The University of
AZAD JAMMU & KASHMIR

Prospectus 2017-18

VISION

Transformation to excellence through holistic education.

MISSION

The University is committed to quality education, research and values-driven mentorship through innovations to serve the society and the changing world.

GRADUATE PROFILE

The UAJK endeavors to produce graduates of high caliber distinguished for their depth of knowledge, professional competence, knack and energy to put their knowledge to practical applications. They are to become enlightened moderate individuals exhibiting attributes of positivism, tolerance and optimism, capable of responding to modern challenges and tackling problems with courage and determination. Graduates are imbued with moral courage, freedom of thought, perseverance and to serve their community & country with dedication.

بسم الله الرحمن الرحيم

Sardar Masood Khan
President
Azad State of Jammu &
Kashmir/ Chancellor

Chancellor's Message

I am delighted to extend my heartiest felicitations to the University of Azad Jammu and Kashmir on successfully completing more than three decades of academic excellence. About 37 years back, the University of Azad Jammu and Kashmir was established with a view to give higher education to the youth of Azad Jammu and Kashmir and Pakistan.

Higher education and its applications in practical fields are imperative for the economic growth of a nation and cannot be overlooked. The University of Azad Jammu and Kashmir is pursuing its mission to deliver quality education to young students.

I am pleased to observe that the University, despite its young age and financial constraints, has been able to attain good ranking among national universities. The University is staffed with highly qualified, committed and dedicated faculty led by the Vice Chancellor. They are working in an atmosphere conducive to learning and research activities. I am happy to see that the University is striving hard to achieve a prominent position at national and international levels by creating a dynamic educational environment.

I am confident that the students will become valuable members of a rapidly changing society which requires responsible and participative global citizenship. The University is alive to the needs and necessities of the changing times. It has given its students access to the multiple fields of learning and introduced many new disciplines.

I am glad that the University is also focusing on the development of collaboration with foreign universities to enhance exchange programmes of faculty, staff and students. A number of faculty and students are pursuing for their advanced level education at different renowned Universities of the world including Turkey, China and other part of the world.

I am confident that the graduates of this University will positively contribute to the development of Azad Jammu & Kashmir and Pakistan and prove themselves to be role models as professionals.

Prof. Dr. Muhammad Kaleem Abbasi
Vice Chancellor
The University of Azad Jammu & Kashmir

Vice Chancellor's Message

My Dear Students,

Having established as the premier institution of Higher Education in 1980, the University of Azad Jammu & Kashmir (UAJK) has completed another year of its journey towards academic excellence. The University is a multi-campus and multi-discipline institution established to cater for the higher educational needs of the people of Azad Jammu & Kashmir and the adjoining areas of Pakistan.

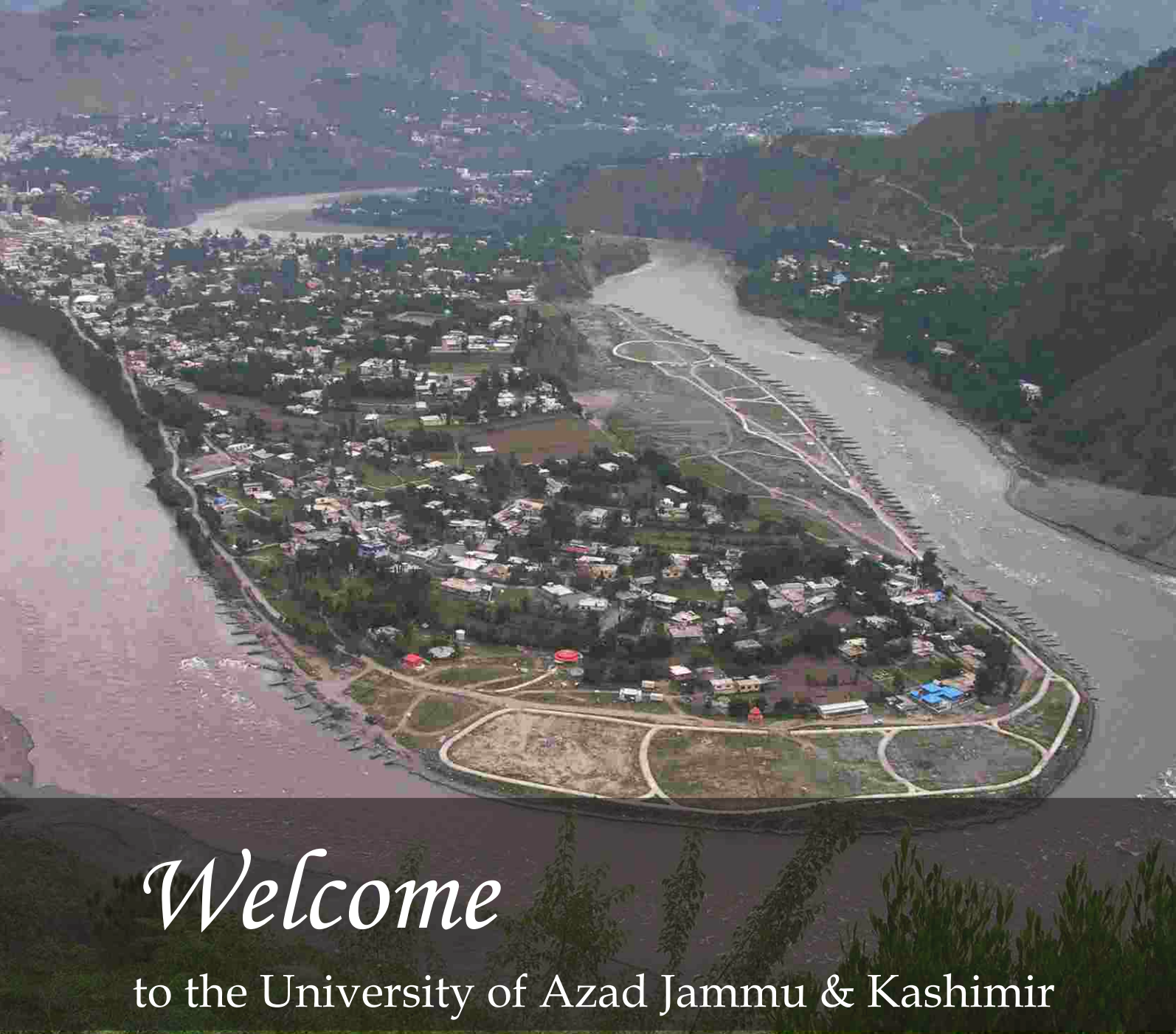
We are committed to provide quality education to the students across the state of AJK and Pakistan regardless of their ethnic, economic or social background. The UAJK is offering educational and research opportunities in 72 degree programs both at Undergraduate and Graduate level. The scientific laboratories, updated libraries and furnished classrooms along with peaceful and conducive atmosphere help in carrying out intellectual grooming of the students.

