Engagement	2(2-0)
QRE -502	Quantitative Reasoning -II	3(3 -0)
ICP -501	Ideology and Constitution of Pakistan	2(2-0)
ENT -501	Entrepreneurship	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
PHY-513	Fundamental Physics	3(3-0)
MTH-506	Programming Languages for Mathematicians	3(3-0)
ENG-503	Creative Writing	2(2-0)
MTH-503	Calculus -III	3(3-0)
MTH-529	Classical Mechanics	3(3-0)
STS-501	Probability Distribution -I	3(3-0)

Course Code	Course Title	Credit Hour
MTH-524	Number Theory	3(3-0)
PHY-505	Heat and Thermodynamics	3(3-0)
MTH-513	Computing Tools for Mathematicians	3(3-0)
MTH-528	Linear Algebra-I	3(3-0)
MTH-521	Discrete Mathematics	3(3-0)
STS-502	Probability DistributionII	3(3-0)
THQ-501	Teaching of Holy Quran	Non credit
	Total Credit Hours	66

BS Mathematics

Teaching Faculty Dr. Ageel Shahzad (Assistant Professor) Dr. Naimul Baasat

Mr. Shafqat-ur-Rehman (Assistant Professor) Muhammad Bilal (Lecturer) Usman Younas (Lecturer) Saima Atif (Lecturer)

(Assistant Professor) Dr. Aniqa

(Assistant Professor)

Program Summary

Duration

Number of Semesters 8 **Total Credit Hours**

4 Year

126

Career Prospects

- Research and Development Organizations
- Economic Research Firms
- Market Research and Manufacturing Organizations
- Teaching Opportunities in Schools, Colleges and Universities
- Accountant, Actuary, Statistician, Economist and Market Researcher
- Quantitative Risk Analyst, Treasury Management Specialist and
- Defense Research and Development Organizations
- Pakistan Space Research Organizations
- Reputed Software Companies
- Banks and Insurance Companies
- Provincial Public Services and Federal Public Services

SCHEME OF STUDIES

Semester 1

CourseCode	Course Title	Credit Hour
MTH501	CalculusI	3(3-0)
ENG-501	Functional English	3(3-0)
ICT-501	Applications of Information and	2(2-0)
	Communication Technologies	
ICT-501P	Applications of Information and	1(0-1)
	Communication Technologliesb	
QRE501	Quantitative Reasonidg	3(3-0)
ISL-501	Islamic Studies	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)

Semester 2

Course Code	Course Title	Credit Hour
MTH -502	Calculus -II	3(3-0)
ENG -502	Expository Writing	3(3-0)
CCE -501	Civics and Community Engagement	2(2-0)
QRE -502	Quantitative Reasoning -II	3(3-0)
ICP -501	Ideology and Constitution of Pakistan	2(2-0)
ENT -501	Entrepreneurship	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
PHY-513	Fundamental Physics	3(3-0)
MTH-506	Programming Languages for Mathematicians	3(3-0)
ENG-503	Creative writing	2(2-0)
MTH-503	Calculus -III	3(3-0)
MTH-529	Classical Mechanics	3(3-0)
STS-501	Probability Distribution -I	3(3-0)

Semester 4

Course Code	Course Title	Credit Hour
MTH-524	Number Theory	3(3-0)
PHY-505	Heat and Thermodynamics	3(3-0)
MTH-513	Computing Tools for Mathematicians	3(3-0)
MTH-528	Linear Algebral	3(3-0)
MTH-521	Discrete Mathematics	3(3-0)
STS-502	Probability DistributionII	3(3-0)
THQ-501	Teaching of Holy Quran	Non credit

Semester 5

Course Code	Course Title	Credit Hour
MTH-602	Real Analysis-I	3(3-0)
MTH-640	Differential GeometryI	3(3-0)
MTH-622	Complex Analysis	3(3-0)
MTH-651	Numerical AnalysisI	3(3-0)
MTH-601	Linear Algebra-II	3(3-0)

Course Code	Course Title	Credit Hour
MTH-630	Group Theory	3(3-0)
MTH-603	Real Analysis -II	3(3-0)
MTH-607	Ordinary Differential Equations	3(3-0)
MTH-641	Differential Geometry -II	3(3-0)
MTH-652	Numerical Analysis -II	3(3-0)

Semester 7

Course Code	Course Title	Credit Hour
MTH-627	Functional Analysis	3(3-0)
MTH-613	Partial Differential Equations	3(3-0)
MTH-611	Vector and Tensor Analysis	3(3-0)
MTH-628	Set Topology	3(3-0)
MTH-6xx	Specialization Course I	3(3-0)

Semester 8

Course Code	Course Title	Credit Hour
MTH-634	Measure Theory	3(3-0)
MTH-643	Integral Equations	3(3-0)
MTH-615	Methods of Mathematical Physics	3(3-0)
MTH-631	Rings and Fields	3(3-0)
MTH-6xx	Specialization Course II	3(3-0)
	Total Credit Hours	126

MS Mathematics

Teaching Faculty

Dr. Aqeel Shahzad (Assistant Professor) Dr. Naimul Baasat (Assistant Professor)

Dr. Aniqa (Assistant Professor)

Mr. Shafqat-ur-Rehman (Assistant Professor)

Program Summary

Duration: 2 Year

Number of Semesters 4 Total Credit Hours 30

Career Prospects

- Research and Development Organizations
- Economic Research Firms
- Market Research and Manufacturing Organizations
- Teaching Opportunities in Schools, Colleges and Universities
- Accountant, Actuary, Statistician, Economist and Market Researcher
- Quantitative Risk Analyst, Treasury Management Specialist and Demographer
- Defense Research and Development Organizations
- Pakistan Space Research Organizations
- Reputed Software Companies
- Banks and Insurance Companies
- Provincial Public Services and Federal Public Services

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
MTH-701	Advanced Integral Equations	3(3-0)
	and Applications	
MTH-702	Advanced Functional Analysis	3(3-0)
MTH-xxx	Optional Course	3(3-0)
MTH-xxx	Optional Course	3(3-0)

Course Code	Course Title	Credit Hour
MTH-xxx	Optional Course	3(3-0)
MTH-xxx	Optional Course	3(3-0)
MTH-704	Fixed Point Theory and Applications	3(3-0)
MTH-709	Advanced Partial Differential	3(3-0)
	Equations	

Semester 3&4

Course Code	Course Title	Credit Hour
MTH-774	Research and Thesis	6(0-6)
	Total Credit Hours	30

PhD Mathematics

Teaching Faculty

Prof. Dr. Akbar Azam Head of Department

Dr. Aqeel Shahzad (Assistant Professor)

Dr. Naimul Baasat (Assistant Professor)

Dr. Aniqa (Assistant Professor)

Program Summary

Duration

3 Year

Number of Semesters

6

Total Credit Hours

30

Career Prospects

- Research and Development Organizations
- Economic Research Firms
- Market Research and Manufacturing Organizations
- Teaching Opportunities in Schools, Colleges and Universities
- Accountant, Actuary, Statistician, Economist and Market Researcher
- Quantitative Risk Analyst, Treasury Management Specialist and Demographer
- Defense Research and Development Organizations
- Pakistan Space Research Organizations
- Reputed Software Companies
- Banks and Insurance Companies
- Provincial Public Services and Federal Public Services

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
MTH-xxx	Optional course -I	3(3-0)
MTH-802	Advanced Theory of Semirings	3(3-0)
MTH-804	Advanced Partial Differential Equations	3(3-0)
	and Applications	

Course Code	Course Title	Credit Hour
MTH -xxx	Optional course -II	3(3-0)
MTH -805	Advanced Fixed Point theory and	3(3-0)
	Applications	
MTH -803	Advanced Mathematical Techniques	3(3-0)

Semester 3-4-5-6

Course Code	Course Title	Credit Hour
MTH -820	Research and Thesis	12(0 -12)
	Total Credit Hours	30

Course Code	Course Title	Credit Hour
MTH-701	Advanced Integral Equations and Applications	3(3-0)
MTH-702	Advanced Functional Analysis	3(3-0)
MTH-703	Advanced Mathematical Physics	3(3-0)
MTH-704	Fixed Point Theory and Applications	3(3-0)
MTH -705	Numerical Solution of ODEs	3(3-0)
MTH -706	Advanced Numerical Analysis	3(3-0)
MTH -707	Numerical Linear Algebra	3(3-0)

MTH-708	Optimization Theory	3(3-0)
MTH-709	Advanced Partial Differential Equations	3(3-0)
MTH-710	Variational Inequalities & Applications	3(3-0)
MTH-711	Integral Inequalities	3(3-0)
MTH-712	Numerical Solutions of PDEsI	3(3-0)
MTH-713	Perturbation Methods	3(3-0)
MTH-714	Rings and Modules	3(3-0)
MTH-715	Advanced Mathematical Statistics	3(3-0)
MTH-716	Time Series analysis and Forecasting	3(3-0)
MTH-717	Linear Statistics Models	3(3-0)
MTH-718	Advanced Topics in Graph Theory	3(3-0)
MTH-719	Commutative Algebra	3(3-0)
MTH-720	Advanced Topology-I	3(3-0)
MTH-721	Algebraic Topology	3(3-0)
MTH-722	Mathematical Analysis	3(3-0)
MTH-723	General Relativity	3(3-0)
MTH-724	Probability Models and Application	3(3-0)
MTH-725	Numerical Optimization	3(3-0)
MTH-726	Introductory Cryptography	3(3,0)
MTH-727	Complexity Theory	3(3-0)
MTH-728	Finite Fields	3(3-0)
MTH-729	Fuzzy Logic and Applications	3(3-0)
MTH-730	Fuzzy Probability and Statistics	3(3-0)
MTH-731	Topology	3(3-0)
MTH-732	Geometric Function Theory	3(3-0)
MTH-733	Advanced Convex Analysis	3(3-0)
MTH-734	Advanced Modern Algebra with Applications	3(3-0)
MTH-735	Theory of Groups	3(3-0)
MTH-736	Representation Theory of Finite Groups	3(3-0)
MTH-737	Field Extensions and Galois Theory	3(3-0)
MTH-738	Advanced Topology II	3(3-0)
MTH-740	Differential Subordinations and Applications	3(3-0)
MTH-741	Convolutions in Geometric Function Theory	3(3-0)
MTH-742	Semigroup Theory	3(3-0)
MTH-743	Further Algebraic Geometry	3(3-0)
MTH-744	Lattice Boltzmann Transport Method	3(3-0)
MTH-746	Homological Algebra	3(3-0)
MTH-747	Relativistic Theory of Black Holes	3(3-0)
MTH-748	Classical Theory of Fields	3(3-0)
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MTH-803	Advanced Mathematical Techniques	3(3-0)
MTH-804	Advanced Partial Differential Equations and Applications	3(3-0)
MTH-805	Advanced Fixed Point theory and Applications	3(3-0)
MTH-806	Mathematical Techniques for B.V Problems	3(3-0)
MTH-807	Non-Newtonian Fluid Mechanics	3(3-0)
MTH-808	Spectrum Methods in Fluid Dynamics	3(3-0)
MTH-809	Topics in Applied Mathematics	3(3-0)
MTH-810	Topics in Pure Mathematics	3(3-0)
MTH-811	Topics in Numerical Mathematics	3(3-0)
MTH-812	Simple Linear Regression Model	3(3-0)
MTH-813	Multiple Linear Regression Model	3(3-0)
MTH-814	Topics in Mathematics Statistics	3(3-0)
MTH-815	Topics in Applied Commutative Algebra	3(3-0)
MTH-816	Advanced Topics in Graph Valuation Theory	3(3-0)
MTH-817	Numerical Methods for Incompressible Flows	3(3-0)
MTH-818	Topics in Graph Valuations	3(3-0)
MTH-819	Numerical Methods for Variational Inequalities	3(3-0)
MTH-820	PhD Research and Thesis	12(0-12)

FACULTY OF SCIENCES

Department of Social Sciences

Introduction

The Department of Social Sciences warmly welcomes the students in this prestigious institution. This university is committed to provide a healthy and supportive environment for quality education with esteemed faculty members having experiences from renowned institutes. The Department of Social Sciences offers a comprehensive curriculum in English, Psychology, Sociology, Islamic Studies and Education, designed to equip learners with critical thinking and analytical skills, essential for today's world. Your time at GAUS and in the Social Sciences Department is both meaningful and pleasant.

The Department of Social Sciences empowers our students to understand human behavior, social structures and relationships by offering undergraduate programs in English, Psychology, Sociology, Islamic Studies, Education and Sports & Rehabilitation. Our expert faculty, cutting-edge curriculum, and research opportunities equip undergraduates for successful careers in social services, education and research organizations.

Objectives

The core objectives of this department are to:

- produce well-rounded young professionals with sound and deep knowledge of Linguistics, Literature, Psychology, Sociology, Islamic Studies and Education.
- encourage the development of communication and presentation skills.
- develop skills and scientific approach to understand behavior, social norms and values and social problems in society.
- offer knowledge of basic Islamic Sciences such as al-Quran, al-Hadith, al-Fiqh, Islamic History, Islamic Thought, Seerah, Islamic Culture and Civilization and to create better understanding of Islam and contemporary challenges faced by the Muslim Ummah

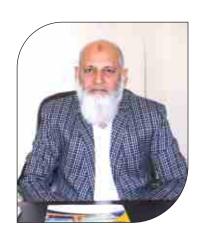
Programs Being Offered

ADP English ADP Sociology

ADP Psychology ADP Sports and Rehabilitation

ADP Education ADP Islamic Studies

Message From HOD



The Department of Social Sciences warmly welcomes to the students in our prestigious institution. This university is committed to provide a healthy and supportive environment for quality education, guided by our esteemed faculty members who are having experiences of renowned institutes. Our programs offer a comprehensive curriculum in English, Psychology, Sociology, Islamic Studies and Education, designed to equip you with critical thinking and analytical skills essential for today's world. Upon completing your degree, you surely will emerge as a skilled and impactful professionals instilled with all the competitive capabilities required to be the most useful persons in your fields. The Department of Social Sciences empowers our students to understand human behavior, social structures and relationships by

offering undergraduate programs in English, Psychology, Sociology, Islamic Studies, Education and Sports & Rehabilitation. Our expert faculty, cutting-edge curriculum, and research opportunities equip undergraduates for successful careers in social services, education and research organizations.

Prof. Dr. Iqbal Butt PhD English



ADP English

Teaching Faculty

Dr. Muhammad Iqbal Butt

(Head of Department and Professor)

Dr. Muhammad Waleed Butt (Assistant Professor)

Hafiz Muhammad Qasim (Lecturer)

Ms Bushra Shahid (Lecturer)

Ms Khadija Zain

Nadia Anum

Program Summary

Admission Duration Fall & Spring

2 Years

Total Semesters 4
Total Credit Hours 66

Career Prospects

- · English Teacher/ Lecturer
- · Writer/ Journalist
- · Copy writer
- · Language Interpreter/Translator
- · Researcher (Literary/Linguistic)
- · Content Writer

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
ENG -501	Functional English	3 (3 - 0)
ICT -501	Applications of Information & Communication Technologies	2(2-0)
ICT-501 P	Applications of Information & Communication Technologies Lab	1(0-1)
HIS -501	History	2 (2 -0)
PSY-500	Introduction to Psychology	2 (2 - 0)
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)
ELL -501	Introduction to Linguistics	3 (3-0)

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
ES -501	Introduction to Environmental	3 (3-0)
	Science	
CCE -501	Civics & Community	2 (2-0)
	Engagement	
ISL-501	Islamic Studies	2 (2-0)
ENT-501	Entrepreneurship	2 (2-0)
ELL-502	Introduction to Literature	3 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
QRE-501	Quantitative ReasoningI	3 (3-0)
EDU-501	Foundations of Education	3 (3-0)
ELL-503	Classical Poetry	3 (3-0)
ELL-504	Prose	3 (3-0)
ELL-505	Applied Linguistics	3 (3-0)
ELL-506	Sociolinguistics	3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative ReasoningII	3 (3-0)
POL-501	Introduction to Political Science	3 (3-0)
ELL-507	Classical Drama	3 (3-0)
ELL-508	Short Fictional Narratives	3 (3-0)
ELL-509	Morphology	3 (3-0)
ELL- 510	Syntax	3 (3-0)
THQ-501	Teaching of Holy Quran	0
	Total Credit Hours	66

ADP Psychology

Teaching Faculty
Ms Pulwasha Arif (Lecturer)
Ms Zainab Najam (Lecturer)

Program Summary

Admission
Duration
Total Semesters
Total Credit Hours

Fall & Spring 2 Years

1 66

Career Prospects

- · Behavioral Therapist
- · Substance Abuse Counselor
- · Teacher/Educator
- · Youth Counselor

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3(3-0)
ICT-501	Applications of Information & Communication Technology	2(2-0)
ICT-501P	Applications of Information & Communication Technololgayb	1(0-1)
SOC-501	Introduction t8ociology	2(2-0)
ICP-501	Ideology of Pakistan studies and Constitu	2(2-0)
HIS-501	Introduction to History	2(2-0)
PSY-500	Introduction to Psychology	3(3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG -502	Expository Writing	3(3-0)
ES-501	Introduction to Environmental	3(3-0)
	Science	
ES-501	Entrepreneurship	2(2-0)
CCE -501	Civics & Community Engagement	2(2-0)
ISL-501	Islamic Studies	2(2-0)
PSY - 502	Introduction to Psychology -II	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
ANT-501	Introduction to Anthropology	3(3-0)
QRE-501	Quantitative Reasoning-I	3(3-0)
PSY- 503	Gender issues in Psychology	3(3-0)
PSY-504	Applied Psychology	3(3-0)
PSY-505	History of Psychology	3(3-0)
PSY -506	Educational Psychology	3(3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasoning II	3(3-0)
POL-501	Introduction to Political Science	3(3-0)
PSY-507	Moral development	3(3-0)
PSY-508	Mental Health & Psychopathology	3(3-0)
PSY-509	Health Psychology	3(3-0)
PSY-510	Developmental Psychology	3(3-0)
THQ-501	Teaching of Holy Quran	0
	TotalCredit Hours	66

ADP Sociology

Teaching Faculty
Ms Iram Shabbir (Lecturer)
Ms Nadia Anam (Lecturer)
Ms Maham Razzaq (Lecturer)

Program Summary

Admission Fall & Spring Duration 2 Years

Total Semesters 4 Total Credit Hours 66

Career Prospects

- · Social Researcher
- · Policy Analyst
- · Community Organizer
- · Urban Planner
- · Social Worker
- · Teacher/Educator

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3(3-0)
ICT-501	Applications of Information & Communicatio Technologies	2(2-0)
ICT-501 P	Applications of Information & Communicatio Technologies Lab	1(0-1)
HIS-501	History	2(2-0)
PSY-500	Introduction to Psychology	2(2-0)
ICP-501	Ideology & Constitution of Pakistan	2(2-0)
SOC-501	Introduction to Sociology	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
QRE-501	Quantitative Reasoning	3 (3-0)
EDU-501	Foundations of Education	3 (3-0)
SOC-503	Development of Social thought	3 (3-0)
SOC-504	Sociological TheoryI	3 (3-0)
SOC-505	Political Sociology	3 (3-0)
SOC- 506	Urban Sociology	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
ES-501	Introduction to Environmental Scie	3 (3-0)
CCE501	Civics & Community Engagement	2 (2-0)
ISL-501	Islamic Studies	2 (2-0)
ENT-501	Entrepreneurship	2 (2-0)
SOG-502	Introduction to SocioleHy	3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasoning-II	3 (3-0)
POL-501	Introduction to Political Science	3 (3-0)
SOC-507	Sociological Theory-II	3 (3-0)
SOC-508	Gender Studies	3 (3-0)
SOC-509	Criminology	3 (3-0)
SOC-510	Rural Sociology	3 (3-0)
THQ-501	Teaching of Holy Quran	0
	Total Credit Hours	66

ADP Education

Teaching Faculty
Ms Huma Bilal (Lecturer)
Ms Khadija Zain (Lecturer)

Program Summary

Admission
Duration
Total Semesters
Total Credit Hours

Fall & Spring 2 Years 4 66

Career Prospects

- · Teacher/Educator
- · Curriculum Developer
- · Educational Consultant
- · School Administrator

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)
ICT-501	Applications of Information & Communication Technologies	2(2-0)
ICT-501 P	Applications of Information & Communication Technologi&ab	1(0-1)
HIS-501	History	2 (2-0)
PSY-500	Introduction to Psychology	2 (2-0)
ICP- 501	Ideology & Constitution of Pakistan	2 (2-0)
EDU-501	Basics of Education	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
ES-501	Introduction to Environmental Science	3 (3-0)
CCE -501	Civics & Community Engagement	2 (2-0)
ISL-501	Islamic Studies	2 (2-0)
ENT-501	Entrepreneurship	2 (2-0)
EDU-502	Introduction to Physical Education	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
QRE-501	Quantitative ReasoningI	3 (3-0)
ANT-501	Introduction to Anthropology	3 (3-0)
EDU-503	Introduction to Special Education	3 (3-0)
EDU-504	Teaching of Social Studies	3 (3-0)
EDU-504	Child Development	3 (3-0)
EDU-505	Teaching Profession	3 (3-0)

Course Cod	Course Title	Credit Hour
QRE502	Quantitative Reason-Ing	3 (3-0)
POL501	Introduction to Political Sci	3 (3-0)
EDU506	Classroom Management	3 (3-0)
EDU507	Environmental Education	3 (3-0)
EDU508	Art, Craft & Calligraphy	3 (3-0)
EDU509	Teaching Literacy Skills	3 (3-0)
THQ501	Teaching of Holy Quran	0
7	TotalCredit Hours	66

ADP Islamic Studies

Teaching Faculty
Dr. Imtiaz Ahmad
(Associate Professor)
Mr. Muhammad Asif (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 Years
Total Semesters 4
Total Credit Hours 66

Career Prospects

- ·Islamic Educator/Teacher
- ·Islamic Scholar/Researcher
- ·Community Leader/ Activist
- ·Islamic Counselor
- ·Writer/Journalist (Islamic Publication)

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
ENG501	Functional English	3 (3-0)
ICT-501	Introduction to Computer Applications	2(2-0)
ICT-501P	Introduction to Computer Applications	1(0-1)
HIS-501	History	2 (2-0)
PSY-500	Introduction Posychology	2 (2-0)
ICP-501	Ideology & Constitution of Pakistan	2 (2-0)
ISL-501	Arabic Language	3 (3-0)

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3(3-0)
ES-501	Introduction to Environmental Science	3 (3-0)
CCE-501	Civics & Community Engagement	2 (2-0)
ISL-501	Islamic Studies	2 (2-0)
ENT-501	Entrepreneurship	2 (2-0)
ISL-502	Arabic Language-II	3 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
QRE-501	Quantitative Reasoning-I	3 (3-0)
EDU- 501	Foundations of Education	3 (3-0)
ISL- 503	Textual Study of Holy Quran	3 (3-0)
ISL-504	Arabic Language-III	3 (3-0)
ISL- 505	Research Methods in Islamic Studies-I	3 (3-0)
ISL-506	Introduction to Fiqh	3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasonin 4	3 (3-0)
POL- 501	Introduction to Political Science	3 (3-0)
ISL- 507	Textual Study of Fiqh	3 (3-0)
ISL- 508	Hadith–I	3 (3-0)
ISL- 509	Research Methods in Islam&tudiesII	3 (3-0)
ISL-510	Religion and Politics	3 (3-0)
THQ-501	Teaching of Holy Quran	00
	TotalCredit Hours	66

FACULTY OF SCIENCES

Department of Computer Science & Software Engineering

Introduction

The Department of Computer Science and Software Engineering feels honored to focus on qualitative growth of students through devising innovative, realistic, market-oriented challenges and correct solutions to real life problems. At present three level programs are offered to the students. Masters in Computer and Data Science, Bachelor degrees in Computer Science and Software Engineering and Associate degrees programs in all fields of computing are available. The Department of Computer Science and Software Engineering is established with top-of-the-line infrastructure having state of the art computer labs, multimedia equipped temperature conditioned class rooms, highly qualified faculty, HEC approved curricula and programs being accredited from NCEAC. Our students are bringing laurels by winning competitions and refining skills through technological clubs, like, Free Lancing, Digital Marketing, Functional and Visual front and back-end programming, Developing Android Applications and Games, expertise in Artificial Intelligence and cyber security. The Department of Computer Science & Software Engineering works with a clear mission to provide the country with trained resources for developing high-tech products and services and to exercise commercialization through the incubation of high-tech companies.

