

ABASYN
UNIVERSITY

PROSPECTUS
2018-19

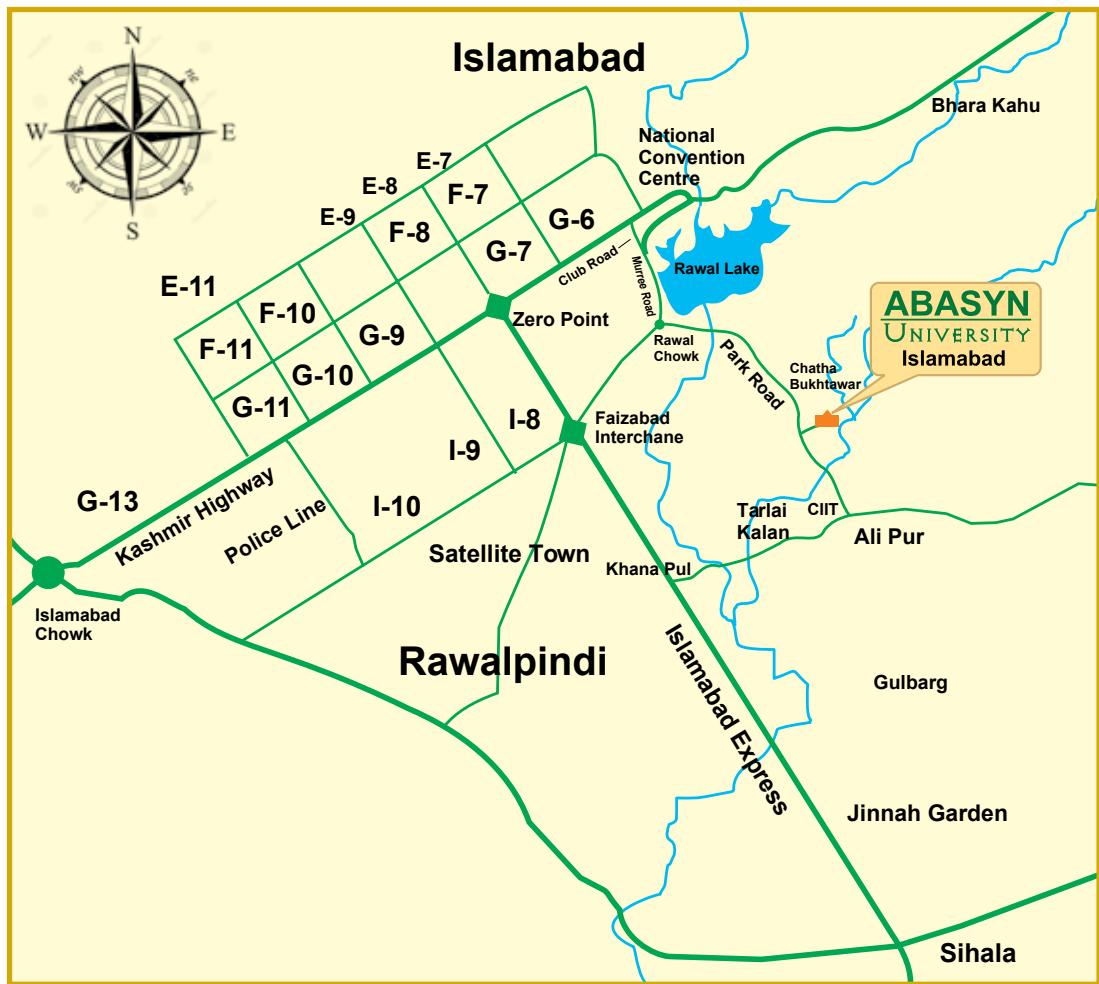
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Message from the Chancellor

Education is the core value of a nation, and the function of an educational institution is not only to take care of an individual's academic growth but also to take charge of his/her personal, social, mental, psychological, and spiritual maturity for overall learning and transformation. Only an institution which takes care of all these dynamics can shape a true scholar and a true professional, and Abasyn University is one of its kind in this realm.

Abasyn University, established in 2007 through an Act of Provincial Assembly, has now emerged as a sustainable organization with the grace of Almighty and the committed efforts of the faculty and the management. Within a short span of time, the university has made a number of achievements including a thriving campus at Islamabad.

This is heartening to know that apart from excelling in academic standards, students of Abasyn University actively participate in diverse socio-cultural activities of high standards such as tree plantation, traffic education, blood donation, youth awareness, and community service campaigns, drives, and projects to nurture exceptional values of social importance. The University, energized by its distinguished faculty and strengthened by its brilliant students, now stands in the highest echelons of education in the country and strives to forge new paths for a brighter tomorrow of Pakistan.

I pray to Allah to crown our endeavours with success!

Muhammad Imran Ullah



Message from the Vice Chancellor

Great institutions are more than places. They're ideas, and same is true for Abasyn University which is meant to nurture the interplay of ideas, students, and place in ways that serve them all. At Abasyn University we put to work our strongest and most promising academic disciplines and build avenues of access and opportunities for the students.

On behalf of the University community, I welcome you to the world of Abasyn University. This Prospectus gives you an overview of the University's campus, programs and courses.

With a very blend of highly qualified faculty, excellent infra-structure and handsome enrolment figures, Abasyn University has blossomed into an institution of great eminence.

One of the University's two main roles is to help our students achieve that potential and become what they want to be and what society needs. Our other main role is to generate new knowledge that improves the world and illuminates our understanding of it. We are acknowledged as excelling in both of these roles, and we intend to do even better - hence the ambitious programme of investment in facilities, faculties and staff at Abasyn University will be continuing in the future ahead. Abasyn University has taken full advantage of the modern techniques of communication to facilitate and support its students for better quality education by expert faculty members in a congenial academic environment.

The goal of our University is to contribute to community through the pursuit of knowledge and patronage of quality education and thereby promoting and

ensuring excellence in higher education in Pakistan. It is constantly seeking new vistas of wisdom and knowledge to stand out distinctly apart from the milling crowd of educational providers. The introduction of innovative and dynamic programs has proved to be the key factors in the perspective of lucrative placements. A bright opportunity is knocking at your door. Please come and tap it.

I request you to come and personally visit Abasyn University or go through this prospectus to know more about our academic environment, curriculum



and teaching/learning proceedings.

I wish a very bright future for all of you. I hope that after getting admission and education at Abasyn University, you will become an asset for the country and you will be able to play an important role for the development and prosperity of yourself, your family and the people of Pakistan.

Dr. Syed Umar Farooq



Welcome to Abasyn University

We offer you:

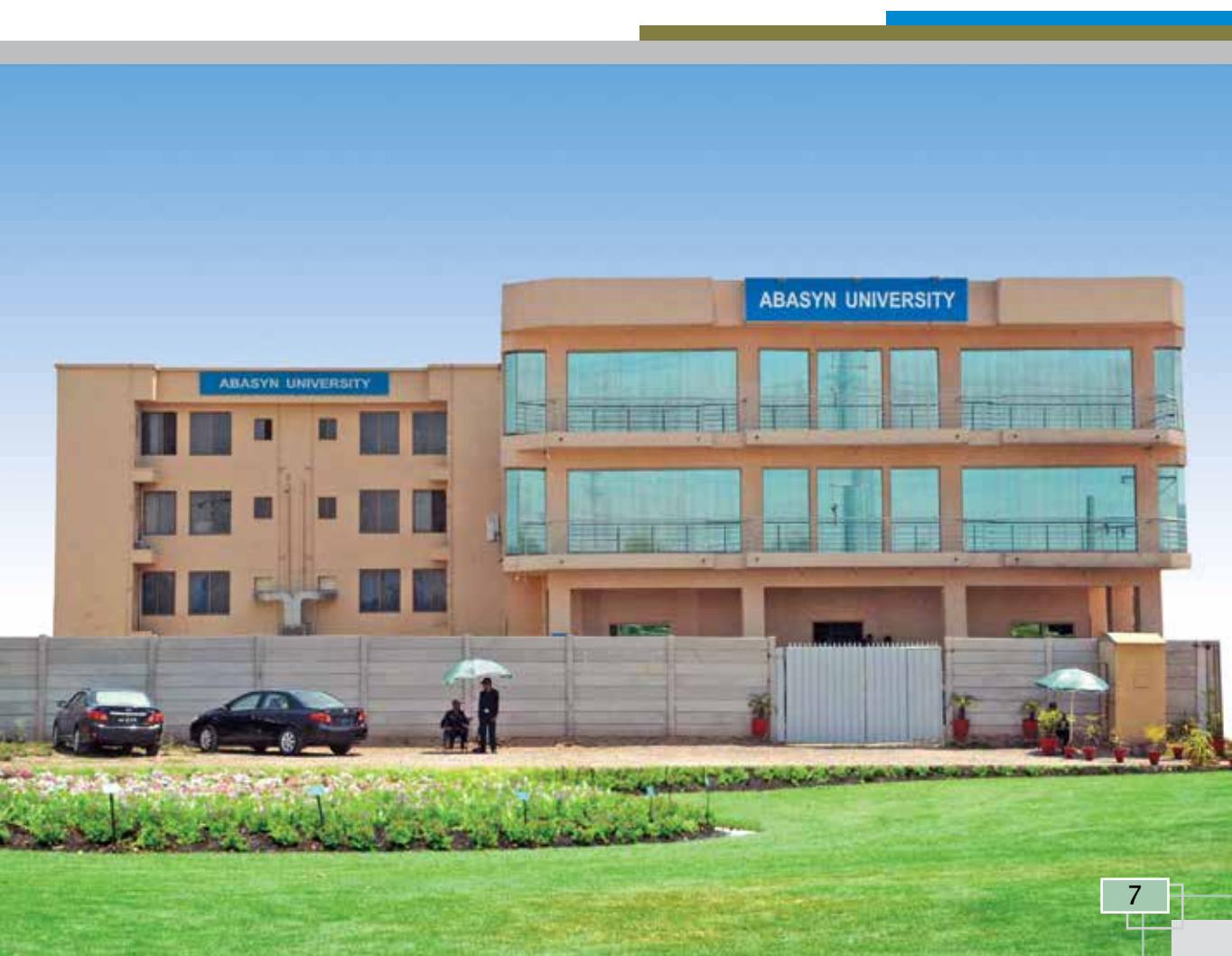
- High quality academic experience
- Strong student support facilities
- Accredited and approved academic programs
- Lively and stimulating environment for growth
- Beautiful location at Peshawar and Islamabad
- State of the art lecture rooms, laboratories, library and IT facilities.
- World – class research facilities to support its PhD program in collaboration with partner universities.
- Provide resources to help develop your study skills and produce original work.
- Faculty involved in industrial research using research projects to inform undergraduate lectures and seminars.

Introduction to Abasyn University

Abasyn University, Peshawar is chartered by the Government of Khyber Pakhtunkhwa (KPK) and recognized by the Higher Education Commission (HEC), Pakistan. Abasyn University was the only University in KPK which was awarded category 'W' at the inception which was the highest category to be awarded to any institution in the old ranking system by HEC. By the Grace of Allah and the support of sponsors and staff, HEC has upgraded category 'W' to 'W3' in the new ranking system. Abasyn University offers degree programs in various disciplines including Engineering, Computer Science, Business Administration, Pharmacy, Microbiology, Education and Technology. National Computing Education Accreditation Council (NCEAC), HEC has accredited BS in Computer Science and BS in Software Engineering programs offered by the University. The University has been permitted by the Pharmacy Council of Pakistan to run Pharm-D program. The University is also allowed by the Pakistan Engineering Council to offer BE in Electrical Engineering and BE in Civil Engineering programs.

Introduction to Abasyn University Islamabad Campus

HEC has granted NOC via letter No. 16-64/HEC/A&A/2010/401 to Abasyn University to open its campus at Islamabad. The University has established state of art facilities in Chak Shahzad Islamabad, for the campus. Highly qualified teaching and non teaching staff have been hired. The campus has also established fully equipped labs with latest state of the art technologies and tools. The campus has also developed a well stocked library which has access to digital research databases, e-journals, e-books and e-reports.



Mission Statement



ABASYN University will have a transformative impact on society through continual innovation in education, research, creativity, and entrepreneurship.



Aims and Objectives of the University

The main objective of the university is to provide high quality, comprehensive educational, training and research opportunities that produce highly qualified graduates and responsible citizens who are able to meet the needs of all sectors of human activity. The University offers to its students relevant qualifications, including professional training, which combine high-level knowledge and skills, using courses and content continually tailored to the present and future needs of society;



General Goals of the University are:

- a. To pursue excellence in education and research by developing relevant curriculum.
- b. To produce graduates who possess high quality abilities to contribute towards the development of society.
- c. To encourage students to challenge current theories and practices.
- d. To encourage students to break new grounds and cultivate leadership quality.
- e. To develop strong interpersonal and communication skills in its graduates.

Benefits to the Students

Abasyn University aims to provide relevant education to its students which will provide many career opportunities to them.

In fulfilling its mission Abasyn University cultivates following qualities in its students:

- a. A strong foundation of knowledge and skills,
- b. A research culture which they will use in practical life,
- c. An understanding of mutual respect for all ethnic and cultural groups,
- d. A sense of being responsible citizens of the society, and
- e. Values of hard work and dedication

Students' Views



'Abasyn University provide the right tools for students to thrive in taking charge of their own development. University is playing a vital role in the development of students by establishing link between industry and education.'

~ Aqib Wahid Butt ~
BEEE



'I highly appreciate the encouragement and untiring effort of my teachers who leave no stone unturned in our academic period. Because of that support I become a part of Dean Honor List.'

~ Muhammad Hanif ~
BSSE



'The academic experience and the overall student experience has benefited my personal development hugely. University has provided me with high quality lectures and amazing facilities. I am very motivated through faculty. I have a great social life here. I really enjoy the open and inclusive atmosphere in the campus.'

~ Muhammad Hamza~
BESE



'It gives me great pleasure to say with proud that I am student of MS – Project management at Abasyn University. The Relationship between faculty and student is very cordial, which gave me an opportunity to excel in my area of studies. It has been a year now and I have spent a great and splendid time here, I would like to thank you all the faculty and staff for making me a 'Better Human being'

~ Huma Tehseen ~
MSPM



'Indeed it was a superb and marvelous experience by studying MS Project Management with Abasyn University. Starting from very beginning till end all the University Professors and Staff may be at any level always came up with extraordinary behavior and help. Here I must mention my favorite Dr Umer who always has time for any assistance even from very busy schedule. I must appreciate all the management and faculty for their at most efforts for providing best education.'

~ Ahmad Khizar ~
MSPM



'The experiences of AUIC, both social and academic, are things that I will never forget. The Management department itself provides a friendly and supportive background to student life. Staff in the department have a very diverse range of academic interests, which gives students great opportunities to study a wide spectrum of courses. '

~ Waqar Ahmed Abbasi ~
MSEM



Academic Departments and Programs at

Islamabad Campus

◆ Department of Computing

- BS in Computer Science (BSCS)
- BS in Software Engineering (BSSE)

◆ Department of Engineering

- BE in Electrical Engineering (BEEE)

◆ Department of Civil Engineering

- BE in Civil Engineering (BECE)

◆ Department of Pharmacy

- Doctor of Pharmacy (Pharm D)
- Doctor of Physical Therapy (DPT)

◆ Department of Management & Social Sciences

- Bachelor of Business Administration (BBA)
- Bachelor of Commerce (B.Com)
- BS in Accounting and Finance (BSAF)
- BS English
- BS Psychology

◆ Department of Life Sciences

- BS in Microbiology (BSMB)

◆ Department of Technology

- B.Tec Civil, Electrical, Mechanical

◆ Department of Graduate Studies

- Master of Business Administration (MBA)
- Master in Commerce (M.Com)
- MS in Management Sciences (MSMgt.)
- MS in Engineering Management (MSEM)
- MS in Logistic & Supply Chain Management (MSLSM)
- MS in Project Management (MSPM)
- MS in Computer Sciences (MSCS)
- MS in Software Engineering (MSSE)
- MS in Telecommunication & Networks (MSTN)
- MS in Electrical Engineering (MSEE)
- MSc in Microbiology (MSc.MB)
- PhD Program

Department of Computing and Technology

BS in Computer Science (BSCS)

Program Overview

The BS Computer Science program is one of the most successful programs offered by Abasyn University Islamabad Campus. The program is designed very carefully to equip the student's for ever changing computing industry.

The BSCS program provides students with a strong foundation in the computing discipline and practical skills required in most of present businesses and industries.

The BSCS curriculum is based on HEC and ACM curriculum recommendations. A student can specialize in Software Engineering, Computer Networking, Databases and Web Technologies, Mobile Computing or in Artificial Intelligence by choosing a set of elective courses. The program duration is 4 years (8 semesters).



Program Structure

Category	CrHr	Description
University Requirements	28	General Education Courses - Required by all AU students.
Department Requirements	18	Support area courses - Only required for students who are registered in Computer Science related degrees.
Core Courses	70	Core courses of computer science
Technical Electives	15	Specialization courses
Industrial Training – Internship	02	Students will be required to complete one or two internships during the four years studies. In case internship program cannot be offered due to any reason, students will be required to take courses from the job placement category.
Total	133	

Program Outcomes

The BSCS program enables students to achieve, by the time of graduation:

- An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.
- An ability to function effectively on teams

to accomplish a common goal.

- An understanding of professional, ethical, legal, security, and social issues and responsibilities.
- An ability to communicate effectively with a range of audiences.
- An ability to analyze the local and global impact of computing on individuals, organizations and society.
- Recognition of the need for, and an ability to engage in, continuing professional development.
- An ability to use current techniques, skills, and tools necessary for computing practice.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- An ability to apply design and development principles in the construction of software systems of varying complexity.



Semester Plan

Year 1 Semester I

Code	Course	CrHrs	Pre-Requisite
CS100	Introduction to Computing	3+0	None
CS106	Introduction to Computer Programming	3+1	None
MT100	Basic Mathematics	3+0	None
SS104	English-I (Comprehension)	3+0	None
SS108	Islamic Studies/Ethics (for Non-Muslims)	2+0	None
SS118	Pakistan Studies	2+0	None

Year 1 Semester II

Code	Course	CrHrs	Pre-Requisite
EE101	Basic Electronics	3+0	None
CS200	Object Oriented Programming	3+1	CS106
SS203	English-II (Communication Skills)	3+0	SS104
MG100	Fundamental of Accounting	3+0	None
MT112	Calculus – I	3+0	MT100

Year 2 Semester III

Code	Course	CrHrs	Pre-Requisite
MT216	Discrete Structure	3+0	MT100
SS211	English-III (Technical Report Writing)	3+0	SS203
MT114	Calculus - II	3+0	MT112
CS342	Visual Programming	3+0	CS200
CS210	Data Structure and Algorithm	3+1	CS106
SS216	Introduction to Sociology	3+0	None

Year 2 Semester IV

Code	Course	CrHrs	Pre-Requisite
EE200	Digital Logic Design	3+1	EE101
SS218	Introduction to Psychology	3+0	None
CS251	Introduction to Software Development	3+0	CS100
CS221	Web Programming Language	3+0	CS106
CS220	Theory of Automata	3+0	None

Year 3 Semester V

Code	Course	CrHrs	Pre-Requisite
MT221	Linear Algebra	3+0	None
CS207	Software Engineering	3+1	CS251
CS351	Computer Architecture and Organization	3+0	EE200
CS303	Operating System Concepts	3+1	CS210
CS375	Mobile Application Development	3+0	CS200

Year 3 Semester VI

Code	Course	CrHrs	Pre-Requisite
CS306	Data Communication and Computer Networks	3+0	CS100
MT301	Probability and Statistics	3+0	MT112
CS390	Information Security	3+0	None
CSxxx	Tech. Elective I	3+0	CS210
CS385	Database Management Systems	3+1	CS210
CS307	Artificial Intelligence	3+0	MT201
CS494	Industrial Training Internship (During semester break or Summer Semester)	2	None

Year 4 Semester VII

Code	Course	CrHrs	Pre-Requisite
CSxxx	Tech. Elective II	3+0	None
SS401	Research Methodology and Professional Ethics	3+0	SS203
CS432	Human Computer Interaction	3+0	None
CS404	Analysis of Algorithms	3+0	CS210
CS499	Final Project I	0+3	None

Year 4 Semester VIII

Code	Course	CrHrs	Pre-Requisite
MG403	Entrepreneurship	3+0	None
CS408	Computer Graphics	3+0	None
CSxxx	Tech. Elective III	3+0	None
CS499	Final Project II	0+3	None

List of Electives

Students are required to take three courses from this list.