The University is conspicuous on the academic horizon by arranging conferences, seminars and workshops. UAJK is quite responsive to the national issues and causes. Hence international conferences, seminars such as *"Kashmir in the Emerging Global Perspective (2011)"* and *"Qafila-e-Yakjehti Kashmir (2016)"* were arranged to highlight the plight of human suffering in the Indian Occupied Kashmir (IOK).

The University of AJK is also involved in developing collaborative linkages with national and international institutions. In this regard, Memoranda of Understanding have been signed with a number of organizations. The MoU for the establishment of Turkish Language and Culture Centre has already been signed while the establishment of Arabic and Chinese languages Chairs are in process.

The construction of King Abdullah Campus at Chattar Klass is underway and with its completion, we will have state of the art infrastructure to provide facilities to the faculty and students.

I am proud of my faculty, staff members and students who helped the University attain the present academic excellence.



Welcome

to the University of Azad Jammu & Kashimir

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The State of Azad Jammu & Kashmir

Azad Jammu & Kashmir (AJK) is the liberated part of the former State of Jammu & Kashmir. It is situated to the north of Pakistan at a distance of around 110 kms and about 3 hours' drive from Islamabad. The total area of AJK is 13297 sq. kms and is inhabited by over four million people.

The state consists of ten districts namely, Muzaffarabad, Neelum, Hattian Bala, Poonch, Bagh, Sudhonti, Haveli, Mirpur, Bhimber and Kotli. Azad Jammu & Kashmir is a land of wonders blessed with unparalleled natural scenic beauty. Its breath taking scenery, high mountains blanketed with lush green grass covered with towering trees and the snow capped peaks the meandering rivers curling through mountains, the naturally formed waterfalls and lakes form a stunning background. Hence the beauty of the valleys of AJK mesmerize those who happen to witness it. AJK is a favorite tourist attraction for people from various parts of the world. It is a well-known destination to those who love nature and adventure. The more known and explored tourist sites are; the captivating valleys of Neelum, Jhelum, Leepa, Sudhan Gali, Rawalakot, Banjosa, Paniola, Tolipir, Las Danna, Sehnsa, Tatta Pani, Sarda and Mangla. However, the state of AJK offers many more sites worth visiting. Besides being rich in natural scenic beauty, AJK has been generously gifted by nature with the rich wild life including Snow Leopards, Hunting Leopards, Brown Gorals, (Mountain Goat), Musk Deer, pheasants, Read Led Partridges (Chakkar) Black Koklas, Pheasant, Peacocks, Eagles and Dusk Markhor.