Objectives

The core objectives of this department are to:

- identify, analyze, and solve the problems.
- produce the best quality computer scientists, IT professionals, and researchers by providing state-of-the-art training, hands-on experience, and a healthy research environment.
- collaborate with industry and academia around the globe to achieve quality technical education and excellence in research through active participation of all the stakeholders.
- exercise commercialization through the incubation of high-tech companies.

Programs Being Offered

ADP Information Technology ADP Software Development

ADP Cyber Security ADP in Web Design & Development

ADP Data Science BS Computer Science

ADP Data Base Management Science BS Software Engineering

ADP Artificial Intellegence MS Computer Science

ADP Computer Science MS Data Science

Message From HOD



The Department of Computer Science & Software Engineering at Grand Asian University, Sialkot, is driven by a clear mission: to equip the students with highly skilled professionals capable of developing cutting-edge products and services while fostering commercialization through the incubation of high-tech companies. Through a robust combination of degree programs, research initiatives, and innovative development, our graduates emerge as highly competent professionals and entrepreneurs, ready to make a significant societal impact.

We believe in fostering a culture of innovation and intellectual curiosity, empowering students to become agile learners and critical thinkers. By equipping them with a strong foundation in theoretical concepts, hands-on practical skills, and exposure to the latest technologies, we prepare our graduates to excel in the competitive landscape of the 21st century.

As prospective students of this dynamic and rapidly evolving domain, I warmly welcome you to join us. I urge you to embrace this journey with vigor, determination, and a commitment to achieving excellence. The field of computer science and software engineering demands adaptability, creativity, and relentless pursuit of knowledge—traits that we cultivate in our students to ensure their success.

Together, let us shape the future of technology and innovation, leaving a legacy of progress and excellence.

Prof. Brig. Dr. Tanvir Ahmad PhD Computer Science Sitara-e-Imtiaz (M)



ADP Information Technology (IT)

Teaching Faculty

Dr. Sohaib Latif (Associate Professor)

Dr. Sajid Khan (Assistant Professor)

Mr. Muzamal Arif (Lecturer)

Miss Irum Ashraf (Lecturer)

Mr. Muhammad Sohaib (Lab Engineer)

Mr. Ukasha Omer (Lab Engineer)

Miss Ayesha Amajd (Lab Engineer)

Shared Faculty from other Departments

Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Fall & Spring Admission

Duration 2 Years

Total Semesters: Total Credit hours: 72

Career Prospects

- ·IT project managers
- ·Software Engineers
- ·Computer Programmers
- · Applications Developers · Web Designers & Developers
- ·Database Administrators & Data analysts
- Computer Network Architectures & Network Administrators
- Information Security Analysts
- ·Cybersecurity Specialists
- ·Video game developer
- ·Artificial Intelligence Experts
- Computer and Information Research Scientists
- ·Cloud computing experts
- ·Computer forensics experts and applications developers
- ·Computer Science Teacher
- ·IT consultants
- Network Engineers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	4 (3-3)
ICT-501	Application of Information & Communication Technologies	3 (2-3)
QRE -501	QR 1 (Discrete Structures)	3 (3-0)
QRE -502	QR 2 (Calculus and Analytic Geometry)	3 (3-0)
ENG-501	Functional English	3 (3-0)
CS4-501	Programming Fundamentals	3 (3-3)

Course Code	Course Title	Credit Hour
CS4 -502	Object Oriented Programming	4 (3-3)
CS4 -503	Database Systems	4 (3-3)
CS4 -504	Digital Logic Design	3 (2-3)
CS2 -501	Linear Algebra	3 (3-0)
ENG -502	Expository Writing	3 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	4 (3-3)
CS4-506	Information Security	3 (2-3)
CS4-507	Artificial Intelligence	3 (2-3)
CS4-508	Computer Networks	3 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly Language	3 (2-3)

Course Code	Course Title	Credit Hour
CS6-532	System & Network Administration	3 (1-6)
CS6-601	Web Technologies	3 (1-6)
CS6-617	Advanced Data Management	3 (1-6)
CS5-603	HCI & Computer Graphics	3 (1-6)
CS6-606	Cyber Security	2 (0-6)
ISL-501	Islamic Studies	2 (2-0)
ICP-601	Ideology and Constitution of Pakistan	2 (2-0)
ENT-601	Entrepreneurship	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
	TotalCradit hours	72

ADP Cyber Security (CyS)

Teaching Faculty

Dr. Sohaib Latif (Associate Professor)

Dr. Sajid Khan (Assistant Professor)

Miss Sidra Shahzadi (Lecturer)

Miss Maleeha Zainab (Lecturer)

Mr. Muhammad Sohaib (Lab Engineer)

Mr. Ukasha Omer (Lab Engineer)

Miss Ayesha Amajd (Lab Engineer)

Shared Faculty from other Departments

Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Admission Fall & Spring

Duration 2 Years

Total Semesters: 4 Total Credit hours: 72

Career Prospects

- ·Information Security
 Analysts
- ·Cybersecurity Specialists
- ·Video game developer
- ·Artificial Intelligence Experts
- ·Computer and Information

Research Scientists

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	4 (3-3)
ICT-501	Application of Information & Communication Technologies	3 (2-3)
QRE-501	QR 1 (Discrete Structures)	3 (3-0)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3 (3-0)
ENG-501	Functional English	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
CS4-502	Object Oriented Programming	4 (3-3)
CS4-503	Database Systems	4 (3-3)
CS4-504	Digital Logic Design	3 (2-3)
CS2-501	Linear Algebra	3 (3-0)
ENG-502	Expository Writing	3 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	4 (3-3)
CS4-506	Information Security	3 (2-3)
CS4-507	Artificial Intelligence	3 (2-3)
CS4-508	Computer Networks	3 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly	3 (2-3)
CS4-310	Language	

Course Code	Course Title	Credit Hour
CS6-606	Cyber Security	3 (1-6)
CS6-527	Wireless and Mobile Security	2 (0-6)
CS6-528	Network Security	3 (1-6)
CS6-529	Secure Software Design and	3 (1-6)
	Development	
CS6-530	Digital Forensics	3 (1-6)
ISL-501	Islamic Studies	2 (2-0)
ICP-601	Ideology and Constitution of Pakistan	2 (2-0)
ENT-601	Entrepreneurship	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
Total Credit Hours		72

ADP Data Science (DS)

Teaching Faculty
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Miss Mashal Wasique (Lecturer)
Miss Tayyaba Khalid (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Ukasha Omer (Lab Engineer)
Miss Ayesha Amajd (Lab Engineer)
Shared Faculty from other Departments
Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Admission Fall & Spring
Duration 2 Years
Total Semesters: 4
Total Credit hours: 72

Career Prospects

- ·IT project managers
- ·Computer Programmers
- ·Applications Developers
- ·Web Designers & Developers
- ·Database Administrators & Data analysts
- ·Video game developer
- ·Artificial Intelligence Experts
- ·Computer and Information Research Scientists
- ·Cloud computing experts
- ·Network Engineers

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	3-1 (3-3)
ICT-501	Application of Information & Communication Technologies	2-1 (2-3)
QRE-501	QR 1 (Discrete Structures)	3-0 (3-0)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3-0 (3-0)
ENG-501	Functional English	3-0 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
CS4-502	Object Oriented Programming	3-1 (3-3)
CS4-503	Database Systems	3-1 (3-3)
CS4 - 504	Digital Logic Design	2-1 (2-3)
CS2 -501	Linear Algebra	3-0 (3-0)
ENG-502	Expository Writing	3-0 (3-0)
CS4-502	Object Oriented Programming	3-1 (3-3)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	3-1 (3-3)
CS4-506	Information Security	2-1 (2-3)
CS4-507	Artificial Intelligence	2-1 (2-3)
CS4-508	Computer Networks	2-1 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly Language	2-1 (2-3)

Course Code	Course Title	Credit Hour
CS6-619	Introduction to Data Science	2 (0-6)
CS6-522	Machine Learning	3 (1-6)
CS5-513	Data Mining	3 (1-6)
CS6-531	Data Visualization	3 (1-6)
CS6-523	ANN & Deep Learning	3 (1-6)
ISL-501	Islamic Studies	2 (2-0)
ICP - 601	Ideology and Constitution of Pakistan	2 (2-0)
ENT-601	Entrepreneurship	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
Total		72

ADP Database Management Science

Teaching Faculty
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Miss Sidra Shahzadi (Lecturer)
Miss Mashal Wasique (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Ukasha Omer (Lab Engineer)
Miss Ayesha Amajd (Lab Engineer)
Shared Faculty from other Departments
Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Admission Fall & Spring
Duration 2 Years
Total Semesters: 4

Total Credit hours: 72

Career Prospects

- ·Computer Programmers
- ·Applications Developers
- ·Database Administrators & Data analysts
- ·Computer Network Architectures & Network Administrators
- ·Computer and Information Research Scientists
- ·Cloud computing experts
- ·IT consultants
- ·Network Engineers

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
CS4501	Programming Fundamentals	4 (3-3)
ICT-501	Application of Information & Communication Technologies	3 (2-3)
QRE-501	QR 1 (Discrete Structures)	3 (3-0)
QRE-502	QR 2 (Calculus an Analytic Geometry)	3 (3-0)
ENG-501	Functional English	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
CS4-502	Object Oriented Programming	4 (3-3)
CS4-503	Database Systems	4 (3-3)
CS4-504	Digital Logic Design	3 (2-3)
CS2-501	Linear Algebra	3 (3-0)
ENG-502	Expository Writing	3 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4505	Data Structures	4 (3-3)
CS4506	Information Security	3 (2-3)
CS4507	Artificial Intelligence	3 (2-3)
CS4508	Computer Networks	3 (2-3)
CS4509	Software Engineering	3 (3-0)
CS4510	Computer Organization & Assembly Language	3 (2-3)

Course Code	Course Title	Credit Hour
CS6-547	Fundamentals of Front -End	2 (0-6)
C30-347	Development	2 (0-0)
CS6-548	Database Programming using Oracle 11g	3 (1-6)
CS6-549	Web Based Database Applications	3 (1-6)
CS6-550	Operating Systems	3 (1-6)
CS6-551	Introduction to Database Administration	3 (1-6)
ISL-501	Islamic Studies	2 (2-0)
ICP601	Ideology and Constitution of Pakistan	2 (2-0)
ENT-601	Entrepreneurship	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
	Total Credit Hours	72

ADP Artificial Intelligence

Teaching Faculty
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Miss Irum Ashraf (Lecturer)
Miss Maleeha Zainab (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Ukasha Omer (Lab Engineer)
Miss Ayesha Amajd (Lab Engineer)
Shared Faculty from other Departments
Mr. Murtaza Ali Usama (Department
Coordinator)

Program Summary

Admission Fall & Spring
Duration 2 Years
Total Semesters: 4
Total Credit hours: 72

Career Prospects

- ·Artificial Intelligence Experts
- ·Computer and Information Research
- Scientists
- ·Cloud computing experts
- ·Computer forensics experts and applications developers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour	Course Cod	Course Title	Credit Hou
CS4-501	Programming Fundamentals	4 (3-3)	CS4502	Object Oriented Programm	4 (33)
ICT-501	Application of Information & Communication Technologies	3 (2-3)	C S 45 0 3	Database Systems	4 (33)
QRE-501	QR 1 (Discrete Structures)	3 (3-0)	CS4504	Digital Logic Design	3 (23)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3 (3-0)	CS2501	Linear Algebra	3 (30)
ENG-501	Functional English	3 (3-0)	ENG502	Expository Writing	3 (30)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	4 (3-3)
CS4-506	Information Security	3 (2-3)
CS4-507	Artificial Intelligence	3 (2-3)
CS4-508	Computer Networks	3 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly Language	3 (2-3)

Course Code	Course Title	Credit Hour
CS5-513	Data Mining	3 (1-6)
CS6-522	Machine Learning	3 (1-6)
CS6-523	ANN & DL	3 (1-6)
CS5-606	Parallel and Distributed Computing	3 (1-6)
CS6-525	Programming for AI	2 (0-6)
ISL-501	IslamicStudies	2 (2-0)
ICP501	Ideology and Constitution of Pakistar	2 (2-0)
ENT-501	Entrepreneurship	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
	TotalCredt Hours	72

ADP Computer Science

Teaching Faculty Dr. Sohaib Latif (Associate Professor) Dr. Sajid Khan (Assistant Professor)

Mr. Rai Samee Ullah (Lecturer)

Mr. Muzamal Arif (Lecturer)

Mr. Muhammad Sohaib (Lab Engineer)

Mr. Ukasha Omer (Lab Engineer)

Miss Ayesha Amajd (Lab Engineer) **Shared Faculty from other Departments**

Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Fall & Spring Admission

Duration 2 Years

Total Semesters: Total Credit hours: 72

Career Prospects

- ·IT project managers
- ·Computer Programmers
- ·Applications Developers
- ·Web Designers & Developers
- ·Database Administrators & Data analysts
- ·Computer Network Architectures & Network

Administrators

- ·Information Security Analysts
- ·Computer forensics experts and applications
- ·Computer Science Teacher
- ·IT consultants
- ·Network Engineers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour	Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	3-1 (3-3)			
ICT 501	Application of Information &	2.1.(2.2)	CS4-502	Object Oriented Programming	3-1 (3-3)
ICT-501	Communication Technologies	2-1 (2-3)	CS4-503	Database Systems	3-1 (3-3)
QRE-501	QR 1 (Discrete Structures)	3-0 (3-0)	CS4-504	Digital Logic Design	2-1 (2-3)
ODE 502	QR 2 (Calculus and Analytic	2.0.(2.0)		8 8	. ,
QRE-502	Geometry)	3-0 (3-0)	CS2-501	Linear Algebra	3-0 (3-0)
ENG-501	Functional English	3-0 (3-0)	ENG-502	Expository Writing	3-0 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	3-1 (3-3)
CS4-506	Information Security	2-1 (2-3)
CS4-507	Artificial Intelligence	2-1 (2-3)
CS4-508	Computer Networks	2-1 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization &	2-1 (2-3)
	Assembly Language	2-1 (2-3)

Course Code	Course Title	Credit Hour
CS5-502	Elective 1 (Advanced Database Lab)	1-2 (1-6)
CS6-601	Elective 2 (Web Technologies Lab)	1-2 (1-6)
CS6-602	Elective 3 Mobile Application Developme Lab)	1-2 (1-6)
CS6-603	Elective 4 Advanced Programming Lab)	1-2 (1-6)
CS6-606	Elective 5 Cyber Security Lab)	0-2 (0-6)
ISL-501	Islamic Studies	2-0 (2-0)
ICP - 601	Ideology and Constitution of Pakistan	2-0 (2-0)
ENT-601	Entrepreneurship	2-0 (2-0)
THQ-501	Teaching ofHoly Quran	0 (2-0)
	TotalCredit Hours	72

ADP Software Development

Teaching Faculty
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Mr. Rai Samee Ulah (Lecturer) Mr. Muzamal Arif (Lecturer) Miss Mashal Wasique (Lecturer) Mr. Muhammad Sohaib (Lab Engineer) Mr. Ukasha Omer (Lab Engineer) Miss Ayesha Amajd (Lab Engineer) **Shared Faculty from other Departments** Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary

Admission Fall & Spring 2 Years Duration Total Semesters: Total Credit hours: 72

Career Prospects

- · Software Engineers
- · Computer Programmers
- · Database Administrators & Data
- · Computer Network Architectures & Network Administrators
- · Information Security Analysts
- · Computer forensics experts and applications developers
- · Computer Science Teacher
- · IT consultants
- · Network Engineers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	3-1 (3-3)
ICT-501	Application of Information & Communication Technologies	2-1 (2-3)
QRE-501	QR 1 (Discrete Structures)	3-0 (3-0)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3-0 (3-0)
ENG-501	Functional English	3-0 (3-0)

Course Code	Course Title	Credit Hour
CSA 502	Object Oriented	3-1 (3-3)
CS4-502	Programming	3-1 (3-3)
CS4-503	Database Systems	3-1 (3-3)
CS4-504	Digital Logic Design	2-1 (2-3)
CS2-501	Linear Algebra	3-0 (3-0)
ENG-502	Expository Writing	3-0 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	3-1 (3-3)
CS4-506	Information Security	2-1 (2-3)
CS4-507	Artificial Intelligence	2-1 (2-3)
CS4-508	Computer Networks	2-1 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly Language	2-1 (2-3)

Course Code	Course Title	Credit Hour
CS6-544	Advance Web Development	1-2 (1-6)
CS4-506	Elective Information Security	1-2 (1-6)
CS6-543	Formal Methods in Software Engineering	1-2 (1-6)
CS6-545	Stochastic Processes	1-2 (1-6)
CS6-546	Software Project	0-2 (0-6)
ISL-501	Islamic Studies	2-0 (2-0)
ICP-601	Ideology and Constitution of Pakistan	2-0 (2-0)
ENT-601	Entrepreneurship	2-0 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
	Total Credit Hours	72

ADP Web Design & Development

Teaching Faculty
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Miss Mashal Wasique (Lecturer)
Miss Tayyaba Khalid (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Ukasha Omer (Lab Engineer)
Miss Ayesha Amajd (Lab Engineer)
Shared Faculty from other Departments
Mr. Murtaza Ali Usama (Department
Coordinator)

Program Summary

Total Credit hours: 72

Admission Fall & Spring
Duration 2 Years
Total Semesters: 4

Career Prospects

- ·Applications Developers
- ·Web Designers &
- Developers
- ·Database Administrators &
- Data analysts
- ·Computer Network

Architectures &

Network Administrators

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	3-1 (3-3)
ICT-501	Application of Information & Communication Technologies	2-1 (2-3)
QRE-501	QR 1 (Discrete Structures)	3-0 (3-0)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3-0 (3-0)
ENG-501	Functional English	3-0 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
CS4-502	Object Oriented Programming	3-1 (3-3)
CS4-503	Database Systems	3-1 (3-3)
CS4-504	Digital Logic Design	2-1 (2-3)
CS2-501	Linear Algebra	3-0 (3-0)
ENG-502	Expository Writing	3-0 (3-0)

Semester 3

Course Code	Course Title	Credit Hour
CS4-505	Data Structures	3-1 (3-3)
CS4-506	Information Security	2-1 (2-3)
CS4-507	Artificial Intelligence	2-1 (2-3)
CS4-508	Computer Networks	2-1 (2-3)
CS4-509	Software Engineering	3 (3-0)
CS4-510	Computer Organization & Assembly Language	2-1 (2-3)

Course Code	Course Title	Credit Hour
CS6-541	Cyber Law	1-2 (1-6)
CS6-534	Web Design & Development	1-2 (1-6)
CS6-535	Data Communication	1-2 (1-6)
CS6-537	Information system	1-2 (1-6)
CS6-538	Operating System/Single Pagapplication	0-2 (0-6)
ISL-501	Islamic Studies	2-0 (2-0)
ICP - 601	Ideology and Constitution of Pakistan	2-0 (2-0)
ENT-601	Entrepreneurship	2-0 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)
	Total Credit Hours	72

BS Computer Science

Teaching Faculty

Teaching Faculty
Dr. Tanvir Ahmed (Professor)
Dr. Sohaib Latif (Associate Professor)
Dr. Sajid Khan (Assistant Professor)
Mr. Rai Samee Ullah (Lecturer)
Mr. Muzamal Arif (Lecturer)
Miss Irum Ashraf (Lecturer)
Miss Sidra Shahzadi (Lecturer)
Miss Mashal Wasique (Lecturer)
Miss Mashal Wasique (Lecturer)
Miss Tayyaba Khalid (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Ukasha Omer (Lab Engineer)

Mr. Ukasha Omer (Lab Engineer) Miss Ayesha Amajd (Lab Engineer) Shared Faculty from other Departments Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary
Admission Fall & Spring

4 Years Duration Total Semesters:

Total Credit hours: 130

Career Prospects

- IT project managers
- · Software Engineers
- · Computer Programmers
- · Applications Developers
- · Database Administrators & Data analysts
- Computer Network Architectures &
- Network Administrators
- Artificial Intelligence Experts
- Computer and Information Research Scientists
- Cloud computing experts
- Computer forensics experts and applications
- developers
- · Computer Science Teacher
- · IT consultants
- · Network Engineers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
CS4501	Programming Fundamentals	4 (3-3)
ICT-501	Application of Information & Communication Technologies	3 (2-3)
QRE-501	QR 1 (Discrete Structures)	3 (3-0)
QRE-502	QR 2 (Calculus and nalytic Geometry)	3 (3-0)
ENG-501	Functional English	3 (3-0)

Course Code	Course Title	Credit Hour
CS4-502	Object Oriented Programming	4 (3-3)
CS4-503	Database Systems	4 (3-3)
CS4-504	Digital Logic Design	3 (2-3)
CS2-501	Multivariable Calculus	3 (3-0)
CS2-502	Linear Algebra	3 (3-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
CS4505	Data Structures	4 (3-3)
CS4506	Information Security	3 (2-3)
CS4507	Artificial Intelligence	3 (2-3)
CS4508	Computer Networks	3 (2-3)
CS4509	Software Engineering	3 (3-0)
CS2-503	Probability & Statistics	3 (3-0)

Course Code	Course Title	Credit Hour
CS4510	Computer Organization & Assembly Langu	3 (2-3)
CS5-501	Domain Core 1 (Theory of Automata)	3 (3-0)
CS5-502	Domain Core 2 (Advance Database Management Systems)	3 (2-3)
PHY-510	Natural Science (Applied Physics)	3 (2-3)
ENG-502	Expository Writing	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
THQ-501	Teaching of Holy Quran	0 (2-0)

Semester 5

Course Code	Course Title	Credit Hour
CS4-611	Operating Systems	3 (2-3)
CS5-603	Domain Core 3 (HCI & Computer Graphics)	3 (2-3)
CS5-604	Domain Core 4 (Computer Architecture)	3 (2-3)
CS6-601	Domain Elective 1 (Example: Web Technologies)	3 (2-3)
CS6-602	Domain Elective 2 (Example: Mobile Application Development 1)	3 (2-3)
Mgm-601	Social Science (Example: Introduction to Management)	2 (2-0)

Course Code	Course Title	Credit Hour
CS5-605	Domain Core 5 (Compiler Construction)	3 (2-3)
CS5-606	Domain Core 6 (Parallel & Distributed Computing)	3 (2-3)
CS6-603	Domain Elective 3 (Example: Advanced Programming- Visual Prog)	3 (2-3)
CS6-604	Domain Elective 4 (Example: Numerical Analysi	3 (2-3)
CS6-605	Domain Elective 5 (Example: Web Engineering)	3 (2-3)
CS6-606	Domain Elective 6 (Example: Cyb&ecurity)	3 (2-3)

Semester 7

Course Code	Course Title	Credit Hour
CS4-613	Final Year Project – I	2 (0-6)
CS4-612	Analysis of Algorithms	3 (3-0)
CS6-607	Domain Elective 7 (Example: Software Testing & Quality Assurance)	3 (2-3)
CS3-601	Elective Supporting Course (Example: Introduction to Marketing)	3 (3-0)
ENG-603	Technical & Business Writing	3 (3-0)
ENT-601	Entrepreneurship	2 (2-0)

Semester 8

Course Code	Course Title	Credit Hour
CS4-614	Final Year Project – II	4 (2-2)
ICP-601	Ideology and Constitution of Pakistan	2 (2-0)
ICP-602	Arts & Humanities (Professional Practices)	2 (2-0)
CCE-601	Civics and Community Engagement	2 (2-0)
	Total Credit Hours	130

BS Software Engineering

Teaching Faculty
Dr. Tanvir Ahmed (Professor)
Dr. Sohaib Latif (Associate Professor)