Code	Title	CrHrs
MT302	Numerical Analysis	3+0
CS395	Compiler Construction	3+0
CS399	Machine Vision	3+0
CS400	Digital Signal Processing	3+0
SE318	Formal Methods	3+0
CS443	Digital Image Processing	3+0
CS442	Oracle Programming	3+0
CS309	Distributed Database System	3+0
CS395	Java Programming	3+0
CS485	Advanced Operating System	3+0
CS412	Advanced Network Security	3+0
CS411	Concept of Programming Language	3+0
CS415	Advanced Computer Network	3+0
CS463	Artificial Neural Network	3+0
CS410	Fuzzy Logic	3+0
CS453	Digital Signal Processing	3+0
CS456	Wireless Communication	3+0
CS483	Embedded System	3+0
CS444	System Programming	3+0
CS468	Mobile Communication	3+0
CS449	Multimedia Technology	3+0
CS405	Data-warehousing and data mining	3+0
CS447	Software Metrics	3+0
CS448	Software Engineering Economics	3+0
CS450	Design Pattern	3+0
CS452	Distributed Computing	3+0
CS453	Introduction to Soft Computing	3+0
CS454	Real-time systems	3+0
CS456	Network Security and Encryption	3+0
CS468	Microprocessor Interfacing	3+0
CS462	Bio-Informatics	3+0
CS443	Web-Engineering	3+0
CS424	Software Project Management	3+0

List of elective courses may be revised as per requirement.



List of courses related to job placement

In case the internship will not be offered then student can be offered special course from the following list:

1. Mini Project 1
2. Current Trends and Practices in Industry
3. Professional Ethics and Practices
4. Project Management

Each of the above courses will be of 2 CrHrs and offered during Summer Semester. These courses are designed in such a way that students will get hand on experience and will be able to find a suitable job for themselves. Major part of these courses will be based on visiting and/or attending training sessions at various organizations and industries.

BS in Software Engineering (BSSE)

In a world where computers and software have become essential, the science of software engineering has become a very important field. BSSE program will provide the following benefits and opportunities to students:

- Program has been accredited from the National Computing Education Council (NCEAC), HEC.
- Strong foundation in the software engineering discipline.
- Hands on practices suitable for employment.
- In depth knowledge about modeling, analysis, design and management of software systems.
- A number of specialization areas
- Double specialization opportunity
- Two internship programs during four year study



Program Structure

Category	CrHr	Description
University Requirements	28	General Education Courses - Required by all AU Students.
Department Requirements	18	Support area courses - Only required for the students who are registered in Computer Science related degrees.
Core Courses	70	Core courses of Software Engineering
Technical Electives	15	Specialization courses
Industrial Training – Internship	02	Students will be required to do one or two internships during the four years studies. In case an internship cannot be offered then students will be asked to take courses from Job placement category.
Total	133	

Area of Specialization

The following are some of the specialization areas covered through the elective courses.

- Software Testing
- Software Quality Assurance
- Software Project Management

Semester plan

Year 1 Semester I

Code	Course	CrHrs	Pre-Requisite
CS100	Introduction to Computing	3+0	None
CS106	Introduction to Computer Programming	3+1	None
MT100	Basic Mathematics	3+0	None
SS104	English-I (Comprehension)	3+0	None
SS108	Islamic Studies/Ethics (for Non-Muslims)	2+0	None
SS118	Pak Studies	2+0	None

Year 1 Semester II

Code	Course	CrHrs	Pre-Requisite
CS200	Object Oriented Programming	3+1	CS106
EE101	Basic Electronics	3+0	None
SS203	English-II (Communication Skills)	3+0	SS104
MG100	Fundamental of Accounting	3+0	None
MT112	Calculus – I	3+0	MT100

Year 2 Semester III

Code	Course	CrHrs	Pre-Requisite
MT201	Discrete Structure	3+0	MT100
SS211	English-III (Technical Report Writing)	3+0	SS203
MT114	Calculus - II	3+0	MT112
SE251	Introduction to Software Development	3+0	CS100
CS210	Data Structure and Algorithm	3+1	CS106
SS216	Introduction to Sociology	3+0	None

Year 2 Semester IV

Code	Course	CrHrs	Pre-Requisite
EE200	Digital Logic Design	3+1	EE101
SE252	Software Engineering	3+1	CS251
SS218	Introduction to Psychology	3+0	None
SE221	Web Programming Language	3+0	CS106
MT301	Probability and Statistics	3+0	MT201

Year 3 Semester V

Code	Course	CrHrs	Pre-Requisite
SE385	Database Management Systems	3+1	CS210
SE253	Software Requirement Engineering	3+0	CS251
SE351	Computer Architecture and Organization	3+0	EE200
SE303	Operating System Concepts	3+1	CS210
	SE Application Domain Elective - I	3+0	CS200

Year 3 Semester VI

Code	Course	CrHrs	Pre-Requisite
SE306	Data Communication and Computer Networks	3+0	CS100
SE3xx	SE Application Domain Elective – II	3+0	None
SE317	Software Design & Architecture	3+0	SE251
SE318	Formal Methods in Software Engineering	3+0	MT201
SExxx	Tech. Elective – I	3+0	
SE321	Software Quality Engineering	3+0	SE253
SE494	Industrial Training Internship (During semester break or Summer Semester)	2+0	None

Year 4 Semester VII

Code	Course	CrHrs	Pre-Requisite
SE424	Software Project Management	3+0	SE253
SExxx	Tech. Elective – II	3+0	None
SS401	Research Methodology	3+0	SS203
SE432	Human Computer Interaction	3+0	None
SE499	Final Project - I	3+0	None

Year 4 Semester VIII

Code	Course	CrHrs	Pre-Requisite
MG403	Entrepreneurship	3+0	None
SE426	Software Testing	3+0	None
SExxx	Tech. Elective – III	3+0	None
SE499	Final Project II	3+0	None

List of Electives

Students are required to take three courses from this list.

Code	Course Title	CrHrs
SE375	Mobile Application Development	3+0
SE220	Theory of Automata	3+0
SE402	Visual Programming	3+0
MT221	Linear Algebra	3+0
SE395	Compiler Construction	3+0
SE399	Machine Vision	3+0
SE400	Digital Signal Processing	3+0
SE443	Digital Image Processing	3+0
SE442	Oracle Programming	3+0
SE309	Distributed Database System	3+0
SE395	Java Programming	3+0
SE485	Advanced Operating System	3+0
SE412	Advanced Network Security	3+0
SE411	Concept of Programming Language	3+0
SE415	Advanced Computer Network	3+0
SE463	Artificial Neural Network	3+0
SE410	Fuzzy Logic	3+0
SE453	Digital Signal Processing	3+0
SE456	Wireless Communication	3+0
SE483	Embedded System	3+0

Code	Course Title	CrHrs
SE444	System Programming	3+0
SE468	Mobile Communication	3+0
SE449	Multimedia Technology	3+0
SE405	Data-warehousing and data mining	3+0
SE447	Software Metrics	3+0
SE448	Software Engineering Economics	3+0
SE450	Design Pattern	3+0
SE452	Distributed Computing	3+0
SS453	Introduction to Soft Computing	3+0
SE454	Real-time systems	3+0
SE456	Network Security and Encryption	3+0
SE468	Microprocessor Interfacing	3+0
SE462	Bio-Informatics	3+0
SE443	Web-Engineering	3+0
SE424	Software Project Management	3+0

List of elective courses may be revised as per requirement.

Domain Specific Electives

(two courses will be covered from this list)

In-depth treatment of one of the following SE Application Domains will be offered in the form of set of two courses mentioned in Semesters VI and VIII. The Department will design two courses based on any specific area and offered to students according to plan.

Domains	Topics /Component	CrHr (for 2 courses)
Information Systems and Data Processing	Data warehousing, Depth in databases Depth in business administration	6
Embedded & Real time Systems	Hardware for embedded systems Languages and tools for development Depth in timing issues; Hardware verification	6
Net-Centric Systems	Knowledge and skills in Web-based Technologies: Depth in networking, Depth in security	6

Domains	Topics /Component	CrHr (for 2 courses)
Enterprise Security Architecture	Business issues related to security, Security weaknesses and risk analysis, Cryptography, cryptanalysis, steganography, etc., Depth in networks	6
Bio-medical Systems	Biology and related sciences Related safety critical systems knowledge	6
Telecommunication Systems	Depth in signals, information theory, etc. Telephony and telecommunication protocols	6
Multimedia, game, and entertainment Systems	Visualization, haptics, and graphics Depth in human computer interface design Depth in networks	6
System for Small & mobile Platforms	Depth in human computer interfaces for small and mobile platforms, Wireless technology Related embedded and real-time systems knowledge, Related telecom systems knowledge	6
Enterprise Systems Engineering	ERP Systems, SCM Systems, CRM Systems	6
Agent based Systems	Machine learning, Fuzzy logic, Knowledge engineering	6

List of courses related to job placement

In case the internship will not be offered then student can be offered special course from the following list:

- 1. Mini Project 1
- 2. Current Trends and Practices in Industry
- 3. Professional Ethics and Practices
- 4. Project Management

Each of the above courses is of 2 CrHrs and offered during Summer Semester. These courses are designed in such a way that students will get hands on experience and will be able to find a suitable job for themselves. Major part of these courses will be based on visiting and/or attending training sessions at various organizations and industries.



Department of Electrical Engineering



BE in Electrical Engineering (BEEE)

The Department of Engineering offers a four years degree program of BE Electrical Engineering which is permitted by the Pakistan Engineering Council (PEC).

The main objective of this program is to provide quality education in the field of Electrical Engineering. The desired output of the program is to produce electrical engineers who are able to handle the technical issues of the field today and are prepared to address the challenges of ever growing and ever changing field of Electrical Engineering. Our industry oriented curriculum makes sure that our graduates will be able to fulfill the requirements of the local and foreign industry. Our focus on incorporating R&D practices in the academics will make sure that our graduates are able to work on novel problems and come up with ground breaking solutions.

Abasyn University follows PEC/HEC curriculum guidelines for the BE in Electrical Engineering program.



Semester Plan

Year 1 Semester I

Code	Course	CrHr	Pre- Requisite
NS111	Applied Physics	3+1	None
SS108	Islamic Studies / Ethics (for non Muslim students)	2+0	None
CS100	Introduction to Computing	3+0	None
SS104	English I (English Comprehension)	3+0	None
MT101	Calculus& Analytical Geometry	3+0	None
EE112	Workshop Practice	0+1	None

Year 1 Semester II

Code	Course	CrHr	Pre- Requisite
EE121	Engineering Drawing	0+1	None
EE116	Linear Circuit Analysis	3+1	None
CS106	Introduction to Computer Programming	3+1	CS100
MT111	Multivariable Calculus & Differential Equation	3+0	MT101
SS203	English – II (Communication Skills)	3+0	SS104

Year 2 Semester III

Code	Course	CrHr	Pre- Requisite
EE200	Digital Logic Design	3+1	None
EE213	Electrical Network Analysis	3+1	EE116
EE222	Mechanical Technology	3+0	None
EE215	Electronic Devices & Circuits	3+1	EE116
MT214	Complex Variable & Transforms	3+0	MT101

Year 2 Semester IV

Code	Course	CrHr	Pre- Requisite
EE223	Signals & System	3+1	MT214
EE224	Electronics Circuit Design	3+1	EE215
CS210	Data Structure & Algorithm	3+1	CS106
MT221	Linear Algebra	3+0	None
SS118	Pak Studies	2+0	None

Year 3 Semester V

Code	Course	CrHr	Pre- Requisite
EE315	Electrical Machines	3+1	EE116
EE316	Digital Signal Processing	3+1	EE223
EE313	Probability Methods in Engineering	3+0	MT101
EE311	Electromagnetic Field Theory	3+0	NS111
EE300	Microprocessor Based Systems	3+1	EE200

Year 3 Semester VI

Code	Course	CrHr	Pre- Requisite
EE321	Communication System	3+1	EE223
EE322	Linear Control Systems	3+1	EE223
EE324	Measurement & Instrumentation	3+1	EE215
SS211	English – III (Technical Report Writing)	3+0	SS203
EE312	Applied Thermodynamics	3+0	None

Year 4 Semester VII

Code	Course	CrHr	Pre- Requisite
EE421	Computer Communication & Networks	3+1	None
EE4xx	Elective I	3+1	None
EE4xx	Elective II	3+0	None
EE499	Project – I	3+0	None
SS401	Research Methods & Ethics	3+0	None

Year 4 Semester VIII

Code	Course	CrHr	Pre- Requisite
MG435	Engineering Economics & Management	3+0	None
EExxx	Elective – III	3+1	None
EE4xx	Elective - IV	3+0	None
EE499	Project - II	3+0	EE499



List of Electives (Communication and Power)

The following list is not exhaustive. Universities /Institutes may expand the list as per their requirements as per PEC Electrical Engineering Curriculum 2011-2012.

Code	Course title	Cr.Hrs
EE411	Power Electronics	3+1
EE412	Digital Electronics	3+1
EE413	Solid State Devices	3+0
EE414	Industrial Electronics	3+0
EE422	Digital Communication	3+1
EE423	Wave Propagation and Antennas	3+1
EE424	Wireless and Mobile Communication	3+0
EE425	Transmission and Switching	3+0
EE431	Introduction to Power Engineering	3+0
EE432	Power Generation	3+1
EE433	Power Distribution and Utilization	3+1
EE434	Power System Analysis	3+0
EE435	Renewable Energy Systems	3+0
EE441	Computer Architecture	3+1
EE442	Digital System Design	3+1
EE443	Operating Systems	3+0
EE444	Artificial Intelligence	3+0

List of elective courses may be revised as per requirement.



Department of Civil Engineering



BE in Civil Engineering (BECE)

The BE civil engineering program is designed and developed along the modern lines tailored to impart and strengthen the students' knowledge in civil engineering and its related specialties. Since launching of the program in Fall 2014, BECE is progressing rapidly to become a promising program in developing profession in civil engineers. The education process is based on outcome based education system which is focused at achieving certain specified outcomes in terms of individual students learning (as specified in Washington Accord). The education structure and curriculum is structured to achieve the outcomes, capabilities and qualities as outlined by Pakistan Engineering Council. The civil engineering department is equipped with the state-of-the-art @ labs and computing facilities.

The BECE is a 4 years (8 semesters) program. BECE program envisages extensive outdoor training in engineering surveying in the field and camp. On job internship training is also

haulmark.

Program Mission

"To provide students with quality education in civil engineering fundamentals, applications and design that prepares professional engineering community who will nationally and globally practice engineering and undertake research with professional ethics & social responsibilities through good teamwork, interpersonal skills and engagement with partners; embarking the students in lifelong learning while socially and economically impacting the society"

Program Learning Outcome (PLO)

The graduates of BECE are expected to have an ability to:-

1. Apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. Design solutions for complex engineering problems and design systems, components or processes that meet the specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
4. Investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
5. Create, select and apply appropriate

techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.

6. Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

7. Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

8. Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

9. Work effectively as an individual or in a team, on multifaceted and/or multidisciplinary settings.

10. Communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

12. Recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

Program Educational Objectives

The graduates of BECE program are expected to;

1. Engage in civil engineering profession based upon their knowledge and technical skills, with global, societal and sustainable perspectives.

2. Demonstrate high professional ethics, obligations, responsibility, effective communication, teamwork and good leadership in their professional career.

3. Engage in lifelong learning and professional development by pursuing graduate studies, research or other opportunities to achieve professional excellence while economically contributing towards the society.

Civil Engineering Labs

The University has established well equipped labs for the Department of Civil Engineering where well trained lab engineers and other technical staff is available to conduct the experimental training and research work in various specialties of civil engineering. Following labs are already functional to undertake lab classes of the program:

- Engineering Materials Testing and Teaching Lab
- Concrete and Concrete Materials Lab
- Engineering Mechanics Lab
- Engineering Survey Lab
- Engineering Drawing Lab
- Computer Programming and Designing Lab
- Soil Mechanics and Geotechnical Engineering Lab
- Fluid Mechanics Lab

- Hydrology and WRM Lab
- Hydraulic and Irrigation Engineering Lab
- Environmental Engineering Lab
- Transportation Engineering Lab
- Construction Engineering & Management Lab



Semester Plan

Year 1 Semester I (Cr. Hours =17)

Code	Course	CrHr	Pre- Requisite
CE112	Engineering Materials	2+1	None
CE116	Basic Electrical & Mechanical Engineering	3+1	None
CE210	Civil Engineering Drawing	2+2	None
SS104	English-1 (Comprehension)	3+0	None
MT101	Calculus & Analytical Geometry	3+0	None

Year 1 Semester II (Cr. Hours =18)

Code	Course	CrHr	Pre- Requisite
CE212	Engineering Survey-1	2+2	None
CE226	Engineering Geology	2+0	None
SS108	Islamic Studies / Ethics	2+0	None
CE111	Engineering Mechanics	3+1	None
MT111	Multivariable Calculus & Differential Equations	3+0	MT101
CS110	Fundamentals of Computing & Programming	1+2	None

Year 2 Semester III (Cr. Hours =18)

Code	Course	CrHr	Pre- Requisite
CE311	Computer Aided Design and Graphics	1+2	CE210
CE221	Fluid Mechanics-1	3+1	None
CE313	Engineering Survey-2	2+1	CE212
CE216	Mechanics of Solids-1	2+1	None
MT300	Numerical Analysis	3+0	MT111
SS118	Pakistan Studies	2+0	None

Year 2 Semester IV (Cr. Hours =19)

Code	Course	CrHr	Pre- Requisite
MG295	Organizational Behavior	3+0	None
CE214	Structural Analysis-1	3+0	CE111
CE213	Soil Mechanics	3+1	None
CE312	Transportation Planning & Engineering	3+0	None
MT301	Probability & Statistics	3+0	None
SS215	Technical Business Writing & Presentation Skills	3+0	SS104

Year 3 Semester V (Cr. Hours =19)

Code	Course	CrHr	Pre- Requisite
CE304	Geo-Informatics	1+1	None
CE325	Quantity Survey & Estimation	2+1	CE212, CE311
CE322	Fluid Mechanics-2	3+1	CE221
CE317	Mechanics of Solids-2	3+0	CE216
CE316	Plain Reinforced Concrete Design-1	3+1	None
CE326	Construction Engineering	2+1	None

Year 3 Semester VI (Cr. Hours =17)

Code	Course	CrHr	Pre- Requisite
CE328	Construction Project Management	3+0	CE326
CE412	Plain Reinforced Concrete Design-2	3+1	CE316
CE330	Architecture & Town Planning	3+0	None
CE323	Hydrology & Water Resource Management	3+1	None
CE318	Structural Analysis-2	3+0	CE214

Year 4 Semester VII (Cr. Hours =17)

Code	Course	CrHr	Pre- Requisite
CE425	Steel Structures	3+0	None
CE305	Environmental Engineering-1	2+1	None
CE413	Highways & Traffic Engineering	3+1	CE312
CE404	Foundation Engineering (Geotech-2)	3+1	CE213
CE499	Civil Engineering Project – I	0+3	None

Year 4 Semester VIII (Cr. Hours =14)

Code	Course	CrHr	Pre- Requisite
MG435	Engineering Economics & Management	3+0	None
CE406	Environmental Engineering-2	2+0	CE305
CE424	Hydraulics & Irrigation Engineering	3+1	CE322
CE410	Hazards & Disaster Management	2+0	None
CE499	Civil Engineering Project – 2	0+3	None



Department of Pharmacy

Doctor of Pharmacy (Pharm D)

The Department of Pharmacy offers 5-years Doctor of Pharmacy (Pharm-D) program. The department has established a number of labs to support students for their practical work. Highly qualified faculty has joined the University for Pharm-D program. State-of-the-art library and other facilities are available at the campus.