The existing population of AJK is composed of clans and tribes believed to be the descendants of the Semitics Mongols, Aryans, Persians, Turks and Arabs. Where else could one find so many different races combined into a single organic whole? About a dozen languages are spoken in the state which includes Kashmiri, Pahari, Gojri, Hindko, Kohistani, Kundal Shahi, Pashto, Shina, Dogri and Punjabi. Matching with its natural beauty, Kashmir is also famous for its rich and diverse cultural heritage. The handicrafts of the region are well-known worldwide. The more prominent products include; Carpets & Rugs, Namda, Gubba, Patoo, Silk & Woolen Clothes, Woolen Kashmiri Shawls, Wood Carving and Papier-mâché. Among the cultural culinary are included; rice yakhni, math maz, aabgoshat, tabakh-maz, ristay, gushtabey, hareesa, rogan josh and saag (spinach). The taste of these Kashmiri delicacies and their decorum of serving is unique in nature. Though the average land holdings are limited in the hilly terrains of AJK, yet the climatic settings favor horticulture and floriculture to flourish.

Neelum Valley, Azad Jammu & Kashmir

An Introduction to the University of Azad Jammu & Kashmir

The University of Azad Jammu & Kashmir is a multi-campus and multi- discipline premier public sector University of AJK established in the year 1980. It consists of the main campus, based at Muzaffarabad (the capital of AJK) and four faculties located at its two campuses. The main Campus is a spectral combination of the faculty of Sciences & Engineering, Health & Medical Sciences, Social Sciences and Humanities. The Faculty of Sciences includes the academic departments of Botany, Biotechnology, Chemistry, Computer Sciences, Physics, Statistics, Mathematics, Zoology and the institute of Geology and faculty of Engineering includes the Software Engineering and Electrical Engineering, while the Kashmir Institute of Economics, Institute of Kashmir Studies. Institute of Education; and the departments of English, Law, Education, Sociology& Rural Development, Art & Design, Business Administration and Psychology form the humanities and social sciences group. Also located at the main campus are the Lincoln Corner and a high-tech Physics lab. After experiencing the devastating earthquake of October 08, 2005 the UAJK was temporarily relocated at Islamabad for a year which saved precious academic year of the students. In Dec 2006 the University was shifted back to its original location in Muzaffarabad AJK. With an HEC grant hostels for male, and female students and the faculty were built

at Muzaffarabad. The reconstruction of the University of Azad Jammu & Kashmir is the foremost challenge being faced. The construction of the King Abdullah Campuses at Muzaffarabad is under way with the PC-I worth Rs 5.561 billion out of Saudi Fund for Development (SFD). The Neelum Campus of UAJK located at the district headquarter of Athmuqam was established in September 2013 by launching undergraduate degree programs in English, Computer Sciences and Information Technology. On August 01, 2015 the Jhelum Valley campus was established at Hattian Bala by offering undergraduate BS degree programs in the academic disciplines of English, Education and Computer Sciences.

Aims & Objectives

- ★ To admit students to the university on merit basis, following a transparent admission policy and engaging faculty of highest caliber and experience who can nurture students in getting updated knowledge in their respective fields of study and develop critical thinking in them to question the prevalent ideas and philosophies in a logical manner.
- ★ To provide students and faculty, excellent research experience by furnishing state of the art research facilities where they acquire practical skills to undertake sophisticated research compatible to international standard.
- ★ To develop communication skills in our students and faculty by advancing proficiency level so that they may be able to share their ideas and research findings with international community contributing to growth of knowledge and becoming productive members of the society.
- ★ To instill humanistic values in students and faculty where they uphold integrity, truth and fairness, promote tolerance in society and create peaceful environment for the wellbeing of the humanity and exhibit best Islamic values.

The University Campuses in Muzaffarabad

The river Neelum running through the Muzaffarabad city bifurcates the University of Azad Jammu & Kashmir into two parts i.e. the City Campus and the Chehla Campus. The City Campus is located in the heart of the city near the main business center while the Chehla Campus stands on the eastern bank of the river Neelum. One can contrast of the clamor of the downtown city life at the City Campus and the calm and serene atmosphere of Chehla Campus to match one's mood. At night, the capital city of AJK presents a magical view. Overviewing from the top of a mountain, it offers an array of lights which captivates the viewer.

Looking a little away from the city center, the thinly scattered lights on mountains appear like stars and you feel, for a while, as if the sky has been turned upside down. The cultural life of the city is as varied as its landscape. As one walks through the city, this contrast becomes too obvious to notice.

The Main Campus at Muzaffarabad

The main/central campus of UAJK in Muzaffarabad city offers hostel facilities for non-local male and female students. Hostels are furnished with all the basic needs of boarding. With a view to providing quality food at a reasonable price, two cafeterias have been set up on campus. Also present are two spacious playgrounds available for sports activities. The university hosts annual inter-collegiate and Intra-university sports events. In addition to this, indoor sports facilities are being provided in hostels where students can enjoy in their leisure time. These include table tennis, badminton and other indoor games. Transport facilities in the form of university bus service ply in and around the city from early morning to late evening in order to pick and drop the university students. In addition, a shuttle service of university transport runs between the two campuses in the city. A well-stocked University Central Library with digital access to 31000 online research journals is providing services to the students and faculty both. Two University mosques at the City campus and the Chehla campus, a Lincoln Corner, a High-tech Lab, a well-equipped Digital Video-Conference (DVC) hall, photocopying center, transport and ambulance services are some of the additional facilities worth mentioning.