Dr. Sajid Khan (Assistant Professor) Mr. Rai Samee Ullah (Lecturer) Mr. Muzamal Arif (Lecturer)

Miss Irum Ashraf (Lecturer)
Miss Irum Ashraf (Lecturer)
Miss Sidra Shahzadi (Lecturer)
Miss Mashal Wasique (Lecturer)
Miss Malecha Zainab (Lecturer)
Miss Tayyaba Khalid (Lecturer)
Mr. Muhammad Sohaib (Lab Engineer)
Mr. Washa Omor (Ja Engineer)

Mr. Ukasha Omer (Lab Engineer)
Miss Ayesha Amajd (Lab Engineer)
Shared Faculty from other Departments
Mr. Murtaza Ali Usama (Department Coordinator)

Program Summary
Fall

4 Years

Total Semesters:

Total Credit hours: 130

Career Prospects

- ·Software Engineers
- ·Database Administrators & Data

·Computer Network Architectures & Network Administrators

Information Security Analysts

·Artificial Intelligence Experts

·Computer and Information Research Scientists

·Cloud computing experts

·Computer forensics experts and

applications developers
Computer Science Teacher

·IT consultants

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
CS4-501	Programming Fundamentals	4 (3-3)
ICT-501	Application of Information & Communication Technologies	3 (2-3)
QRE-501	QR 1 (Discrete Structures)	3 (3-0)
QRE-502	QR 2 (Calculus and Analytic Geometry)	3 (3-0)
ENG-501	Functional English	3 (3-0)

	Course Code	Course Title	Credit Hour
1	CS4-502	Object Oriented Programming	4 (3-3)
	CS4-503	Database Systems	4 (3-3)
1	CS4-504	Digital Logic Design	3 (2-3)
1	CS2-501	Multivariable Calculus	3 (3-0)
1	CS2-502	Linear Algebra	3 (3-0)

Semester 3

Course Title	Credit Hour
Data Structures	4 (3-3)
Information Security	3 (2-3)
Artificial Intelligence	3 (2-3)
Computer Networks	3 (2-3)
Software Engineering	3 (3-0)
Probability & Statistics	3 (3-0)
	Data Structures Information Security Artificial Intelligence Computer Networks Software Engineering

Course Code	Course Title	Credit Hour
CS4510	Computer Organization & Assembly Language	3 (2-3)
CS5-507	Domain Core 1 (Software Design & Architectur	
CS5-508	Domain Core 2 (Software Construction & Development)	
PHY-510	Natural Science (Applied Physics)	3 (2-3)
ENG-502	Expository Writing	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
THQ-501	Teaching Holy Quran	0(2-0)

Semester 5

Course Code	Course Title	Credit Hour
CS4-611	Operating Systems	3 (2-3)
CS5-610	Domain Core 3 (Software Quality Engineering)	
CS5-611	Domain Core 4 (Software Requirement Engineering)	
CS6-601	Domain Elective 1 (Example: Web Technologies)	3 (2-3)
CS6-602	Domain Elective 2 (Example: Mobile Application Development 1)	3 (2-3)
MGM-601	Social Science (Example: Introduction to Management)	2 (2-0)

Semester 6

Course Code	Course Title	Credit Hour
CS5-609	Domain Core 5 (Software Project Management)	3(3-0)
CS5-606	Domain Core 6 (Parallel & Distributed Computing)	3 (2-3)
CS6-611	Software Verification and Validation	3(3-0)
CS6-612	Object Oriented Analysis & Design	3(3-0)
CS6-605	Domain Elective 5 (Example: Web Engineering)	3 (2-3)
CS6-606	Domain Elective 6 (Example: Cyber Security)	3 (2-3)

Semester 7

Course Code	Course Title	Credit Hour
CS4-613	Final Year Project- I	2 (0-6)
CS3 -601	Elective Supporting Course (Example: Introduction to Marketing)	3 (3-0)
CS-612	Analysis of Algorithms	3 (3-0)
CS6-620	Software Re-Engineering	3 (3-0)
ENG -603	Technical & Business Writing	3 (3-0)
ENT-601	Entrepreneurship	2 (2-0)

Semester 8

Course Code	Course Title	Credit Hour
CS4-614	Final Year Project- II	4 (0-12)
ICP-601	Ideology and Constitution of Pakistan	2 (2-0)
ICP-602	Arts & Humanities (Professional Practices)	2 (2-0)
CCE-601	Civics and Communit Engagement	2 (2-0)
	TotalCredit Hours	130

MS Computer Science (CS)

Teaching Faculty
Dr. Tanvir Ahmed (Professors)

Dr. Khalid Masood (Professors)

Dr. Sohaib Latif (Associate Professor) Dr. Sajid Khan (Assistant Professor)

Dr. Zeeshan Ashraf (Visiting Faculty)

Mr. Rai Samee Ullah (Lecturer)

Miss Irum Ashraf (Lecturer)

Shared Faculty from Mathematics Department Mr. Murtaza Ali Usama (Department

Coordinator)

Program Summary

Fall & Spring Admission

Duration Total Semesters: 04 Total Credit hours: 31

2 Years

Career Prospects

- ·IT project managers
- ·Computer Programmers
- · Applications Developers ·Database Administrators & Data
- ·Computer Network Architectures &
- Network Administrators
- ·Information Security Analysts
- ·Computer and Information Research
- Scientists
- ·Cloud computing experts
- ·Computer forensics experts and
- applications developers ·Computer Science Teacher
- ·IT consultants
- ·Network Engineers

SCHEME OF STUDIES

Core courses:

Course Code	Course Title	Credit Hour
CS1-701	Theory of Automata	3(3-0)
CS1-702	Advanced Analysis of Algorithms	3(3-0)
CS1-703	Advanced Operating Systems	3(3-0)
CS1-704	Advanced Research Methodology	1(1-0)
CS1-705	AdvancedComputer Architecture	3(3-0)
CS1-706	Theory of Programming languages	3(3-0)

COURSES OF STUDY

(Information about the Prerequisites (if any) of the course(s) will be provided by the Department at the beginning of the program)

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
CS1-701	Theory of Automata	3(3-0)
CS1-702	Advanced Analysis of Algorithms	3(3-0)
CS1-703	Advanced Operating Systems	3(3-0)

Course Code	Course Title	Credit Hour
CS1-704	Advanced Research Methodology	1(1-0)
CS1-705	Advanced Computer Architecture	3(3-0)
CS2-701	Elective I	3(3-0)
CS2-702	Elective II	3(3-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
CS2-703	Elective III	3(3-0)
CS2-705	Thesis I / Elective Course	3(3-0)

Course Code	Course Title	Credit Hour
CS2-705	ThesisI / Elective Course	3(3-0)
CS2-704	Elective IV	3(3-0)
	TotalCredit Hours	31

Elective Courses

Course Code	Course Title	Credit Hour
CS2-701	Computer Graphics	3(3-0)
CS2-702	Digital Image Processing	3(3-0)
CS2-703	Digital Signal Processing	3(3-0)
CS2-704	Advanced Computer Vision	3(3-0)
CS2-705	Distributed Computing	3(3-0)
CS2-706	Data and Network Security	3(3-0)
CS2-707	Fuzzy Logic	3(3-0)
CS2-708	Artificial Neural Network	3(3-0)
CS2-709	Expert Systems	3(3-0)
CS2-710	Data Warehousing	3(3-0)
CS2-711	Web Design and Development	3(3-0)
CS2-712	MobileApplication and Development	3(3-0)
CS2-713	Social Computing	3(3-0)
CS2-714	Wireless Networks	3(3-0)
CS2-715	Web Engineering	3(3-0)
CS2-716	Fundamentals of Data Mining	3(3-0)
CS2-717	Computational Intelligence	3(3-0)
CS2-718	Multi Agent Systems	3(3-0)
CS2-719	Natural Language Processing	3(3-0)
CS2-720	Game Development	3(3-0)
CS2-721	Logical Paradigms of Computing	3(3-0)
CS2-722	Formal Methods for Software Engineering	3(3-0)
CS2-723	Data Analytics	3(3-0)
DS1-701	Statistical and Mathematical Methods For Data Science	3(3-0)
DS1-702	Tools and Techniques in Data Science	3(3-0)
DS1-703	Machine Learning	3(3-0)
DS2-701	Big Data Analytics	3(3-0)
DS2-702	Deep Learning	3(3-0)
DS2-703	Natural Language Processing	3(3-0)
DS2-704	Distributed Data Processing	3(3-0)

MS Data Science (DS)

Teaching Faculty

Dr. Tanvir Ahmed (Professors)

Dr. Khalid Masood (Professors)

Dr. Sohaib Latif (Associate Professor) Dr. Sajid Khan (Assistant Professor)

Dr. Zeeshan Ashraf (Visiting Faculty)

Mr. Muzamal Arif (Lecturer)

Miss Sidra Shahzadi (Lecturer)

Shared Faculty from Mathematics Department Mr. Murtaza Ali Usama (Department

Coordinator)

Program Summary

Fall & Spring Admission

Duration 2 Years Total Semesters: 04 Total Credit hours: 31

Career Prospects

- ·Computer Programmers
- ·Applications Developers
- ·Database Administrators & Data
- ·Computer Network Architectures &

Network Administrators

- ·Information Security Analysts
- ·Cloud computing experts
- ·Computer forensics experts and applications developers
- ·Computer Science Teachers

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
DS1-701	Statistical and Mathematical	3(3-0)
	Methods for Data Science	
DS1-702	Tools and Techniques in Data	3(2-1)
	Science	
DS3-701	Elective I	3(3-0)

Course Code	Course Title	Credit Hour
DS1 -703	Machine Learning	3(3-0)
DS2 -701	Specialization -Elective I	3(3-0)
DS2 -702	Specialization -Elective II	3(3-0)
CS1 -704	Advanced Research Methodology	1(1-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
DS3-702	Elective II	3(3-0)
DS1-705	MS Thesis I	3(3-0)

Course Code	Course Title	Credit Hour
DS3703	Elective II	6(6-0)
DS1705	MS Thesis II	3(3-0)
TotalCredit Hours		31

Elected Courses

Course Code	Course Title	Credit Hour	DS3-705	Time series Analysis and Prediction	3(3-0)
		+	DS3-706	Social network analysis	3(3-0)
DS3-702	Bayesian Data Analysis	3(3-0)	DS3-707	Scientific Computing in Finance	3(3-0)
DS3-703	Optimization Methods for Data Science and	3(3-0)	DS3-708	Computational Genomics	3(3-0)
	Machine Learning	` ′	DS3-709	Cloud computing	3(3-0)
CS2-704	Advanced Computer Vision	3(3-0)	DS3-710	Bioinformatics	3(3-0)
	*	_ ` /	DS3-711	Probabilistic Graphical Models	3(3-0)
CS1-706	Theory of Programming Languages	3(3-0)	DS3-712	High performance computing	3(3-0)
CS1-703	Advanced Operating Systems	3(3-0)	DS3-713	Inference & Representation	3(3-0)
CS1-705	Advanced Computer Architecture	3(3-0)	DS3-714	Deep Reinforcement Learning	3(3-0)
CS1-701	Theory of Automata	3(3-0)	DS3-715	Distributed Machine Learning in Apache Spark	3(3-0)
DS3-704	Data Visualization	3(3-0)	DS3-716	Distributed Data Processing and	3(3-0)
CS1-702	Advanced Analysis of Algorithms	3(3-0)	D55-710	Machine Learning	3(3-0)

FACULTY OF SCIENCES

Department of Management Sciences and Economics

Introduction

The department is dedicated to evolve an encouraging environment to cultivate and stimulate students and faculty. This department is using exceedingly groundbreaking teaching approaches which conglomerate brilliance in research with state of the art campus building with facilities and a full gamut of Undergraduate, MS/MPhil programs. These programs deliver visions into business practices and train students with analytical skills which have confirmed to be perilous to the success of organizations and companies.

The department of Management Sciences and Economics is exerting painstaking efforts to build marked reputation for producing business graduates fully equipped with professional excellence and excelled moral values.

The department is dedicated to cultivate a cathartic educational atmosphere that empowers students with forward-looking knowledge and ground-breaking thinking. We are committed to nurturing integrity and ethical leadership by leveraging specialized resources and aligning our curriculum with the Sustainable Development Goals (SDGs). Through collaborative learning, real-world applications, and a focus on social responsibility, we prepare our graduates to excel in a dynamic business landscape and contribute positively to society.

Objectives

- enhance the essential leadership skills and abilities of students.
- develop competencies of the students to broaden their vision.
- develop and enhance the business management and accounting skills and capacities of the students.
- enhance the ability of the students and groom them to deal with the multifaceted accounting circumstances.
- urge and enhance the entrepreneurial skills to become self-employed and start their own business ventures.

Programs Being Offered

ADP Business Studies
ADP Accounting & Finance
ADP Commerce
ADP Supply Chain Management

ADP International Sales & Marketing ADP Hotel & Tourism Management BBA Bachelors of Business Administration BS Accounting & Finance

Message From HOD



The Department of Management Sciences and Economics at Grand Asian University, Sialkot, is committed to fostering an environment that inspires and nurtures both students and faculty. With a focus on cultivating excellence, our department aims to shape individuals who are ready to lead and innovate in the world of business and economics.

From undergraduate to MS-level programs, the department provides a comprehensive academic experience that delves into the intricacies of business practices and economic theories. Students are trained to develop critical analytical and problem-solving skills that are indispensable for the success of organizations and companies. Our graduates emerge as capable professionals who can adapt to the challenges of a rapidly evolving business landscape, making impactful contributions both nationally and internationally.

As a member of this vibrant academic community, you will benefit from a curriculum designed to challenge and inspire you, guided by highly qualified faculty who are dedicated to your success. Our goal is not only to impart knowledge but to empower you to think creatively, act decisively, and lead with confidence.

We invite you to join us in this exciting journey of growth and discovery. Together, let us build a future where innovation, leadership, and vision drive meaningful change in the world of management and economics.

Dr. Tariq HussainPhD Economics



ADP and BS Accounting & Finance

Teaching Faculty
Dr. Muhammad Amir Alvi
(Assistant Professor)
Dr. Ambreen Zaineb Khurram
(Assistant Professor)
Ms. Anam Ashraf (Lecturer)

Program Summary

Admission Fall & Spring
Duration 4 years
No. of Semesters 8
Total Credit hours: 126

Career Prospects

- ·Accountant
- ·Financial Analyst
- ·Investment Banker
- ·Financial Planner
- ·Auditor
- ·Tax Consultant
- ·Financial Manager
- ·Portfolio Manager
- ·Risk Manager
- ·Chief Financial Officer

SCHEME OF STUDIES

Semester 1

Course Title	Credit Hour
Functional English	3 (3-0)
Introduction to Sociology	2 (2-0)
Introduction to Business	3 (3-0)
Introduction to History	2 (2-0)
Applications of Information &	3 (3-0)
Communication Technology	
Ideology and Constitution of Pakistan	2 (3-0)
	Functional English Introduction to Sociology Introduction to Business Introduction to History Applications of Information & Communication Technology

Semester 3

Course Title	Credit Hour
Principles of Micro Economics	3 (3-0)
Quantitative Reasoning -1	3 (3-0)
Business Communication	3 (3-0)
Fundamentals of Business Finance	3 (3-0)
Principles of Marketing	3(3-0)
Financial Accounting -II	3(3-0)
	Principles of Micro Economics Quantitative Reasoning -1 Business Communication Fundamentals of Business Finance Principles of Marketing

Semester 5

Course Code	Course Title	Credit Hour
AF-642	Business Analysis	3(3-0)
AF-607	Organizational Behavior	3 (3-0)
AF-627	Financial Statement Analysis	3(3-0)
AF-637	Public Sector Accounting	3(3-0)
AF-626	Islamic Banking and Finance	3 (3-0)

Semester 7

Course Code	Course Title	Credit Hour
AF-663	Quantitative Techniques in Business	3(3-0)
AF -624	Risk Management	3(3-0)
AF-630	International Finance	3(3-0)
AF-631	Financial Reporting	3(3-0)
AF -629	Investment Analysis and Portfolio Management	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
AF-532	Financial Accounting	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
ES-501	Environmental Sciences	3 (3-0)
AF-502	Principles of Management	3 (3-0)
ENT-501	Entrepreneurship	2 (2-0)
CCE-501	Civics & Community Engagement	2 (2-0)

Semester 4

Course Code	Course Title	Credit Hour
QRE-102	Quantitative Reasonihlg	3 (3-0)
AF-565	Banking Laws and Practices	3 (3-0)
AF-503	Fundamental of Cost Accounting	3 (3-0)
AF-542	Business Law	3 (3-0)
AF-552	Principles of MacEconomics	3 (3-0)
THQ501	Translation of Holy Qurhn	·
	Total Credit Hours	66

Semester 6

Course Code	Course Title	Credit Hour
AF-636	Computerized Accounting	3(3-0)
AF-644	Business Research Method	3(3-0)
AF-628	Fundamental of Corporate Finance	3(3-0)
AF-632	Public Finance & Policy	3 (3-0)
AF-648	Business Taxation	3 (3-0)

Course Code	Course Title	Credit Hour
AF-635	Audit Reporting	3 (3-0)
AF-604	Strategic Management	3 (3-0)
AF-625	Corporate Governance	3 (3-0)
AF-699	Research Project	6 (6-0)
AF-635	Audit Reporting	3 (3-0)
	Total Credit Hours	126

ADP Business Studies

Teaching Faculty
Dr Tariq Hussain
(Associate Professor)
Dr. Ambreen Zaineb Khurram
(Assistant Professor)
Mr. Atif Sheikh
(Lecturer/PhD Scholar)
Ms. Laiba Naveed (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 66

Career Prospects

- · Management Trainee
- · Business Development Officer
- · Operations Manager
- · Entrepreneur

SCHEME OF STUDIES

Semester 1

Course Title	Credit Hour
Functional English	3 (3-0)
Applications of Information & Communication	2(2-0)
Technologies	
Applications of Information & Communication	1(0-1)
Technologies Lab	
History	2 (2-0)
Introduction to Sociology	2 (2-0)
Ideology & Constitution of Pakistan	2 (2-0)
Introduction to Business	3 (3-0)
	Functional English Applications of Information & Communication Technologies Applications of Information & Communication Technologies Lab History Introduction to Sociology Ideology & Constitution of Pakistan

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3 -0)
BSD -532	Financial Accounting -I	3 (3 -0)
ISL-501	Islamic Studies	2 (2 -0)
ES-501	Environmental Sciences	3 (3 -0)
BSD -502	Principles of Management	3 (3 -0)
ENT -501	Entrepreneurship	2 (2 -0)
CCE -501	Civics & Community Engagement	2 (2 -0)

Semester 3

Course Code	Course Title	Credit Hour
BSD-551	Principles of Micro Economics	3 (3-0)
QRE-501	Quantitative Reasoning -1	3 (3-0)
BSD-543	Business Communication	3 (3-0)
BSD-511	Principles of Marketing	3 (3-0)
BSD-533	Financial Accounting -II	3 (3-0)
BSD-521	Fundamentals of Business Finance	3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasoning ll	3 (3-0)
BSD-512	Marketing Management	3 (3-0)
BSD-552	Principles of Macro Economics	3 (3-0)
BSD-503	Human Resource Management	3 (3-0)
BSD-542	Business Law	3 (3-0)
THQ-501	Translation of Holy Quran	Non-Credited
	Total Credit Hours	66

ADP Commerce

Teaching Faculty
Dr Tariq Hussain
(Associate Professor)
Dr. Amir Alvi
(Assistant Professor)
Mr. Atif Sheikh
(Lecturer/PhD Scholar)
Ms. Anam Ashraf (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 66

Career Prospects

- · Business Analyst
- · Marketing Researcher
- · E-Commerce Specialist
- · Import/Export Coordinator

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)
ICT-501	Applications of Information & Communication	2(2-0)
	Technologies	
ICT-501 P	Applications of Information & Communication	1(0-1)
	Technologies Lab	
HIS-501	History	2 (2-0)
SOC-501	Introduction to Sociology	2 (2-0)
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)
COM-501	Introduction to Business	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
COM-532	Financial Accounting -I	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
ES-501	Environmental Sciences	3 (3-0)
COM-502	Principles of Management	3 (3-0)
ENT-501	Entrepreneurship	2 (2-0)
CCE-501	Civics & Community	2 (2-0)
	Engagement	

Semester 3

Course Code	Course Title	Credit Hour
COM-551	Principles of Micro Economics	3 (3-0)
QRE-501	Quantitative Reasoning -1	3 (3-0)
COM -543	Business Communication	3 (3-0)
COM-511	Principles of Marketing	3 (3-0)
COM-533	Financial Accounting -II	3 (3-0)
COM - 503	Human Resource Management	3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasoning -ll	3 (3-0)
COM-534	Cost Accounting	3 (3-0)
COM-552	Principles of Macro Economics	3 (3-0)
COM-561	E-Commerce & Online Entrepreneurship	3 (3-0)
COM-541	Money, Banking & Finance	3 (3-0)
COM-542	Term Project	00
THQ-501	Translation of Holy Quran	Non-Credited
	Total Credit Hours	66

ADP Supply Chain Management

Teaching Faculty
Dr Tariq Hussain
(Associate Professor)
Dr. Ambreen Zaineb Khurram
(Assistant Professor)
Mr. Atif Sheikh
(Lecturer/PhD Scholar)
Ms. Hafiza Nafeesa (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 66

Career Prospects

- · Supply Chain Manager
- · Logistics Coordinator
- · Procurement Specialist
- · Operations Manager

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour	Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)	ENG-502	Expository Writing	3 (3-0)
ICT-501	Applications of Information & Communication	2(2-0)		1 , 0	` '
	Technologies		SCM-532	Financial Accounting -I	3 (3-0)
ICT-501 P	Applications of Information & Communication	1(0-1)	ISL-501	Islamic Studies	2 (2-0)
	Technologies Lab		ES-501	Environmental Sciences	3 (3-0)
HIS-501	History	2 (2-0)	SCM-502	Principles of Management	3 (3-0)
SOC-501	Introduction to Sociology	2 (2-0)			` ′
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)	ENT-501	Entrepreneurship	2 (2-0)
SCM-501	Introduction to Business	3 (3-0)	CCE-501	Civics & Community Engagement	2 (2-0)

Semester 3

Course Code	Course Title	Credit Hour	Course Code	Course Title	Credit Hour
SCM-503	Supply Chain Management	3 (3-0)	QRE-502	Quantitative Reasoning-ll	3 (3-0)
	11 7	, ,	SCM-507	Transportation & Logistics Management	3 (3-0)
QRE-501	Quantitative Reasoning -1	3 (3-0)	SCM-508	Production & Operation Management	3 (3-0)
SCM-504	Material Management in Supply Chain	3 (3-0)	SCM-509	Supply Chain Quality Management	3 (3-0)
SCM-511	Principles of Marketing	3 (3-0)	SCM-510	Internship Report	3 (3-0)
SCM-505	Supply Chain Performance	3 (3-0)	THQ-501	Teaching of Holy Quran	Non-Credited
SCM-506	Supply Chain Analytics	3 (3-0)	Total Credit Hours 6		66

ADP Supply Chain Management

Teaching Faculty
Dr Tariq Hussain
(Associate Professor)
Dr. Ambreen Zaineb Khurram
(Assistant Professor)
Mr. Atif Sheikh (Lecturer)
Ms. Laiba Naveed (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 66

Career Prospects

- · International Sales Manager
- · Marketing Manager
- · Export Manager
- · Global Business Development Manager

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)
ICT-501	Applications of Information &	2(2-0)
	Communication Technologies	
ICT-501 P	Applications of Information &	1(0-1)
	Communication Technologies Lab	
HIS-501	History	2 (2-0)
SOC-501	Introduction to Sociology	2 (2-0)
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)
ISM-501	Introduction to Business	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3 -0)
ISM-532	Financial Accounting -I	3 (3 -0)
ISL-501	Islamic Studies	2 (2-0)
ES-501	Environmental Sciences	3 (3 -0)
ISM-502	Principles of Management	3 (3 -0)
ENT -501	Entrepreneurship	2 (2 -0)
CCE -501	Civics & Community Engagement	2 (2 -0)