Aims & Objectives of the Pharm.D. Program:
The aims and objectives of Doctor of Pharmacy (Pharm.D.) curriculum are to prepare graduates who will have the capacity, upto date knowledge, strong ethical values, behavior, communication, writing and social skills that will enable them to pursue careers in:

1. Pharmaceutical care in health systems and community environment where appropriate medication usage and patient's safety is paramount.
2. Pharmaceutical industry and its quality systems.
3. Academia, research and development. We aim to prepare pharmacy graduates whose scientific knowledge and skills enable them to work with the pace to ensure the quality in the design, manufacture, distribution and safe and effective use of pharmaceuticals in the society and clinical in setting.



Objectives

1. To keep pace with the advancements in the modern sciences.
2. To prepare the students to fulfill the industrial needs and they should be well versed with the basic medical and pharmaceutical sciences in order to prepare a dosage regimen for an individual patient.
3. Community pharmacy practice should be comprehensive.
4. Internship in various disciplines of Pharmacy should be implemented.
5. Update the syllabi of the Pharmacy keeping in view the current proposals, requirements and the Needs of the profession.
6. To make our graduates more skillful, competitive and knowledgeable both practically and theoretically.
7. To cater the local and international pharmacy needs.
8. Uniformity in the curriculum of Pharmacy at national level.
9. Credit hours should be harmonized i.e. practical and theory credit hours.
10. To make a health care practitioner who is expert in the use of medicine in all practical fields and are capable of disease state management specially to improve public health at large.
11. Upon graduation, the graduates should have the capacity, knowledge and

capability to undertake career in;

- a) Enhance patient safety to safe medication usage in community and health care systems
 - b) To work in the pharmaceutical industry and its quality system
 - c) To engage in academics and research i.e. Practice and Academics.
 - d) To prepare students as good human beings in serving the community i.e., ethics, communication skills, writing skills, behavior etc.
 - e) After graduation, he should become a member of health care team.
 - f) To help the stakeholders of pharmacy about the implications of WTO and TRIPS.
12. The syllabi should be more practical rather theoretical.
13. To prepare pharmacy graduates for better pharmacy practice in the areas including clinical pharmacy, community pharmacy, hospital pharmacy and

industrial pharmacy.

- 14. To add further in the curriculum clinical oriented areas as per demand of Pharm.D degree.
- 15. To update the current syllabi according to the needs of the national and international demand.
- 16. To develop graduates capable of catering the needs of national and international health organizations or authorities to help adapt the paradigm shift in the health care system.
- 17. To bring uniformity in the contents of the syllabi in line with International trends/ international universities imparting Pharm.D education.
- 18. To produce the graduates to meet the challenges of 21st century of health care problems.



Semester Plan

Year 1 Semester I

Code	Course	CrHr
SS104	English-I (Comprehension)	3+0
PD103	Pharmaceutics-IA (Physical Pharmacy)	3+1
PD101	Pharmaceutical Chemistry-IA (Organic)	3+1
PD102	Pharmaceutical Chemistry-IIA (Biochemistry)	3+1
PD104	Physiology-A	3+1
PD105	Anatomy & Histology	3+1

Year 1 Semester II

Code	Course	CrHr
SS215	Technical Report writing and Communication Skills	3+0
PD127	Pharmaceutics-IB (Physical Pharmacy)	3+1
PD123	Pharmaceutical Chemistry-IB (Organic)	3+1
PD126	Pharmaceutical Chemistry-IIB (Biochemistry)	3+1
PD128	Physiology-B	3+1

Year 2 Semester III

Code	Course	CrHr
SS108	Islamic Studies	2+0
PD201	Pharmaceutics-IIA (Dosage Forms Science)	3+1
PD204	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology)	3+1
PD202	Pharmacology and Therapeutics-IA	3+1
PD203	Pharmacognosy-IA (Basic)	3+1
MT211	Pharmacy Practice-IB (Pharmaceutical Mathematics)	3+0

Year 2 Semester IV

Code	Course	CrHr
SS118	Pakistan Studies	2+0
PD221	Pharmaceutics-IIB (Dosage Forms Science)	3+1
PD224	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology)	3+1
PD222	Pharmacology and Therapeutics-IB	3+1
PD223	Pharmacognosy-IB (Basic)	3+1
MT226	Pharmacy Practice-III (Bio-statistics)	3+0

Year 3 Semester V

Code	Course	CrHr
PD305	Pharmacy Practice-IIA (Dispensing Pharmacy)	3+1
PD304	Pharmaceutical Chemistry-III A (Pharmaceutical Analysis)	3+1
PD302	Pharmacology and Therapeutics-IIA	3+1
PD303	Pharmacognosy-IIA (Advanced)	3+1
PD301	Pathology	3+1

Year 3 Semester VI

Code	Course	CrHr
PD328	Pharmacy Practice-II B (Community, Social & Administrative Pharmacy)	3+0
PD327	Pharmaceutical Chemistry-II B (Pharmaceutical Analysis)	3+1
PD325	Pharmacology and Therapeutics-II B	3+1
PD326	Pharmacognosy-II B (Advanced)	3+1
CS100	Pharmacy Practice-IA (Introduction to Computing)	3+1

Year 4 Semester VII

Code	Course	CrHr
PD330	Pharmacy Practice-IV A (Hospital Pharmacy-I)	3+0
PD331	Pharmacy Practice-VA (Clinical Pharmacy-I)	3+1
PD332	Pharmaceutics-IV A (Industrial Pharmacy-I)	3+1
PD334	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics-I)	3+1
PD335	Pharmaceutics-VIA (Pharmaceutical Quality Management-I)	3+0

Year 4 Semester VIII

Code	Course	CrHr
PD401	Pharmacy Practice-IV B (Hospital Pharmacy-II)	3+0
PD402	Pharmacy Practice-VB (Clinical Pharmacy-II)	3+1
PD403	Pharmaceutics-IV B (Industrial Pharmacy-II)	3+1
PD404	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics-II)	3+1
PD405	Pharmaceutics-VIB (Pharmaceutical Quality Management-II)	3+1

Year 5 Semester IX

Code	Course	CrHr
PD432	Pharmaceutics-VII A (Pharmaceutical Technology-I)	3+1
PD431	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-I)	3+1
PD433	Pharmacy Practice-VII A (Forensic Pharmacy- I)	3+0
PD434	Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing-I)	3+0
PD430	Pharmaceutical Chemistry-IV A (Medicinal Chemistry-I)	3+1

Year 5 Semester X

Code	Course	CrHr
PD442	Pharmaceutics- VIIB (Pharmaceutical Technology-II)	3+1
PD441	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	3+1
PD443	Pharmacy Practice-VIIB (Forensic Pharmacy-II)	3+0
PD444	Pharmacy Practice-VIIB (Pharmaceutical Management & Marketing-II)	3+0
PD440	Pharmaceutical Chemistry-IVB (Medicinal Chemistry-II)	3+1



Doctor of Physical Therapy (DPT)

Physical therapy is an essential segment of modern health care system. It is a science of healing and art of caring. It pertains to the clinical examination, evaluation, assessment, diagnosis and treatment of musculoskeletal, Neurological, Cardio-Vascular and Respiratory systems functional disorders including symptoms of pain, edema, physiological, structural and psychosomatic ailments. It deals with methods of treatment based on movement, manual therapy, physical agents, and therapeutics modalities to relieve the pain and other complications. Hence, Physical therapy covers basic parameters of healing sciences i.e. preventive, promotive, diagnostic, rehabilitative, and curative.

Objectives

The purpose of the Doctor of Physical Therapy Programme (DPT) is to prepare physical therapists who will:

1. Be primary providers of physical therapy care.
2. Serve as responsible members in the professional community and are willing and able to assume leadership roles in the communities they serve.
3. Identify researchable problems, advocate and participate in research, and incorporate research findings into clinical practice.
4. Understand and place in context the social, economic and cultural issues of practice and effectively advocate for changes in policy.
5. Correlate theory with practice and think creatively about, react to, adapt or shape



new practice environments.

6. Participate in and provide education for communities, patients, peers, students and others.

Graduates of the Doctor of Physical Therapy programme will:

1. Demonstrate in-depth knowledge of the basic and clinical sciences relevant to physical therapy, both in their fundamental context and in their application to the discipline of physical therapy. Understand, correlate and apply theoretical foundations of knowledge to the practice of physical therapy; evaluate and clarify new or evolving theory relevant to physical therapy.
2. Demonstrate the behaviors of the scholarly clinician by developing and utilizing the process of critical thinking and inquiry, particularly focused on the improvement of the practice of physical therapy and the delivery of health care.
3. Engage in reflective practice through sound clinical decision making, critical self-assessment and commitment to lifelong learning.
4. Demonstrate mastery of entry level professional clinical skills. Provision of these services is based on the best available evidence and includes physical therapy examination, evaluation, diagnosis, prognosis, intervention, prevention activities, wellness initiatives and appropriate health care utilization.

5. Prepared to influence the development of human health care regulations and policies that are consistent with the needs of the patient and of the society.

6. Demonstrate leadership, management, and communication skills to effectively participate in physical therapy practice and the health care team.

7. Incorporate and demonstrate positive attitudes and behaviors to all persons.

Demonstrate the professional and social skills to adapt to changing health care environments to effectively provide physical therapy care.



Semester Plan

Year 1 Semester I

Code	Course	CrHr
DPxxx	Anatomy	3
DPxxx	Physiology	3
DPxxx	Kinesiology	3
SS104	English-I (Functional English)	2
SS118	Pakistan Studies	2
MT210	Biostatistics-I	3

Year 1 Semester II

Code	Course	CrHr
DPxxx	Anatomy -II	4
DPxxx	Physiology-II	3
DPxxx	Kinesiology-II	3
SS203	English-II (Communication Skills)	2
SS108	Islamic Studies/ Ethics	2
DPxxx	Biostatistics-II	3

Year 2 Semester III

Code	Course	CrHr
DPxxx	English-III (Technical Writing & Presentation skills)	2
CS100	Introduction to Computers	3
DPxxx	Anatomy –III	3
DPxxx	Physiology-III	3
DPxxx	Biomechanics & Ergonomics-I	3
DPxxx	Biochemistry & Genetics-I	2

Year 2 Semester IV

Code	Course	CrHr
DPxxx	Anatomy –IV	3
DPxxx	Biomechanics & Ergonomics –II	3
DPxxx	Behavioral Sciences (Psychiatry & Psychology)	3
DPxxx	Biochemistry & Genetics-II	2
DPxxx	Exercise Physiology	3
DPxxx	Medical Physics	3

Year 3 Semester V

Code	Course	CrHr
DPxxx	Pathology & Microbiology –I	2
DPxxx	Pharmacology –I	3
DPxxx	Physical agents & Electrotherapy-I	3
DPxxx	Therapeutic exercise and techniques	3
DPxxx	Sociology	2
DPxxx	Health and wellness	2
DPxxx	Supervised clinical practice-I	3
MT226	Pharmacy Practice-III (Bio-statistics)	3+0

Year 3 Semester VI

Code	Course	CrHr
DPxxx	Pathology & Microbiology –II	3
DPxxx	Pharmacology –II	2
DPxxx	Physical agents & Electrotherapy-II	3
DPxxx	Manual Therapy	3
DPxxx	Technical Methodology & Community medicine	3
DPxxx	Supervised clinical practice-II	3

Year 4 Semester VII

Code	Course	CrHr
DPxxx	Medicine-I	3
DPxxx	Surgery-I	3
DPxxx	Radiology & Diagnostic Imaging	3
DPxxx	Musculoskeletal Physical Therapy	3
DPxxx	Human growth, Development & Community based Rehabilitation	2
DPxxx	Supervised clinical practice-III	3

Year 4 Semester VIII

Code	Course	CrHr
DPxxx	Medicine-II	3
DPxxx	Surgery-II	3
DPxxx	Neurological Physical Therapy	3
DPxxx	Evidence based Practice	3
DPxxx	Prosthetics and Orthotics	2
DPxxx	Supervised clinical practice-IV	3

Year 5 Semester IX

Code	Course	CrHr
DPxxx	Cardipulmonary Physical Therapy	
DPxxx	Emergency Procedures & Primary care in Physical Therapy	
DPxxx	Clinical Decision Making & Differential Diagnosis	
DPxxx	Scientific Inquiry & Research Methodology	
DPxxx	Professional Practice (Law, Ethics, Administration)	
DPxxx	Integumentry Physical Therapy	
DPxxx	Supervised clinical practice-V	

Year 5 Semester X

Code	Course	CrHr
DPxxx	Obstetric & Gynecological Physical Therapy	2
DPxxx	Paediatric Physical Therapy	2
DPxxx	Gerontology & Geriatric Physical Therapy	2
DPxxx	Sports Physical Therapy	2
DPxxx	Supervised clinical practice-VI	4
DPxxx	Research Project	6

Department of Management & Social Sciences

The Department of Management & Social Science offers the following degree program:

Bachelor of Business Administration (BBA)

The four years BBA program is tailored made to serve the needs of the bright young persons who have completed twelve years of education and are looking for a career education in entrepreneurship, management profession or towards higher education in business administration. This program is open to the students with diverse educational backgrounds including, humanities, science, arts and commerce. However, being a program with challenging curricula and contents, it is accessible mainly to those students who have excellent academic record and high potential for success. The program builds in the students potential for future and enables them to build and maintain balance between the targets of economic success and the limitations of increasing social and environmental responsibility.

Learning Outcomes

The students who earn the BBA degree will be able to:

- i. Communicate effectively and professionally and demonstrate the ability to create coherent written and oral statements with the diverse audience across the cultures replicating skills to analyze and

synthesize information.

- ii. Demonstrate the ability to identify and evaluate relevant information for decision-making and make usage of diagnostic thinking skills and analytical techniques to assess the information and solve problems in the environment like ours characterized by uncertainty.
- iii. Understand the importance of teamwork and group dynamics in achieving organizational goals and demonstrate ability to work effectively in teams.

Area of Specialization

- Finance
- Human Resource Management
- Marketing
- Information Technology
- Management
- Project Management
- Supply Chain Management



Semester Plan

Year 1 Semester I

Code	Course	CrHrs	Pre-requisite
SS104	English - I (Comprehension)	3+0	None
MG108	Introduction to Management	3+0	None
CS100	Introduction to computing	3+0	None
MT100	Basic Mathematics	3+0	None
SS108	Islamic Studies/Ethics (for Non-Muslims)	2+0	None
SS118	Pakistan Studies	2+0	None

Year 1 Semester II

Code	Course	CrHrs	Pre-requisite
SS203	English - II (Communication Skills)	3+0	SS104
MG104	Microeconomics	3+0	None
MT104	Business Mathematics	3+0	MT100
CS121	Advanced Computer Business Applications	3+0	CS100
MG100	Financial Accounting I	3+0	None

Year 2 Semester III

Code	Course	CrHrs	Pre-requisite
SS211	English - III (Technical Report Writing)	3+0	SS203
MT205	Business Statistics	3+0	MT100
MG204	Macroeconomics	3+0	MG104
MG209	Principles of Marketing	3+0	None
MG115	Introduction to HRM	3+0	None
SS216	Introduction to Sociology	3+0	None

Year 2 Semester IV

Code	Course	CrHrs	Pre-requisite
SS288	Business Communication	3+0	SS211
SS129	Arabic/Chinese etc	3+0	None
SS208	Environmental Sciences	3+0	None
MG202	Financial Accounting II	3+0	MG100
MG222	Pakistan Economics	3+0	MG204
SS218	Introduction to Psychology	3+0	None

Year 3 Semester V

Code	Course	CrHrs	Pre-requisite
MG301	Cost Accounting	3+0	MG202
MG366	Marketing Management	3+0	MG209
MT301	Statistics & Probability	3+0	MT205
MG206	Business Finance	3+0	MG202
MG308	Business Law	3+0	None
MG3xx	Specialization I	3+0	None

Year 3 Semester VI

Code	Course	CrHrs	Pre-requisite
SS406	Business Ethics	3+0	MG308
MG245	Organizational Behavior	3+0	SS218
MG306	Consumer Behavior	3+0	MG209
CS204	Management Information System	3+0	CS121
MG301	Financial Management	3+0	MG202
MG4xx	Specialization II	3+0	None

Summer Semester at end of year no. 3

MG394	Summer Internship	2+0	None
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Year 4 Semester VII

Code	Course	CrHrs	Pre-requisite
SS401	Research Methodology & Professional Ethics	3+0	None
MG402	Production and Operations Management	3+0	MG108
MG403	Entrepreneurship	3+0	None
MG4xx	Specialization III	3+0	None
MG499	Project (I)	3+0	None

Year 4 Semester VIII

Code	Course	CrHrs	Pre-requisite
MG411	Strategic Management	3+0	MG108
MG458	International Business Management	3+0	MG206
MG4xx	Specialization IV	3+0	None
MG4xx	General Elective	3+0	None
MG499	Project (II)	3+0	MG499 (P I)

Bachelor of Commerce (B.Com)

To provide the students with a basic knowledge in fields of commerce and give them awareness about the prevailing business environment, thus enabling them to seek higher education and to make a contribution to their chosen fields of endeavor.

Scheme of Studies

B.Com (4 Semester, 2 years)

No of courses = 20

Credit Hours = 61



Year 1 Semester I

Code	Title	CrHr
CS100	Introduction to Computing	3
MG100	Financial Accounting – I	3
MT100	Basic Mathematics	3
SS104	English I – (Comprehension)	3
SS108	Islamic Studies/Ethics (For Non-Muslims)	2
SS118	Pakistan Studies	2

Year 1 Semester II

Code	Title	CrHr
MG102	Financial Accounting – II	3
MT104	Business Mathematics	3
SS216	Introduction to Sociology	3
SS203	English II (Communication Skills)	3
MG108	Introduction to Management	3

Year 2 Semester III

Code	Title	CrHr
MG206	Business Finance	3
MG209	Principles of Marketing	3
MG115	Introduction to HRM	3
MG310	Business Taxation	3
MG214	Business Economics	3

Year 2 Semester IV

Code	Title	CrHr
MG245	Organizational Behavior	3
MG311	Auditing	3
MG301	Financial Management	3
CS204	Management Information System	3
MG312	Cost Accounting	3



Bachelor of Accounting and Finance (BSAF)

The BS in Accounting and Finance degree is a four year degree program offered to prepare students for a challenging and rewarding career in either the public or the private financial sector. Accounting and finance are essential functions of all major organization today. This program will provide a sound foundation to be successful in the rapidly evolving global business and financial environment.