FACULTIES

- **FACULTY OF SCIENCES**
- **FACULTY OF ARTS**
- **FACULTY OF ENGINEERING**
- **FACULTY OF HEALTH & MEDICAL SCIENCES**

MAIN CAMPUS MUZAFFARABAD

UNDERGRADUATE DEGREE PROGRAMS OFFERED

(BS 4 YEARS PROGRAMS)

Faculty of Sciences

- Applied Geology
- Botany
- Chemistry
- Computer Sciences
- Mathematics
- Physics
- Statistics
- Zoology

Faculty of Arts

- Art and Design
- Business Administration
- English
- Economics
- Education
- Islamic Economy and Banking
- Sociology & Rural Development
- LL.B (5Years)
- Psychology

Faculty of Engineering

- Electrical Engineering
- Software Engineering

Faculty of Health & Medical Sciences
BS Allied Health Sciences (4 Years)

- Anesthesia and Intensive Care Sciences
- Cardiovascular Technology
- Dialysis and Critical Care Sciences
- Physiotherapy and Rehabilitation Sciences
- Radiology & Medical Imaging Sciences
- Surgical and Operation Theater Sciences
- Emergency Medical Technology
- Clinical Laboratory Sciences
- Vision Sciences

MASTER'S DEGREE PROGRAMS (MA, MSc., MBA, etc)

Faculty of Sciences

- Botany
- Chemistry
- Computer sciences & Information Technology
- Mathematics
- Physics
- Statistics
- Zoology

Faculty of Arts

- Business Administration (Executive)
- English
- Economics
- Kashmir Studies
- Sociology & Rural Development
- Urdu
- Islamic Studies
- Psychology

POSTGRADUATE PROGRAMS
MS/M.PHIL 2 YEARS DEGREE PROGRAMS

Faculty of Sciences

- Botany
- Biotechnology
- Chemistry
- Computer sciences & Information Technology
- Geology
- Mathematics
- Physics
- Statistics
- Zoology

Faculty of Arts

- English
- Economics
- Education
- Kashmir Studies

Faculty of Health and Medical Sciences

- Public Health

DOCTORATE/(Ph.D) DEGREE PROGRAMS

Faculty of Sciences

- Botany
- Biotechnology
- Chemistry
- Computer Sciences & Information Technology
- Geology
- Mathematics
- Physics
- Zoology

Faculty of Arts

- English
- Economics

Directorate of Students' Affairs (DSA)

Dear Students,

It gives me immense pleasure to introduce and welcome you to the University of Azad Jammu & Kashmir, Muzaffarabad (UAJK). University of AJK has always believed that only education can accelerate the pace of national development resulting in a shift from conventional education to the concept of human capital formation.

University of AJK faculty and administration aims to produce well-rounded professionals capable of thinking logically. This development is possible only through a supportive and positive learning environment that encourages academic excellence, freedom of discussion, personal growth, moral integrity and an understanding of latest trends of knowledge and skills. Apart from stringent academic standards, UAJK provides co-curricular dimensions to the students through various societies, social programs and cultural events.

Once you become part of our institution, our dedicated and talented teaching faculty will give you a warm academic welcome. I hope you will find this Prospectus an informative and helpful guide to your relevant degree and student services as well as my Directorate of Students' Affairs.

Introduction

The Directorate of Students' Affairs was established in May 2004. The Directorate is headed by Director Students' Affairs (DSA) who is assisted by Deputy Directors Student Affairs, Director Sports, Wardens of Hostels and a Medical Officer. A sub-office of Deputy Director Students' Affairs has been established at City campus. The office operates under the guidance of the respective DSA. The Directorate offers various services to the students including admissions, welfare, sports, health care, career counseling, guidance, scholarships, financial aid and hostel accommodation.

DIRECTOR STUDENTS' AFFAIRS

Dr. Rehana Kausar

Deputy Directors Students' Affairs

Mrs. Nabeela Qayum Sheikh

Dr. Rizwan Taj

Dr. Manzoor Ahmad

Facilities

Cafeteria

Muzaffarabad Campus houses purposefully erected one cafeteria at the city campus that caters to the needs of students. There is a cafeteria at Chehla Campus as well. These have ample space to organize student functions. University makes it sure that the food-items served at cafeterias are fresh, nutritious as well as economical.

Dinning Halls

There is a messing facility in each hostel of the University. Hostel mess is managed by a Mess Committee, consisting of the Warden as Chairman; and three to five representatives of the residents elected monthly/quarterly in such a manner as may be determined by the Warden. The Mess Committee elects a student as its Secretary. The Warden also acts as Treasurer. The Mess Committee is responsible to cater for good meals to their residents.