Semester 3

Course Code Credit Hour Course Title QRE-501 3 (3-0) Quantitative Reasoning ISM-551 Principles of Micro Economics 3 (3-0) ISM-514 3 (3-0) Social Media Marketing ISM-511 Principles of Marketing 3 (3-0) ISM-546 International Business 3 (3-0)

Course Code	Course Title	Credit Hour
QRE -502	Quantitative Reasoning -ll	3 (3-0)
ISM-506	Business Law	3 (3-0)
ISM-515	Sales Management	3 (3-0)
ISM-561	E-commerce	3 (3-0)
ISM-585	Production & Operation Management	3 (3-0)
ISM-599	Semester Project	3 (3-0)
THQ-501	Teaching of Holy Quran	Non-Credited
	Total Credit Hours	66

ADP Hotel & Tourism Management

Teaching Faculty
Dr Tariq Hussain
(Associate Professor)
Dr. Ambreen Zaineb Khurram
(Assistant Professor)
Mr. Atif Sheikh
(Lecturer/PhD Scholar)
Ms. Laiba Naveed (Lecturer)

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 66

Career Prospects

- · Hotel Manager
- · Tour Operator
- · Event Manager
- · Travel Agent

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)
ICT-501	Applications of Information & Communication	2(2-0)
	Technologies	
ICT-501 P	Applications of Information & Communication	1(0-1)
	Technologies Lab	
HIS-501	History	2 (2-0)
SOC-501	Introduction to Sociology	2 (2-0)
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)
BSD-501	Introduction to Business	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
BSD-532	Financial Accounting -I	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
ES-501	Environmental Sciences	3 (3-0)
BSD-502	Principles of Management	3 (3-0)
ENT-501	Entrepreneurship	2 (2-0)
CCE-501	Civics & Community Engagement	2 (2-0)

Semester 3

Course Code **Course Title Credit Hour** HTM-551 Principles of Micro Economics 3 (3-0) QRE-501 Quantitative Reasoning-1 3 (3-0) HTM-501 Introduction to Tourism & Hotel 3 (3-0) Management HTM-502 Tourism Marketing 3 (3-0) HTM-503 Tourism Management 3 (3-0) HTM-504 Tourism and Hotel Laws 3 (3-0)

Course Code	Course Title	Credit Hour
QRE-502	Quantitative Reasoningl	3 (3-0)
HTM-505	Hospitality Operations	3 (3-0)
HTM-506	Public Relations	3 (3-0)
HTM-507	Restaurant Management	3 (3-0)
HTM-508	Tourism Geography	3 (3-0)
HTM-509	Internship	00
THQ-501	Teaching of Holy Quran	Non-Credited
	Total Credit Hours	66

Bachelors of Business Administration BBA

Teaching Faculty
Dr. Tariq Hussain
(HoD/Associate Professor)
Mr. Atif Sheikh
(Lecturer/PhD Scholar)
Ms. Hafiza Nafeesa (Lecturer)

Program Summary

Admission Fall & Spring
Duration 4 years
No. of Semesters 8
Total Credit hours: 126

Career Prospects

- ·Management Trainee
- ·Business Analyst
- ·Marketing Analyst
- ·Financial Analyst
- ·Human Resource Manager
- ·Operations Manager
- ·Entrepreneur
- ·Business Consultant
- ·Investment Banker
- ·Supply Chain Manager

SCHEME OF STUDIES

Semester 1

Course Code	Course Title	Credit Hour
ENG-501	Functional English	3 (3-0)
ICT-501	Applications of Information &	2(2-0)
	Communication Technologies	
ICT-501 P	Applications of Information &	1(0-1)
	Communication Technologies Lab	
HIS-501	History	2 (2-0)
SOC-501	Introduction to Sociology	2 (2-0)
ICP -501	Ideology & Constitution of Pakistan	2 (2-0)
BBA-540	Introduction to Business	3 (3-0)

Semester 2

Course Code	Course Title	Credit Hour
ENG-502	Expository Writing	3 (3-0)
BBA-532	Financial Accounting -I	3 (3-0)
ISL-501	Islamic Studies	2 (2-0)
ES-501	Environmental Sciences	3 (3-0)
BBA-502	Principles of Management	3 (3-0)
ENT-501	Entrepreneurship	2 (2-0)
CCE-501	Civics & Community Engagement	2 (2-0)

Semester 3

Course Code	Course Title	Credit Hour
BBA-551	Principles of Micro Economics	3 (3-0)
QRE101	Quantitative Reasoning -1	3 (3-0)
BBA-543	Business Communication	3 (3-0)
BBA-511	Principles of Marketing	3 (3-0)
BBA-533	Financial Accounting-II	3 (3-0)
BBA-521	Fundamentals of Business Finance	3 (3-0)

Semester 4

Course Code	Course Title	Credit Hour	
QRE102	Quantitative Reasoning-ll	3 (3-0)	
BBA-512	Marketing Management	3 (3-0)	
BBA-552	Principles of Macro Economics	3 (3-0)	
BBA-503	Human Resource Management	3 (3-0)	
BBA-542	Business Law	3 (3-0)	
THQ-501	Translation of Holy Quran	Non-Credited	

Semester 5

Course Code	Course Title	Credit Hour	
BBA-646	International Business	3 (3-0)	
BBA-662	Management Information System	3 (3-0)	
BBA-622	Managerial Finance	3 (3-0)	
BBA-616	Strategic Marketing	3 (3-0)	
BBA-607	Organizational Behavior	3 (3-0)	

Course Code	Course Title	Credit Hour
BBA -653	Managerial Economics	3 (3-0)
BBA -647	Business Ethics	3 (3-0)
BBA -605	Total Quality Management	3 (3 -0)
BBA -613	Consumer Behavior	3 (3 -0)
	Internship	3 (3-0)

Semester 7

Course Code	Course Title	Credit Hour	
BBA-644	Business Research Methods	3 (3-0)	
BBA-606	Leadership & Team Management	3 (3-0)	
	Semester project	3 (3-0)	
	Specialization I	3 (3-0)	
	Specialization II	3 (3-0)	

Semester 8

Course Code	Course Title	Credit Hour
BBA-604	Strategic Management	3 (3-0)
BBA-625	Corporate Governance	3 (3-0)
	Specialization III	3 (3-0)
	Specialization IV	3 (3-0)
	Specialization V	3 (3-0)
Total Credit Hours		126

AREAS OF SPECIALIZATION

Finance

Course Code	Course Title	Credit Hour
FIN -681	International Finance	3 (3-0)
FIN -682	Financial & Regulatory Institutions	3 (3-0)
FIN -683	Security Analysis and Portfolio Management	3 (3-0)
FIN -684	Financial Risk Management	3 (3-0)
FIN -685	Financial Statement Analysis	3 (3-0)
FIN -686	Corporate Finance	3 (3-0)

Marketing

Course Code	Course Title	Credit Hour
MKT- 690	International Marketing	3 (3-0)
MKT-691	Services Marketing	3 (3-0)
MKT-692	Advertising	3 (3-0)
MKT-693	Brand Management	3 (3-0)
MKT-694	Sales Management	3 (3-0)
MKT- 690	International Marketing	3 (3-0)

Supply Chain Management

Course Code	Course Title	Credit Hour	
OSC-601	Material Management in Supply Chain	3 (3-0)	
OSC-602	Supply Chain Design	3 (3-0)	
OSC-603	Supply Chains Quality Management	3 (3-0)	
OSC-604	Supply Chain Performance	3 (3-0)	
OSC-605	Supply Chain Management /Geography	3 (3-0)	

Information Technology

Course Code	Course Title	Credit Hour
BMI-601	Computer Application	3 (3-0)
BM1602	Data Ware House	3 (3-0)
BMI-603	E-business	3 (3-0)
BMI-604	Enterprise Resource Planning(ERP)	3 (3-0)
BMI-605	Human Resource Information System	3 (3-0)
BMI-606	IT Project Management	3 (3-0)
MIS-607	Management Information System	3 (3-0)
BMI-607	Systems Analysis & Design (SAD)	3 (3-0)
BMI-608	Artificial Intelligence	3 (3-0)
BMI-609	Emerging Trends in IT	3 (3-0)

Entrepreneurship

Human Resource Management

Course Code	Course Title	Credit Hour
ENT-601	New Product Development	3 (3-0)
ENT-602	Business Development	3 (3-0)
ENT-603	Social Entrepreneurship/ Factual Entrepreneurship	3 (3-0)
ENT-604	Entrepreneurship	3 (3-0)
ENT-605	Family Business Management	3 (3-0)

Course Code	Course Title	Credit Hour
HRM-602	Training and Development	3 (3-0)
HRM-603	Strategic Human Resource Management	3 (3-0)
HRM-604	Organizational Development	3 (3-0)
HRM-605	Change Management	3 (3-0)
HRM-607	Compensation and Reward Management	3 (3-0)

Master of Business Administration

(For Business Graduates)

Teaching Faculty
Dr. Tariq Hussain
Dr. Amir Alvi
Dr. Ambreen Zainab
Mr. Atif Sheikh

Program Summary

Admission Fall & Spring
Duration 2 years
No. of Semesters 4
Total Credit hours: 30

Career Prospects

Leading teams as managers and executives in corporate sectors.

Providing business consulting for strategy development and operations.

Managing entrepreneurial ventures and startups.

Overseeing global business operations and supply chains. Working in leadership roles for non-profits and public sector organizations.

Pursuing careers in financial management and advisory services.

Enhancing business processes through project management and innovation.

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour	Course Code	Course Title	Credit Hour
MGT-7001	Strategic Management	3(3-0)	MKT -7004	Strategic Marketing	3(3-0)
MGT-7002	Advanced Research Methodology	3(3-0)	XXXX	Elective – 1	3(3-0)
FIN-7003	Strategic Finance	3(3-0)	XXXX	Elective – 2	3(3-0)

Semester 3&4

Course Code	Course Title	Credit Hour
XXXX	Elective -3	3(3-0)
XXXX	Elective -4	3(3-0)
XXXX	Research and Thesis/ 2 Elective Courses	6(0-6)

Elective Courses Specialization

Finance

Human Resource Management

Course Code	CourseTitle	Credit Hour
FIN-7005	Financial Institutions	3(3-0)
FIN-7006	Investment & Portfolio Management	3(3-0)
FIN-7007	Financial Reporting & Disclosure	3(3-0)
FIN-7008	Corporate Finance	3(3-0)
FIN-7009	SME Finance	3(3-0)
FIN-7010	Risk Management	3(3-0)
FIN-7011	Credit management	3(3-0)
FIN-7012	Behavioral Finance	3(3-0)
FIN-7013	Advanced Financial Management	3(3-0)
FIN-7014	International Finance	3(3-0)

Course Code	Course Title	Credit Hour
HRM-7005	Performance Management	3(3-0)
HRM-7006	Training Intervention and Job Skills	3(3-0)
HRM-7007	Recruitment and Selection	3(3-0)
HRM-7008	Cross-Cultural Resource Management	3(3-0)
HRM-7009	Incentives & Compensation Management	3(3-0)
HRM-7010	Strategic Human Resource Management	3(3-0)
HRM-7011	Leadership & Team Management	3(3-0)
HRM-7012	Organizational Dynamics	3(3-0)
HRM-7013	Conflicts and Negotiation Management	3(3-0)
HRM-7014	Career Management	3(3-0)

Marketing

Course Code	Course Title	Credit Hour
MKT-7005	Product and BrandManagement	3(3-0)
MKT-7006	International Marketing	3(3-0)
MKT-7007	Digital Marketing	3(3-0)
MKT-7008	Promotion and Advertisement Management	3(3-0)
MKT-7009	Sales Management	3(3-0)
MKT-7010	Services Marketing	3(3-0)
MKT-7011	DistributeManagement	3(3-0)
MKT-7012	Customer Relationship Marketing	3(3-0)

Master of Business Administration (For Non Business Graduates)

Teaching Faculty Dr. Tariq Hussain Dr. Amir Alvi Dr. Ambreen Zainab Mr. Atif Sheikh

Program Summary

Admission Fall & Spring Duration 2 years

No. of Semesters Total Credit hours: 30

Career Prospects

Leading teams as managers and executives in corporate

Providing business consulting for strategy development and operations.

Managing entrepreneurial ventures and startups.

Overseeing global business operations and supply chains. Working in leadership roles for non-profits and public sector organizations.

Pursuing careers in financial management and advisory services.

Enhancing business processes through project management and innovation.

SCHEME OF STUDIES

Semester 1

Course Code

Course Code	Course Title	Credit Horu
FIN-702	Financial Management	3(3-0)
MGT701	Theory And Practice Management	3(3-0)
STAT601	Business Mathematics And Statistics	3(3-0)
ACG701	Financial Accounting II	3(3-0)
MKT701	Marketing Management	3(3-0)
ECO601	Business Economics	3(3-0)

Semester 2

Course Code Course Title Credit Hour ACC-601 Financial Accounting I 3(3-0) FIN-701 Business Finance 3(3-0) HRM-601 Introduction to Human Resource 3(3-0) Management MKT-601 Principles of Marketing 3(3-0)

Semester 3

Course Title

Course Code Course Title Credit Hour

Semester 4

MKT-702	Strategic Marketing	3(3-0)	MGT-703	Advanced Research Methodology	3(3-0)
MGT-702	Strategic Management	3(3-0)	MGT-704	Leadership and Organizational	3(3-0)
FIN-703	Strategic Finance	3(3-0)	MG1-704	Behavior	3(3-0)

Credit Hour

Elective Courses Specialization

Finance

Human Resource Management

Course Code	Course Title	Credit Hour
FIN-5011	Financial Institutions	3(3-0)
FIN-5012	Investment & Portfolio Management	3(3-0)
FIN-5013	Financial Reporting & Disclosure	3(3-0)
FIN-5014	Corporate Finance	3(3-0)
FIN-5015	SME Finance	3(3-0)
FIN-6011	Risk Management	3(3-0)
FIN-6012	Credit management	3(3-0)
FIN-6013	Behavioral Finance	3(3-0)
FIN-6014	Advanced Financial Management	3(3-0)
FIN-6015	International Finance	3(3-0)

Course Code	Course Title	Credit Hour
HRM -5011	Performance Management	3(3-0)
HRM -5012	Training Intervention and Job Skills	3(3-0)
HRM -5013	Recruitment and Selection	3(3-0)
HRM -5014	Cross -Cultural Resource Management	3(3-0)
HRM -5015	Incentives & Compensation Management	3(3-0)
HRM -6011	Strategic Human Resource Management	3(3-0)
HRM -6012	Leadership & Team Management	3(3-0)
HRM -6013	Organizational Dynamics	3(3-0)
HRM -6014	Conflicts and Negotiation Management	3(3-0)
HRM -6015	Career Management	3(3-0)

Marketing

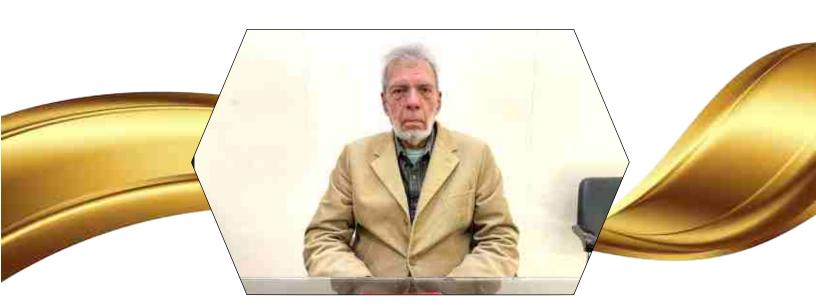
Course Code	Course Title	Credit Hour
MKT-5011	Product and Brand Management	3(3-0)
MKT-5012	International Marketing	3(3-0)
MKT-5013	Digital Marketin	3(3-0)
MKT-5014	Promotion and Advertisement	2(2.0)
	Management	3(3-0)
MKT-6011	Sales Management	3(3-0)
MKT-6012	Services Marketing	3(3-0)
MKT-6013	Distribute Management	3(3-0)
MKT-6014	Customer Relationship Marketing	3(3-0)

Message From The Dean

It is an honour to welcome you to the Faculty of Engineering and Technology, Grand Asian University Sialkot, the only purpose-built university in the region having dedicated buildings, state-of-the-art laboratories, highly qualified competent faculty and latest curricula under iconic leadership. Presently, it consists of three departments: Electrical, Mechanical and Civil Engineering & Technology offering Bachelor Programs since 2013 and Master Programs since 2022. All programs are duly approved by HEC, PEC & PTC and are taught under the semester system.

Our graduates are fully capable to address industrial challenges and societal expectations. Our approach aims at producing engineers and researchers equipped with fundamental concepts and analytical tools of contemporary engineering domain with latest knowledge, engineering skills and competence of deliverance in dynamic and evolving engineering domains.

As the Dean of this esteemed faculty, I assure you that conducive environment of GAUS and dedicated team is providing realistic engineering education based on innovative pedagogical methods to those adopting engineering as a profession through a transformative educational journey to confront ever-evolving challenges of the tech-driven world.



Prof. Muhammad Sharif BhattiPhD Civil Engineering



Introduction

The Faculty of Engineering and Technology is dedicated to fostering innovation and excellence in engineering education. It aims to equip students with the technical skills and theoretical knowledge necessary to meet the challenges of a rapidly evolving technological landscape. The faculty emphasizes practical experience, interdisciplinary collaboration, and research that addresses real-world problems.

Mission

The missions of the Faculty of Engineering and Technology include providing high-quality education, promoting research and development, and fostering a culture of innovation



Department of Mechanical Engineering & Technology



Introduction

Mechanical engineering is one of the most versatile disciplines that apply principles of science for design, modeling, manufacturing, installation, maintenance, operations and analysis of mechanical systems. Mechanical Engineering covers broad range of disciplines including Materials Science, Robotics, Thermal Science, Energy, Management, Aerospace, Automotive, Biomedical, and Marine Engineering. BSc Mechanical Engineering Program at GAUS will enable you to obtain fundamental knowledge in the science of Mechanical Engineering. GAUS provides a conducive environment for obtaining theoretical & practical knowledge through highly qualified and experienced faculty, state-of-the-art laboratories, modern curriculum and industrial exposure. Our graduates will be able to exhibit leadership skills in the field as well as maintain ethical values of professional practice. BSc Mechanical Engineering program is run under the guidelines of Higher Education Commission (HEC) and Pakistan Engineering Council (PEC). Those who are good at mathematics and physics, and have intuition towards exploring the physical phenomena, are advised to choose mechanical engineering at GAUS.

Objectives

- Play the roles ranging from design and development, research and innovation, to production management and quality control.
- Work in emerging fields like renewable energy, automation, and sustainable technologies.
- Expertise in developing efficient systems, innovative products, and sustainable solutions.
- Academia, consultancy, and project management, providing a versatile foundation for continuous professional growth and development.

Programs Being Offered

B.Sc. Mechanical Engineering B.Sc. Mechanical Engineering Technology

Message From HOD



Mechanical engineering is one of the most versatile and dynamic disciplines, applying the principles of science to the design, modeling, manufacturing, installation, maintenance, operations, and analysis of mechanical systems.

The BSc Mechanical Engineering program at Grand Asian University, Sialkot (GAUS), is designed to provide students with a solid foundation in the fundamental principles of mechanical engineering. With a modern curriculum aligned with the guidelines of the Higher Education Commission (HEC) and Pakistan Engineering Council (PEC), the program ensures that students are well-equipped to meet the demands of the industry. GAUS offers a conducive learning environment, where students benefit from the expertise of highly qualified and experienced faculty, access to state-of-the-art laboratories, and industrial exposure.

The Department of Mechanical Engineering houses a robust academic community within the Faculty of Engineering and Technology, offering a vibrant platform for aspiring mechanical engineers. Through a diligent and professional approach, we strive to transform our students into technically proficient and innovative graduates who can contribute to technological advancement at both national and international levels.

The students who have a strong aptitude for mathematics and physics and a curiosity to explore and understand the physical phenomena around us, mechanical engineering at GAUS provides the perfect pathway to success. I warmly welcome you to join one of the most ambitious departments of our university and embark on a journey toward making a meaningful impact in the field of mechanical engineering and beyond.

Let's build a future fueled by innovation and excellence!

Dr. Liaquat Ali Azhar NajmiAssistant Professor
Incharge Department of Mechanical Engineering

B.Sc. Mechanical Engineering

Teaching Faculty

Dr. Ghulam Yasin Chohan

(Professor & Head of Department)

Pride of performance-Tamgha-e-Baqa -Gold Medal KRL

Engr. Nadeem Iqbal Engr. Haider Nawaz

Engr. Faheem Ejaz Engr. Ali Abdul Rehman

Engr. Muhammad Haseeb

Program Summary

Admission Fall Duration 4 Years

Total Semesters: Total Credit hours: 134

Career Prospects

- Aerospace
- Energy
- Manufacturing
- Robotics, and construction.
- Design and development,
- Research and innovation
- Production management
- Quality control
- Renewable energy
- Automation

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
ISL 501/ETH 501	Islamic Studies/ Ethics	2(2-0)
MTH 520	Calculus and Analytical Geometry	3(3-0)
ENG 501	Functional English	3(3-0)
PHY 510	Applied Chemistry/ Applied Physics	2(2-0)
PHY 510 P	Applied Chemistry/ Applied Physics Lab	1(0-1)
ICT 501	Applications of ICT	2(2-0)
ICT 501 P	Applications of ICT Lab	1(0-1)
ME-610	Engineering Drawing and Graphics	1(1-0)
ME-610 P	Engineering Drawing and Graphics Lab	1(0-1)
ME-620	Workshop Practice	1(1-0)
ME-620 P	Workshop Practice Lab	1(0-1)

Course Code	Course Title	Credit Hour
MTH-527	Linear Algebra & Differential Equations	3(3-0)
EE-601	Electrical Engineering	2(2-0)
ME-611 P	Computer Aided Drawing Lab	1(0-1)
ME-612	Engineering Mechanics -I: (Statics)	3(3-0)
ME-600	Thermodynamics-I	3(3-0)
ME-621	Materials Engineering	2(2-0)
CCE 601	Civics and Community Engagement	2(2-0)
ICP 601	Ideology and Constitution of Pakistan	2(2-0)

Semester 3

Course Code	Course Title	Credit Hour
ME-613	Engineering Mechanics -II: (Dynamics)	2(2-0)
ME-614	Mechanics of Materials -I	3(3-0)
CS-501	Computer Systems and Programming	2(2-0)
CS-501 P	Computer Systems and Programming	1(0-1)
MTH-622	Complex Variables & Transforms	3(3-0)
ME-602	Fluid Mechanics -I	3(3-0)
ME-601	Thermodynamics -II	2(2-0)
ME-613 P	Engineering Mechanics Lab	1(0-1)
ME-601 P	Thermodynamics Lab	1(0-1)

Semester 4

Course Code	Course Title	Credit Hour
ME-630	Measurement and Instrumentation	2(2-0)
ME-615	Mechanics of Materialls	3(3-0)
ME-603	Fluid Mechaniell	2(2-0)
ME-616	Machine Desigh	2(2-0)
EE-604	Electronics Engineering	2(2-0)
EE-604P	Electrical and Electronics Engineering Lab	1(0-1)
ENG-502	Expository Writing	3(3-0)
ME-603L	Fluid Mechanics Lab	1(0-1)
ME-615L	Mechanics of Materials Lab	1(0-1)

Semester 5

Course Code	Course Title	Credit Hour
ME-622	Manufacturing Processes	2(2-0)
ME-622 P	Manufacturing Processes Lab	1(0-1)
ME-618	Mechanics of Machines	2(2-0)
ME-631	Control Engineering	2(2-0)
ME-604	Heat & Mass Transfer	3(3-0)
CS-521	Applied AI & Machine Learning	2(2-0)
CS-521 P	Applied AI & Machine Learning Lab	1(0-1)
ME-631 P	M&I and Control Lab	1(0-1)
MTH-651	Numerical Analysis	2(2-0)
MTH-651 P	Numerical Analysis Lab	1(0-1)

Semester 6

Course Code	Course Title	Credit Hour
MGT-613	Social Sciences Elective (HRM)	2(2-0)
ME-605	Heating, Ventilation and Air Conditioning	3(3-0)
ME-617	Machine Design-II	2(2-0)
ME-619	Finite Element Methods	2(2-0)
ME-619 P	Finite Element Methods Lab	1(0-1)
ME-605 P	HVAC and H&M Lab	1(0-1)
STS-501	Probability & Stochastic/ Math Elective***	3(3-0)
MGT-614	Project Management	2(2-0)

Semester 7

Course Code	Course Title	Credit Hour
ME-632	Mechanical Vibrations	3(3-0)
ME-606	Internal Combustion Engines	2(2-0)
ME-606 P	Internal Combustion Engines Lab	1(0-1)
ME-640	Technical Elective-I	3/2(3/2-0/0)
ME-640 P	Technical Elective -I Lab	1(0/0-0/1)
ENG-602	Arts and Humanities Elective (Communication and Presentation Skills)	2(2-0)
ME-632 P	Mechanisms and Mechanical Vibration Lab	1(0-1)
ME-698 P	Final Year Design Project -I	3(0-3)

Course Cod	Course Title	Credit Hou
M E-620	Reverse Engineering and Inspection Tec	2(2-0)
M E-620P	Reverse Engineering and Inspection Tec Lab	1(01)
M E-633	Mechatronics & Robotics Engineering	2(2-0)
M E-633P	MechatronicsRobotics Engineering Lab	1(01)
M E-641	Technical ElectIV****	3/2(3/20/0)
M E-641P	Technical ElectIV**** Lab	1(0/00/1)
EN T501	Entrepreneurship	2(2-0)
M E-623	Occupational Health & Safety	1(1-0)
M E-699P	Final Year Design PrdJect	3(0-3)
	TotaCredit Hours	134

B.Sc. Mechanical Engineering & Technology

Teaching Faculty
Prof. Dr. Arshad Hussain Qureshi
Prof. Dr. Ghulam Yasin Chohan
Engr. Syed Kamal Ud Din
Engr. Nadeem Iqbal
Engr. Haider Nawaz
Engr. Faheem Ejaz
Engr. Ali Abdul Rehman
Engr. Muhammad Haseeb

Program Summary

Admission Fall
Duration 4 Years
Total Semesters: 08
Total Credit hours: 138

Career Prospects

The graduate mechanical technologists can be better utilized in various local and global industries in the capacity of design, production, maintenance, quality control and planning technologists. These industries include but not limited to Automobile, Aerospace, Chemical Processing, Nuclear, Power Generation, Marine, Manufacturing and Production, Agriculture and Automation and Robotics.