A major in Accounting & Finance (BS AF) provides students with a basis from which to continue their studies for a professional degree or to serve as a valuable foundation for careers in business and management. The graduates of this major are prepared for careers in auditing, corporate accounting, management consulting, government, not-for-profit organizations and taxation. They also have the role of trainee managers open to them.

The broad-based curriculum equips students with tools of intelligent analysis, planning, control and decision making. BS AF offers a unique blend of multi-disciplinary modes of teaching that fully utilize modern teaching techniques and conventional lecture method. Video cases, class exercises and industrial visits are some of the best examples of the teaching tools employed by instructors to enhance knowledge and provide first-hand experience to students.

Semester Plan

Year 1 Semester I

Code	Title	CrHr	Pre-requisite
SS108	Islamic Studies/Ethics (for Non-Muslims)	2	None
SS104	English - I (Comprehension)	3	None
MT100	Basic Mathematics	3	None
MG108	Introduction to management	3	None
CS100	Introduction to Computing	3	None
BUS110	Fundamental of Business	3	None
		17	

Year 1 Semester II

Code	Title	CrHr	Pre-requisite
SS118	Pak study	2	None
MG100	Financial Accounting I	3	None
SS203	English - II (Communication skills)	3	SS104
MG104	Micro economics	3	None
CS185	Computer Application in Business	3	CS100
MT104	Business mathematics	3	MT100
		17	

Year 2 Semester III

Code	Title	CrHr	Pre-requisite
MG209	Principle of Marketing	3	None
MGxxx	Fundamental of Management Accounting	3	
MT205	Business Statistics	3	MT100
MG204	Macro economics	3	MG104
SS211	English III (Technical report writing)	3	SS203
MG202	Financial Accounting II	3	MG100
		18	

Year 2 Semester IV

Code	Title	CrHr	Pre-requisite
SS216	Introduction to Sociology	3	None
MT301	Statistics And Probability	3	MT205
MG206	Business Finance	3	MG202
MG222	Pakistan Economy	3	MG204
SS218	Introduction to psychology	3	None
MG115	Introduction to HRM	3	None
		18	

Year 3 Semester V

Code	Title	CrHr	Pre-requisite
MG301	Cost Accounting	3	MG202
MG301	Financial Management	3	MG202
MGxxx	Audit And assurance	3	MG100
MGxxx	Fundamental of Econometrics	3	
MG308	Business Law	3	None
MG245	Organizational behavior	3	SS218
		18	

Year 3 Semester VI

Code	Title	CrHr	Pre-requisite
MGxxx	Taxation	3	
MGxxx	Financial Market and institutions	3	MG206
MGxxx	Applied time series Finance	3	
MGxxx	Enterprise management	3	
SS406	Business ethics	3	MG308
		15	

Year 4 Semester VII

Code	Title	CrHr	Pre-requisite
MGxxx	Equity Asset Valuation	3	
MGxxx	Investment and Portfolio Analysis	3	MG206
MG458	International Business Management	3	
MGxxx	Behavioral Finance	3	
MGxxx	Mergers and Acquisition	3	
MG499	Project I	3	None
		18	

Year 4 Semester VIII

Code	Title	CrHr	Pre-requisite
MG402	Production and Operation management	3	MG108
MGxxx	Financial Modeling	3	
SS401	Research Methodology and professional ethics	3	None
MGxxx	Entrepreneurial Finance	3	
MG499	Project II	3	MG499 P1
		15	



Department of Management & Social Sciences

BS in English

The BS English degree can lead to a wide range of careers. In immediate and practical terms, the students become equipped for an enormous range of careers and postgraduate opportunities. They can go on to work in translation, teaching and academics, professional writing, arts and media, journalism, administration, public relations, leisure and tourism management, international relations, marketing. Many graduates may progress to related postgraduate courses. The BS English is 8 semesters (4 years) program offered by the department of Management and Social Sciences. As per the HEC guidelines, the curriculum has been structured around a set of compulsory courses, general courses, foundation courses, major courses, and electives courses.



Semester Plan

Year 1 Semester I

Code	Course	CrHrs	Pre-Requisite
ENG101	English Structure	3	
ENG102	Introduction to Literature	3	
ENG103	Introduction to Linguistics	3	
SS118	Pakistan Studies	3	
XXXXX	General Course I	3	
XXXXX	General Course II	3	

Year 1 Semester II

Code	Course	CrHrs	Pre-Requisite
ENG104	English Communication Skills	3	ENG101
ENG104	History of English Literature I	3	
ENG104	Phonetics in English & Phonology	3	ENG101
SS108	Islamic Studies	2	
XXXXX	General Course III	3	
XXXXX	General Course IV	3	

Year 2 Semester III

Code	Course	CrHrs	Pre-Requisite
ENG201	Technical Report Writing	3	ENG104
ENG201	History of English Literature II	3	ENG105
ENG201	Introduction to Morphology and Syntax	3	
CS100	Introduction to Computers	3	
XXXXX	General Course V	3	
XXXXX	General Course VI	3	

Year 2 Semester IV

Code	Course	CrHrs	Pre-Requisite
ENG204	Advanced Academic Reading & Writing	3	ENG104
ENG205	Poetry I	3	
ENG206	Semantics & Pragmatics	3	
SS221	Human Rights and Citizenship	3	
ENG207	Prose	3	
XXXXX	General Course VII	3	

Year 3 Semester V

Code	Course	CrHrs	Pre-Requisite
ENG301	Visionary Discourse	3	
ENG302	Literary Criticism	3	
ENG303	Novel I	3	
ENG304	Drama I	3	
ENG310	Psycholinguistics	3	
ENG306	English Language Teaching	3	

Year 3 Semester VI

Code	Course	CrHrs	Pre-Requisite
ENG401	American Literature	3	
ENG308	Drama II	3	
ENG309	Poetry II	3	
ENG405	World Literature	3	
ENG311	Stylistics	3	
SS401	Research Methodology in Literature and Linguistics	3	

Year 4 Semester VII

Code	Course	CrHrs	Pre-Requisite
ENG307	Literary Theory	3	
ENG402	Translation Theory & Literary Studies	3	
ENG403	Novel II	3	
ENG4xx	Specialization elective 1	3	
ENG4xx	Specialization elective 2	3	

Year 4 Semester VIII

Code	Course	CrHrs	Pre-Requisite
ENG404	Critical Discourse Analysis	3	
ENG305	Sociolinguistics	3	
ENG406	Postmodern Literature	3	
ENG4xx	Specialization elective 3	3	
ENG4xx	Specialization elective 4	3	

Department of Management & Social Sciences

BS in Psychology

Psychology is the science of human behavior and mind. The BS Psychology program integrates the scientific foundation of psychology with a strong background of humanities and basic sciences to better prepare students for the advanced training in psychology, medicine, cognitive science, neuroscience, and other related disciplines.

This degree can lead to a wide range of careers. In immediate and practical terms, the students become equipped for an enormous range of careers and postgraduate opportunities. They can go on to work as a psychologist, advertising manager, admission and career counsellor, psychiatrist, child welfare worker, gerontologist, market research analyst, public relations manager, social worker, speech pathologist, or numerous other occupations. Many progress to related postgraduate courses.



Semester Plan

Year 1 Semester I

Code	Course	CrHrs	Pre-Requisite
SS104	English – 1 (Comprehension)	3	
SS118	Pakistan Studies	2	
MT100	Basic Mathematics	3	
CS100	Introduction to Computing	3	
PSY100	Introduction to Psychology	3	
XXxxx	General Elective I	3	

Year 1 Semester II

Code	Course	CrHrs	Pre-Requisite
SS203	English – II (Communication Skills)	3	SS104
SS108	Islamic Studies/Ethics	2	
MT205	Introduction to Statistics	3	
PSY102	History and Schools of Psychology	3	
XXxxx	General Elective II	3	
XXxxx	General Elective III	3	

Year 2 Semester III

Code	Course	CrHrs	Pre-Requisite
SS211	English – III (Technical Report Writing)	3	SS203
SS216	Business Law	3	
PSY201	Neurological Basis of Behavior	3	
PSY203	Personality Theories – I	3	
XXxxx	General Elective IV	3	
XXxxx	General Elective V	3	

Year 2 Semester IV

Code	Course	CrHrs	Pre-Requisite
PSY204	Introduction to Social Psychology	3	
PSY213	Personality Theories – II	3	
PSY202	Experimental Psychology	3	
PSY215	Elementary Statistics for Psychology	3	
XXxxx	General Elective VI	3	
XXxxx	General Elective VII	3	

Year 3 Semester V

Code	Course	CrHrs	Pre-Requisite
PSY301	Mental Health and Psychopathology - I	3	
PSY302	Psychological Testing – I	3	
PSY303	Research Methods in Psychology-I	3	
PSY304	Applied Statistics for Psychology	3	
PSY305	Advanced Social Psychology	3	
XXXXX	General Elective VIII	3	

Year 3 Semester VI

Code	Course	CrHrs	Pre-Requisite
PSY311	Mental Health and Psychopathology – II	3	
PSY303	Developmental Psychology	3	
PSY312	Psychological Testing – II	3	
PSY313	Research Methods in Psychology-II	3	
PSY314	Industrial Organizational Psychology	3	

Year 4 Semester VII

Code	Course	CrHrs	Pre-Requisite
PSY401	Educational Psychology 3	3	
PSY402	Positive Psychology 3	3	
PSY403	Cross Cultural Psychology 3	3	
XXXXX	Elective-I 3	3	
XXXXX	Elective-II 3	3	
XXXXX	Internship	3	

Year 4 Semester VIII

Code	Course	CrHrs	Pre-Requisite
PSY404	Cognitive Psychology	3	
XXXXX	Elective-III	3	
XXXXX	Elective-IV	3	
XXXXX	Research Project	6	

Department of Life Sciences

The Department of Life Sciences offers two bachelors and one master programs at this stage. The Department is also planning to launch its research activity through Master program very soon. The following two programs are offered maximum. The main objective of the Department is to create specialist, who will be following two bachelor programs.

BS in Microbiology (BSMB)

Bachelor of Science in Microbiology is a four year program which is offered to candidates who have completed 12 years of pre-medical schooling. This program covers all minor and major aspect of the discipline. Graduates with this degree will be able to work in industries, hospitals, and research organizations. The curriculum has been designed at par with national and international standards.

Semester Plan

Year 1 Semester I

Code	Course	CrHr	Pre-requisite
SS104	English-I (Comprehension)	3+0	None
SS108	Islamic Studies/Ethics for non-Muslim	2+0	None
MT100	Basic Mathematics	3+0	None
MB203	Fundamental of Microbiology	2+1	None
MB102	Microbial Taxonomy	2+1	None
CS100	Introduction to computing	3+0	None

Year 1 Semester II

Code	Course	CrHr	Pre-requisite
SS203	English-II (Communication Skills)	3+0	SS104
MB105	Cell biology	2+1	None
MB201	Parasitology	2+1	None
MB107	Biochemistry-1	3+0	None
SS118	Pakistan Study	2+0	None
CS180	Computer Applications in Health Sciences	3+0	CS100

Year 2 Semester III

Code	Course	CrHr	Pre-requisite
SS211	English-III (Technical Report writing)	3+0	SS203
MB202	Biochemistry-II	2+1	MB107
SS216	Introduction to Sociology	3+0	None
MB204	Microbial Anatomy and Physiology	2+1	None
MB219	Medical Microbiology	3+0	None
CS185	Internet Concepts and Online Systems	3+0	CS100

Year 2 Semester IV

Code	Course	CrHr	Pre-requisite
MB203	Molecular Biology	2+1	None
MB216	Mycology	2+1	None
MB205	Enzymology	2+1	None
MB223	Immunology	3+0	None
MT301	Statistics and Probability	3+0	MT100

Year 3 Semester V

Code	Course	CrHr	Pre-requisite
MB302	Principle of Virology	3+0	None
MB313	Marine and Fresh Water Microbiology	3+0	None
MB312	Introduction to cell & Tissue culture	2+1	MB105
MB314	Industrial Microbiology	3+0	None
MB316	Soil Microbiology	2+1	None
MB317	Environmental Microbiology and Public Health	2+1	None

Year 3 Semester VI

Code	Course	CrHr	Pre-requisite
MB346	Bioinformatics	2+1	None
MB402	Antimicrobial antiviral Agents	2+1	None
MB423	Infectious Disease Diagnostics	2+1	None
MG403	Entrepreneurship	3+0	None
MB413	Analytical Chemistry and Instrumentation	2+1	None
MB413	Analytical chemistry and instrumentation	2+1	

Summer Semester

MB493	Industrial Training/Internship	0+2	None
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Year 4 Semester VII

Code	Course	CrHr	Pre-requisite
MB424	Microbial Ecology	2+1	None
SS401	Research Methodology and Professional Ethics	3+0	SS203
MB4xx	Elective - I	3+0	None
MB4xx	Elective - II	3+0	None
MB499	Project/Internship – I	3+0	None

Year 4 Semester VIII

Code	Course	CrHr	Pre-requisite
MB436	Veterinary Microbiology and Animal health	2+1	None
MB437	Microbial Pathogenesis	2+1	None
MB4xx	Elective -III	3+0	None
MB4xx	Elective -IV	3+0	None
MB499	Project/Internship – II	3+0	None

List of Electives

Code	Course	CrHr
MB422	Molecular Mechanism of Antimicrobial Drugs-1	2+1
MB423	Epidemiology	3+0
MB424	Clinical Bacteriology	2+1
MB425	Medical Virology	2+1
MB428	Clinical Hematology in Microbial disease	2+1
MB429	Clinical Mycology	2+1
MB430	Biosafety and Risk Management	3+0
MB431	Environment Biotechnology	2+1
MB431	Hospital Waste managements	3+0
MB432	Radio Biology	3+0
MB433	Food Biotechnology	3+0

List of elective courses may be revised as per requirement.



Department of Technology

B Tec. in Civil

The B. Tech Civil Engineering program has been carefully designed to enable graduates to undertake planning, designing, construction, operation and maintenance of urban and rural infrastructure by applying his/her knowledge in all stages of Civil Engineering projects. The students are extensively exposed to the real civil engineering projects that equip them to work in an industrial environment.

Teaching and Learning Methodology

Instruction and learning environment in the Department of Civil Engineering at Abasyn University comprises of:

- Classroom lectures, duly supported by audio-visual aids, demonstrations and relevant handouts.
- Assignments and tutorials requiring use of reference materials and internet facility.
- Term projects and classroom presentations.
- Laboratory experiments, field work, and design exercises.
- Instructional visits to appropriate establishments, installations, construction sites, field stations, industries, etc.
- Lectures and seminars by renowned professionals from the industry.
- Enhanced use of modern computing facilities in the institution.
- The preparation of visit reports/notebooks/ field books/graphs and drawing sheets pertaining to the field work and practical work.



Trimester Plan

Trimester I

Code	Course	CrHr
MT101	Calculus - I	3+0
CT200	Concrete Technology	2+1
NS201	Applied Physics	3+0
CS100	Computer Fundamentals	2+1

Trimester II

Code	Course	CrHr
MT102	Calculus- II	3+0
SS202	Communication Skills	2+0
CT123	Surveying - I	2+1
SS120	Pak Studies	2+0
CT125	Engineering Geology	3+0

Trimester III

Code	Course	CrHr
CT131	Surveying- II	2+1
CT133	Material & Method of Construction	3+0
CT203	Differential Equations	3+0
SS121	Islamic Studies	2+0

Trimester IV

Code	Course	CrHr
MT211	Complex Variables & Transform	3+0
CT212	Soil Mechanics - I	2+1
CT126	Fluid Mechanics - I	3+0

Trimester V

Code	Course	CrHr
CT221	Theory of Structures - I 2+1	2+1
CT222	Soil Mechanics - 2 2+1	2+1
CT223	Material Testing Repair and Maintenance	2+1
CT220	Fluid Mechanics - II	3+0

Trimester VI

Code	Course	CrHr
CT231	Highway and Transportation Engineering-I	2+1
CT233	Foundation and Pavements	2+1
CT234	Theory of Structures - II 2+1	2+1
CT332	Water Supply and Waste Water Management	2+1

Trimester VII

Code	Course	CrHr
CT311	Water Supply and Waste Water Management-II	2+1
CT312	Highway and Transportation Engineering – II	2+1
CT313	Introduction to Earth quake Engineering	3+0

Trimester VIII

Code	Course	CrHr
CT321	Irrigation and Hydraulic Structure	2+1
CT322	Reinforced Concrete Structures - I	2+1
CT323	Hydrology - I	2+1

Trimester IX

Code	Course	CrHr
CT331	Hydrology - II	2+1
CT332	Reinforced Concrete Structures - II	2+1
CT333	Steel Structures - I	3+0
MT333	Numerical Analysis	3+0

Trimester X

Code	Course	CrHr
CT411	Steel Structures – II	3+0
CT412	Quantity Surveying & Contract Document	3+0
CT413	Engineering Economics	3+0

Trimester XI

Code	Course	CrHr
CT421	Industrial Training Program (ITP- 1)	0+6
CH422	Industrial Management	2+0
EH423	Engineering Drawing	0+2

Trimester XII

Code	Course	CrHr
CT431	Industrial Training Program (ITP – 2)	0+6
SS432	Technical Report Writing	2+0
CT433	Project	0+6

Department of Technology

B Tec. in Electrical

The B. Tech Electrical Engineering program has been carefully designed to enable graduates to undertake operation and maintenance of electrical appliances by applying his/her knowledge in all stages of Electrical Engineering projects. The students are extensively exposed to the real electrical engineering projects that equip them to work in an industrial environment.

Teaching and Learning Methodology

Instruction and learning environment in the Department of Electrical Engineering at Abasyn University comprises of:

- Classroom lectures, duly supported by audio-visual aids, demonstrations and relevant handouts.
- Assignments and tutorials requiring use of reference materials and internet facility.
- Term projects and classroom presentations.
- Laboratory experiments, field work, and design exercises.
- Instructional visits to appropriate establishments, installations, construction sites, field stations, industries, etc.
- Lectures and seminars by renowned professionals from the industry.
- Enhanced use of modern computing facilities in the institution.
- The preparation of visit reports/notebooks/ field books/graphs and drawing sheets pertaining to the field work and practical work.