Health Care

Health care is considered most important both for students and employees of the University. The University has hired the services of a medical specialist for each campus to provide basic medical facilities to students and employees. To establish Health Care Centre with qualified doctors and paramedical staff at each campus is planned to look after the health of on campus students and the employees.

Mosques

Each campus has mosque and prayer facility for students and employees of the university.

Careers

There is a strong demand for UAJK graduates amongst prospective employers including multinationals and prestigious organizations of all sizes. The vocational focus of many of the courses and the integrated periods of industrial training help to develop the maturity and skills that employers look for. Employers are also aware that UAJK's academic reputation attracts high caliber students.

In recent years most of fresh graduates are doing full-time jobs, while others go on to further study.

Counseling

The counseling service exists to help students acquire personal skills, self-knowledge and psychological resource which will enhance their University learning in terms of developing their full potential as students and emotionally healthy members of the community. This is

achieved through counseling students individually or in groups; by contributing to the University environment through consultation and training; by studying the environment and recommending changes based on research data and judgment. Counseling service also helps in career planning and career opportunity.

Student worries and concerns include study difficulties, personal and relationship problems, food facility eating issues, etc. are addressed by counseling these may be sorted out through single sessions, short term support or counseling over a longer period.

A Career Counseling Centre has been established for guideline to the students to help them in career selection. The center is open to all the students.

The center provides information on a wide range of occupations, employers, further study and vocational training.

Students may wish to discuss plans with Career Advisors, or make use of the computer guidance system, or take part in training sessions run by the Centre.

Syed Mustanser Abbas Naqvi
President Career Counseling
E-Mail: smanmzd@gmail.com

Career Counseling Society has a leading role to counsel out students on career opportunities in UAJK, Muzaffarabad. Careers advice and guidance acts as a stepping stone for success. Choosing the right career option and keeping the market in mind is crucial. Unfortunately not many students are able to discover their potentials and interest at early stage. With an increase in number of opportunities in market the importance of career counseling has also increased manifold. People have begun to realize the fact that not all can become engineers or doctors' and start exploring other fields depending out their talents and interests in alternate domains.

A good, decision at right point can make your life pleasant a wrong one can ruin it.

So, determine your potentials, clear the doubts and boost up your morale to step forward towards success.

Enterprise and Industry Links

The University of AJK is well-known for its strong links with business and we are keen to build on this and encourage enterprise culture among students and staff.

Welfare

The Directorate of Student's Affairs provides help in all possible ways in promoting talent and developing the personality of the students. It organizes seminars, symposia, debates and also provides an appropriate forum to the students to freely express and share their views, perceptions and experiences. It also organizes educational tours to give wide exposure on educational and development programs of the state / country. Student career counseling center has been established, which provides guidance in all matters from admission to job placement at the end of their study programs.

Accommodation

After earthquake, the Muzaffarabad was damaged. To cater to the residential needs, one boy's hostel and one girls' hostel at Muzaffarabad has been built with the generous grant from the HEC.

Each hostel provides mess facility, services of room

attendants and telephonic facility to its boarders in addition to recreational and other basic facilities. For the limited number of seats available at the above hostels, the office of the Directorate of Students' Affairs invites applications through the Heads of the Departments/ Institutes for the accommodation from graduate and postgraduate students. These allotments are made strictly in accordance with the departmental merits. However, handicapped students are given preference.

How to Apply for Accommodation?

All whole time students admitted directly to the university colleges/Teaching Departments for a regular course of study will be eligible to apply for accommodation in the University/College Halls/ Hostels, provided that:

Applications for allotment of seats in the Halls/Hostels shall be submitted to the Dean of a College/Chairman of the Department, (in triplicate on prescribed form available from the College/ Department). The students will take copies of the forms along with three copies of their photographs (passport size) pasted on them and duly attested by the Director/Chairman directed to the Hall/Hostel Warden who will keep one form with him/her and forward two forms one to the Director Students' Affairs (DSA) and the other to the Chairman/ Director concerned indicating on the forms the number of room allotted to the student. The DSA will be kept informed of the changes made in the allotment of seats within the Hall/Hostels by the Warden.

At the beginning of each academic year, a resident student shall be required to produce a certificate from the Chairman/Director of his Department to the effect that he is on the rolls of the Department/College concerned in order to get the allotment of his/her Hall/Hostel seat renewed.

The detailed rules and regulations governing hostels accommodation can be had from the office of the warden of each hostel. However, some of basic rules are listed below:

Each selected student is required to give an affidavit to the effect that he/she will abide by hostel rules and regulations failing which his/her hostel admission will be cancelled.

Fee for accommodation is to be deposited in advance at CSD/ LSD.

Each student is required to join the hostel mess. Self-cooking is not allowed.

A student can avail hostel facility for the duration of the degree programs starting from the date of commencement to the date on which final exam terminates.

Hostel accommodation is limited and the University does not undertake any responsibility for providing hostel accommodation. While every effort is made to facilitate location of accommodation, students seeking admission should be prepared to arrange their own accommodation.