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hours
MH-112	Islamic Studies/ Professional Ethics	2(2-0)
MS-113	Applied Physics	2(2-0)
MS-113L	Applied Physics Lab	1(0-1)
MS-123	Applied Mathematics -I	3(3-0)
MS-133	Applied Chemistry	2(2-0)
MS-133L	Applied Chemistry Lab	1(0-1)
MS-143	Introduction to Computer Fundamentals	1(0-1)
MS-143L	Introduction to Computer Fundamentals Lab	2(0-2)
MT-113	Workshop Technology	1(1-0)
MT-113L	Workshop Technology Lab	2(0-2)

Course Code	Course Title	Credit Hour
MS-153	AppliedMathematic- II	2(2-0)
MH-122	Pakistan Studies	2(2-0)
MT-124	Technical Drawing and CAD	2(2-0)
MT-124L	Technical Drawing and CADI Lab	2(0-2)
MT-134	Applied Thermo dynamics 1	2(2-0)
MT-134L	Applied Thermo dynamics 1 Lab	2(0-2)
MT-144	Basic Electrical & Electronics	2(2-0)
MT-144L	Basic Electrical & Electronics Lab	2(0-2)
MT-113	Workshop Technology	1(1-0)
MT-113L	Workshop Technology Lab	2(0-2)

Semester 3

Course Code	Course Title	Credit Hour
MH-213	Communication Skills	2(2-0)
MT-213	CAD - II	2(2-0)
MT-223	Industrial Material	2(2-0)
MT-223L	Industrial Material Lab	1(0-1)
MT-233	Mechanics of Material	2(2-0)
MT-233L	Mechanics of Material Lab	1(0-1)
MT-243	Applied Thermodynamics - II	2(2-0)
MT-243L	Applied Thermodynamics - II Lab	1(0-1)

Semester 4

Course Code	Course Title	Credit Hour
MT-253	Machine Design	3(3-0)
MT-264	Fluid Mechanics	2(2-0)
MT-264L	Fluid Mechanics Lab	2(0-2)
MT-273	Engineering Statics	2(2-0)
MT-273L	Engineering Statics Lab	1(0-1)
MS-213	Probability and Statistics	3(3-0)
MM-212	Total Quality Management	2(2-0)
MH-223	Technical Report Writing	3(3-0)

Semester 5

Course Code	Course Title	Credit Hour
MT-313	Heat Transfer	2(2-0)
MT-313	Heat Transfer	1(0-1)
MT-324	I C Engine	2(2-0)
MT-324	I C Engine	2(0-2)
MT-333	Dynamics	2(2-0)
MT-333	Dynamics	1(0-1)
MT-343	Manufacturing Processes	2(2-0)
MT-343	Manufacturing Processes	1(0-1)
MM-313	Project Management	3(3-0)
MH-312	Economics	2(2-0)

Semester 6

Course Code	Course Title	Credit Hour
MT-353	Instrumentation and Control	2(2-0)
MT-353L	Instrumentation and Control Lab	1(0-1)
MT-363	Mechanical Vibration	2(2-0)
MT-363L	Mechanical Vibration Lab	1(0-1)
MT-373	Refrigeration & AiConditioning	2(2-0)
MT-373L	Refrigeration & Air Conditioning Lab	1(0-1)
MT-384	Material Handling and Safety	3(3-0)
MT-384	Material Handling and Safety	1(0-1)
MT-393L	ProjectI	3(0-3)
MT-3103	Project II	3(0-3)

Semester 7

Course Code	Course Title	Credit Hour
MT-4116L	16 Weeks Supervised Industrial/ Field Traini (8x5=40 Hrs / Week)	16(0-16)

Course Code	Course Title	Credit Hour
MT-4216L	16 Weeks Supervised Industrial/Field Training (8x5=40 Hrs / Week)	16(0-16)
Total		136

Department of Electrical Engineering & Technology

Introduction

Electrical Engineering is a field of Engineering that deals with study and application of principles of electricity, electronics, and magnetism. Electrical power is the backbone of modern industrial society and is expected to remain so for the foreseeable future. Electricity plays a very vital role to contribute to the socio-economic conditions in the country. The department of Electrical Engineering realizing the importance of this subject and has taken a step forward envisioning the state-of-the-art education through its well-designed courses to produce the competent engineers in the market.

Electrical Engineering and Technology department admits 80 undergraduate students each year and demand of this discipline is growing with each passing year. This department has recently been refurbished along with up gradation of its laboratories after arrival of the latest modern lab-equipment.

Objectives

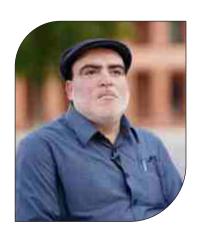
- delivering rigorous academic programs that prepare students for successful careers in engineering and technology.
- engaging in cutting-edge research that contributes to technological advancement and societal needs.
- establishing partnerships with electrical & electronics industries to enhance educational relevance and create opportunities for students.
- applying the knowledge to solve analytical and practical engineering problems.
- work for continuous socio-technical development of the society.

Programs Being Offered

B.Sc. Electrical Engineering B.Sc. Electrical Engineering Technology

M.Sc. Electrical Engineering (Electronics) M.Sc. Electrical Engineering (Communication & Networks)

Message From HOD



Electrical Engineering is a fascinating and dynamic field that focuses on the study and application of electricity, electronics, and magnetism, serving as the foundation for countless innovations and technological advancements.

Recognizing the significance of this discipline, the Department of Electrical Engineering is committed to providing state-of-the-art education through a meticulously designed curriculum. Our courses are tailored to produce highly competent and innovative engineers, equipped to meet the challenges of the evolving global market.

In order to maintain our commitment to excellence, the department has undergone significant upgrades, including the refurbishment of facilities and the installation of modern laboratory equipment. These advancements ensure that our students have access to the latest tools and technologies, enabling them to gain hands-on experience in real-world scenarios.

Our mission is to nurture future leaders in Electrical Engineering who possess the technical expertise, problem-solving skills, and ethical grounding needed to address contemporary challenges.

Join us at the Department of Electrical Engineering to embark on a journey of innovation, where you will have the opportunity to contribute to the technological advancements that shape our world. Together, we build the future, powered by electricity and inspired by innovation.

Prof. Dr. Aftab HussainPhD Electrical Engineering



B.Sc. Electrical Engineering

Teaching Faculty Dr. Aftab Hussain (Professor) Engr. Haider Nawaz Dr. Tallat Mehmood Qazi Engr. Abdul Muqeet Shah Engr. Abdum waqeet Shan Engr. Farhan Sarwar Dr. Idrees Afridi Engr. Muhammad Qamar Shahzad Engr. Muhammad Huzaifa Malik

Program Summary Admission: Fall & Spring Duration: 4 Years Total Semesters: 08

Total Credit Hours:135

- Artificial Intelligence and Machine Learning
- Biological and Medical Devices and Systems
- Communications Systems Computer Architecture
- Computational Fabrication and Manufacturing
- Educational Technology
 Electronic, Magnetic, Optical and Quantum Materials
- and Devices
- Integrated Circuits and Systems
- Nanoscale Materials, Devices, and Systems
- Signal Processing
- Systems and Networking
- Systems Theory, Control, and Autonomy

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
ENG 501	Functional English	3(3-0)
MTH 520	Calculus & Analytical Geometry/Applied Calculus	3(3-0)
EE 601	Linear Circuit Analysis	4(3-0)
EE 601P	Linear Circuit Analysiab	1(0-1)
ICT 501	Application of ICT	2(2-0)
ICT 50 IP	Application of ICITab	1(0-1)
ME 602P	Engineering Drawing	1(0-1)
PHY 510	Applied Physics	2(2-0)
PHY 510P	Applied Physidsab	1(0-1)

	Course Code	Course Title	Credit Hour
	MTH 607	Differential Equation	3(3-0)
	EE 660	Math's /Natural Science Elective Discrete Mathematics)	3(3-0)
	ISL 501	Islamic Studies /Ethics	2(2-0)
1	ICP 601	Ideology & constitution of Pakistan	2(2-0)
1	CS4 501	Computer Programing	3(3-0)
1	CS4 501 P	Computer ProgramingLab	1(0-1)
]	ME 602	Thermodynamics	3(3-0)
l	EE 603 P	Electrical Workshop Practice	1(0-1)

Semester 3

Semester 4

Course Cod	Course Title	Credit Hou
MTH 622	Complex Variables & Transforms	3(3-0)
ENG 502	Expository writing	3(3-0)
EE 604	Digital Logic Design	3(3-0)
EE 604P	Digital Logic Desligato	1(0-1)
EE 605	Data Structures and Algorithms	3(3-0)
EE 60 P	Data Structures and AlgorItahhms	1(0-1)
EE 606	Electrical Netw Arkalysis	3(3-0)
EE 60 6 P	Electrical Networkalysikab	1(0-1)

	Course Code	Course Title	Credit Hour
	MGT 614	Engineering Management (project management)	2(2-0)
	MTH 528	Linear Algebra	3(3-0)
	ETH 501	Arts & Humanities Elective (Professional Ethics)	2(2-0)
	EE 607	Probability Methods Engineering	3(3-0)
	EE 608	Signal & Systems	3(3-0)
İ	EE 608P	Signal & SystemIsab	1(0-1)
ł	EE 609	Electronics Devices & Circuits	3(3-0)
ŀ	EE 609P	Electronics Devices & Circlaits	1(0-1)
	THQ 501	Teaching of Holy Quran	Non Credetd

Semester 5

Semester 6

Course Code	Course Title	Credit Hour
EE 610	Electrical Machines	3(3-0)
EE 61 0 P	Electrical Machibasb	1(0-1)
EE 611	Microprocessors & Interfacing	3(3-0)
EE 61 P	Microprocessors & Interfacailong	1(0-1)
EE 612	Communications Systems	3(3-0)
EE 612P	Communications Systembs	1(0-1)
CCE 601	Civics & Community Engagement	2(2-0)
EE 613	Electromagnetic Theory	3(3-0)
OHS 501	Occupational Health & Safety	1(1-0)

Course Code	Course Title	Credit Hour
EE 614	Linear Control Systems	3(3-0)
EE 614 P	Linear Control Systems Lab	1(0-1)
EE 615	Power Distribution & Utilization	3(3-0)
EE 615 P	Power Distribution & Utilization Lab	1(0-1)
EE 616	Computer Communication Networks	3(3-0)
MGT 660	Engineering Economics	3(3-0)

Semester 7

Course Code	Course Title	Credit Hour
EE 617	Operating System	3(3-0)
EE 617P	Operating Systemab	1(0-1)
EE 618	Data Communication	3(3-0)
EE 618P	Data Communicatidnab	1(0-1)
EE 619	IndustriaControlSystems	3(3-0)
EE 619P	Industria Control Systems Lab	1(0-1)
EE 699a	Project (Phase)	2(0-2)
ENT 501	Entrepreneurship	2(2-0)

Cou	urse Cod	Course Title	Credit Hour
E	EE 622	Renewable EnerSpystems	3(3-0)
F	EE 623	Artificial Intelligence	3(3-0)
M	GT 613	Total Quality Management	2(2-0)
F	EE 624	Integrated Electronic Circuits	3(3-0)
Е	E 624P	IntegrateHectronic Circulitsb	1(0-1)
Е	E 699b	Project (Phaste)	4(04)
		TotalCredit Hours	135

B.Sc. Electrical Engineering & Technology

Teaching Faculty Prof. Dr. Muhammad Umar farooq Prof. Dr. Muhammad Zafrullah Dr. Abdul Samad Assistant Professor Dr. Idress Afridi Assisatnt Professor Rashid Jamil Satti Lecturer Talha Arshad Lecturer

Program Summary
Fall 4 Years Duration Total Semesters: 08 Total Credit hours: 134

Career Prospects

The graduate mechanical technologists can be better utilized in various local and global industries in the capacity of design, production, maintenance, quality control and planning technologists. These industries include but not limited to Automobile, Aerospace, Chemical Processing, Nuclear, Power Generation, Marine, Manufacturing and Production, Agriculture and Automation and Robotics.

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
EH-112	Islamic Studies / Professional Ethics	2(2-0)
ES-113	Applied Mathematics -l	3(3-0)
ES-123	Applied Physics	2(2-0)
ES-123 L	Applied Physics Lab	1(0-1)
ET-114	Linear Circuits Analysis	2(2-0)
ET-114 L	Linear Circuits Analysis Lab	1(0-1)
ET-123	Engineering Drawing	1(1-0)
ET-123 L	Engineering Drawing Lab	2(0-2)
ES-133	Introduction to Computer Fundamentals	1(1-0)
ES-133 L	Introduction to Computer Fundamentals Lab	2(0-2)

Course Code	Course Title	Credit Hour
EH-123	CommunicationSkills	3(3-0)
EH-132	Pakistan Studies	2(2-0)
ET-134	Electronics	2(2-0)
ET-134 L	Electronics Lab	2(0-2)
ET-143	Basic MechanicalTechnology	2(2-0)
ET-143 L	Basic MechanicalTechnology Lab	1(0-1)
ES-143	Applied Mathematics – II	3(3-0)
ET-153	Electrical Machines – I	2(2-0)
ET-153 L	Electrical Machines - I Lab	1(0-1)

Semester 3

Course Code	Course Title	Credit Hour
ET-212	Power Generation Systems	2(2-0)
EH-213	Technical Report Writing	3(3-0)
ET-224	Electrical Instruments and Measurements	2(2-0)
ET-224 L	Electrical Instruments and Measurements Lab	2(0-2)
ET-224	Electrical Instruments and Measurements	2(2-0)
ET-224 L	Electrical Instruments and Measurements Lab	2(0-2)
ET-244	Digital Electronics	2(2-0)
ET-244 L	Digital Electronics Lab	2(0-2)

Semester 4

Course Code	Course Title	Credit Hour
ET-254	AC Circuits Analysis	2(2-0)
ET-254 L	AC Circuits Analysis Lab	2(0-2)
ET-262	Electro-Magnetic Fields	2(2-0)
ET-273	Electrical PowerTransmission	2(2-0)
ET-273 L	Electrical PowerTransmission Lab	1(0-1)
ET-283	Electrical PowerDistribution and Utilization	2(2-0)
ET-283 L	Electrical PowerDistribution and Utilization Lab	1(0-1)
ET-294	Power Electronics	2(2-0)
ET-294 L	Power Electronics Lab	2(0-2)

Semester 5

CourseCode	Course Title	Credit Hour
ET-313	Micro-ProcessorTheory & Interfacing	2(2-0)
ET-313 L	Micro-ProcessorTheory & Interfacing Lab	1(0-1)
ET-323	Switch Gear &Protective Devices	2(2-0)
ET-323 L	Switch Gear &Protective Devices Lab	1(0-1)
ET-334	CommunicationsTechnology	2(2-0)
ET-334 L	CommunicationsTechnology Lab	2(0-2)
ET-343	Control Technology	2(2-0)
ET-343	Control Technology Lab	1(0-1)
EM-312	Total QualityManagement	2(2-0)
ET-353	High VoltageTechnology	2(2-0)
ET-353	High VoltageTechnology	1(0-1)

Semester 6

CourseCode	Course Title	CreditHour
EM-323	ProjectManagement	3(3-0)
ET-362	PowerSystemAnalysis	2(0-2)
ET-374	Data & ComputeCommunication	2(2-0)
ET-374 L	Data & Compute€ommunication Lab	2(0-2)
ET-384	Industrial Drives &PLC	2(2-0)
ET-384 L	Industrial Drives & LC Lab	2(0-2)
ET-393	Project	3(0-3)

Semester 7

Course Code	Course Title	Credit Hour
ET-4116	16 Weeks Supervised Industrial/ Field Training (8x5=40 Hrs / Week)	16(0-16)

Project Work

CourseCode	Course Title	CreditHour
ET-3103	Project (Continue)	3(0-3)

Course Code	Course Title	Credit Hour
ET -4216	16 Weeks	
	Supervised Industrial/ Field Training(8x5=40 Hrs / Week)	16(0 -16)

M.Sc. Electrical Engineering (Electronics)

Teaching Faculty
Dr. Aftab Hussain (Professor) Engr. Haider Nawaz Dr. Tallat Mehmood Qazi Engr. Abdul Muqeet Shah Engr. Farhan Sarwar Dr. Idrees Afridi

Engr. Muhammad Qamar Shahzad Engr. Muhammad Huzaifa Malik

Program Summary Admission: Fall & Spring Duration: 4 Years Total Semesters: 08 Total Credit Hours:135

Career Prospects

- Artificial Intelligence and Machine Learning
- Biological and Medical Devices and Systems
- Communications Systems Computer Architecture
- Computational Fabrication and Manufacturing
- Educational Technology
 Electronic, Magnetic, Optical and Quantum Materials
- and Devices
- Energy
- Integrated Circuits and Systems
 Nanoscale Materials, Devices, and Systems
 - Robotics
- Signal Processing
- Systems and Networking
- Systems Theory, Control, and Autonomy

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
EE 7201	Semiconductor Materials and	2(2.0)
EE /201	Technology	3(3-0)
EE 7202	Integrated Circuit Design	3(3-0)
EE 7203	Embedded Systems	3(2-0)
EE 7003	Random Variables and Stochastic	2(2.0)
EE /003	Processes	3(3-0)

Course Code	Course Title	Credit Hour
EE 7208	FPGA based System Design	3(3-0)
EE 7207	Advanced Digital Design	3(3-0)
EE 7209	VLSI Testing and Verification	3(2-0)
EE 7001	Research Methodology	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
EE 7300	Thesis	3(3-0)

Course Code	Course Title	Credit Hour
EE 7300	Thesis	3(3-0)
Total Credit Hours		30



M.Sc. Electrical Engineering (Communication & Networks)

Teaching Faculty Dr. Aftab Hussain (Professor) Engr. Haider Nawaz Dr. Tallat Mehmood Qazi Engr. Abdul Muqeet Shah Engr. Farhan Sarwar Dr. Idrees Afridi

Engr. Muhammad Qamar Shahzad Engr. Muhammad Huzaifa Malik

Program Summary Admission: Fall & Spring Duration: 4 Years Total Semesters: 08 Total Credit Hours:135

Career Prospects

- Artificial Intelligence and Machine Learning
- Biological and Medical Devices and Systems
- Communications Systems
- Computer Architecture Computational Fabrication and Manufacturing
- Educational Technology
 Electronic, Magnetic, Optical and Quantum Materials
- and Devices
- Energy
- Integrated Circuits and Systems
- Nanoscale Materials, Devices, and Systems
- Robotics
- Signal Processing
- Systems and Networking
- Systems Theory, Control, and Autonomy

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
EE 7303	Computer Networks	3(3-0)
EE 7302	Digital Communication	3(3-0)
EE 7004	Numerical Techniques	3(2-0)
EE 7003	Random Variables and Stochastic Processes	3(3-0)

Course Code	Course Title	Credit Hour
EE 7310	Optical Communication	3(3-0)
EE 7309	Wireless communication	3(3-0)
EE 7312	Error Control Coding	3(2-0)
EE 7001	Research Methodology	3(3-0)

Semester 3

Course Code **Course Title** Credit Hour EE 7300 Thesis 3(3-0)

Course Code	Course Title	Credit Hour
EE 7300	Thesis	3(3-0)
Total Credit Hours		30



Department of Civil Engineering

Introduction

Civil engineering is the branch of Engineering that will teach you as to how to develop and manage our society for a better future. The buildings, bridges, dams and other facilities are designed, constructed and managed by Civil Engineers that always remain a sign of pride and professional satisfaction for them. At the Grand Asian University, Sialkot, civil engineering curriculum has been developed to include all the modern aspects of this engineering field to be taught under the Outcome Based Education (OBE) System.

Objectives

- delivering rigorous academic programs that prepare students for successful careers in engineering and technology.
- engaging in cutting-edge research that contributes to technological advancement and societal needs.
- establishing partnerships with civil and construction industries to enhance educational relevance and create opportunities for students.
- applying the knowledge to solve analytical and practical engineering problems.
- work for continuous socio-technical development of the society.

Programs Being Offered

B.Sc. Civil Engineering

B.Sc. Civil Engineering Technology

Message From HOD



Civil Engineering is one of the most vital and dynamic branches of Engineering, shaping the foundation of modern society and paving the way for sustainable development. It is a field that combines technical expertise, creative problem-solving, and environmental stewardship to build the world around us. Every structure designed, built and maintained by civil engineers stands as a testament to their dedication, innovation, and professional pride.

At the Grand Asian University, Sialkot, the Department of Civil Engineering is committed to nurturing the next generation of visionary Engineers. Our curriculum is thoughtfully designed to encompass all modern advancements and emerging trends in this ever-evolving discipline. Delivered under the globally recognized Outcome-Based Education (OBE) System, our program ensures that students acquire not only technical knowledge but also the practical skills, leadership qualities and ethical standards required to excel in

their careers. Our department offers state-of-the-art laboratories, project-based learning opportunities, and exposure to real-world challenges through internships and collaborations with industry leaders.

As you embark on this transformative journey with us, I encourage you to embrace the challenges and opportunities this field offers. Civil Engineering is not just a profession but a commitment to building a better future for generations to come. Together, let us strive to create solutions that stand the test of time and leave a lasting legacy of progress and excellence.