Trimester Plan

Trimester I

Code	Course	CrHr
MT101	Calculus - I	3+0
ET112	Basic Electrical Technology	2+1
NS201	Applied Physics	3+0
CS100	Computer Fundamentals	2+1

Trimester II

Code	Course	CrHr
MT102	Calculus- II	3+0
SS202	Communication Skills	2+0
SS120	Pak Studies	2+0
ET125	Electronics - I	2+1
ET222	Network Analysis - I	2+1

Trimester III

Code	Course	CrHr
ET131	Electronics - II	2+1
ET132	Electrical Machine - I	2+1
CT203	Differential Equations	3+0
SS121	Islamic Studies	2+0

Trimester IV

Code	Course	CrHr
ET200	Digital Logic and Design	2+1
ET213	Electromagnetic Field Theory	3+0
MT211	Complex Variables & Transform	3+0

Trimester V

Code	Course	CrHr
ET221	Network Analysis - II	2+1
ET231	Electrical Machine - II	2+1
ET332	Power Generation & Utilization	3+0

Trimester VI

Code	Course	CrHr
ET223	Power Electronics - I	2+1
ET233	Micro Processor Theory & Interfacing	2+1
ET332	Communication Technology - I	2+1

Trimester VII

Code	Course	CrHr
ET309	Power Electronics - II 2+1	2+1
ET311	Communication Technology - II 2+1	2+1
ET312	Power Transmission & Distribution - I 2+1	2+1
ET313	Measuring Instruments and Measurement	2+1

Trimester VIII

Code	Course	CrHr
ET320	Power Transmission & Distribution - II	2+1
ET321	Power System Analysis - I	3+0
ET322	Control Technology - I	2+1
ET323	Switch Gear & Protective Devices	2+1
CT323	Hydrology - I	2+1

Trimester IX

Code	Course	CrHr
ET331	Control Technology - II	2+1
ET332	Power System Analysis - II	3+0
ET333	High Voltage Technology - I	3+0
MT334	Numerical Analysis	3+0

Trimester X

Code	Course	CrHr
ET412	High Voltage Technology - II	3+0
ET413	Industrial Electronics	2+1
ET415	Project Management	3+0

Trimester XI

Code	Course	CrHr
ET421	Industrial Training Program (ITP- 1) 0+6	0+6
EH422	Industrial Management 2+0	2+0
EH423	Occupational Health Safety & environment	2+0

Trimester XII

Code	Course	CrHr
ET431	Industrial Training Program (ITP - 2)	0+6
SS432	Technical Report Writing	2+0
ET433	Project	0+6

Department of Technology

B Tec. in Mechanical

The B. Tech Mechanical Engineering program has been carefully designed to enable graduates to undertake planning, designing, construction, operation and maintenance of mechanical appliances by applying his/her knowledge in all stages of Mechanical Engineering projects. The students are extensively exposed to the real Mechanical Engineering projects that equip them to work in an industrial environment.

Teaching and Learning Methodology

Instruction and learning environment in the Department of Mechanical Engineering at Abasyn University comprises of:

- Classroom lectures, duly supported by audio-visual aids, demonstrations and relevant handouts.
- Assignments and tutorials requiring use of reference materials and internet facility.
- Term projects and classroom presentations.
- Laboratory experiments, field work, and design exercises.
- Instructional visits to appropriate establishments, installations, construction sites, field stations, industries, etc.
- Lectures and seminars by renowned professionals from the industry.
- Enhanced use of modern computing facilities in the institution.
- The preparation of visit reports/notebooks/ field books/graphs and drawing sheets pertaining to the field work and practical work.



Trimester Plan

Trimester I

Code	Course	CrHr
MT101	Calculus - I	3+0
MT114	Machining Processes	2+1
NS201	Applied Physics	3+0
CS100	Computer Fundamentals	2+1

Trimester II

Code	Course	CrHr
MT102	Calculus- II	3+0
SS120	Pak Studies	2+0
MT123	Mechanics of Materials	2+1
MT126	Fluid Mechanics - I	2+1
SS202	Communication Skills	2+0

Trimester III

Code	Course	CrHr
MT131	Applied Thermodynamics	2+1
MT132	Fluid Mechanics - II	2+1
CT203	Differential Equations	3+0
SS121	Islamic Studies	2+0

Trimester IV

Code	Course	CrHr
MT200	Manufacturing Processes - I	2+1
MT201	Workshop Technology	0+1
MT211	Complex Variables & Transform	3+1
MT212	Machine Design - I	2+1

Trimester V

Code	Course	CrHr
MT221	Industrial Materials	3+0
MT222	Machine Design – II	2+1
MT223	Manufacturing Processes – II	2+1

Trimester VI

Code	Course	CrHr
MT231	Solid Mechanics - I	2+1
MT233	Plant Maintenance	2+0
MT332	IC Engines - I	2+1

Trimester VII

Code	Course	CrHr
MT311	IC Engines- II	2+1
MT312	Mechanical Vibration - I	2+1
MT313	Solid Mechanics - II	2+1

Trimester VIII

Code	Course	CrHr
MT321	Production Planning and Control	3+0
MT322	Material Handling- I	2+0
MT323	Metrology and Gauging	2+1
MT324	Mechanical Vibration - II	2+1

Trimester IX

Code	Course	CrHr
MT331	Material Handling – II	2+0
MT332	Energy and Environmental Technology	3+0
MT333	Production Automation - I	2+1
MT334	Numerical Analysis	3+0

Trimester X

Code	Course	CrHr
MT411	Auto Cad	0+2
MT412	Engineering Mechanics	3+0
MT413	Instrumentation & Control - I	2+1
MT415	Production Automation – II	2+1

Trimester XI

Code	Course	CrHr
MT413	Instrumentation & Control - II	2+1
MT421	Industrial Training Program (ITP- 1)	0+6
MH422	Industrial Management	2+0
EH423	Occupational Health Safety & environment	2+0

Trimester XII

Code	Course	CrHr
MT431	Industrial Training Program (ITP-2)	0+6
SS432	Technical Report Writing	2+0
MT433	Project	0+6

Department of Graduate Studies

- Master of Business Administration (MBA) (according to the HEC new road map)
- MS in Management Sciences (MSMgt.)
- MS in Engineering Management (MSEM)
- MS in Logistic & Supply Chain Management (MSLSM)
- MS in Project Management (MSPM)
- MS in Aviation Management (MSAM)
- MS in Computer Sciences (MSCS)
- MS in Software Engineering (MSSE)
- MS in Telecommunication & Networks (MSTN)
- MS in Electrical Engineering (MSEE)
- MSc in Microbiology (MSc.MB)
- Ph.D Program

Master of Business Administration (MBA)

The MBA program aims at developing student's intellectual ability, executive personality and managerial skills through an appropriate blending of business and general education. The MBA curriculum provides students with a comprehensive management education of globally recognized best practices with flexibility of their adaptation to indigenous entrepreneurial and societal context. Core courses taught integrate information and theories from various disciplines, including communication, economics, financial accounting, quantitative methods, business strategy, marketing, finance, organizational structure and strategic management and prepare the students to

think critically about business issues in order to enable them to develop strategic level understanding and demonstrate comprehension of complex theoretical constructs in the major business disciplines and technologies.

Upon completion of the program, many graduates go on to become successful entrepreneurs, or to assume leadership positions in major local and multinational corporations, in consulting firms, or in government service.

Learning Outcomes

The students who earn the MBA degree will be able to:

1. Effectively utilize various human relation skills including leadership; oral and written communication; teamwork and collaboration.
2. Demonstrate competence in applying the tools and techniques of business management, drawing on a broad-based knowledge of the major functions like accounting, economics, finance, information systems, marketing, strategy and management to solve complex business problems and make sound business decisions.
3. Think critically and creatively in seeking solutions to practical and theoretical problems by using developed skills to evaluate information, solve problems, and make sound decisions.

Semester Plan

The Campus has designed a flexible MBA program to accomodate candidates with

different background qualification such as candidates with BBA four years, BA/BSc two years, etc. The following different MBA programs are available at the campus.

1. MBA of 30 CrHr for candidates with four years bachelor degree in Business or equivalent.
2. MBA of 63 CrHr for candidates with sixteen years of non-business education.
3. MBA of 90 CrHr for candidates with BA/BSc/B.Com degrees or equivalent.

MBA - 36 CrHr (1.5 - 2 years)

Year 1 Semester I

Code	Course	CrHrs
MG551	Strategic Finance	3+0
MG552	strategic Marketing	3+0
MG554	Strategic Human Resource Management	3+0
MG556	Leadership and Art of Management	3+0

Year 1 Semester II

Code	Course	CrHrs
MG562	International Business and Trade	3+0
MG563	New venture creation	3+0
MG57x	Elective I	3+0
MG699	Project (I)	3+0

Year 2 Semester III

Code	Course	CrHrs
MG57x	Elective II	3+0
MG57x	Elective III	3+0
MG572	Corporate Social Responsibility	3+0
MG699	Project (II)	3+0

MBA - 63 CrHr (2 - 2.5 years)

Year 1 Semester I

Code	Course	CrHrs
MG501	Business Economics	3+0
MG503	Business Mathematics and Statistics	3+0
MG505	Financial Accounting	3+0
MG506	Marketing Management	3+0
MG507	Theory and Practice of Management	3+0

Year 1 Semester II

Code	Course	CrHrs
MG512	Financial Management	3+0
MG514	HRM	3+0
MG515	Business Law	3+0
MG517	Business Communication	3+0
MG519	Business Research Methods	3+0

Internship	02
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Year 2 Semester III

Code	Course	CrHrs
MG521	Financial Reporting and Analysis	3+0
MG523	Strategic Marketing	3+0
MG524	Strategic Management	3+0
MG526	Operations Management	3+0
MG599	Project (I)	3+0
MG5xx	Elective I	3+0

Year 2 Semester IV

Code	Course	CrHrs
MG531	Strategic Finance	3+0
MG532	Leadership and Organizational Behavior	3+0
MG5xx	Elective II	3+0
MG5XX	Elective III	3+0
MG599	Project (II)	3+0

MBA - 90 CrHr (3.5 years)

Year 1 Semester I

Code	Course	CrHrs
MG104	Microeconomics	3+0
MG102	Financial Accounting - I	3+0
MG108	Introduction to Management	3+0
MT104	Business Mathematics	3+0
SS288	Business Communications	3+0

Year 1 Semester II

Code	Course	CrHrs
MG204	Macroeconomics	3+0
MG202	Financial Accounting – II	3+0
MG209	Principles of Marketing	3+0
MT205	Business Statistics	3+0
MG303	Business Research Method	3+0

Year 2 Semester III

Code	Course	CrHrs
MG366	Marketing Management	3+0
MG206	Business Finance	3+0
MG115	Introduction to HRM	3+0
CS204	Management Information System	3+0
MG301	Cost Accounting	3+0

Year 2 Semester IV

Code	Course	CrHrs
MG301	Financial Management	3+0
MG308	Business & Corporate Law	3+0
MG245	Organizational Behavior	3+0
MG411	Strategic Management	3+0
MG404	Entrepreneurship	3+0

Year 3 Semester V

Code	Course	CrHrs
MG551	Strategic Finance	3+0
MG552	Strategic Marketing	3+0
MG554	Strategic Human Resource Management	3+0
MG556	Leadership and Art of Management	3+0

Year 3 Semester VI

Code	Course	CrHrs
MG562	International Business and Trade	3+0
MG563	New Venture Creation	3+0
MG57x	Elective I	3+0
MG699	Project (I)	3+0

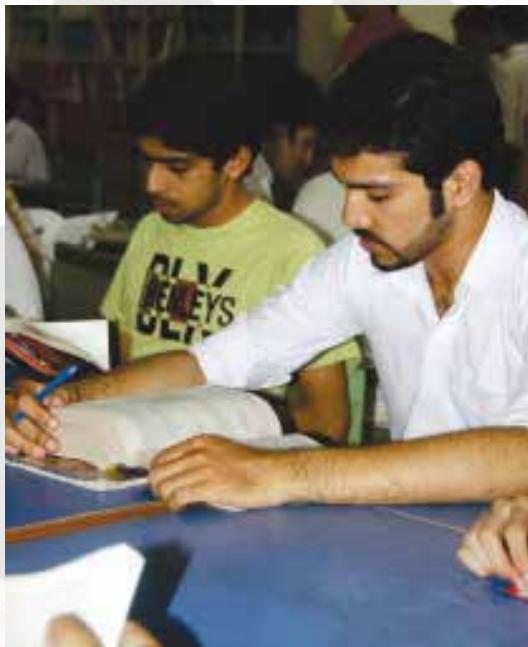
Year 3 Semester VII

Code	Course	CrHrs
MG57x	Elective II	3+0
MG57x	Elective III	3+0
MG572	Corporate Social Responsibility	3+0
MG699	Project (II)	3+0

Area of Specialization

- Management
- Finance
- Marketing
- Human Resource/Organizational Behavior
- Project Management
- Supply Chain Management
- Aviation Management

Master of Commerce (M.Com)



The objective of the program is to produce capable and confident managers, entrepreneurs and academicians by providing the students with a deep analytical knowledge of the core subjects of commerce as well as sound knowledge of their areas of specialization

Duration : 02 Years

Number of courses : 20 Courses

Credit Hours : 60 Credit Hours

Entry Requirements : 14th Years of education with at least second division.

Semester Plan

Semester I

Code	Title	CrHr
MCOM 500	Principles of Management	03
MCOM 501	Principles of Marketing	03
MCOM 502	Quantitative of Techniques in Business	03
MCOM 503	Managerial Economics	03
MCOM 504	Financial Accounting	03

Semester II

Code	Title	CrHr
MCOM 550	Research Methods in Business	03
MCOM 551	Advanced Cost and Management Accounting	03
MCOM 552	Organizational Behavior	03
MCOM 553	Financial Management	03
MCOM 554	Management Information System	03

Semester III

Code	Title	CrHr
MCOM 600	Human Recourses Management	03
MCOM 601	International Business	03
MCOM 602	E-Commerce	03
MCOM 603	Elective-I	03
MCOM 604	Elective-II	03

Semester IV

Code	Title	CrHr
MCOM 650	Operations and Production Management	03
MCOM 651	Strategic Management	03
MCOM 652	Corporate Law	03
MCOM 653	Elective-III	03
MCOM 654	Elective-IV	03

6-8 Weeks internship report/research Project and Viva Voce (03 Credit Hrs) Shall also be requirement for award of M.Com Degree.

MS in Management Sciences (MSMgt.)

MS in Management Sciences program aims at developing a student's intellectual ability in terms of understanding the theoretical and philosophical underpinnings of modern business. The students are encouraged to explore the deepest, broadest questions of life: why we exist, how society should organize itself, how institutions should relate to society, and the purpose of human endeavor, to name just a few. The program is essentially research oriented and focuses on academic research having practical applications in real life. The program is suitable both for those who want to pursue academic career and for those who want to pursue professional career.

Learning Outcomes

The students will be able to:

1. Understand the theoretical underpinnings of the modern business activity.
2. Conduct research independently.
3. Think more broadly and more deeply about the beliefs and values at the root of business activities.
4. Appreciate and critically evaluate different schools of thought.
5. Contribute towards the development of new ideas, theories and business models.

Program Structure

MS is 33 CrHr program after 16 years of relevant business education. It is research oriented degree. Although it offers different areas of specialization yet it is deemed necessary that there is a certain strategic understanding of each core functional area in order to develop integrated decision making capability. The broad structure of the program is as follows.

S.No	Category	CrHr
1	Supporting Courses	06 CrHrs
2	Core Courses	09 CrHrs
3	Elective Courses	09 CrHrs
4	Thesis	06 CrHrs
	Total	30 CrHrs

Eligibility for non-business 16 year degree holders

The students with 16 years of non relevant education will be required to do 30 credit hours of deficiency courses before they could become eligible for admission to MS program. The following courses are recommended to be successfully completed as minimum requirement.

1. Financial Accounting —I
2. Financial Accounting —II
3. Introduction to Management
4. Introduction to HRM
5. Principles of Marketing
6. Marketing Management
7. Business Finance
8. Financial Management
9. Business Economics
10. Business Mathematics and Statistics



Core Courses

Code	Course	CrHrs
MS502	Strategic Management	3+0
MS503	Strategic Marketing	
MS506	Strategic Finance	3+0
MS525	Advanced Project Management	3+0
MS509	HRM Strategy and Practices	3+0
MSXXX	Advance Operations Management	3+0
MSXXX	Management Science For Technical Manager	3+0
EM501	Advance Research Methods*	3+0

* Compulsory for Thesis Students.

Elective Courses

Code	Course	CrHrs
MS519	Organizational Behavior Analysis	3+0
MS520	Leadership & Motivation Techniques	3+0
MS518	Investment & Portfolio Management	3+0
MS517	Entrepreneurial Finance	3+0
MS413	Supply Chain Management	3+0
MS410	Advanced Quality Control Techniques	3+0
MS415	Intellectual Capital Management	3+0
MS521	Organizational Learning & Knowledge Management	3+0
MS411	Innovation & Entrepreneurship	3+0
MS416	Comparative Management	3+0
MS417	Global Corporate Strategy	3+0
MS522	Change Management	3+0

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHrs
MS501	Advanced Research Methods & Quantitative Tools	3+0
MS516	Applied Statistics for Management	3+0
MSxxx	Core I	3+0

Year 1 Semester II

Code	Course	CrHrs
MSxxx	Core II	3+0
MSxxx	Core III	3+0
MSxxx	Elective I	3+0

Year 2 Semester I

Code	Course	CrHrs
MSxxx	Elective II	3+0
MSxxx	Thesis (I)	3+0

Year 2 Semester II

Code	Course	CrHrs
MSxxx	Elective III	3+0
MSxxx	Thesis (II)	3+0

MS in Engineering Management (MSEM)



MS in Engineering Management program is an important degree program at the university. The program is designed very carefully to cater the need of various stakeholders. The curriculum of MSEM is developed in such a way to prepare students to identify problems, provide solutions for the existing problems in commercial, financial, or other types of organizations. The main tactic of this degree program is to integrate theoretical and practical aspects of computer science discipline and its applications to various business systems. The design and use of the computer based solution to variety of problems is another major aspect to be studied during the MSEM program. The MSEM program provides students with broad range of computer knowledge and practical skills required in most of business and industry areas today.

Specialization

- Engineering Management
- Industrial Management

Program Structure

Category	CrHr	
Core Courses	15	Core courses are compulsory. A list of five core courses is designed as per the HEC criteria which will be offered to students in the first two/three semesters.
Elective Courses	09	A number of electives which are common to any specialization area of the CS discipline are identified. Student will be required to take minimum one course from this category.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	



Core Courses

Code	Course	CrHr
EM601	Economics and Financial Studies for Engineers	3+0
EM602	Management Science For Technical Manager	3+0
EM603	Advance Quality Control Techniques	3+0
EM605	Engineering Project Management	3+0
EM605	Engineering Systems Modelling	3+0
EM621	Decision and Risk Analysis	3+0
EM 625	Advance Operations Management	3+0
EM501	Advance Research Methods*	3+0

Elective Courses

Code	Course	CrHr
EM6XX	System Optimization	3+0
EM6XX	Reliability Engineering	3+0
EM6XX	Innovation and Entrepreneurship	3+0
EM6XX	Advanced Manufacturing Processes	3+0
EM6XX	Advanced Research Methods	3+0

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHr
EM601	Economics and Financial Studies for Engineers	3+0
EM602	Engineering Management Science	3+0
EM6XX	Elective I	3+0

Year 1 Semester II

Code	Course	CrHr
EM603	Advanced Quality Control Techniques	3+0
EM643	Engineering Systems Modelling	3+0
EM6XX	Elective II	3+0

Year 2 Semester I

Code	Course	CrHr
EM605	Engineering Project Management	3+0
EM6XX	Elective III	3+0
TH601	Thesis (I)	3+0

Year 2 Semester II

Code	Course	CrHr
TH602	Thesis (II)	3+0

MS in Logistic & Supply Chain Management (MSLSM)



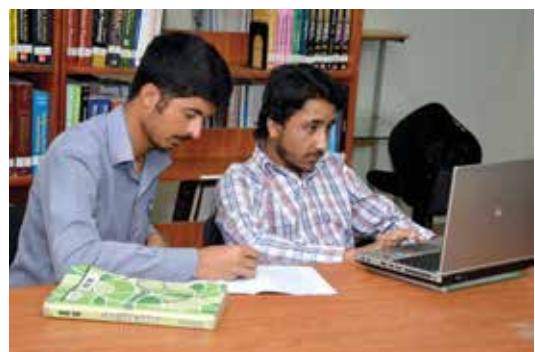
In today's high-tech and globally competitive world, Logistics and Supply Chain Management plays the most valuable role in business success. Industrial giants in Pakistan from every sector have not only started realizing the critical nature of this field but also have developed new departments for supply chain management.