شام ثقافت کشمیر
قافلہ یکجہتی کشمیر
یوم تاسیس
NADIM

جنگ 1965ء عظیم شہداء شہریان مظفرآباد

This December In The Name
Kids Of
School
You Heart
Society (UAJK)

The University Of

Co-curricular Activities

Co-curricular activities play very important role in grooming personality of the students, enhancing their communicational skills and increasing their confidence. Student Affairs organizes these activities throughout the academic year. These co-curricular activities include:

Debates

Inter University Campuses Debating Contests

- All Kashmir Debate contest
- All Departmental Debate contest

Clubs & Societies

With a view to providing healthy outlets, the following clubs and societies have been formed.

Students' Council

We believe education is not influx of information, but more about imparting values and ideals that make our students' personality complete. Backed with experience in education and knowing the real meaning of education, we are striving to make individuals one can feel proud of. Without instilling the spirit of tolerance, compassion and commitment we cannot prepare our students for future.

The Directorate of Students' Affairs has chalked out a comprehensive strategy to utilize the potential of youth. This step would provide the younger generation with opportunities to express their talents and abilities, creating a healthy environment which would promote the culture of tolerance and moderation.

Youth is the most important section of a society. Youth would be encouraged to come forward and play their role in nation building and progress of the country. The main objective is to eliminate the sense of deprivation and hopelessness among our youth.

The Directorate is striving hard to involve the youth in healthy activities by organizing different game competitions, festivals, rallies and creative programs within the University.

In order to discuss the student related problems and propose their solutions, a student council has been established in the Directorate, to provide a forum to the students for mutual discussion. The student council comprises on the first position holder students from

different disciplines and officials of the Directorate of Students' Affairs.

Literary/Debating Society

Literature is artistic aspect of life which provides insight into various cultural dimensions. In order to promote talent and develop the personality of the students a " Literary/Debating Society" has been established in the Directorate of Student Affairs to provide a forum to the students to give vent to their views, perceptions and experiences. The selection of the office bearers is purely made on merit.

Keeping in view the performance of the students and the recommendations of the departments, the Directorate of Students' Affairs selects the best students for Debating Society at main campus.

Cultural Society

Dramatic activities help develop understanding of various dimensions of culture. To sensitize students to what is happening around them; Environment Society has been set up.

Media Club

Keeping in view the growing importance of media, a Media Club has been established. This Club aims to foster objectivity to react to media on spot and provide a forum where students can share their views and ideas on the developments taking place around the globe.

Sports Society

Adhering to the principle "a healthy mind lives in a healthy body", Sports Society has been established which is devoted to organizing all sorts of sporting activities such as football, cricket, badminton, table tennis etc. Another benefit expected to fall out is preparing the athletes to represent the university in inter-university games competition.

Hepatitis Society

Liver is the largest organ inside our body. It helps our body to digest food, store energy, and remove poisons. Hepatitis is an inflammation of the liver. Viruses cause most cases of hepatitis. The type of hepatitis is named for the virus that causes it; for example, hepatitis A, hepatitis B or hepatitis C. Drug or alcohol use can also cause hepatitis. In other cases, your body mistakenly attacks healthy cells in the liver. For the awareness of hepatitis, Screening and treatment across all Azad Kashmir, the Hepatitis society has been established in the Directorate of Students Affairs.

Geological Society

Geology plays an essential role in many areas of the economy. Economic growth and sustainability, as well as societal well-being, will require reliable supplies of energy and mineral resources, a dependable supply of clean water and the secure and sustainable production

of food. All this will be contingent on sustained investment in technology, infrastructure, education and skills development. The Directorate of Students Affairs established Geological Society for the awareness of Students.

Legal Education and Innovation Society

Legal education is the education of individuals who intend to become legal professionals or those who simply intend to use their law degree to some end, either related to law (such as politics or academic) or business. Intellectual property law is only one of many legal institutions that can help promote, stifle, or govern knowledge production. What role should the state play in innovation law, and where and how does the state play that role? How do we design a state that is institutionally capable of responding to the challenge of innovating, as well as designing innovation institutions? The Legal Education and innovation Society have been developed by the Directorate of Students Affairs.

Seerat Society

Seerat society is an Islamic society established to implant Islamic values in the young minds of the students. Seerat society is organized by Directorate of Students Affairs. Seerat society arranges for many events to implant better understandings of Islam in young minds. Seerat society also invites mashaikh, and learned scholars for the benefit of the students.

Admissions

Admission Policy: The University offers admissions for graduate and postgraduate classes during the fall and spring semesters in each year. The Registrar office issues Admission Notice/Advertisement/Schedule. Prospectus containing application forms for admission are issued and received by the office of Director Students' Affairs Muzaffarabad.

Admission Procedure

Students can collect and submit their application forms from admission officer's office established in Muzaffarabad. A Central Semester Desk (CSD) will assist candidates in the admission process. Local Semester Desk (LSD) will assist them at each campus adopting the following procedure for admission:

- Collection of Admission forms in CSD / LSD.
- Scrutiny of documents and preparation of merit list by Admission Committee.
- Display of merit list by CSD / LSD.
- Submission of fee.