Prof. Dr. Muhammad Sharif Bhatti PhD Civil Engineering



B.Sc. Civil Engineering

Teaching Faculty
Dr. Muhammad Sharif Bhatti (Professor)
Dr. Arshad Hussain Qureshi (Professor)
Engr. Syed Kamal Ud Din
Engr. Abdul Muqeet Shah
Engr. Farhan Sarwar
Engr. Tariq Naveed
Engr. Subhana Liaqat
Dr. Abdul Samad

Engg. Muhammad Qamar Shahzad Engr. Muhammad Huzaifa Malik

Admission Fall
Duration 4 Years
Total Semesters: 08
Total Credit Hours 136

Career Prospects

- Construction/design of buildings, Highways, Dams, Bridges,
- Irrigation network and water supply systems.
- Research based projects

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
ENG 501	Functional English	3(3-0)
MTH 520	Calculus & Analytical Geometry/Ap Calculus	3(3-0)
EE 601	Linear Circuit Analysis	3(3-0)
EE 60 IP	Linear Circuit Analysais	1(0-1)
ICT 501	Application of ICT	2(2-0)
ICT 50 P	Application of ICTab	1(0-1)
ME 602P	Engineering Drawing	1(0-1)
PHY 510	Applied Physics	2(2-0)
PHY 510P	Applied Physikab	1(0-1)

Course Code	Course Title	Credit Hour
MTH 607	Differential Equation	3(3-0)
EE 660	Math's /Natural Science Elective (Discrete	3(3-0)
EE 000	Mathematics)	3(3-0)
ISL 501	Islamic Studies /Ethics	2(2-0)
ICP 601	Ideology & constitution of Pakistan	2(2-0)
CS4 501	Computer Programing	3(3-0)
CS4 501 P	Computer Programing Lab	1(0-1)
ME 602	Thermodynamics	3(3-0)
EE 603 P	Electrical Workshop Practice	1(0-1)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
MTH 622	Complex Variables & Transforms	3(3-0)
ENG 502	Expository writing	3(3-0)
EE 604	Digital Logic Design	3(3-0)
EE 604P	Digital Logic Designab	1(0-1)
EE 605	Data Structures an Adlgorithms	3(3-0)
EE 605P	Data Structures and Algorithms	1(0-1)
EE 606	Electrical Network Analysis	3(3-0)
EE 606P	Electrical Network Analysisb	1(0-1)

Course Code	Course Title	Credit Hour
MGT 614	Engineering Management (project managen	2(2-0)
MTH 528	Linear Algebra	3(3-0)
ETH 501	Arts & Humanities Elective (Professional Ethics)	2(2-0)
EE 607	Probability Methods Emgineering	3(3-0)
EE 608	Signal & Systems	3(3-0)
EE 608P	Signal & Systemsab	1(0-1)
EE 609	Electronics Devices & Circuits	3(3-0)
EE 609P	Electronics Devices & Circulias	1(0-1)
THQ 501	Teaching of Holy Quran	(0-0)

Semester 5

Semester 6

Course Code	Course Title	Credit Hour
EE 610	Electrical Machines	3(3-0)
EE 610P	Electrical Machinesab	1(0-1)
EE 611	Microprocessors & Interfacing	3(3-0)
EE 611P	Microprocessors & Interfacting	1(0-1)
EE 612	Communications Systems	3(3-0)
EE 612P	Communications Systemsb	1(0-1)
CCE 601	Civics & Community Engagement	2(2-0)
EE 613	Electromagnetic Theory	3(3-0)
OHS 501	Occupational Health & Safety	1(1-0)

Course Code	Course Title	Credit Hour
EE 614	Linear Control Systems	3(3-0)
EE 614P	Linear Control Systemsb	1(0-1)
EE 615	Power Distribution & Utilization	3(3-0)
EE 615P	Power Distribution & UtilizaLiah	1(0-1)
EE 616	Computer Communication Networks	3(3-0)
MGT 660	Engineering Economics	3(3-0)

Semester 7

Semester 8

Course Code	Course Title	Credit Hour
EE 617	Operating System	3(3-0)
EE 617P	Operating SystemLab	1(0-1)
EE 618	Data Communication	3(3-0)
EE 618P	Data Communicatiohab	1(0-1)
EE 619	IndustrialControl Systems	3(3-0)
EE 619P	IndustrialControlSystemsLab	1(0-1)
EE 699a	Project (Phasel)	2(0-2)
ENT 501	Entrepreneurship	2(2-0)

Course Code	Course Title	Credit Hour
EE 622	Renewable Energy systems	3(3-0)
EE 623	Artificial Intelligence	3(3-0)
MGT 613	Total Quality Management	2(2-0)
EE 624	Integrated Electronic Circuits	3(3-0)
EE 624 P	Integrated Electronic Circuits Lab	1(0-1)
EE 699b	Project (Phase -II)	4(0-4)
	Total Credit Hours	135

B.Sc. Civil Engineering & Technology

Teaching Faculty
Prof. Dr. Shareef Bhatti
Engr. Abdul Muqeet Shah
Engr. Farhan Sarwar
Engr. Talha Akram

Program SummaryAdmissionFallDuration4 YearsTotal Semesters:08Total Credit hours:130-137

Career Prospects

Civil engineering technologists have become experts in creating sustainable and environmentally friendly buildings and systems. Multiplied over many communities, the energy and emissions savings can make a real difference in the environment. Civil engineering is open to many career opportunities and handles different types of projects like construction and rehabilitation of buildings, roadways, railways, skyscrapers, urban establishments, agricultural storages and development of new materials and procedures etc.

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
CE-601	CivilEngineeringMaterials	2(2-0)
CE-601L	CivilEngineeringMaterials Lab	1(0-1)
PHY-510	AppliedPhysics& ElectroMechanicalFundamentals	2(2-0)
PHY510L	AppliedPhysics& ElectroMechanicalFundamentals	1(0-1)
CE-602	EngineeringDrawing	1(1-0)
CE-602L	EngineeringDrawing Lab	2(0-2)
ENG-501	FunctionalEnglish	3(3-0)
QRE-501	QuantitativeReasoningI	3(3-0)
ICT-501	Applicationsof ICT	2(2-0)
ICT-501L	Applications of ICT Lab	1(0-1)

Course Code	Course Title	Credit Hour
CE-603	Engineering Surveying	2(2-0)
CE-603L	Engineering Surveying Lab	1(0-1)
CE-631	Geology for Engineers	2(2-0)
ISL-501	Islamic Studies/ Ethics	2(2-0)
CE-621	Engineering Mechanics	2(2-0)
CE-621L	Engineering Mechanics Lab	1(0-1)
ICP-601	Ideology and Constitution of Pakistan	2(2-0)
CS-102	Computer Programming	2(2-0)
CS-102L	Computer Programming Lab	1(0-1)
QRE-502	Quantitative Reasoning-II	3(3-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
CE-604	Advanced Engineering Surveying	2(2-0)
CE-604L	Advanced Engineering Surveying Lab	1(0-1)
CE-651	Fluid Mechanics	2(2-0)
CE-651L	Fluid Mechanics Lab	1(0-1)
CE-622	Mechanics of Solids-I	2(2-0)
CE-622L	Mechanics of Solids-I Lab	1(0-1)
CE-623	Structural Analysis-I	3(3-0)
MTH-503	Advanced Calculus	3(3-0)
ENG-502	Expository Writing	3(3-0)

Course Code	Course Title	Credit Hour
CE-611	Construction Engineering	2(2-0)
CE-306	Arts and Humanities Elective (Professional Ethics)	2(2-0)
MA-111	Applied Mathematics	3(3-0)
CE-624	Mechanics of SolidsII	2(2-0)
CE-624L	Mechanics of Solids-II Lab	1(0-1)
CE-632	Soil Mechanics	2(2-0)
CE-632 L	Soil Mechanics Lab	1(0-1)
CE-612	Quantity & Cost Estimation	2(2-0)
CE-612L	Quantity & Cost Estimation Lab	1(0-1)
CE-304	Project Management	2(2-0)
CE-659	Survey Camp	NC

Semester 5

Semester 6

Course Code	Course Title	Credit Hour
CE-652	Advanced Fluid Mechanics	2(2-0)
CE-652L	Advanced Fluid Mechanics Lab	1(0-1)
CE-605	Civil Engg. Drawing & Graphics	1(1-0)
CE-605L	Civil Engg. Drawing & Graphics Lab	2(0-2)
CE-633	Geotechnical Engineering	3(3-0)
CE-633L	Geotechnical Engineering Lab	1(0-1)
CE-625	Reinforced Concrete Design-I	3(3-0)
CE-625L	Reinforced Concrete Design-I Lab	1(0-1)
CCE-601	Civics and Community Engagement	2(2-0)
CE-661	Highway & traffic Engineering	2(2-0)

Course Code	Course Title	Credit Hour
CE-626	Reinforced Concrete Design-II	3(3-0)
CE-626L	Reinforced Concrete Design-II Lab	1(0-1)
CE-606	Environmental Engineering	2(2-1)
CE-606L	Environmental Engineering Lab	1(0-1)
CE-627	Structural Analysis -II	3(3-0)
CE-653	Engineering Hydrology	2(2-0)
CE-653L	Engineering Hydrology Lab	1(0-1)
MTH-651	Numerical Analysis	3(3-0)
CE-556	Community Service	NC
CE-557	Internship (6-8 weeks) mandatory and qualifying	NC

Semester 7

Semester 8

Course Code	Course Title	Credit Hour
CE-628	Foundation Engineering	2(2-0)
CE-662	Pavement Analysis & design	2(2-0)
CE-662L	Pavement Analysis & design Lab	1(0-1)
CE-607	Modelling & Simulation	1(1-0)
CE-607L	Modelling & Simulation Lab	1(0-1)
CE-654	Hydraulics Engineering	2(2-0)
CE-654L	Hydraulics Engineering Lab	1(0-1)
ENT-601	Entrepreneurship	2(2-0)
CE-698	FYDP Part-I	3(0-3)

Course Title	Credit Hour
Irrigation Engineering	2(2-0)
Irrigation Engineering Lab	1(0-1)
Geoinformatics	1(1-0)
Geoinformatics Lab	1(0-1)
Steel Structures	2(2-0)
Architecture & Town Planning	2(2-0)
OccupationalHealth & Safety	1(1-0)
Economics Elective (Engineering Economics)	2(2-0)
FYDP Part-II	3(0-3)
Total	136
	Irrigation Engineering Irrigation Engineering Lab Geoinformatics Geoinformatics Lab Steel Structures Architecture & Town Planning Occupational Health & Safety Economics Elective (Engineering Economics) FYDP Part-II

FACULTY OF PHARMACY

Message From The Dean

It is with great pride and enthusiasm that I welcome you to our esteemed institution, a beacon of academic excellence and innovation in Sialkot, Pakistan. At Grand Asian University, we are committed to fostering an environment where intellectual curiosity, diversity and leadership converge to shape the next generation of global thinkers and innovators.

Our institution has long stood as a leader in research, education and community engagement. We are dedicated to provide students with transformative learning experiences that prepare them to tackle the complex challenges of the 21st century. Through state-of-the-art facilities, cutting-edge research and a faculty, we aim to equip our students with the knowledge, skills and values essential for success in an ever-evolving global landscape.

As you embark on your educational journey with us, we encourage you to challenge yourself, explore new frontiers of knowledge and contribute to the greater good. Our programs are designed to be rigorous, yet supportive, ensuring that each of you is empowered to achieve your highest potential.

I invite you to explore all that Grand Asian University has to offer and to become an integral part of our shared mission to create a better, more just and sustainable health activists for the world.

Welcome to Grand Asian University, where your future begins.



Prof. Dr. Sherjeel AdnanDean Faculty of Pharmacy

FACULTY OF PHARMACY

Mission

The Doctor of Pharmacy program is dedicated to create a pharmaceutical educational and research environment that emphasizes cutting-edge knowledge and innovation. We are committed to nurturing integrity in our students through the use of specialized resources, ensuring that our initiatives align with the Sustainable Development Goals (SDG) to enhance health and well-being of communities.

Objectives

The Faculty of Pharmacy at Grand Asian University, Sialkot, is dedicated to advancing pharmaceutical education, research, and healthcare practices in line with global standards. Our primary objectives are to

- deliver Comprehensive Pharmaceutical Education
- promote Excellence in Research and Innovation
- develop Competent Healthcare Professionals
- uphold Ethical and Professional Standards
- contribute to Healthcare Policy and Practice

Programs Being Offered

Doctor of Pharmacy (Pharm-D)

M.Phil. Pharmacy (Pharmaceutics)

M.Phil. Pharmacy (Pharmaceutical Chemistry)

Doctor of Pharmacy (Pharm-D)

Teaching Faculty Dr. Asad Hamad (Associate Professor)

Dr. Anjum Khursheed (Assistant Professor)

Dr. Ambreen Mehmood (Assistant Professor)

Mr. Adil Iqbal Qazi (Lecturer) Mr. Rashid Mehmood (Lecturer)

Ms. Sana Saeed (Lecturer) Ms. Faiza Naeem (Lecturer)

Mr. Usman Shahid (Lecturer)

Mr Israr ul Haq (Lecturer)

Ms. Rubab Ijaz (Lecturer)
Dr. Anjum Khursheed (Assistant Professor

Ms. Gull e Fatima (Lecturer)

Mr. Ahsan Arif (Demonstrator)

Program Summary
Fall 5 Years Duration

Semesters

Total Credit Hours 198

Career Prospects

- Pharmaceutical Industry
- · Regulatory Affairs
- · Forensic pharmacist
- ·DRAP
- · Drug Inspectors
- · Academia and Research and Development organizations
- · Hospital and Clinical Pharmacy
- · Pharmaceutical Sales and Marketing
- · Entrepreneurship and Public Health
- · Biotechnology Firms
- · Contract Research Organizations (CROs)

SCHEME OF STUDIES

Semester 1

Semester 2

Course Code	Course Title	Credit Hour
PHRM-601	Pharmaceutics- IA (Physical Pharmacy)	3(3-0)
PHRM-601 P	Pharmaceutics- IA (Physical PharmacyLab	1(0-1)
PHRM-602	Pharmaceutical ChemistryIA (Organic Chemistry)	3(3-0)
PHRM-602 P	Pharmaceutical ChemistryIA (Organic Chemistry Lab	1(0-1)
PHRM-603	Pharmaceutical Chemistry- IIA (Biochemistry)	3(3-0)
PHRM-603 P	Pharmaceutical Chemistry-IIA (Biochemistry)Lab	1(0-1)
PHRM- 604	Physiology– A	3(3-0)
PHRM- 604 P	Physiology– A Lab	1(0-1)
PHRM-605	Anatomy & Histology	3(3-0)
PHRM-605 P	Anatomy & HistologyLab	1(0-1)
PHRM-61	English - A (Functional English)	2(2-0)

Course Code	Course Title	Credit Hour
PHRM – 606	Pharmaceutics – IB (Physical Pharmacy)	3(3-0)
PHRM – 606 P	Pharmaceutics – IB (Physical Pharmacy) Lab	1(0-1)
PHRM – 607	Pharmaceutical Chemistry-IB (Organic Chemistry)	3(3-0)
PHRM – 607 P	Pharmaceutical Chemistry-IB (Organic Chemistry) Lab	1(0-1)
PHRM - 608	Pharmaceutical Chemistry – IIB (Biochemistry)	3(3-0)
PHRM – 608 P	Pharmaceutical Chemistry – IIB (Biochemistry) Lab	1(0-1)
PHRM – 609	Physiology – B	3(3-0)
PHRM – 609 P	Physiology – B Lab	1(0-1)
PHRM- 611	English – B (Communication & Writing Skills)	2(2-0)

Semester 3

Semester 4

Course Code	Course Title	Credit Hour
PHRM – 617	Pharmaceutics – IIA (Dosage Form Science)	3(3-0)
PHRM – 617 P	Pharmaceutics – IIA (Dosage Form Science) Lab	1(0-1)
PHRM – 618	Pharmaceutics – IIIA (Pharmaceutical Microbiology & Immunology)	3(3-0)
PHRM – 618 P	Pharmaceutics – IIIA (Pharmaceutical Microbiology & Immunology) Lab	1(0-1)
PHRM- 619	Pharmacology & Therapeutics - IA	3(3-0)
PHRM – 619 P	Pharmacology & Therapeutics - IA (Practical)	1(0-1)
PHRM- 620	Pharmacognosy – IA (Basic)	3(3-0)
PHRM- 620 P	Pharmacognosy – IA (Basic) (Practical)	1(0-1)
PHRM – 612	Pharmacy Practice – IA (Pharmaceutical Mathematics)	03(3-0)
PHRM – 613	Islamic Studies	03(3-0)

Course Code	Course Title	Credit Hour
PHRM – 621	Pharmaceutics – IIB (Dosage Form Science)	3(3-0)
PHRM – 621	Pharmaceutics – IIB (Dosage Form Science) Lab	1(0-1)
PHRM – 622	Pharmaceutics – IIIB (Pharmaceutical Microbiology & Immunology)	3(3-0)
PHRM – 622 1	Pharmaceutics – IIIB (Pharmaceutical Microbiology & Immunology) Lab	1(0-1)
PHRM – 623	Pharmacology & Therapeutics – IB	3(3-0)
PH RM- 623	Pharmacology & Therapeutics – IB (Practical)	1(0-1)
PHRM- 624	Pharmacognosy – IB (Basic)	3(3-0)
PHRM- 624 F	Pharmacognosy - IB (Basic) (Practical)	1(0-1)
PHRM- 614	Pharmacy Practice – IB (Bio-statistics)	03(3-0)
PHRM - 615	Pakistan Studies	2(2-0)

Semester 5

Course Code	Course Title	Credit Hour
PHRM-625	Pharmacy Practice- IIA (Dispensing Pharmacy)	3(3-0)
PHRM-625 P	Pharmacy Practice- IIA (Dispensing PharmacyLab	1(0-1)
PHRM – 626	Pharmaceutical Chemistry- IIIA (Pharmaceutical Analysis)	3(3-0)
PHRM – 626 P	Pharmaceutical Chemistry- IIIA (Pharmaceutical Analysis)Lab	1(0-1)
PHRM-627	Pharmacology & Therapeutics- IIA	3(3-0)
PHRM-627 P	Pharmacology & Therapeutics- IIA Lab	1(0-1)
PHRM- 628	Pharmacognosy- IIA (Advanced)	3(3-0)
PHRM- 628 P	Pharmacognosy- IIA (Advanced)Lab	1(0-1)
PHRM-629	Pathology	3(3-0)
PHRM – 629 P	Pathology	1(1-0)

Semester 6

Course Code	Course Title	Credit Hour
PHRM – 630	Pharmacy Practice– IIB (Community, Social & Administrative Pharmacy)	03(3-0)
PHRM – 631	Pharmaceutical Chemistry– IIIB (Pharmaceutical Analysis)	3(3-0)
PHRM – 631 P	Pharmaceutical Chemistry– IIIB (Pharmaceutical Analysis) Lab	1(0-1)
PHRM- 632	Pharmacology & Therapeutics IIB	3(3-0)
PHRM – 632 P	Pharmacology & Therapeutics- IIB Lab	1(0-1)
PHRM- 633	Pharmacognosy-IIB (Advanced)	3(3-0)
PHRM- 633 P	Pharmacognosy- IIB (Advanced) Lab	1(0-1)
PHRM – 616	Pharmacy Practice– III (Computer & its Applications in Pharmacy)	3(3-0)
PHRM – 616 P	Pharmacy Practice- III (Computer & its Applications in Pharmacy) Lab	1(0-1)

Semester 7

Course Code	Course Title	Credit Hour
PHRM-634	Pharmacy Practice- IVA (Hospital Pharmacy I)	03(3-0)
PHRM-635	Pharmacy Practice- VA (Clinical Pharmacy-I)	3(3-0)
PHRM-635 P	Pharmacy Practice-VA (Clinical Pharmacy-I) Lab	1(0-1)
PHRM-636	Pharmaceutics- IVA (Industrial Pharmacy I)	3(3-0)
PHRM-636 P	Pharmaceutics- IVA (Industrial Pharmacy I) Lab	1(0-1)
PHRM- 637	Pharmaceutics- VA (Bio-Pharmaceutics- I)	3(3-0)
PHRM- 637 P	Pharmaceutics- VA (BioPharmaceutics- I) Lab	1(0-1)
PHRM- 638	Pharmaceutics- VIA (Pharmaceutical Quality Management- I)	3(3-0)
PHRM-638 P	Pharmaceutics- VIA (Pharmaceutical Quality Management- I) Lab	1(0-1)

Semester 8

Course Code	Course Title	Credit Hour
PHRM-639	Pharmacy Practice- IVB (Hospital Pharmacy- II)	03(3-0)
PHRM- 640	Pharmacy Practice- VB (Clinical Pharmacy- I)	3(3-0)
PHRM – 640 P	Pharmacy Practice- VB (Clinical Pharmacy- I) Lab	1(0-1)
PHRM-641	Pharmaceutics- IVB (Industrial Pharmacy- II)	3(3-0)
PHRM- 641 P	Pharmaceutics- IVB (Industrial Pharmacy- II) Lab	1(0-1)
PHRM- 642	Pharmaceutics- VB (Bio-Pharmaceutics- II)	3(3-0)
PHRM- 642 P	Pharmaceutics- VB (Bio-Pharmaceutics- II) Lab	1(0-1)
PHRM- 643	Pharmaceutics- VIB (Pharmaceutical Quality Management- II)	3(3-0)
PHRM – 643 P	Pharmaceutics- VIB (Pharmaceutical Quality Management- II) Lab	1(0-1)

Semester 9

Course Code	Course Title	Credit Hour
PHRM – 644	Pharmaceutics-VIIA (Pharmaceutical Technology)	3(3-0)
PHRM – 644 P	Pharmaceutics-VIIA (Pharmaceutical Technology)Lab	1(0-1)
PHRM – 645	Pharmacy PracticeVIA (Advanced ClinicalPharmacy-II)	3(3-0)
PHRM – 645 P	Pharmacy Practice VIA (Advanced Clinical PharmacyII) Lab	1(0-1)
PHRM – 646	Pharmacy PracticeVIIA (Forensic Pharmacy)	3(3-0)
PHRM- 647	Pharmacy Practice VIIIA (Pharmaceutical Management & Marketing)	3(3-0)
PHRM – 648	Pharmaceutical ChemistryIVA (Medicinal Chemistry)	3(3-0)
PHRM – 648 P	Pharmaceutical ChemistryIVA (Medicinal Chemistry)Lab	1(0-1)

Semester 10

Course Code	Course Title	Credit Hour
PHRM – 649	Pharmaceutics-VIIB (Pharmaceutical Technology)	3(3-0)
PHRM- 649 P	Pharmaceutics-VIIB (Pharmaceutical Technology) Lab	1(0-1)
PHRM – 650	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	3(3-0)
PHRM – 650 P	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II) Lab	1(0-1)
PHRM – 651	Pharmacy Practice-VIIB (Forensic Pharmacy)	3(3-0)
PHRM- 652	Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing)	3(3-0)
PHRM – 653	Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	3(3-0)
PHRM – 653 P	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Lab	1(0-1)
	Total Credit Hours	198



M.PHIL. Pharmacy (Pharmaceutics)

Teaching FacultyProf. Dr. Sherjeel Adnan (Head/Dean) Dr. Asad Hamad (Associate Professor)

Dr. Anjum Khursheed (Assistant Professor)

Ms. Gull e Fatima (Lecturer)

Mr. Ahsan Arif (Demonstrator)

Ms. Rukhsar Nasir (Demonstrator)

Program Summary

Admission Fall Duration 2 Years

Semesters Total Credit Hours 30

Career Prospects

- Pharmaceutical Industry
- Regulatory Affairs
- Forensic pharmacist
- Drug Inspectors
- Academia and Research and Development organizations
- Hospital and Clinical Pharmacy
- Pharmaceutical Sales and Marketing
- Entrepreneurship and Public Health
- Biotechnology Firms
- Contract Research Organizations (CROs)

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
MPCU-701	Advanced Pharmaceutics	3(3-0)
MPCU-702	Pharmaceutical Biotechnology and Microbiology	3(3-0)
MPCU-703	Nutraceuticals and Cosmetology	3(3-0)
MPCU-704	Pharmaceutical Biostatistics	3(3-0)

Course Code	Course Title	Credit Hour
MPCU705	Formulation Design and Product Developmen	3(3-0)
MPCU706	Applied Biopharmaceutics and Pharmacokinetics	3(3-0)
MPCU-707	Pharmaceutical Quality Assurance and Instrumentation	3(3-0)
MPCU-708	Research Methodology and Scientific Writing	3(3-0)

Semester 3&4

Course Code	Course Title	Credit Hours
MPCU-709	Research and Thesis	06
	Total creditHours	30

M.PHIL. Pharmacy (Pharmaceutical Chemistry)

Teaching Faculty

Prof. Dr. Sherjeel Adnan (Head/Dean) Dr. Asad Hamad (Associate Professor)

Dr. Anjum Khursheed (Assistant Professor)

Ms. Gull e Fatima (Lecturer)

Mr. Ahsan Arif (Demonstrator)

Ms. Rukhsar Nasir (Demonstrator)

Program Summary

Fall Admission 2 Years Duration Semesters

Total Credit Hours 30

Career Prospects

- Pharmaceutical Industry
- Regulatory Affairs Forensic pharmacist
- **Drug Inspectors**
- Academia and Research and Development organizations
- Hospital and Clinical Pharmacy
- Pharmaceutical Sales and Marketing
- Entrepreneurship and Public Health
- Biotechnology Firms
- Contract Research Organizations (CROs)

Semester 1

SCHEME OF STUDIES

Semester 2

Course Code	Course Title	Credit Hour
MPCH-701	Analytical Chemistry	3(3-0)
MPCH-702	Drug Discovery and Design	3(3-0)
MPCH-703	Chemistry of Natural Product and Phytochemistry	3(3-0)
MPCH-704	Pharmaceutical Biostatistics	3(3-0)

Course Code	Course Title	Credit Hour
MPCH-705	Drug Stability and Chemical Kinetics	3(3-0)
MPCH-706	Isolation and Characterization of Drugs	3(3-0)
MPCH-707	Bioinformatics and Combinatorial Chemistry	3(3-0)
MPCH-708	Research Methodology and Scientific Writing	3(3-0)

Semester 3&4

Course Code	Course Title	Credit Hour
MPCH709	Research and Thesis	06
	TotalCredit Hours	30

FACULTY OF LAW

Message From The Dean

Welcome to the Law Department at Grand Asian University Sialkot, where academic rigor meets practical legal training. We are committed to nurturing future legal professionals through innovative teaching methods, hands-on experiences and a focus on real-world application. Our esteemed faculty, comprising seasoned legal experts, cultivates a dynamic and collaborative learning environment that fosters intellectual growth and skill development.