This trend has created an immense demand of professionally-trained logistics and supply chain managers to manage supply chain processes. Job opportunities in this field are anticipated to grow in the future.

Abasyn University has ventured this program to instill such contemporary expertise required to excel in this particular field through MS Logistics and Supply Chain Management program.

Program Structure

Category	CrHr	Description
Core Courses	15	Core courses are compulsory. A list of five core courses is provided as per the HEC criteria.
Elective Courses	09	A number of common elective courses are identified which are useful for industrial management discipline. Students are required to take minimum three courses from this category.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	



Core Courses

Code	Course	CrHr
LM601	Logistics and Transportation Management	3+0
LM602	Supply Chain Management	3+0
LM603	Advance Quality Control Techniques	3+0
LMXXX	Management Science For Technical Manager	3+0
EM604	Supply Chain Project Management	3+0
LMXXX	Contract and Procurement Management	3+0
LMXXX	Engineering Systems modeling	3+0
LM 625	Advance Operations Management	3+0
EM501	Advance Research Methods*	3+0

Elective Courses

Code	Course	CrHr
EM6XX	Advanced Manufacturing Processes	3+0
EM6XX	Computer Integrated Manufacturing	3+0
EM6XX	Innovation and Technology Entrepreneurship	3+0
EM6XX	Advanced Operations Management	3+0
EM6XX	Advanced Research Methods	3+0

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHr
LSM601	Economics and Financial Studies for Engineers	3+0
LSM601	Engineering Management Science	3+0
LSM601	Elective I	3+0

Year 1 Semester II

Code	Course	CrHr
LSM601	Advanced Quality Control Techniques	3+0
LSM601	Engineering Systems Modelling	3+0
LSM601	Elective II	3+0

Year 2 Semester I

Code	Course	CrHr
LSM601	Engineering Project Management	3+0
LSM601	Elective III	3+0
TH601	Thesis (I)	3+0

Year 2 Semester II

Code	Course	CrHr
TH602	Thesis (II)	3+0

MS in Project Management (MSPM)

MS in Project Management (MSPM) is becoming a paramount academic qualification for project managers, technical entrepreneurs, and software developers working at various levels and different professions.

Project Management enables managers to conceive, initiate, plan, execute, control and evaluate effective projects by utilizing the theoretical and practical set of skill upon which this program is focused intensively.

The degree program is purposefully designed to benefit through following curriculums adapted from PMBOK (Project Management Body of Knowledge) and beyond. Managers, GMs, Technocrats, Manufacturers, Consultants, Entrepreneurs, Engineers, Technological Experts, Scientists, and Technical Managers would find this lucrative opportunity to enhance their project management skill set.

The curriculum of MSPM is developed in such a way to equip project managers with diversified skill set so they can comprehend a holistic design of organizational operations and their relationship to project management. Areas in strategic management, financial, marketing, and technology entrepreneurship are included in this program to expand the knowledge and value base of professionals.

Program Structure

Total number of Credit Hours and its categorical distribution:

Category	CrHr	Remarks
Core Courses	15	Core courses are compulsory. A list of five core courses is provided as per the HEC criteria.
Elective Courses	09	A number of common elective courses are identified which are useful for engineering management discipline. Students are required to take minimum three courses from this category.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	

Area of Specialization

- Industrial Project Management
- Engineering Project Management
- Software Project Management

Core Courses

Code	Course	CrHr
PM601	Scope and Time Management	3+0
PM602	Contract and Procurement Management	
PM603	Total Quality Management	3+0
PM606	Project Cost and Risk Management	3+0
PM605	Project Communication and HR Management	3+0
PM609	Advance Operations Management	3+0
PM604	Advanced Project Management	
PMXXX	Management Science For Technical Manager	3+0
EM501	Advance Research Methods*	3+0

* Compulsory for Thesis Students.

Elective Courses

Code	Course	CrHr
PM6XX	Project Stakeholders Management	3+0
PM6XX	Innovation & Technology Entrepreneurship	3+0
PM6XX	Financial Management in Projects	3+0
PM6XX	Project Integration and Supply Chains Management	3+0
PM6XX	Engineering Systems Modelling	3+0
PM6XX	Project Stakeholders Management	3+0
PM6XX	Research Methods for Project Management	3+0

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHr
PM601	Scope and Time Management	3+0
PM602	Contract and Procurement Management	3+0
EM6XX	Elective I	3+0

Year 1 Semester II

Code	Course	CrHr
PM606	Project Cost and Risk Management	3+0
PM605	Project Communication and HR Management	3+0
EM6XX	Elective II	3+0

Year 2 Semester I

Code	Course	CrHr
PM603	TQM in Projects	3+0
EM6XX	Elective III	3+0
TH601	Thesis (I)	3+0

Year 2 Semester II

Code	Course	CrHr
TH602	Thesis (II)	3+0

MS in Computer Sciences (MScS)

MS in Computer Science is an advanced degree program in the area of computer sciences which is aimed at preparing students for advanced and research oriented jobs in the area. Most of the courses in this program are designed in such a way that students are required to exhibit high level skills in research activities. A 6 CrHr thesis is a compulsory part of the MS curriculum. The program covers all major areas of computer sciences core courses related to Algorithms, Operating System, Theory of Programming Languages and Computer Architecture are offered by this program. Apart from core courses students are also required to take courses from one of the specialization areas of their own choice to fulfill the requirements of MS degree at the University.

Program Structure

Category	CrHr	Remarks
Core Courses	06	Core courses are compulsory. A list of two core courses is provided as per the HEC criteria.
Specialization Courses	06	A number of specialization areas have been identified. Students are required to take three courses from the specialization area of their own choice.
Elective Courses	12	A number of common elective courses are identified which are useful for computing discipline, students are required to take minimum one course from this category.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	

Area of Specialization

- Computer Networking
- Databases and Web Technologies
- Software Engineering
- Mobile Computing
- Artificial Intelligence and Image Processing



Core Courses

Code	Course	CrHrs
CSC502	Advanced Theory of Computation	3+0
CSC501	Advanced Design and Analysis of Algorithms	3+0



Elective Courses

Code	Course	CrHrs
CSC504	Advanced Computer Architecture	3+0
CSC551	Advanced Programming	3+0
CSC507	Information Theory	3+0
CSC508	Numerical Method	3+0
CSC522	Fuzzy Logic	3+0
CS523	Genetic Algorithm	3+0
CSC513	Advanced Network Security	3+0
CSC514	Advanced Network Programming	3+0
CSC521	Advanced Artificial Neural Networks	3+0
CSC515	Mobile Computing	3+0
CSC531	Advanced Software Engineering Techniques	3+0
CSC532	Software Quality Assurance	3+0

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHrs
CSC502	Advanced Theory of Computation	3+0
CSC5XX	Elective-I	3+0

Year 1 Semester II

Code	Course	CrHrs
CSC501	Advanced Design and Analysis of Algorithms	3+0
CSC5XX	Elective-II	3+0
CSC5XX	Elective-III	3+0

Year 2 Semester I

Code	Course	CrHrs
CSC5XX	Elective IV	3+0
CSC5XX	Specialization-I	3+0
CSC599	Thesis-I	3+0

Year 2 Semester II

Code	Course	CrHrs
CSC5XX	Specilization-II	3+0
CSC599	Thesis-II	3+0

MS in Software Engineering (MSSE)

MS in Software Engineering program is designed very carefully to cater for the need of various stakeholders. As software engineering is facilitating other sciences as well therefore the curriculum of MSSE is developed in such a way to prepare students to identify problems, provide solutions for the existing problems in commercial, financial, or other types of organizations. This degree program integrates theoretical and practical aspects of computer science discipline and its applications to various business systems. The design and use of the computer based solution to variety of problems is another major aspect to be studied during the MSSE program.

The program provides an opportunity to students to choose a specific area of the computing discipline for their specialization. The whole degree program consists of 30 credit hours.



Program Structure

Category	CrHr	Description
Core Courses	06	Core courses are compulsory. A list of 2 core courses is designed as per the HEC criteria which will be offered to students in the first two-three semesters.
Elective-Courses	18	A number of specialization areas have been identified. Students are required to take three courses from the specialization area of their own choice.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	

Area of Specialization

- Software Testing
- Software Quality Management
- Software Project Management



Core Courses

Code	Course Title	CrHrs
SE501	Software Requirement Engineering	3+0
SE502	Software Quality Assurance	3+0

Elective Courses

Code	Elective Courses
SE511	Formal Methods in Software Engineering
SE512	Software Risk Management
SE513	Software Design Patterns
SE514	Software Measurement and Metrics
SE515	Software Engineering Processes
SE516	Software Engineering for Web based and Distributed Systems
SE517	Engineering Software for Reliability and Quality
SE518	Software Costing and Estimation
SE519	Business Process Modeling
SE520	Personal Software Process
SE522	Theory of Programming Languages
SE523	Special topics in Software Engineering
SE524	Software Testing
SE525	Advanced programming
SE526	Advanced Software Engineering Techniques
SE257	Agile Software Development
SE258	Human Factors in Software Engineering
SE259	Software Engineering for Enterprise Information Systems
SE300	Machine Learning Applications in Software Engineering
SE301	Advanced Object Oriented Software design
SE302	Software Engineering using UML

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course Title	CrHrs
SE502	Software Quality Assurance	3+0
SE501	Software Requirement Engineering	3+0

Year 1 Semester II

Code	Course Title	CrHrs
SExxx	Elective-I	3+0
SExxx	Elective-II	3+0
SExxx	Elective-III	3+0

Year 2 Semester I

Code	Course Title	CrHrs
SExxx	Elective-IV	3+0
SExxx	Elective-V	3+0
SE599	Thesis (I)	3+0

Year 2 Semester II

Code	Course Title	CrHrs
SE599	Thesis (II)	3+0
SExxx	Elective-VI	3+0



MS in Telecommunication and Networks (MSTN)



MS in Telecommunication and Networks is an advanced course designed to enable the students to take on the current challenges in the Telecommunication industry and be prepared for the challenges of tomorrow. The program is designed to impart both theoretical knowledge and practical skills to its students.

MSTN program provides students with broad range of knowledge and practical skills required to excel in Telecom industry today. Students are also introduced to a number of latest computer tools to enable them to work in the industry without an on job training. The program provides an opportunity to students to choose a specific area of the discipline for their specialization.

The whole degree program consists of 30 credit hours. However, the number of credit hours may be more in case students have not completed 4 years engineering education after F.Sc /A-Level.

Program Structure

Category	CrHr	Description
Core Courses	15	Core courses are compulsory. A list of five core courses is developed as per the HEC criteria which will be offered to students in the first two-three semesters.
Elective Courses	09	A number of specialization areas have been identified. Students are required to take three courses from the specialization area of their own choice.
Thesis	06	Intensive research to be conducted under the supervision of a faculty member.
Total	30	

Area of Specialization

- Network Security
- Mobile Computing
- Wireless Communication
- Artificial Intelligence and Image Processing



Core Courses

Code	Course	CrHr
TLC509	Wireless Communication Networks	3+0
TLC503	Digital Communication	3+0
TLC512	Advanced Data Networks	3+0
TLC504	Mathematical Methods in Communication	3+0
TLC508	Advanced Digital Signal Processing	3+0

Elective Courses

Code	Course	CrHr
TLC5XX	Random Variable and Stochastic Processes	3+0
TLC507	Wireless Communication	3+0
TLC514	Networks Design	3+0
TLC531	Network Comm & Performance Engineering	3+0
TLC532	Switching Systems	3+0
TLC533	Satellite Communication	3+0
TLC513	Advanced Network Security	3+0
TLC534	Signal Processing in Wireless Communication	3+0
TLC521	Advanced Artificial Neural Networks	3+0
TLC535	IP Telephony	3+0
TLC514	Advanced Network Programming	3+0
TLC515	Mobile Computing	3+0
TLC536	Application Development for Mobile Devices	3+0
TLC542	Industry overview and telecommunication management	3+0
TLC543	Telecom System Analysis and Planning and Design	3+0
TLC544	International Telecommunication Management	3+0
TLC537	Advanced Telecom and Mobile Networking Lab	3+0
TLC545	Financial Decision Making and Risk Analysis	3+0
TLC5XX	Next Generation Network (NGN)	3+0
TLC514	Advanced Network Programming	3+0

Semester Plan

Year 1 Semester I

Codes	Course	CrHrs
TLC512	Advanced Data Networks	3+0
TLC5XX	Mathematical Methods in Communication	3+0
TLC508	Advanced Digital Signal Processing	3+0

Year 1 Semester II

Codes	Course	CrHrs
TLC5XX	Elective I	3+0
TLC503	Digital Communication	3+0

Year 2 Semester I

Codes	Course	CrHrs
TLC509	Wireless Communication Networks	3+0
TLC5XX	Elective II	3+0
TLC599	Thesis (I)	3+0

Year 2 Semester II

Codes	Course	CrHrs
TLC5XX	Elective III	3+0
TLC599	Thesis (II)	3+0

List of elective courses may be revised as per requirement.

MS in Electrical Engineering (MSEE)

Abasyn University is one of the fast growing private universities in Pakistan to offer various degree programs in Computing and Engineering disciplines. The University has successfully launched various academic programs in these areas in the last few semesters. The University has now planned a full-fledged master degree program in Electrical Engineering which will be launched at all of its campuses from Fall Semester 2013. The main goal of the program is to create specialists to solve many of the industrial problems faced by the nation. Electronics, Communication, Computing, Image processing and intelligence systems will be the main areas of study and research. Hands on practice, real world applications, case studies and activity led learning (ALL) methodologies will be used to implement curriculum. The graduate of the program will be highly useful for the job at the international companies.

Major Outcomes of the program:

- Ability to investigate technology and tools
- Ability to design and propose new methods
- Ability to design solution to problem faced by computing and engineering industries.
- Ability to work independently
- Ability to produce impact factor research

Program Structure

Similarly other master programs MSEE curriculum is also divided into various categories, such as core, electives,

specialization courses and thesis. A 6 CrHr thesis is compulsory part of the MSEE curriculum. All students will be required to complete thesis on individual basis. The course work of the MSEE program consists of 9 CrHr core and 15 CrHr elective and specializations courses.

Category	CrHr	Description
Core Courses	09	Core courses are compulsory. A list of core courses is designed based on latest trend in Electrical Engineering as per the HEC criteria which will be offered to students in the initial three semesters. Students will be required to choose three core courses from the list after a consultation with the HoD/Dean.
Elective Courses	15	A number of specialization areas have been identified. Relevant courses for each specialization area are listed. Students will be required to complete four courses from the chosen area.
Thesis	6	Intensive research to be conducted in this course. The University encourages Master students to publish their research work at international forums.
Professional workshops	0	All students will be required to take at-least two professional workshops during the entire degree program. The Department will arrange workshops on various tools and techniques for graduate students.
Total	30	

Core Courses

Code	Course	CrHrs
EE601	Probability and Random Processes	3
EE602	Advanced Digital Signal Processing	3
EE603	Advanced Digital Design	3
EE604	Advanced Digital Communication	3
EE605	Advanced Engineering Mathematics	3
EE606	Advanced Computational Techniques	3
EE607	Advanced Research Methodology*	3
EE758	Information Theory and Coding	3
EE750	Advanced Power System Analysis	3
EE733	Discrete Time Control System	3

* Compulsory for Thesis Students.

List of Specialization and Electives

Code	Course	CrHrs
EE620	Advanced Linear Algebra	3
EE621	Advanced Computer Programming	3
EE622	Advanced Topics in Electrical Engineering	3
EE623	Numerical Device Modeling	3
EE624	Optimization Techniques	3
EE625	Advanced Artificial Intelligence	3
EE626	Multi Topics in Computer Architecture	3
EE627	Advanced Design and analysis of Algorithms	3
EE628	Advanced Operating System	3
EE629	Advanced Micro Processor and Interfacing	3
EE6xx	Digital IC Design	3
EE 711	Detection and Estimation Theory	3
EE 712	Error Control Coding	3
EE 713	Cellular Radio Network Planning	3
EE 714	Optical Communication Systems	3
EE 715	Advanced Wireless Communication	3
EE 716	Advanced Communication Networks	3
EE717	Special Topics in Communication	3
EE718	Space time Communication	3
EE721	Advanced Digital Image Processing	3
EE722	Pattern Recognition	3

EE723	Computer Vision	3
EE724	Machine Learning	3
EE725	Robotic Vision	3
EE726	Advanced Artificial Neural Networks	3
EE727	Special Topics in Computer Vision	3
EE731	Linear System Theory	3
EE732	Nonlinear Control Systems	3
EE733	Discrete Time Control System	3
EE734	Control Systems Design	3
EE735	Adaptive Control	3
EE736	Special Topics in Control Systems	3
EE737	Embedded Systems	3
EE741	Mobile Computing and Wireless Networks	3
EE742	Wireless sensor and mesh networks	3
EE743	Advanced Data Communication	3
EE744	Network Performance Analysis	3
EE745	Advanced Computer Networks	3
EE746	Network Programming	3
EE747	Network Security	3
EE748	Special Topics in Computer Networks	3
EE749	Advanced computer architecture	3
EE751	Data Communication Networks & Security	3
EE752	Cryptography and Security Mechanisms	3
EE753	Computer Security	3
EE754	Secure Communication System Design	3
EE755	Computer Crime and Ethics	3
EE756	Access Control and Database Security	3
EE757	Advanced Network Security	3
EE759	Advanced Cryptology	3
EE760	Information Hiding	3
EE761	Digital Forensics	3
EE762	Advanced Power Electronics	3
EE763	Power System Protection	3
EE764	Introduction to High Voltage Engineering	3
EE7xx	Advanced Low Power Digital Physical Implementation Flow	3

List of elective courses may be revised as per requirement.

Semester Plan

Year 1 Semester I

Code	Course	CrHrs
EExxx	Core I	3+0
EExxx	Core II	3+0
EExxx	Elective I	3+0

Year 1 Semester II

Code	Course	CrHrs
EExxx	Core III	3+0
EExxx	Elective II	3+0
EExxx	Elective III	3+0

Year 2 Semester III

Code	Course	CrHrs
EExxx	Elective IV	3+0
EE599	Thesis (I)	3+0

Year 2 Semester IV

Code	Course	CrHrs
EExxx	Elective V	3+0
EE599	Thesis (II)	3+0



MSc in Microbiology (MSc.MB)

Abasyn University Peshawar campus offers variety of programs in the area of life sciences such as MSc & MPhil in Microbiology and Doctor of Pharmacy. The University is now planning to launch these programs at its campus in Islamabad. The Islamabad campus has already launched Pharm D. Program after NOC given by Pharmacy Council of Pakistan (PCP).