CSD and LSD

Central and Local Semester Desks will help students when they are collecting forms and submitting fee or register themselves for any semester.

The CSD will consist of the following counters to assist students:

- Registration Counter

- Controller Exams Counter
- Director Finance Counter
- Bank Counter
- Departmental Counter
- Admission Office
- Information Counter

Certificates to be attached with the application form

Attested copies of the following certificates /degrees should accompany the application:

- DMC's of the examinations passed.
- Character certificate issued by Principal of last attended.
- Migration certificate (if applicable).
- State subject certificate (if applicable).
- Domicile certificate.
- National Identity Card.
- Five passport size photographs.
- No objection certificate in case of those serving in Govt. or any other Institution, from their employer.

Candidates seeking admission under any of the reserved seats/ categories, should submit relevant certificate issued by competent authority and any other plea such as “Certificate under process” shall not be entertained.

Last date for submission of application forms

Application completed in all aspects and attached with the Demand Draft/ Cash Deposit receipt of Habib Bank University Branches for Rs.1500/- together with necessary certificates shall be deposited by candidates in the office of Director Students' Affairs at Muzaffarabad or at the office of Deputy Director Students on or before due date against a proper receipt.

Late Admission

In case some seats fall vacant after the completion of admission process, late admission may be offered to the candidate within the 3rd week after commencement of the semester.

However, in such a case the student shall be responsible to make up any kind of deficiencies.

Reserved Seats

The breakup of seats amongst the various categories and the nominating authorities is mentioned as in the table below:

S.No.	Reserved Category	Number of Seats in Each Department/institute
1.	Open Merit (for AJK Nationals)	27
2.	Self-Support Seat	06
3.	Children of Armed Forces Personnel (To be nominated by the Armed Forces HQs)	02
4.	Children of School Teachers (To be nominated by the Government Secretariat of Education for Schools)	01
5.	Children of College Teacher (To be nominated by the Government Secretariat of Education for Colleges)	01
6.	Children of University Employees (To be nominated by the Vice Chancellor)	01
7.	Children of University Teachers (To be nominated by the Vice Chancellor)	01
8.	Physically Disabled (To be recommended by the University Medical Board)	01
9.	Sports Seat (To be recommended by the UAJK Sports Board)	01
10.	Northern Areas/Gilgit Baltistan (Through the G&B Nomination Board)	02
11.	Jammu & Kashmir Refugees (Settled in Pakistan)	02
12.	Refugees Jammu & Kashmir 1989-92 (Settled in AJK)	01
13.	AJK Nationals Settled Abroad / Overseas (With valid Overseas Pakistani Foundation (OPF) membership)	01
14.	Punjab	01
15.	KPK	01
16.	Sindh	01
17.	Balochistan	01
18.	FATA (Federally Administered Tribal Areas)	02
	Total Number of Allocated Seats in a Department/Institute	**53**

It must be noted that the nomination (3-18) must be sent/ submitted to the office of the Directorate Students' Affairs well in time as mentioned in the advertisement. Late nomination will not be accepted.

Self-Support: The candidates who are interested for admission on self-Support basis shall apply on appropriate forms specified for the purpose. However Azad Jammu & Kashmir nationals/refugees settled in Pakistan shall be given preference. The selection of the candidate shall be on merit, which shall be same as prescribed for the selection of the candidate against open seats.

- The number of seats allotted for the purpose shall be such as may be notified for the course /programme, provided infrastructure facilities are available in the concerned departments) for the purpose.
- The candidates selected against payment seats shall be required to pay normal fee chargeable from other candidates in addition to the fee enumerated hereinafter which shall be non-refundable.
- The payment in full shall have to be made in one instalment for the whole course, in the form of a demand draft drawn in favour of the Director Finance University of Azad Jammu & Kashmir, Muzaffarabad.

Migration/Transfer of Credits

Migration from another accredited institution and transfer of credits in genuine cases may be allowed subject to the regulations of the UAJK.

Vacations and Holidays

The Teaching Departments of the University close for winter and summer vacations as per the Academic Calendar issued by the University. Further the University observes such holidays as are notified separately from time to time.

Foreign Students

There are many features, which make the Azad Jammu and Kashmir University attractive for foreign students. These include:

Easy Approach

The access to all the campuses of the University from Islamabad is open around the year. Traveling through the beautiful hills is sheer fun and excitement.

Environment

All our campuses are situated at beautiful locations. The peaceful and serene environment on the campuses makes the University an ideal place for study. Well maintained spacious buildings of the university provide an inviting atmosphere, which has a supportive effect on students.

Accommodation

On campus accommodation is available for all the students (boys & girls). However, students have a choice to live off campus if they choose to do so with the prior permission of the university authorities.