At the core of our approach is the conviction that practical education is essential. As a department, we are at the forefront of cutting-edge research, tackling contemporary legal challenges and actively contributing to the advancement of the legal profession.

Our curriculum is carefully designed to align with industry demands, producing graduates who are not only knowledgeable but also skilled practitioners. We invite you to join us on a transformative journey of intellectual exploration, practical education and collective commitment to shaping the future of law.

Thank you for choosing the Grand Asian University Sialkot Law Department.

Welcome to Grand Asian University, where your future begins.



Dr. Usman AnwarDean Faculty of Law

FACULTY OF LAW



Mission

Department of Law is dedicated to provide contemporary legal education to make young generation proficient legal professionals and skillful personnel for the community. We as a community are committed to place great value on Knowledge, Excellence and Honor and transform the law students into the impeccable professional acumen.

Objectives

The objectives of this faculty are to

- produce legal experts and professionals who will be able to succeed in their careers.
- provide students a wide range of opportunities to gain Law expertise in conjunction with academic excellence, collaborative research, leadership and strategic planning.

Programs Being Offered

Bechelor in Law (LLB) Master in Law (LLM)

Message From HOD



The Department of Law welcomes the new students at Grand Asian University, Sialkot. This department is dedicated to nurturing a new generation of legal professionals equipped to meet the challenges of a rapidly evolving world. Our innovative teaching methods, combined with hands-on experiences, ensure that students not only gain a deep understanding of legal principles but also develop the skills necessary to apply this knowledge effectively in real-world scenarios.

Our distinguished faculty, composed of seasoned legal practitioners and scholars, fosters a dynamic and collaborative learning environment. They bring their expertise and insights to the classroom, inspiring students to think critically, engage in rigorous debates and approach legal challenges creatively. At the heart of our mission is the belief that legal education must transcend theoretical learning, equipping students with the tools to excel in

practice and positively impact society.

Our curriculum is meticulously designed to align with the needs of the legal profession, ensuring that graduates are well-prepared to excel as competent practitioners, ethical leaders and advocates for justice.

We invite you to embark on this transformative journey of intellectual discovery, practical education, and a shared commitment to shaping the future of law. As you become a part of our vibrant community, we encourage you to embrace challenges, seize opportunities and contribute to the noble cause of justice with dedication and integrity.

Thank you for choosing the Law Department at Grand Asian University, Sialkot. Together, let us pave the way for a brighter and more equitable future.

Mian Sheraz Ahmad PhD Law



Bachelor of Law (LLB)

Teaching Faculty Dr. Usman Anwar (Dean) Dr. Mian Muhammad Sheraz (Assistant Professor) Mr. Muhammad Raza Toor (Assistant Professor) Mr. Shakeel Akhtar Thakur (Assistant Professor) Ms. Aisha Warraich (Lecturer)

Program Summary Fall 5 Years 10 Duration Semesters Total Credit Hours 166

Career Prospects

- ·Advocate
- ·Attorney
- ·Corporate lawyer
- ·Mediation
- ·Human Resources
- ·Immigration lawyer
- $\cdot Journalism\\$
- ·Legal consultant
- ·Paralegal
- ·Police officer

SCHEME OF STUDIES

Semester 1

CourseCode	Course Title	CreditHour
BC-111	EnglishI	3(3-0)
BC-112	Pakistan Studies	2(2-0)
BC-113	Introduction to Sociology	3(3-0)
BC-114	Introduction to Economics	3(3-0)
LC-115	Introduction to Law	3(3-0)
BC-116	Computer Skills Development	3(3-0)

Semester 2

CourseCode	Course Title	CreditHour
BC-121	EnglishII	3(3-0)
BC-122	Islamic Studies	2(2-0)
BC-123	Introduction tooliticalScience	3(3-0)
LC-124	Introduction to Legal System of Pakist	3(3-0)
BC-125	History of South Asia	3(3-0)
LC-126	Law of Torts	3(3-0)

Semester 3

Course Code	Course Title	Credit Hour
BC-211	English-III	3(3-0)
BC-212	Introduction to logic and reasoning	3(3-0)
LC-213	Islamic JurisprudenceI	3(3-0)
LC-214	Law of Torts-II	3(3-0)
LC-215	Law of ContractI	3(3-0)
LC-216	Constitutional LawI (UK)	3(3-0)

Semester 4

Course Code	Course Title	Credit Hour
LC-221	Human Rights Law	3(3-0)
LC-222	Constitutional Law-II (US)	3(3-0)
LC-223	Law of Contract-II	3(3-0)
LC-224	Islamic Jurisprudence -II	3(3-0)
BC-225	Introduction to Psychology	3(3-0)

Semester 5

Course Code	Course Title	Credit Hour	
LC-311	English Jurisprudence-I	3(3-0)	
LC-312	Constitutional Developments in Pakistan	3(3-0)	
LC-313	Islamic Personal Law-I	3(3-0)	
LC-314	Criminal Law-I	3(3-0)	
LC-315	Law of Property	3(3-0)	

Semester 6

Course Code	Course Title	Credit Hour	
LC-321	English JurisprudenceII	3(3-0)	
LC-322	Law of Business Organizations	3(3-0)	
LC-323	Islamic Personal LawII	3(3-0)	
LC-324	Criminal Law-II	3(3-0)	
LC-325	Land Laws	3(3-0)	

Semester 7

CourseCode	Course Title	CreditHour	
LC-411	Public International lalw	3(3-0)	
LC-412	Constitutional La-WII (Pakistan)	3(3-0)	
LC-413	Civil Procedure Code	3(3-0)	
LC-414	Criminal Procedure Code	3(3-0)	
LC-415	Law of Evideneb	3(3-0)	
LC-416	Legal Draftind	3(3-0)	

Semester 9

Course Code	Course Title	Credit Hour		
BC-511	Research Methods	3(3-0)		
BC-512	Moot cases and Professional Ethics	3(3-0)		
LC-513	Minor Acts	3(3-0)		
Group of ELE	Group of ELECTIVE-I courses			
LE-514	Alternate Dispute Resolution (ADR)	3(3-0)		
LE-515	Consumer Protection Laws	3(3-0)		
LE-516	Intellectual Property Laws	3(3-0)		
Group of ELECTIVE-II courses				
LE-517	International Humanitarian Laws	3(3-0)		
LE-518	Islamic Commercial Laws	3(3-0)		
LE-519	Labour Laws	3(3-0)		

Semester 8

CourseCode	Course Title	CredifHour	
L C-421	Public International Halw	3(3-0)	
LC-422	Equity and Specific Relief	3(3-0)	
LC-423	Civil Procedure Colle	3(3-0)	
LC-424	Criminal Procedure Celdle	3(3-0)	
LC-425	Law of Evidende	3(3-0)	
LC-426	Legal Draftinb	3(3-0)	
Internship	After completion of Semester and befo 10 semesters (during summer vacation	3(3-0)	

Semester 10

CourseCode	Course Title	CreditHour
LC-521	Administrative Law	3(3-0)
LC-522	Interpretation of Statutes and Legislative Writin	3(3-0)
LC-523	Final Research Assignment	3(3-0)
Group of ELE	CTIVHII courses	
LE-524	Islamic Legal Maxims	3(3-0)
LE-525	Public Interest Laws	3(3-0)
LE-526	Media laws	3(3-0)
Group of ELE	CTIVHV courses	
LE-527	Cyber laws	3(3-0)
LE-528	Environmental Laws	3(3-0)
LE-529	Clinical Legal Education	3(3-0)

Note: in the last two semesters [19and 10th] students can opt four (4) courses (tw2) courses in each semester) of their choice from the list of elective courses (group given in the scheme of study-IV) offered by the department of law, faculty of law GAUS, such shall subject to the approval of HQDaw. (See, note 1 & 2 in the framework of elective courses).

Total Credit Hours=166



Master of Law (LLM)

Teaching Faculty Dr. Usman Hanif (Dean) Dr. Mian Muhammad Sheraz (Assistant Professor) Mr. Muhammad Raza Toor (Assistant Professor)

Program Summary

Admission 2 Years Duration Semesters Total Credit Hours 30

Career Prospects

- ·Advocate
- ·Attorney
- ·Corporate lawyer
- ·Immigration lawyer
 ·Legal consultant
- ·Paralegal
- ·Police Officer

SCHEME OF STUDIES

	Course Code	Course Title	Credit Hours
1 st Semester one compulsory+ Three General/	MCC-611	Research Methodology	3(3-0)
	MLG-611	Comparative Constitutional Law	3(3-0)
Optional Law Courses	MLG-612	Legal history of Pakistan and India	3(3-0)
	MLO-610	Islamic Laws	3(3-0)
	MLO-611	Criminology	3(3-0)
	MLG-621	Administrative Law	3(3-0)
2 nd Semester Four	MLG-622	Human Rights and Humanitarian Law	3(3-0)
General / Optional Law Courses	MLO-621	Comparative study of Islamic and Weste Jurisprudence	3(3-0)
	MLO-622	Environmental Law	3(3-0)
	MLO-623	Intellectual Property Law	3(3-0)
	MLO-624	Western Jurisprudence and Legal Theory	3(3-0)
3 rd & 4 th Semester	MLR-711	Research and Thesis (Compulsory)	6(0-6)
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UNIVERSITY ADMINISTRATION

REGISTRAR OFFICE

The Registrar's Office is a vital department in a university which serves as the central hub for academic records, registration, and student information.

The Registrar's Office is responsible for maintaining the coherence among all the departments of the University and integrity of academic records, ensuring compliance with academic policies, and providing exceptional service to students, faculty and staff. Being the custodian of the common seal and academic records of the University, this office is responsible for the safe custody of University Ordinance, Statutes and academic rules/regulations and ensuring their strict implementation. As an Administrative Head of the Secretariat of the University, this office is responsible for the provision of secretarial support to the Board and Vice Chancellor and act as Secretary Board of Governors, Executive Committee, Deans Committee, Academic Council, Board of Advanced Studies and Research, Selection Board Committee of the University. On behalf of the university, this office carries out the liaison and coordination with HEC and accreditation councils on requirement basis.



Dr. Saqib Anwar Siddiqui Registrar, GAUS

CONTROLLER OF EXAMINATIONS

The Examination Branch is a vital part of the university and is associated with the different activities that range from secrecy, conduct, evaluation, compilation, normalization and announcement of results to the issuance of certificates and degrees and the verification of credentials. The entire work of the Examinations Branch is conducted as per the Act, Statutes, Rules and Regulations made therein by the authorities of the university. The Controller of Examinations is the custodian of the examination records of the students and provides creditable support to the faculty and students in line with best practices countrywide.

The Examinations Branch office, being responsible for maintaining the examination records, takes on the responsibility of providing quality service to the students and faculty in all spheres of examination matters. Along with the other essential functions, it assumes transparency, integrity, secrecy, and quality service as its core values. The main functions include the preparation of date sheets, conducting the examinations, compilation and declaration of results, preparation of transcripts and degrees, as well as arranging the convocations. In order to promptly extend overwhelming services, the Examinations Branch has a vibrant team who are dedicated professionals augmented with the best service skills.



Mr Mehmood Akhter Controller Examination, GAUS

TREASURER OFFICE

The Treasurer's Office at Grand Asian University plays a critical role in managing the financial health and resources of the institution. As a key administrative department, it ensures that the university's finances are efficiently managed, transparent, and aligned with the university's strategic goals. The office oversees a wide range of financial services, including tuition payment processing, budget management, payroll, and financial planning. It serves students, staff, faculty, and external stakeholders by handling all matters related to university finances.

The Treasurer's Office of Grand Asian University plays a crucial role in supporting the institution's academic mission by ensuring that all the financial resources are managed responsibly and aligned with the university's goals. Whether assisting students with tuition payments or guiding departments in financial planning, the office is committed to providing exceptional service and maintaining the university's financial stability.



Mr Muhammad Hayat Khan Treasurer, GAUS

OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)

The purpose of ORIC is to serve and display as a fundamental platform to cover all the research activities, develop, expand, enhance and manage the university's research programs and link research activities directly to the educational, social and economic priorities of the university and its broader community. The ORIC is also responsible for assuring that the quality of research reflects the highest international standards and competitiveness.

GAUS established the Office of Research, Innovation, and Commercialization (ORIC) under the patronage of the Higher Education Commission (HEC). The objective of the establishment (ORIC) is allied with HEC to develop, improve and manage the University's research programs and to link research activities directly to the educational, social and economic priorities through contributing in knowledge economy of the University and the broader community. The ORIC is also responsible for ensuring that the quality of research reflecting the highest international standards and advances the reputation of the university among the top research institutions in the world and revealing the principal values of academic freedom, professional integrity, and ethical conduct and full compliance with all policies, legal requirements and operational standards of the university.

Along with other prime research activities, ORIC in GAUS also acknowledges its responsibilities to establish pathways between academia and industries. In this industrial hub and a Golden Triangle area, this directorate is playing all out efforts to nurture the industrial linkages and to contribute in developing the research based working patterns and knowledge economy in this area. Although we already have collaborative research works with different universities in Germany, Denmark, Turkey, UK, and China. However, we are looking forward to establishing more scientific ties with a number of universities abroad as well as national level.



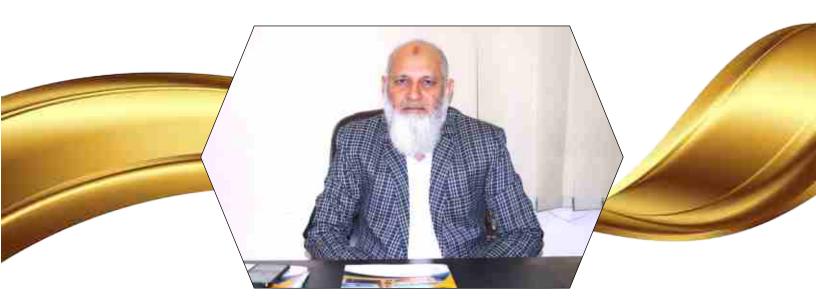
Dr. Shehbaz AliPhD and Postdoc
Director ORIC, GAUS

DIRECTORATE OF ACADEMICS

The Office of the Directorate of Academics has been established to facilitate and render services to our students who are the future leaders. This office is responsible to develop and maintain academic policies, processes and procedures to ensure that all the educational programs in GAUS could deliver and match with the implied needs of all stakeholders especially the students.

This office also involves in developing and maintaining a suite of academic products that are competitive in the market to ensure appropriate outcomes for students, including the use of digital tools for both delivery and support. It also oversees all aspects of academic reporting including performance of students studying at GAUS, the outcomes and other student related activities including migration issues, ensuring that HEC rules, regulations and key performance indicators are met.

Being the Director of Academics, I very warmly welcome my all the new students and feel very pleasure to render the services of Directorate of Academics to solve any issue of our students.



Prof. Dr. Iqbal ButtDirector Academics, GAUS

QUALITY ENHANCEMENT CELL (QEC)

Quality Enhancement Cell at Grand Asian University Sialkot, strives to create a culture of quality and accountability, ensuring that the university's graduates are equipped with the knowledge and skills to succeed in a rapidly changing world. We are dedicated to foster a culture of excellence in every aspect of our academic and administrative operations. The QEC plays a pivotal role in this mission by continuously enhancing the quality of our educational offerings and support services. The ultimate goal of QEC is to strive hard to knit the vibrant culture of education excellence through developing and displaying the excellence in curriculums, faculty development to furnish with advanced educational tools, student-centered feedback, attaining the accreditation and standards, research and innovation and to match with the implied needs of industries.

QEC upholds the highest standards of quality through rigorous self-assessment and compliance with national and international accreditation requirements. This department with collaborative efforts, encourage students, faculty and staff to engage with our quality assurance processes. As we strive towards our goal of becoming a leading institution renowned for academic excellence, QEC will continue to implement best practices and innovative strategies. Together, we can create an enriching and dynamic educational environment in our university.



Mr Abdul Jawad Butt Acting Director QEC

DIRECTORATE OF STUDENT AFFAIRS

The Directorate of Student Affairs provide actively to coordinate the various aspects of student life and development by generating a liaison between students, faculty and university administration. The primary function of Student Affairs Office is to assistance to students in any way possible. It leads, directs, and administers overall functions of Student Service Center, Alumni Relationship, Student Counseling, Job Placement, Student Societies, Clubs, Events and overall discipline.

In University the important function of Student Affairs Office is to enhance the quality of student life both in and outside of the classroom. The Directorate of Student Affairs is a central place for students where they can express and get help about any problem they encounter on campus whether it is academic, personal or emotional. Efforts are made to ensure a student life, free from worries and distractions, to help them learn to manage their affairs on their own and to cope with strains and stresses which are part of the growth processes.

The student Affairs Office provides proactive support and capacity building services to promote cocurricular activities in the University which could enrich our graduates at every stage of their life as well as they could build strong relationships with their peers, faculty, administration and other stakeholders. The knowledgeable friendly student intern staff is cross-trained in all areas to provide student services and get you on your way. The main function of the SSC is to provide student centered customer friendly services as orientation of new students, students enrollment and registration, issuance of student ID cards and New Email Ids, intimation of course registration, timetable and exam dates, handling queries and helping students in their academic problems, career Counseling, Internships and Job Placements and Scholarships/fee concession and registration of students for Co-curricular activities.



Dr. Ayaz QaiserDirector Student Affairs, GAUS

DIRECTORATE OF ADMISSIONS

The Directorate of Admission at Grand Asian University serves as the gateway for prospective students looking to join a world-class academic institution committed to excellence in education, research, and innovation. The directorate plays a pivotal role in facilitating the admission process, ensuring that students from diverse backgrounds have the opportunity to become part of a vibrant learning community. The mission of this directorate is to recruit, enroll, and support a diverse and talented student body that will thrive academically and contribute to the university community. With a commitment to inclusivity and access, the department strives to make the admission process smooth and equitable for all applicants.

The key functions comprising of guiding and imparting personalized attention to students, throughout the entire admission process, helping them in the choosing the best program, eligibility criteria, application processing, entrance exams and interviews, course offerings, scholarship opportunities and financial aid, campus tours and open house discussion. Also, this Department helps to maintain a connection with the university's alumni network, providing prospective students with valuable insights into career opportunities and life after graduation. So, cumulatively the admission department in Grand Asian University is dedicated to assisting students in every aspect of their journey to becoming successful members of the university's academic community and thereafter the most functional entities for society.



Ms Rabia Tahir
Deputy Director Admissions, GAUS

DIRECTORATE OF HUMAN RESOURCE

The Directorate of Human Resource at Grand Asian University, Sialkot. As a team is committed to foster a supportive and inclusive environment for our employees. As a Human Resource Department we have created a positive diversified cultural environment where values are obliged. The diversified culture also raises more positive voices which build our workforce structure stronger and deeper in terms of learning and gaining knowledge. We practice equal employment opportunities for the all qualified individuals, regardless of race, gender, ethnicity, age, disability and cultural differences. Our recruitment process is based on equal opportunity parameters which attracts people from diverse culture. The merit is one of our core values and we welcome people who bring best to the mutual growth of the team and also offer benefits to those who are working with us.

Our mission is to develop and retain the talented and diverse workforce which contributes to the academic and institutional excellence of the university. At Grand Asian University Sialkot, we believe that our people are our main asset, and this department is dedicated to create such a working environment which promotes innovation, teamwork, collaboration and strong sense of learning. This Department is overseeing the recruitment process, employee's relations, employee compensation & benefits, payroll management, employee training and workshops and employees development programs.

Our employees have direct access towards the medical facilities where they have quality treatment and medication for themselves and their families. We not only care our employees but also their families because for us their families are also a part of the institution.



Ms Rabia BibiDirector HR, GAUS

IT SERVICES

The IT Services Department at Grand Asian University plays a pivotal role in supporting the technological needs of students, faculty, and staff. It ensures the smooth functioning of the university's IT infrastructure, providing essential services that enhance academic, administrative and research activities. The department's core responsibility is to deliver reliable, efficient and secure technology solutions across the campus, fostering an environment where technology seamlessly integrates with the university's academic mission.

IT Services manage a wide range of tasks, from maintaining the campus-wide network and providing Wi-Fi access, to overseeing data security, software management and hardware maintenance. The department also ensures the availability of key academic resources such as learning management systems (LMS), cloud storage and online collaboration tools. By maintaining up-to-date and secure systems, IT Services guarantees that students and faculty can access essential academic resources from anywhere, anytime.

IT Services places a high priority on cyber security, protecting sensitive data and ensuring that all systems are secure from potential cyber threats. It continually evaluates and upgrades its security protocols to meet the latest standards.

Through its commitment to excellence, innovation, and service, IT Services ensures that Grand Asian University remains a leader in technology-driven education, supporting both the present needs of the community and the future ambitions of the institution. By keeping the university connected and its systems secure, IT Services is integral to the success of Grand Asian University's mission.



Mr Abdul Samad Hashmi IT Manager, GAUS

MEDIA & WEB DEVELOPMENT TEAM

The Media & Web Development Team at GAUS is dedicated to creating and managing the university's digital platforms and media presence, ensuring they are innovative, user-friendly and aligned with the institution's goals for engagement and excellence. This team is responsible for delivering a seamless online and media experience for students, faculty, staff and visitors by developing and maintaining websites, web-based applications, and multimedia communication tools that enhance the university's academic, administrative and outreach functions.

In addition to managing websites, the Media & Web Development Team designs custom websites and digital media solutions to support various academic and administrative needs. These include student portals, faculty dashboards, online enrollment systems and dynamic media content, streamlining processes and enriching the user experience. The team collaborates closely with other departments to identify their digital and media needs and transform them into impactful solutions.

A strong focus on security ensures that all platforms comply with the latest cyber security standards. Regular monitoring, updates and the implementation of cutting-edge security measures safeguard sensitive information and maintain trust.