Keeping in mind the recent demand of Microbiology discipline, the campus has decided to offer MSc in Microbiology from Spring 2014 Semester. Microbiology is particularly appropriate for students in allied health fields, agriculture, environmental engineering, restaurant and institutional food management. The students taking this course will come to understand and appreciate the unique nature of microorganisms and their importance of life on earth.

Program Structure

The whole MSc program can be completed in two years which consists of four semesters.

A total number of 60 credit hours is required to complete this degree.

Total Duration : 02 years

Total Credit Hours : 60

Semesters : 04



Semester Plan

Year 1 Semester I

Code	Course	CrHrs
MB501	Microbial Anatomy and Physiology	3+0
MB502	Immuno-biology	3+0
MB503	Soil Microbiology	3+0
MB504	Pathogenic Microbiology	3+0
MB505	Biostatistics	3+0

Year 1 Semester II

Code	Course	CrHrs
MB511	Microbial Genetics	3+0
MB512	General Virology	3+0
MB513	Environment Microbiology	3+0
MB514	Research Methodology	3+0
MB515	General Mycology	3+0

Year 2 Semester III

Code	Course	CrHrs
MB601	Molecular Immunology	3+0
MB602	Microbial Diversity	3+0
MB603	Clinical Microbiology	3+0
MB604	Food and Dairy Microbiology	3+0
MB605	Molecular Mechanism of Antimicrobial Drugs	3+0

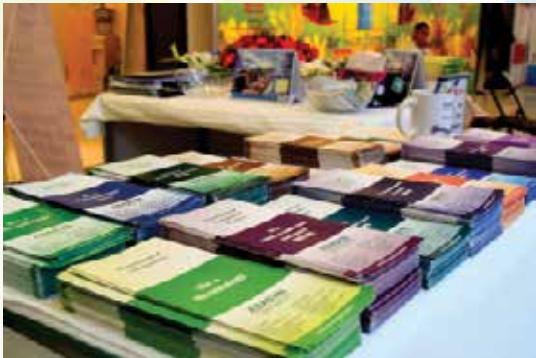
Year 2 Semester IV

Code	Course	CrHrs
MB611	Industrial Microbiology	3+0
MB612	Parasitology	3+0
MB613	Microbial Metabolism	3+0
*MB699	Thesis/Project	6+0

*In lieu of the MB699 thesis/project, students can take the following two courses. Students with high GPA and research aptitude will be encouraged to take thesis/project instead of courses.

Code	Course	CrHrs
MB622	Principles of Gene Manipulation	3+0
MB621	Microbial Biotechnology	3+0

PhD Programs



Introduction

This section presents details related to PhD program offered by the University. The information in this section is very brief but useful for students to plan their PhD programs. Students will be provided additional information by their respective Departments and Supervisors. All students begin their PhD studies with the status of “admitted to the PhD program”. Continuation in the PhD program requires that the student perform satisfactorily during various stages such as course work, comprehensive and thesis proposal defence. Finally, admission to candidacy requires that the student demonstrate evidence of research ability on the thesis proposal defense conducted by the University. The key program activities are expected to complete as per HEC guidelines for PhD program.

Admission to the PhD Program

Abasyn University offers admission to its PhD program on the basis of open merit. Admission to PhD program is offered in the Fall and Spring Semesters. However, under special circumstances a candidate may

submit his/her application to the University any time during the academic year. The Graduate Studies and Research Management Council (GSRM) is the final authority to verify and confirm PhD admission.

General Criteria and Procedure for Admission

Candidates seeking admission in PhD program have to fulfill certain requirements depending on their respective field of study. The final evaluation of students seeking admission in PhD program will be done by GSRM on case to case basis. However, all applicants are required to meet the following eligibility criteria for direct PhD admission:

- A minimum of eighteen years of education resulting in a Masters or M.Phil degree with thesis option from an HEC recognized University.
- 3.0/4.0 Cumulative GPA in semester based system or First Division in the annual based system or equivalent.
- NTS/GRE/GMAT/IAT (Abasyn Admission Test) –
 - NTS – 60 or above accumulative score or
 - GRE General Score
The score level will be determined by the GSC.
 - GRE Subject Test—As per department requirement
or (if applicable)
 - Abasyn Aptitude Test (AAT) – 70% score (Note: If the Test is not available in NTS subject list, then a University Committee consisting of at least 3 PhD faculty members in the subject area will conduct an AAT for the applicants).

Procedure to apply for the PhD

A candidate will apply for admission in a PhD program using Application form available for this purpose. A personal research statement will also be submitted by the student along with the application form. The admission committee or the admission office will thoroughly scrutinize the application form and send the research statement to the relevant Department. If the Admission Office and the concerned Department are satisfied with the qualification and suitability of the candidate then the applications of all candidates will be sent to the GSRM for final approval.

Transfer Cases

AU accepts transfer students into Ph.D. program. However, the university or program from which a student intends to transfer should be HEC recognized university or program. The courses already studied by the candidate will be evaluated by the PhD admissions committee at the department level. The concerned department will submit candidate's application for transfer along with the accepted courses to Graduate Studies and Research Management Council (GSRMC) for final approval. However, HEC's rules will be strictly followed in this regard and not more than 50% courses will be transferred. Results of Comprehensive exam, proposal defense or any other related examination will not be transferred.

PhD Program: Credit Hours Distribution

A PhD candidate is required to complete 48 credit hours which are distributed in the following manner:

- Minimum 18 CrHr course work for students who are enrolled in direct PhD program.

- PhD Thesis of 30 CrHr

The 18 CrHr course work is distributed as follows:

- Two Core or Compulsory courses (6 CrHr):

A PhD student will be required to take two core courses. The two core courses will be offered from the list of approved core courses for the program in which the student is enrolled.

Four elective courses (12 CrHr) from the area of Specialization:

In addition to two core courses, four elective courses will be offered from the approved list related to area of specialization of the student.

Note: In some cases (if suggested by the supervisor or PhD advisory committee) a PhD student may require to take courses from the support areas such as Math, Research Methods, etc.

Structure and duration of PhD program

The normal duration of the PhD degree is three year; however, a student may be granted extension after approval by the PAC behind the normal period.

The overall structure and duration of the PhD degree is presented in the table below.



Course Work – Comprehensive Examination		Thesis Proposal/ Thesis/ Thesis Defense	
Year 1	Year 2	Year 3	Year 4
Semester – I Core Course no. 1 Core Course no. 2 Allocation of the PhD Supervisor.	Semester – I Specialization/ Support area course no. 3 Specialization/ Support area course no. 4	Semester – I Work on thesis Registration for 10 CrHr Thesis Semester – II Work on thesis Registration for 10 CrHr Thesis	Semester – I Work on thesis Student will be registered as thesis write-up student with no CrHr hrs in this period. Semester – II Thesis Defense (if thesis is completed), otherwise thesis write-up status will continue to next semester Semester – II Work on thesis Thesis defense In case thesis is not completed, further extension will only be granted by the COUNCIL after the recommendation of the PAC.
Semester – II Specialization/ Support area course no. 1 Specialization/ Support area course no. 2	Semester – II Comprehensive Examination Work on Thesis Proposal – Student must be registered for 10 CrHr Thesis Thesis Proposal Defense	Thesis Defense (if thesis is not completed in the speculated period PAC can grant extension for one year to enable student to complete his/her thesis).	

Note: Student may take courses during summer semester (if available).



Financial and Assistantship

The University believes in promoting research culture in the country; therefore, maximum support is provided to PhD scholar to financially support their studies at the AU. Further, AU admits students purely on merit basis, regardless of their financial status. PhD students after the completion of course work may be involved in teaching undergraduate level courses in order to provide them financial support from the University.

The following schemes of fee waiver or

discount are available at the AU:

- Qarza-e-Hasna
- Assistantship in the form of Research Fellow, Teaching Assistant, Lab Assistant.
- Fee discount for student with research experience, journal publication and bright academic record.
- Assistantship through industrial projects (if available and subject to the approval of the Project Investigator)
- Students can also obtain grants from other organizations such as HEC, ICT R&D fund and Ministry of IT (if available).

The breakdown of the Tuition and other financial charges is as follows:

Admission fee	Rs. 20,000/- (one time)
Tuition fee	Rs. 75,000/- per semester (2 sem in year)
Registration and other charges	Rs. 10,000/- per semester
Library and Laboratory Security (refundable)	Rs. 25,000/- (For Life Sciences, Computing and Engineering)
Total for the first year	Rs. 180,000/-
Total for the 2nd and 3rd year	Rs. 160,000/-
Continuation fee behind 3rd year	Rs. 75,000/-

Evaluation of thesis by expert from Technological

Fee for two foreign Evaluators from Technology Advanced countries	\$600/- (one time)
Final Examination and Internal Review fee	Rs. 50,000/- (one time)

* Rupees 10,000/- per credit hour will be charged in Summer Semester (if required)



Faculty Members

Abasyn University, Islamabad Campus



Dr. Muhammad Noman Jafri

Dean Engineering & Computing

- PhD (Electrical Engineering), University of Ottawa, Canada
- MSc (Electrical Engineering), University of Ottawa, Canada
- BSc (Hons.) (Electrical Engineering), West Pakistan UET, Lahore



Dr. Amjad Mahmood

Executive Director/ Professor

- PhD (Computer Science), University of London, UK



Dr. Muhammad Salik Javaid

Professor/HoD

- PhD (Civil Engineering) Georgia Institute of Technology, Atlanta, GA, USA.
- MSc (Civil Engineering) Georgia Institute of Technology, Atlanta, GA, USA.
- MS (War Studies) QAU, Islamabad, Pakistan.
- BS Hon (War Studies) Balochistan University, Quetta, Pakistan.
- BSc (Civil Engineering) MCE, NUST, Risalpur, Pakistan.



Dr. Muhammad Yousaf Khan

Associate Professor

- PhD (Software Engineering) Abertay University, Dundee, Scotland, UK.
- M.Phil (Software Engineering) Computer Science, Abertay University, Dundee, Scotland, UK.
- BSc (Hons) Computer Technology, Teesside University, Middlesborough, UK.
- BSc (Pass), Karachi University.



Dr. Imran Shafi

Associate Professor/HOD Graduate Studies

- PhD (Computer Engineering) CASE, Islamabad.
- MS (Computer Engineering) NUST, Islamabad.
- BE (Aerospace Engineering) NUST, Islamabad.



Dr. Sidra Sultana

Hod Computing / Assistant Professor

- PhD in Computer Software Engineering NUST
- MS in Computer Software Engineering (2010-2013) NUST
- BSE (Bachelors in Software Engineering) (2006-2010) Fatima Jinnah Women University



Dr. Iffat S. Chaudhry

Assistant Professor (on leave)

- Ph.D (Management), Hull University, UK.
- MBA Executive (Marketing), University of South Asia, Lahore, Pakistan.
- BSIT (Information Systems), Preston University, Ajman, UAE.
- Higher Diploma in Software Engineering, Aptec Centre, Sharjah, UAE.



Dr. Muhammad Akhlaq Mughal

HoD Pharmacy

- PhD (Pharmaceutical sciences 2012) University of Peshawar- University of the Sciences in Philadelphia, Philadelphia, PA (USA).
- B. Pharmacy 1999. University of Peshawar, Peshawar



Dr. M. Zaheer Akhter

Professor

- PhD (Education) University of Arid Agriculture, Rawalpindi, Pakistan.
- MS (Management) Arthur D' little Management Education Institute, Cambridge, Massachusetts, USA.
- MA (Public Administration), Punjab University, Lahore, Pakistan.



Dr. Fariha Masood

Assistant Professor

- PhD (Bio Sciences) Comsats, Islamabad
- MPhil (Bio Technology) Quaid-i-Azam University, Islamabad



Dr. Ch. I. Zafar

Assistant Professor

- Ph.D. (IT), PIMSAT Karachi, Pakistan.
- M.Sc in Digital Electronics (Radio and Communications Engineering), Kings College London, University of London, UK.
- B.Sc Engineering (Electronics), UET, Taxila, Pakistan.

**Engr. Wasif Latif**

Assistant Professor

- MS Telecommunications & Networks, Iqra University, Islamabad, Pakistan.
- BSc (Hons) Electrical Engineering, UET Taxila, Pakistan.

**Engr. Yasir Javed**

Assistant Professor

- MS (Computer System Engineering) CASE, UET Taxila, Pakistan.
- BS (Computer System Engineering) NUST, Pakistan.

**Engr. Kamran Qureshi**

Lecturer

- MS (Electronics Design) Mittuniversitetet (Mid-Sweden University), Sweden
- BS (Telecommunication Engineering) National University of Computer and Emerging Sciences, FAST-NU, Pakistan

**Engr. Aisha Qamar**

Lecturer

- MS-Electrical Engineering, NUST College Of Electrical & Mechanical Engineering (CEME)
- BS-Electronic Engineering, Institute: International Islamic University Islamabad

**Mr. Khan Shahid Kamal Khan**

Lecturer

- M.Sc (Construction Engineering and Management) NUST, Pakistan

**Mr. Rashid Kamal**

Lab Engineer

- BS (Compute Science) Iqra University, Islamabad
- BS (Artificial Intelligence) Comsats, Islamabad (On Track)



Mr. Abdul Basit
Assistant Professor

- Ph.D Wireless Communication in Femtocells.(in progress)
Iqra University Islamabad
- M.S Telecommunication. Iqra University Karachi
- M.Sc Mathematics.Hazara University Mansehra



Ms. Rabaila Riaz
Lecturer

- MS (Biotechnology) Balochistan University, Pakistan



Ms. Naheed Akhtar
Assistant Professor

- MS (Civil Engineering) UET, Taxila, Pakistan
- BS (Civil Engineering) UET, Taxila, Pakistan



Mr. Zeeshan Ullah
Assistant Professor

- PhD (Construction Engineering & Management) NUST, Islamabad
- M.Sc (Construction Engineering and Management) The Superior University, Lahore



Ms. Rashida Khalid
Lecturer

- MS (Electrical Engineering) COMSATS, Islamabad
- BS (Electrical Engineering) NFC, Faisalabad



Engr. Shahzaib Iqbal
Lecturer

- MS (Electrical Engineering) Abasyn University
- BSc (Electrical Engineering (Telecom)), COMSATS Institute of Information Technology, Wah Cantt



Mr. Roman Khan

Lecturer

- MBA (1.5) Quaid-e-Azam University, Islamabad
- BBA (Hons) Islamia College, Peshawar



Mr. Furqan Saeed

Lecturer

- MBA, Bahria University Islamabad.
- B.Com (Information Technology) GIFT University, Gujranwala, Pakistan.
- Diploma (Business Administration) Liverpool College of Management, London.



Ms. Anum Umair

Lecturer

- MPM (Project Management) Szabist, Islamabad
- BBA Hons Comsats, Islamabad



Mr. Muhammad Idrees

Assistant Professor

- PHD SCHOLAR, COMSATS Institute of Information Technology, Islamabad
- MS (APPLIED MATHEMATICS) NED University of Engineering and Technology, Karachi
- MSc (APPLIED MATHEMATICS) University of Karachi, Karachi



Mr. Muhammad Wasim

Lecturer/Program Coordinator Pharmacy Department (On Leave)

- Pharmaceutical Chemistry, Master of Philosophy (M. Phil) Riphah International University, Islamabad, Pakistan.
- Doctor of Pharmacy (Pharm-D) University of Malakand. Malakand, Pakistan



Ms. Tabinda Azim

Lecturer

- M.Phil. (Pharmacology) University of Sargodha, Sargodha.
- B-Pharmacy, Islamia University, Bahawalpur



Muhammad Sarfaraz
Lab Engineer / Junior Lecturer

- MS National University Sciences & Technology (In progress).
- B.E. (Civil Engineering) UET, Lahore



Ms. Naveen Ahmed
Lecturer

- MS (Software Engineering) NUST, Pakistan
- BS (Software Engineering) International Islamic University, Islamabad



Ms. Khola Ilyas
HoD Management & Social Sciences/ Assistant Professor

- MS (MGT) Iqra University, Islamabad.
- MBA International Islamic University



Mr. Khursheed Ali
Assistant Professor

- M.Phil in English Literature. (course work completed) University of Hazara, Mansehra
- Master in English Literature and linguistics, University of Peshawar



Mr. Asad Hanif
Lecturer

- MS (Computer Science) Iqra University, Islamabad, Pakistan
- BS (Telecommunication & Networks) Iqra University, Islamabad, Pakistan



Ms. Sameen Javed
Lecturer

- MS (Software Engineering) NUST, Pakistan
- BS (Software Engineering) FJWU, Rawalpindi

**Mr. Muhammad Asif**

PhD (CS) Scholar

- MS (Artificial Intelligence) PMAS, AAU, Rawalpindi.
- BS (Information Technology) PMAS, AAU, Rawalpindi.

**Mr. Tariq Ali**

PhD (Computer Science) Scholar

- MS (Computer Science) MS (Computer Science), MAJU Islamabad.
- BIT, Gomal University

**Mr. Saif-ur-Rehman**

PhD (Computer Science) Scholar

- MS (Information Technology), SZIABIST, Islamabad.
- MSc, Gomal University, DI Khan.
- BSc, Gomal University, DI Khan.

**Mr. Zeeshan Khan**

PhD (Operations & Supply Chain Management) Scholar

- MBA (Supply Chain & Project Management) Iqra University, Islamabad.
- BS (Electrical Engineering) UET, Peshawar, K.P.K.

**Mr. Naeem Akhtar**

PhD (Computer Science) Scholar

- MS (Computer Science) Islamic International University, Islamabad.
- BS (Computer Science) Islamic International University, Islamabad.

**Mr. Moazzam Jan Bakhtiar**

PhD (Management) Scholar

- MS (Management Science) MAJU, Islamabad.
- MBA, AIOU, Islamabad.
- M.Com, University of Peshawar, K.P.K.
- B.Com, University of Peshawar, K.P.K.

**Mr. Muhammad Rashid**

Assistant Professor

- M.Phil (Pharmacology) University of Sargodha, Pakistan
- Doctor of Pharmacy, University of Malakand, K.P.K, Pakistan

**Mr. Allah Nawaz Khan**

Lecturer

- MS Microbiology and Immunology, COMSATS IIT Islamabad
- BS. (Hons) Biotechnology. U.S.T Bannu

**Mr. Imran Arshad**

Lecturer

- BS in Physiotherapy (Riphah Islamabad)

**Dr Sajjad Ahmad**

Assistant Professor

- PhD Pharmacy, University of Malakand

**Ms. Wajeeha Khalid**

Lecturer

- M.Phil in Pharmacuetics, University Of Lahore.

**Ms. Iqra Hamid**

Lab Assistant

- Pharm_D , University Of Lahore.