The Media & Web Development Team is instrumental in shaping the digital and media identity of GAUS. By delivering innovative, secure and reliable solutions, the team empowers the university to thrive in a modern, technology-driven academic landscape, promoting connectivity, creativity and growth in the digital and media spheres.



Mr Rabi Ul Hasnat Ahmed Chief Designer, GAUS



Mr Waqar Azeem Khan Web Developer



ADMISSION INFORMATION

ADMISSION POLICY

1. CONFIRMATION OF ADMISSION

- Selected candidates are required to confirm their **acceptance of admission** by depositing the **prescribed fee** and submitting complete **set of documents**
- The admission in the University will be **provisional subject** to the verification of the **Certificate/Degrees of the students**
- Submission of incorrect/ false forged/ fabricated fraudulent document(s) or information is a criminal offence and in either of such cases, the University reserves the right to initiate legal proceedings in addition to cancellation of admission from retrospective effect at any stage without any prior notice.

2. INTER PROGRAM TRANSFER

A student registered in a program after paying dues, may be transferred to another program in the University subject to the condition that she has applied in the program of second choice and falls on merit (if applicable) with the permission of the concerned Dean/HOD and Registrar or nominee within fifteen (15) days of commencement of classes. Afterwards, no permission for inter program transfer will be accepted in any case. In the case of program transfer, the fee of new program will be charged /adjusted accordingly.

3. SEMESTER FREEZE

The freezing in first two semesters shall not be allowed. The detailed Regulation for freezing of semester's may he perused in the Rules and Regulations for Examinations

4. MIGRATION/TRANSFER OF CREDITS

A. Migration from other Institutions to GAUS:

The Vice Chancellor, on the recommendations of the Head of Department/Dean of Faculty through the Registrar may allow migration/transfer of credits of a regular student earned from HEC recognized Institutions and accredited by the concerned accreditation bodies, to this University, subject to fulfillment of following conditions/submittal of following documents:

- a) The applicant concerned should fulfill minimum entrant criteria of the program of this University. No migration will be allowed in first and final year classes.
- b) The applicant will come in office along with required documents and will complete, and submit application on prescribed form obtained from the Registrar Office providing genuine and plausible reasons for migration through his parent Institution to the Registrar in all respects will be referred to the Head of Department/Dean of Faculty concerned who shall securitize the same and determine (i) whether the applicant fulfills the entrant criteria

ADMISSION POLICY

- (ii) Semester in which he/she will be allowed migration (iii) Deficiency course(s) to be studied by the applicant during his/her stay in this University, if allowed or declare course(s) as exempted, so that his/her studies at parent Institution could be declared at par with the students of this University. Such recommendations shall be submitted by the HOD concerned to the BOF for endorsement and onward consideration of the Registrar.
- c) The request of applicant who has been dropped out, rusticated, expelled, or whose entry in the parent Institute was banned for the reasons whatsoever at any time during his/her academic career, SHALL NOT BE CONSIDERED
- d) The applicant should therefore, be required to submit a "No Objection Certificate" in this context that:
- He has secured not less than 2.5 GPA or equivalent in the examination based on which migration is being requested.
- He has neither been debarred from taking the University/Institution examinations nor suspended, expelled/rusticated for whatsoever reason, from the university or institution from where he intends to migrate.
- No disciplinary action is pending against him at his parent University/Institution.
- e) Admission by migration will not be allowed ordinarily after the expiry of four weeks from the commencement of the semester classes.
- f) Migration fee, as prescribed by the University per semester to be studied, will be charged.
- g) Credits hours will be transferred on course to course basis ie. A person taking course A at University X is allowed to transfer his/her credits to GAUS provided that course A is equivalent to course taught at the GAUS.
- h) Courses with credit hours and course contents equivalent to the degree program at this University, shall be considered for transfer.
- i) Exempted courses along with their credit hours shall be depicted on the final/official transcrips but their grades obtained from the parent Institution will not be displayed and will not be considered for CGPA calculation. Such subjects will be marked as "Transferred Credits" (TC)
- j) The applicant should have to complete minimum 50% of the courses from the Grand Asian University, Sialkot. No credit hours of a course will be transferred if the grade is 'C' or less for undergraduate and 'B' or less for graduate/postgraduate programs.

ADMISSION POLICY

- B. Migration from GAUS to other Institutions:
- a) A student desiring to leave this University and to join another university or institution shall apply to the Dean of the Faculty concerned on the prescribed form.
- b) The student shall be required to clear all the university dues before he applies for migration.
- c) In case of a student who has been debarred from taking the University examination or has been expelled or rusticated for whatsoever reason, No Objection Certificate (NOC) shall not be issued so for as the punishment is in force.
- d) The Registrar shall issue NOC which shall be valid for 60 days only.
- e) A student who has obtained NOC from this University, but has not secured admission in another institution may be re-admitted to the GAUS in the class to which he can be admitted under the regulations provided that:
- I. His absence from the current teaching session of that class does not exceed four (4) weeks. ii. He surrenders the NOC.

Any change/ addition/modification, if made in these regulations will also be applicable.

The Worthy Vice Chancellor has the powers to regret any request for migration after recording proper reason(s) or relax any of the above condition(s) to be determined on case to case basis, if situation warrants.

ENTRY REQUIREMENTS

Programs in Biosciences

Undergraduate Programs (ADP/BS)

At least 2nd division (50% marks) in FSc Pre-Medical and Pre-Engineering or equivalent (12 years of education) or Equivalent HSSC Certificate from IBBC Islamabad with at least 50% marks.

Graduate Programs (MS)

16 years of Education or 4 years of BS in Biochemistry, Microbiology, Biotechnology or Pharmacology for MSc/MS Programs in relevant field with at least 2nd Division with 50% marks in annual system and/or 2.5/4.00 CGPA (semester system) from HEC recognized University.

Qualifying GAUS entry test (securing minimum 50% marks) and interview is mandatory or valid scores (above cumulative 50%) in GAT-GENEAL test conducted by the University authorized/approved testing and evaluation agencies is also acceptable for the admission in MSc/MS programs.

Programs in Food Nutition and Agricultural Sciences

Undergraduate Programs (ADP/BS)

FSC Pre Medical, Pre-Engineering, DAE Food Science or Equivalent HSSC Certificate from IBBC Islamabad with at least 50% marks.

Graduate Programs (MS/PhD)

- Students seeking admission to MS in Human Nutrition & Dietetics must possess minimum CGPA 2.0 out of 4.0 or 50% in annual system in BSc (Hons.) Human Nutrition and Dietetics, BSc (Hons.) Human Nutrition, BS (Hons) Nutrition and Dietetics, BSc (Hons) Food Sciences and Human Nutrition, Doctor of Nutrition and Dietetics, BS/ BSc (Hons) Home Economics (Food and Nutrition) and BSc (Hons.) Nutrition.
- NTS test / GAT-GENERAL / University Test / subject test (minimum 60% marks)
- Student seeking admission in PhD Human Nutrition and Dietetics must possess the following entry requirements.
- M.Sc.(Hons.)/M.S. Human Nutrition and Dietetics, M.Sc. (Hons.) Nutrition, M.Sc.(Hons.) Food Science and Nutrition/ M. Phil Food and Nutrition, M.Sc. (Hons.) Home Economics (Food and Nutrition), M.Sc. (Hons.) Food Science and Technology/ Food Technology (18-year education) from any HEC Recognized University with minimum 3:0/4:0 CGPA in semester system and/or first division in annual system OR equivalent 18 years of education/ degree in relevant field (Biological and Medical Sciences)
- At least 70 % scores are required in the University entrance test for PhD program

ENTRY REQUIREMENTS

Programs in Business Administration and Accounting and Finance

Undergraduate Programs (ADP/BS)

FSc/ICS/ I.Com/FA or an Equivalent HSSC Certificate from IBBC Islamabad with at least 45%

Programs in Computer Science and Information Technology

Undergraduate Programs (ADP/BS)

Minimum 50% marks in Intermediate/12 years schooling/A- Level (HSSC) or Equivalent are required for admission in all BS Computing Programs other than BS Computing Engineering excluding sports and Hafiz-e-Quran marks.

Programs in Social Sciences

Undergraduate Program (ADP)

FSc/ICS/ I.Com/FA or Equivalent HSSC Certificate from IBBC Islamabad with at least 33%

Programs in Pharmacy

Undergraduate Program (Pharm D)

Minimum 60% marks in FSc /12 years schooling/A- Level (HSSC) or Equivalent

*An equivalency certificate by IBCC will be required in case of education from some other country or system.

Students who have not studied Mathematics at the intermediate level have to pass deficiency courses of Mathematics (06 credits) in the first two semesters.

Graduate Programs (MS)

Degree in the relevant subject, earned from a recognized university after 16 years of education with at least 60 % marks or CGPA of at least 2.0 on a scale of 4.0.

ENTRY REQUIREMENTS

Programs in Law

Undergraduate Program (LLB)

At least 2nd Div. (50% marks) in FA/FSc or equivalent (12 years of education) with Law Aptitude Test (LAT), qualified with minimum score of 50% and has maximum of three chances to pass the test. **Graduate Program (LLM)**

Students seeking admission in LLM need to clear LLB with at least 2nd Division or 50% marks in annual system and/or 2.5/4.00 CGPA (semester system) from HEC recognized University.

Programs in Engineering

Undergraduate Programs (BS)

An applicant for admission to BS/BSc in mechanical, civil and electrical engineering courses offered by the University must fulfill the following requirements:

- He/she should have obtained at least 60% marks in Intermediate/DAE/B.Sc./B.Tech (Pass) examination excluding sports and Hafiz-e-Quran marks.
- In case of a candidate applying on the basis of B.Sc. degree, he should have also obtained at least 60% marks in Intermediate/ DAE examination.
- He/she should have appeared in the entry test arranged by this University for that particular academic session in which he seeks admission.
- The student should have at least 50% overall adjusted admission marks computed by giving 67% weight to Intermediate/DAE /B.Sc./B.Tech (Pass) examination result and 33% to University Entry.

Graduate Programs (MS)

- Students seeking admission to MS in M.Sc. Electrical, Mechanical or Civil Engineering earned from a recognized university after 16 years of education and must possess minimum CGPA 2.0 out of 4.0 and 50% in Semester/Annual system in undergrad and registered with PEC.
- NTS test / GAT-GENERAL/ University Test/ subject test (minimum 60% marks)



CAMPUS FACILITIES

FREE TRANSPORT

GAUS is the first ever university in the region to provide Free Transportation to all of its students living around upto 100 km distance. This one of the landmark facilities is being provided to the students to make them convenient to reach the university in time and go back home safely. This facility also entails the benefit of saving good amount of money each year, for the students.



SEMINARS, WORKSHOPS, AND CONFERENCES

GAUS regularly hosts seminars, workshops, and conferences, connecting students with industry leaders, scholars, and professionals. These events foster knowledge-sharing, provide career insights, and expose students to the latest trends in their fields. These activities are essential for skill development and networking opportunities.



EDUCATIONAL AND RECREATIONAL TOURS

The university organizes educational tours to industries, research centers, and cultural landmarks, alongside recreational trips that allow students to explore different regions. These tours broaden students' perspectives, enhance learning experiences, and provide opportunities for relaxation and bonding.





STUDENT HOSTELS (BOYS AND GIRLS)

GAUS offers secure and comfortable hostel accommodations for both male and female students, with separate facilities for each. The hostels provide a safe and supportive living environment with all essential amenities, ensuring students' well-being and fostering a sense of community.





ENGINEERING AND SCIENCE LABS

Our state-of-the-art engineering and science labs are fully equipped with cutting-edge technology and tools. These labs provide hands-on experience for students in various disciplines, allowing them to apply theoretical knowledge to real-world scenarios. The labs foster innovation and practical problem-solving, essential for students' academic and professional growth.





WELL-EQUIPPED COMPUTER LABS

Our advanced computer labs are furnished with the latest hardware and software facilities offering students the necessary resources for research, coding, data analysis, and other academic activities. With high-speed internet and specialized software, the labs support both individual projects and group collaborations, enhancing learning efficiency.





LIBRARY



Mr Jamshaid Wazeer Zafar Chief Librarian, GAUS

The University Library and Information Resource Center (LIRC) at Grand Asian University, Sialkot, is a modern, air-conditioned facility that plays a pivotal role in supporting the university's academic programs and research endeavors. It offers a comfortable and conducive environment for study and research, with a spacious seating capacity, designed to accommodate a large number of students at any given time. The LIRC boosts one of the most comprehensive collections of books in Pakistan, housing over 33,000 volumes across various disciplines, in addition to subscriptions to a wide range of foreign and local journals, magazines, and online databases. Equipped with advanced technology, the library ensures easy student access, both in-person and remotely through its live online catalog, enabling students to search holdings and access scholarly journals and e-books from anywhere.

The LIRC is committed to knowledge dissemination through conventional and electronic means, aiming to enhance the intellectual capital of both the university and the broader community. Its Off-Campus Library Services (OCLS) cater to the needs of distant learners and e-students with the same dedication as on-campus users. OCLS ensures the delivery of e-resources, including journal articles and e-books via email. The facility is fully air-conditioned, providing a comfortable atmosphere for focused study, and offers ample seating to ensure students have the space they need for individual and group work. With access to the Higher Education Commission (HEC) Digital Library & E-Library Punjab, the LIRC stands as an indispensable resource, supporting research, academic growth, and a student-centered approach to learning, both on and off-campus. This modern, student-friendly facility is integral to the academic experience at Grand Asian University and fosters learning, research, and innovation.







CAFETERIA AND SECOND CUP CAFE

The campus features a spacious cafeteria offering diverse and healthy food options, providing a relaxing environment for students to unwind. Additionally, Second Cup Café serves premium coffee and snacks, creating a cozy spot for social interactions or study breaks.









GRAND MOSQUE

A beautiful Grand Mosque is located at the campus, providing students with a peaceful space for prayer and reflection. The mosque accommodates a large congregation, supporting the spiritual needs of the university community and fostering a sense of unity and tranquility.



STUDENT SOCIETIES

Our vibrant student societies cater to a wide range of interests, from academic pursuits to creative arts and social causes. These societies encourage leadership, teamwork, and personal growth, providing a platform for students to explore their passions and engage in meaningful activities, and build a strong community.





EVENTS AND EXTRACURRICULAR ACTIVITIES

GAUS offers a wide range of co-curricular activities from sports to cultural events, to enrich student life. These activities promote physical fitness, creativity, and teamwork, helping students in maintaining a balanced lifestyle while fostering social connections and leadership skills.

Sports Gala





Alumni Reunion





Food Fest 2023





Qawali Night





Food Exhibition 2024





Interactive Session with Dr. Javed Iqbal





Interactive Session with Mr. Adeel Hashmi





Interactive Session with Soban Attari





Interactive Session with Tuaha ibn Jalil





Dawn Education Expo 2024





WALKS

Smog Awareness Walk





World Food Safety Day





World Diabetes Day (November 14, 2024)









Smog Awareness Campaign





Smog Awareness Projects









MEMORANDUM OF UNDERSTANDINGS

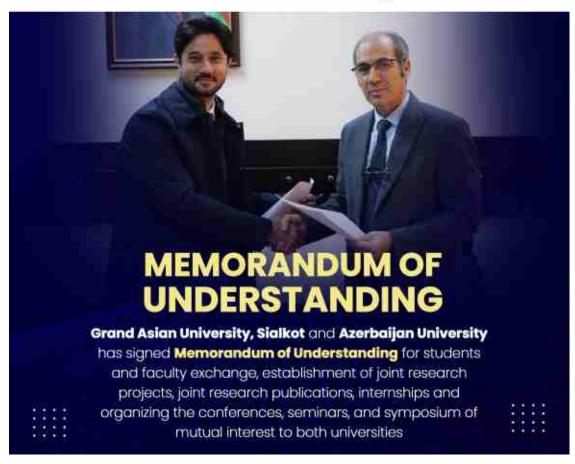
FOREIGN UNIVERSITY





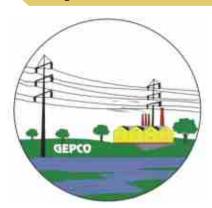






NATIONAL ORGANIZATIONS

Gujranwala Electric Power Company (GEPCO)





Federal Board of Revenue (FBR)





AirSial





NATIONAL ORGANIZATIONS

Sialkot Police





Rangers





Mentors







CAREER SERVICES

Internship and Job Placement Office

In line with our commitment to producing industry-ready graduates, Grand Asian University Sialkot has established a dedicated Internship and Job Placement Office. This office serves as a vital link between students and potential employers, facilitating internships, job placements, and career development opportunities. The office works closely with industry partners, including those with whom we have signed MOUs, to ensure that our students gain practical experience and are well-prepared to meet the demands of the job market. Additionally, the office organizes career fairs, employer networking events, and skill development workshops to further enhance student employability.

Student Counseling and Career Guidance

Understanding the importance of holistic student development, the university has strengthened its Student Counseling and Career Guidance services. These services are designed to support students in navigating their academic journey, overcoming personal challenges, and making informed career choices. Our counseling services offer personalized guidance, while career advisors assist students in identifying their strengths, setting career goals, and developing the skills necessary to achieve them. Workshops, seminars, and one-on-one counseling sessions are regularly conducted to ensure that our students are equipped to succeed both academically and professionaly.



STUDENT SUPPORT SERVICES

Business Incubation Center

The Business Incubation Center is designed to support entrepreneurial initiatives by providing resources, mentorship, and guidance. Students can develop and launch their business ideas with access to industry experts, networking opportunities, and a collaborative environment, encouraging innovation and real-world business solutions.

Campus Market

The campus market provides convenient access to essential items, snacks, and other goods for students and staff. It offers a variety of products to meet every day needs, ensuring that students have easy access to supplies without needing to leave the campus.

Medical Services

GAUS is situated adjacent to its own fully equipped hospital, offering comprehensive healthcare services to students and staff. With access to specialized medical professionals, state-of-the-art facilities, and round-the-clock care, students benefit from full medical support during university hours. Regular checkups, emergency services, and advanced treatments are readily available, ensuring that all health needs are promptly addressed within close proximity to the campus.





Grand Asian University is committed to Academic Integrity, which involves upholding ethical standards in all aspects of academic work, including learning, teaching and research. It involves acting with the principles of honesty, morality, trust and responsibility and requires for knowledge and its development.

Students of GAUS are expected to conduct themselves in a manner that reflects these values.

Every student shall observe the following Codes of Conduct:

- Respect teaching, non-teaching staff and others in authority.
- Students must display student ID cards within university premises.
- Cleanliness of mind, speech, habits, body and environment.
- Smoking is prohibited within all buildings of the University.
- Displaying/carrying/putting any badge, sticker, handout, poster or placards.
- Staging, inciting or participating in any walk-out or strike, is prohibited.
- Possession of weapons of any kind in all premises of the University.
- Students are not allowed to have physical touch.

Disciplinary action will be taken in case of misconduct.

Anti-Ragging Policy

Grand Asian University Sialkot is committed to creating a safe, respectful, and inclusive campus environment. Ragging in any form is strictly prohibited and considered a serious offense. This policy outlines the university's stance against ragging, measures for prevention, and actions to be taken in the event of a violation.

Prohibited Conduct:

- Physical abuse, including but not limited to hitting, slapping, or forcibly restraining.
- Verbal or mental abuse, including teasing, mocking, or threats.
- Any activity that disrupts a student's academic or social life.
- Forcing an individual to perform tasks or participate in activities against their will.

Disciplinary Actions:

- Any student or group found guilty of ragging will face disciplinary action, which may include:
- Suspension or expulsion from the university.
- Withdrawal of scholarships or other academic privileges.

Reporting Mechanism:

• Students can report ragging incidents to the Office of Student Affairs.

Grand Asian University is committed to maintaining a zero-tolerance stance on ragging and expects all community members to uphold this policy to create a safe and welcoming campus for all.

Attendence Policy

No candidate shall be eligible to appear in an end semester examination unless the following conditions are fulfilled:

- 1. He has been on the rolls of the university during the semester for which the examination is being held.
- 2. He is not debarred from taking the examination under the university rules and regulations enforced for the time being.
- 3. He has attended a minimum of 75% of the total number of lectures delivered, the laboratory periods held, design and practical work done in a course during the semester for which the examination is being held. The head of the concerned department may, for valid reasons, condone this deficiency up to 10% after consultation with the course teacher concerned.
- 4. If a student does not fulfill the condition of attendance, he shall be awarded an 'F' grade in that course, whether theory or lab. He will have to re-register himself for that course in the summer semester if offered or in a regular semester (as an additional course) in which the course is being offered.
- 5. The course teacher(s)/Lab teacher(s) concerned will maintain the attendance record for their courses. They will display and forward the list of such candidates who do not fulfill the condition of attendance to the Controller of Examinations through the Head of the Department and the Dean of Faculty, immediately after the completion of the teaching session. Such candidates shall not be allowed to appear in the End Semester Examination of that course.
- 6. At the end of each month, the teacher concerned shall send to Head of the Department a statement giving the total number of lectures delivered or labs conducted by him together with the number of lectures or labs attended by each student.

Harassment Policy

Grand Asian University (GAUS) is committed to providing a safe, harassment-free environment for all students. This policy aims to protect students from any form of harassment, discrimination, or abuse, ensuring that every individual is treated with dignity and respect.

This policy covers any unwelcome behavior, verbal or physical, that creates a hostile, intimidating, or offensive environment which includes but is not limited to:

- Unwanted sexual advances, requests for sexual favors, or other verbal, non-verbal, or physical conduct of a sexual nature.
- Repeated, unreasonable actions directed toward a student intended to intimidate, degrade, or humiliate.
- Unfair treatment based on race, gender, religion, ethnicity, nationality, disability, or any other personal characteristic.

Reporting and Response Procedure

- Students may report harassment through the Student Affairs Office.
- Upon receiving a report, GAUS disciplinary committee will conduct an impartial investigation respecting the confidentiality of all involved parties.
- If a violation is confirmed, GAUS may take disciplinary actions, which can include warnings, suspension, or expulsion depending on the severity of the misconduct.

Retaliation against any student who reports harassment in good faith is strictly prohibited. Any acts of retaliation will be treated as a serious violation of university policy.

GAUS will conduct workshops, orientations, and awareness campaigns regularly to educate students about harassment and the importance of creating a respectful campus culture.







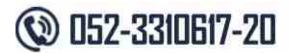








Admissions Office





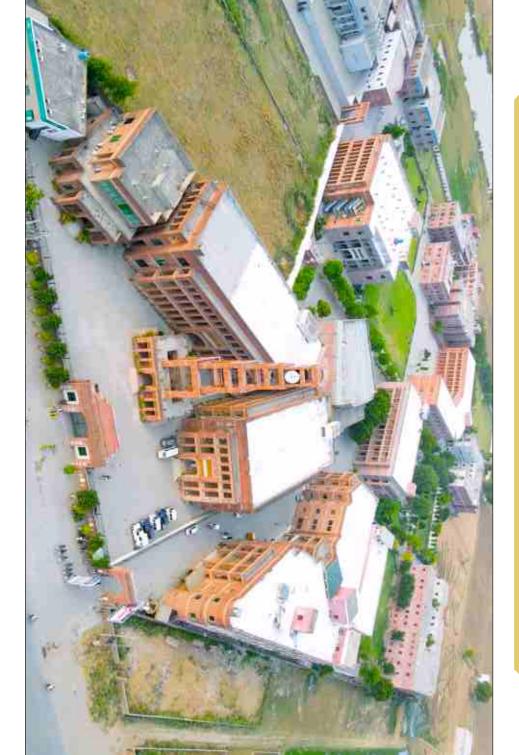
Academic Department



Career Services Office



APPENDICES



Broad Campus (Aeriel View)

Composed and Developed by
Prof. Dr. Muhammad Mushtaq Ahmad,
Department of Food, Nutrition & Agriculture Sciences
Designed and Formatted by
Rabi-ul-Hasnat, Chief Designer, GAUS
Supported by the Team of Prospectus Development Committee,
Notified Vide Letter No. GAUS / Registrar 1/28 Sialkot, the 23rd September /2024











7km-Pasrur Road, Sialkot