**Mr. Muhammad Zeshan Khalil**

Lab Engineer

- B.Sc (Civil Engineering) UET , Taxila, Pakistan

**Mr. Asim ul Haq**

Lab Engineer

- BS (Electrical Engineering) COMSATS, Islamabad, Pakistan

**Mr. Rafi-ul-Zaman**

Lab Engineer

- BS (Electrical Engineering) Islamic University, Islamabad, Pakistan

**Engr. Hafiz Muhammad Murtaza**

Lab Engineer / Junior Lecturer

- BSc (Engineering) UET, Taxila.
- MS (Engineering Management) Abasyn University (in progress)

**Ms. Madiha Naveed**

Lab Engineer

- Bachelors of Science in Information Technology, IBMS Agriculture University Peshawar

**Engr. Muhammad Farjad Sami**

Lecturer

- MS (Geotechnical Engineering) National University Sciences & Technology.
- B.E. (Civil Engineering) Military College of Engineering, Risalpur (NUST)

**Mr. Muhammad Shahrukh Pasha**

Lab Engineer

- BS (Civil Engineering) UET Taxila

**Mr. Tasawar Husain**

PhD (Computer Science) Scholar

- MS(Computer Science), MAJU, Islamabad.
- MSc , University of Peshawar, K.P.K.
- BSc , University of Peshawar , K.P.K.

**Mr. Riffat Iqbal**

PhD (Operations & Supply Chain Management) Scholar

- MSc, UET Taxila.
- MBA (Marketing), Institute of Leadership and Management, Lahore.
- BA (Economics), Punjab University, Lahore.

**Mr. Malik Muhammad Irfan**

PhD (Management) Scholar

- MS (Management Science) SZABIST, Islamabad.
- MSc (Management Science) Quaid-e-Azam University, Islamabad.
- B.Com, Punjab University, Lahore.

**Mr. Najum-Ul-Hussain**

Researcher

- BE (Electronics Engineering) Iqra University, Islamabad.

**Mr. Abdul Hannan**

PhD (CS) Scholar

- MS (Computer Science) Iqra University, Islamabad.
- BS (Software Engineering) Foundation University, Islamabad.

**Mr. Moin-ud-Din Qureshi**

PhD (Operations & Supply Chain Management) Scholar

- MS (Engineering Management) NUST, Islamabad.
- BS (Electrical Engineering) UET, Peshawar, K.P.K.

Abasyn University has a wide variety of clubs which promotes extra co-curricular activities, so that students along with their studies can lighten up, enhance their practical skills, groom their personalities and explore their hidden talents.

AMC (Abasyn Media Club) serves as a platform where all the latest news and events are updated whether hosted by themselves or other societies occurring in Abasyn University. Together with encouraging students to enhance their skills on photography content writing and editing.



Grepbing serves as a platform where students can enhance their skills by being updated on all the seminars and workshops related CMMI and Agile methodologies, Microsoft, python and other events occurring in this university.



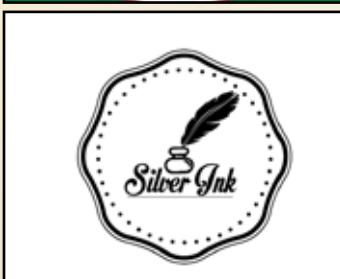
Khakka is a society which promotes art, culture and drama. This is a club where a variety of events take place from arranging events such as Eid melad ul Nabi to organizing dramatic plays and promoting creativity within students.



This society promotes awareness within students about healthcare, knowledge about life threatening diseases, and organizes events health related seminars and holds conferences related to biosciences.



Silver ink is a society which promotes Urdu and English literature. Along with that, it is also responsible for organizing debates, speeches, book club discussions and other literary events, enhancing communication and writing skills, promoting creativity, critical thinking and love of books.





Products Developed By R&D Labs, hosted at the Abasyn University Islamabad Campus

Renzym products are focused on the development of true SDRs with the minimum of implementation effort in the hardware. Our team is striving to provide our customers with state of the art SDR platforms and software frameworks that can enable them to build software defined radios directly from personal desktops/laptops using USB and sound card interfaces. Our main products include:

HF SDR Transceiver

HF SDR Transceiver is a high performance, direct conversion HF transceiver for high data rate, long range HF Tactical radios with frequency hopping and ALE capabilities. Its key features include 48 KHz of channel bandwidth, onboard DDS chip for carrier generation and USB interface.



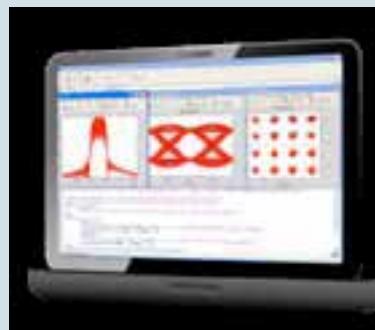
SDR Communication Kit

SDR Communication Kit enables true SDR development directly from Matlab/LabView class room simulations. It is a USB powered device specifically designed for hands on communication system design experience for engineering labs and organizations involved in the SDR development.



Renzym SDR Framework

RSF is a digital modem software with more than 15 built-in PSK, QAM and FSK waveforms and C/Python APIs for development and rapid prototyping of SDRs. It can be used with HST, SCK or other front end hardware to readily build a real-time communication system.



Mobile Application Development



Augmented Reality

Augmented reality techniques have been implemented for many applications at the R&D Labs in Abasyn University, some of the examples are shown below.



Video Play



Alphabets



Solar System



Medicine Description



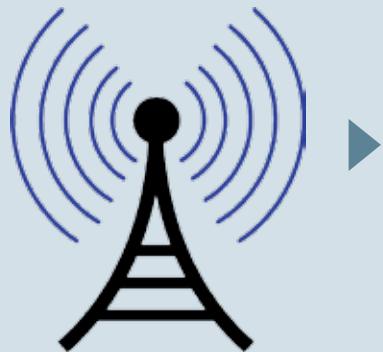
AR Piano



AR Car

Facilities at the Abasyn University Islamabad Campus

- Library Equipped with Latest Books:
 - More than 2000 books
 - More than 30 International research journals
 - A vast collection of latest reports on various topics
 - Daily News Papers and magazines



- Latest Computer Labs
Equipped with latest technology and softwares

- Campus Wifi
Students can enjoy wifi internet facility all around the campus



- Laboratories
Equipped with latest technology and equipment

- Cafeteria
Hygienic, Healthy Food Facility
- Girls Common Room



- Masjid



- Seminar Rooms
Fully Equipped Seminar rooms available

- Extra Curricular Activities
 - Sports Gala
 - Industrial Trip
 - Study Tour
 - Annual Student's Week

Internships – Industrial training program during studies

- Compulsory internship programs are incorporated to the curriculum of bachelor degree to enable students to get latest knowledge and get working experience in multi-national organizations.
- The aim of the internship program is to enhance the professional competency among the students and to have industry collaboration.
- This will also help them to find good job or open up their own business.

We are planning to build another campus at Islamabad with a vision to provide world class facilities for teaching, study, entertainment and sports by 2015-2016.

Research Contribution by Abasyn University

The University fully understands the important role of universities to produce new knowledge through research. Therefore, the University has launched quality journal in the area of Social Science which covers most of the academic programs offered at both the campuses. The title of the journal is "Abasyn Journal of Social Sciences". It is also hosted two international conferences on technology and business management in 2013 and 2014.

▲CTBM-13 - 1st Abasyn International Conference on Technology & Business Management

The First Abasyn International Conference on Technology and Business Management was organized by Abasyn University, Peshawar and Islamia College, Peshawar on April 3-4, 2013. The conference received lot of papers from Pakistan and other countries. A total of 36 papers were accepted and approved by the review committee and presentation and conference proceedings. The event brought together several experts, researchers and scientists from various universities and organizations at Peshawar to share their ideas with young researchers and students. Papers in the conference covered all important areas of business and technology including finance, marketing, HR, entrepreneurship, communication, wireless communication, computer science and engineering. The conference benefited all of the participants.



▲CTBM-14 - 2nd Abasyn International Conference on Technology & Business Management

2nd Abasyn International Conference on Technology and Business Management took place on 26th MArch, 2014. It remained a great success at the Abasyn University Peshawar Campus. More 20 papers were presented at the conference covering variety of topics pertaining to business and technology domain. The conference was attended by many researchers and distinguished academicians from Pakistan and Abroad. Professor Saeed and Professor Qadar Baulch were the keynote speaker at the event. Abasyn intends to continue its endeavors for cultivating the culture of research in the region by arranging third international conference in year 2015.



International Collaboration

The University has also established a number of collaborations with foreign universities of UK, Turkey and China, where the students of Abasyn University can transfer their credit hours by 100%. These Universities include:



Southampton Solent University UK



Surrey International Institute of
Finance & Economics,
Dongbei University China



University of Bedfordshire, UK



British Institute of Technology
and E-commerce London



Fatih University, Istanbul,
Republic of Turkey.



Zirve University, Izmir,
Republic of Turkey.



Yildiz Technical University, Istanbul,
Republic of Turkey.



Ishik University, Erbil, Iraq.



Suleyman Sah University, Istanbul, Republic of Turkey.

CAMPUS calling



Admission Procedure

Abasyn University offers admission on open merit basis. There is no quota system followed at the University. The eligibility mentioned below must be fulfilled by the candidate at the time of submitting application. All candidates for undergraduate programs who are eligible for admission will be required to appear in the entry test arranged by the University (NTS test results are also acceptable in lieu of university entry test).

Admissions to various programs are announced through national news papers and social media well before the date of the entry test. All applications for admission are accepted on prescribed forms with attested photocopies of all the previously obtained Degrees/Certificates/DMCs, and any other

document mentioned in the application form attached to the Prospectus.

Admission is based upon careful review of all credentials presented by the applicant. These applications will be considered without regard to race, gender, age, religion, marital status, physical disabilities, and national origin. All required admission documents should be submitted to the Office of Admissions. The University reserves the right to change its admissions policy without prior notice.

Eligibility

BE Electrical Engineering (BEEE)

BE Civil Engineering (BECE)

Doctor of Pharmacy (Pharm-D)

The candidate must have 60% or above marks in Intermediate (pre-engineering) or equivalent to apply for admission to the BE Electrical Engineering program.

The candidate must have 60% or above marks in Intermediate (pre-medical) or equivalent to apply for admission to the Doctor of Pharmacy program.

Other Programs

The candidate must have one of the following qualifications with an overall 2nd division or equivalent grade.

For the Bachelor's Program:

- a. Intermediate with certain required courses according to the chosen discipline of study
- b. For the A-levels students the following criteria applies:
 - 3 Full credit courses of A Levels.
 - Students will be required to produce equivalency certificate from Inter Board Committee of Chairmen (IBCC) within two months of the admission offer.

Selection criteria and weightages:

- a. Matric : 10%
- b. Intermediate : 50%
- c. Entry test, NTS or any aptitude test : 40%

For the Master's Program

- a. The candidate should have passed 4 year Bachelor's* degree from any recognized university with certain required courses according to the chosen discipline of study. (for example for admission to MS in Electrical Engineering - a 4 year BSc Electrical Engineering).
- b. The candidates are required to provide NTS General TEST result with a minimum

cumulative score of 50 percent, within the first two semesters after enrollment. The admission office provides guidance how to take NTS examination.

For Standing Admissions (Transfer Students)

All potential students applying for transfer of credits must have been enrolled in an HEC recognized institution. Furthermore, they are required to fulfill and complete all admissions requirements for their respective programs. The following criteria will be used to assess the Academic eligibility of transfer students:

- a. Duly completed Transfer of Credit form.
- b. Mark sheets/transcripts of current and previous academic work
- c. Course outlines for all courses that a student wants to be transferred to the university.
- d. No objection certificate from the previous institution of enrollment.
- e. All potential candidates are required to take the Admission examination, unless they are transferring from another campus of Abasyn University.
- f. According to the university policy students must complete at least half of the program to get a degree.
- g. No credit hour of a course will be transferred if the grade is less than C for undergraduate/Master of 16 year and B for Master/Mphil programs.



Application



The fee for the application packet i.e. Rs.1000/- can be paid in cash if collected in person. If requested by post the fee should be sent in the form of a bank draft or pay order in the name of Abasyn University. Application can be downloaded from official Website of Abasyn University (www.abasyn.edu.pk). Application can be filled and submitted online as well. However students are required to bring their required documents on the day of test/interview. Application must be submitted before the deadline fixed by the University.

Required Documents with application

The following documents are required to be submitted along with the Admission Application Form:

- Completed Admission application form.
- Mark sheets of all previously completed academic work.
- If a candidate has completed previous academic work from another education system, an Equivalence Certificate from the Inter Board Committee of Chairmen

(IBCC) is required within two months of the admission offer.

- 4 Passport size photographs.
- Copy of Computerized National Identity Card / Form B.

Admission Test

Abasyn University arranges its own entry test to make sure that the quality of intake is the best. However, the university also accepts NTS, TOEFL, IELTS test scores for the admission in the replacement of its own entry test. The admissions test covers the following areas:

1. English
2. Mathematics
3. Logic and Analytical

Abasyn University provides students with all the necessary examination stationary, thus students don't need to bring anything along with them.



Fee Structure and Financial Support

The University is well aware of the economic conditions of the country. Therefore, the University has exceptionally subsidized tuitions fee of all of the academic programs. The fee structure is vary from the program to program. The fee is charged on Credit hour basis during each semester. Candidates are requested to obtain information about the tuition of fee of each program from the admission or finance offices.

In addition to tuition fee students are also required to pay the following fee:

- Admission fee Rs.5,000/- once at the time of admission
- Refundable security Rs. 5000/- once at the time of admission

- Registration fee Rs. 3000/- per semester
- Miscellaneous fee Rs. 6000/- per semester
- Degree fee Rs. 10,000/- once at the time of completion and award of degree

The university reserves the right to change the fee structure without prior notice to students. Tuition fee is increased by 3%-7% each year. Tuition Fees at Abasyn University are quite affordable as compared to others. Details can be obtained from Admission Office or visit our website www.abasynisb.edu.pk.



Orientation Session



EE Farewell party
Batch Fall 14

Academic Policies and Rules



Academic Integrity

Abasyn University expects integrity from every student and staff in all academic work. AU does not support plagiarism in any form. AU main principle regarding the academic integrity is that student's submitted work must be of his or her own creation. Conduct prohibited by the code consists of all forms of academic dishonesty, including: cheating, fabrication, facilitating academic dishonesty, and plagiarism which is defined in the code of conduct, modifying any academic work for the purpose of obtaining additional credit after such work has been submitted to the supervising faculty member. Failure to observe rules of academic integrity established by a faculty member for a particular course and attempting to commit any act prohibited by the code will result in severe action against the student which includes an automatic 'Fail' grade for the course and/or expulsion from the university.

Plagiarism

Abasyn University strongly discourages and condemns any form of plagiarism. Students caught cheating on any examination by using "notes" whether those notes were relevant to the test or not, or caught talking during

examination, will receive an automatic 'Fail' grade for the course. Strong disciplinary action will be taken against the accused student, including expulsion from the university. Students caught applying "copy & paste" or copying other student's work on assignments will receive an automatic '0' marks for that assignment.

Academic System

The University follows semester system for all of its degree programs. Each academic year consists of two regular semesters, i.e., Fall and Spring semesters. However, an optional condensed Summer semester is also offered to enable students to cover up any deficiency occurred in the regular semesters.

Academic Duration for various degree programs

Most of the bachelor degree programs consist of four years. However, there are certain programs which are completed in two years such as Bachelor of Commerce (BCom), and associate degrees.

Students are expected to complete their education within a specified period of time for the degree they are enrolled for. For fulltime Bachelor students, the normal time needed to complete their degree program is four (4) years and the maximum time permitted is six (6) years. Master degree students are expected to complete their degree requirements within one and half (1.5) to three and half (3.5) years.

Credit Hour

Each class is defined by the number of credit hours. At Abasyn University, majority of classes are either 3 or 4 credit hours. One credit hour is equivalent to 15 contact hours. However, one credit hour lab is equivalent to 2 to 3 contact hours per week.

Academic Load

Academic load varies from program to program. Normally a student takes 15-18 Credit Hours course work in a semester at the four years degree program. As Abasyn University offers a variety of degree programs, therefore, the academic load varies from degree to degree. See details in student hand book.

Registration

All students of Abasyn University are required to register each semester according to schedule announced by the University authority. Registration is a useful process for both the students and academic Departments in order to plan students' studies for the whole semester. Student can register minimum possible load depending on his performance in the previous semester(s). The Department can also advise weak students to not register for full load but improve the academic standing to clear the academic probation (if any).

Withdrawal from University

A student who wishes to withdraw from the University must notify the Admissions Office and Head of Department in writing by completing the University Withdrawal form. The Admission Office after proper procedure will issue a letter to student for the closure of the admission in the University.

Freezing of Semester

A student may request freezing of his/her admission for up to 2 semesters along with 'Semester freeze' charges of Rs. 5,000 per semester. The written approval of the Head of Department and the Registrar is required. A student cannot freeze more than two semester consecutively and a student cannot avail this facility for more than two time in the whole degree duration.

Grading System

Since AU offers a diverse degree program, therefore, grading scheme varies from discipline to discipline. Letter grades, standing, percentage and grade points are shown in the table below:

Letter Grade	Standing	Percentage	Grade Point
A	Outstanding	85-100	4.00
A-	Excellent	80-84	3.67
B+	Very Good	75-79	3.33
B	Good	70-74	3.00
B-	Above Average	65-69	2.67
C+	Average	61-64	2.33
C	Moderate	58-60	2.00
C-	Acceptable	55-57	1.67
D+	Pass	53-54	1.33
D	Pass	50-52	1.00
F	Fail	Below 50	0.00
I*	Incomplete		
W*	Withdraw		

* Are not included in the calculation of Grade Point Average (GPA).

Academic Probation

Students whose performance is not satisfactory are kept on academic probation. The following rules of academic probation will be used:

- a. If a student obtains a GPA less than 2.0 in a semester, the student will be placed on academic probation. Students in this status are urged to seek academic counseling through appointment with the Head of the Department or the Dean.
- b. If a student who continues to get a GPA below 2.0 in the following semester will be placed on second academic probation. Student and his parent/guardians will also be informed about the weak performance of the student..
- c. A student who fails to raise his/her GPA above 2.0 after the second probation period will be dismissed from the university. However, if the student manages to raise the GPA above 2.0, then their name is removed from the probation list.

A student on probation is advised not to take more than 12 credit hours per semester (3-4 courses) until he/she is not removed from the probation list.

Repetition of Course with lower grades

Students who obtain a grade below 'C' will be allowed to improve their grades. In case a student with C+ grade would like to improve his/her grade will be required to get a written permission from the registrar office with the final approval of the Vice Chancellor.

Attendance Requirements

Abasyn University expects students to be punctual and regular in all classes. The students must attend 75% of total classes held in a semester. A student must also maintain at-least 65% in each course to be eligible to appear in the examination. A student does not fulfill the above requirements will be automatically award 'F' grade in the concerned subject.

In case of an unexpected emergency or absence on genuine grounds, students must submit an application to Head/Dean office with all relevant documents. The Dean or a committee review these kinds of cases and recommend for approval in relaxation of attendance to the Vice Chancellor. In case, the students were absent from classes because of the University sponsored events, it will be the University responsibility to arrange make-up classes for these students.

Dean's List of Honors

A Student is placed on the Dean's list, if his/her CGPA equals or exceeds 3.50 at the end of semester. Such a student receives a certificate and cash award and his/her name is also placed on the University's website. Only those students are included in this list who have completed the semester with regular course load prescribed in the study plan.

Vice-Chancellor's List of Honors

A student is placed on the Vice-Chancellor's Honours list, if his/her CGPA is 4.00 at the end of a semester. Such a student receives a certificate and cash award and his/her name is also placed on the University's website. Only those students are included in this list who have completed the semester with regular course load prescribed in the study plan.



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