Weather

The moderate weather on all of our campuses makes the University an attractive place to study at. In summer, it gets tolerably hot and the winter is not too harsh either.

Culture

Azad Kashmir is a mosaic composed of various

cultures. Knowing of different cultures is a bonus for coming to UAJK. It provides an insight into how people with varying social and cultural background live in a complete harmony.

Fee

The UAJK is also attractive for its affordability of fee. Our fee charges are within the means of a large number of students. Our motto is high quality education at an affordable fee.

Moral Values

The UAJK is committed to inculcating good social and moral values in our students besides their professional competence and academic excellence. We aim to produce good citizens imbued with tolerance, broad vision and understanding and community values.

Atmosphere

People of Azad Kashmir are known for their hospitality and friendliness. People are willing to go out of way to help you when called for. It always becomes a second home to those who happen to visit us once.

Ideal Courses of Studies

The UAJK is receptive to modern developments. The courses offered at UAJK are most modern. They are designed with a specific need of the future in mind. Because of this ideal level of background, our graduates make best candidates for any organization or institutions of higher studies anywhere in the world.

Admissions

Foreign students desirous of getting admission in the University have to follow the procedure laid down as under:

- The application has to be made on the prescribed form together with the six latest photographs to the Embassy of Pakistan in applicant's home country. The application will be forwarded to Ministry of Foreign Affairs, Government of Pakistan. The latter will obtain the clearance from all relevant agencies and send it to Ministry of Education.
- Alternatively, the applicants can approach their embassy in Pakistan which will forward their applications to the Ministry of Foreign Affairs which will follow the procedure prescribed above.
- On receipt of the application from Ministry of Education, it will be presented to the Admission Desk to determine eligibility of the candidate.
- If successful, the candidates will be informed by Director Students' Affairs providing details of admission, commencement of courses and payment of fees and funds.

English Language

Students must be able to speak, write and understand English so that they can follow their courses and we need to see evidence of proficiency in English Language; as a guide, this means a IELTS score of 6.0, a TOEFL score of 60 or equivalent qualification.

Accommodation

We are pleased to be able to guarantee a University room to foreign students who join us to study full-time for a degree.

Fee Structure

The fee structure and related requirements shall be conveyed after the applicant has been found eligible for the admission in the desired course.

Code of Conduct for Students

Approved by the Syndicate

22nd June, 2011
(Effective from 31st July, 2011)

The University of Azad Jammu & Kashmir affirms that the central purpose of a Faculty is the pursuit of truth, the discovery of new knowledge through scholarly research, the teaching and overall development of students. However, the establishment and maintenance of a community where there is freedom to teach and to learn is dependent on maintaining an appropriate sense of order that allows for the pursuit of these objectives in an environment that is both safe and free of invidious disruption.
Rules and regulations are necessary to mark the boundaries of this needed order

"False Address can lead to Arrest"

Preamble

The students, faculty and administration of the University of Azad Jammu & Kashmir (UAJK) are all collectively and individually responsible for maintaining the academic integrity of this institution. This Code of conduct governs the academic conduct of each student University wide and it shall be used to govern and adjudicate all matters of student academic conduct to the extent it is practicable for it to do so. Students at UAJK are obligated to conduct themselves in a manner appropriate to the University's mission as an institution of higher education. Students are obligated to refrain from acts that they know, or should know, will impair the academic integrity of the University. Actions, which may be considered acceptable or normative outside of University, are not necessarily acceptable at UAJK and shall not interfere in overall academic conduct. All shall be treated equally and be guided by the current code. This Code of Conduct may from time to time be revised and amended.

Principles

This Code of Conduct has been formulated to provide a clear statement of the University's expectations of students in respect of academic matters and personal behavior.
Study at the University presents opportunities for interacting with other members of the University community. The University recognizes and values the diversity of student experiences and expectations, and is committed to treating students, both academically and personally, in a fair and transparent manner. All students, in return, are required to comply with the requirements set down in this Code of Conduct.
The University reaffirms its commitment to:

- High academic standards, intellectual rigor and a high quality education;
- Intellectual freedom and social responsibility;
- Recognition of the importance of ideas and the pursuit of critical and open inquiry;
- Tolerance, honesty and respect as the hallmarks of relationships throughout the University community; and
- High standards of ethical behaviour.

All students are required to be aware of and act consistently with these values.

Coverage

This Code of Conduct applies to all students of the UAJK in respect of all actions and activities (including inaction or inactivity) relating to or impacting on the University or its students and employees. It must be read in conjunction with the statutes, rules, and calendar of the University.

Jurisdiction

The code applies to the on-campus conduct of all students and registered student organizations. The code also applies to the off-campus conduct of students and registered student organizations in direct connection with:

- Academic course requirements or any credit-bearing experiences, such as internships, field trips, study abroad, or student teaching;
- Any activity supporting pursuit of a degree, such as research at another institution or a professional practice assignment;
- Any activity sponsored, conducted, or authorized by the university or by registered student organizations;
- Any activity that causes substantial destruction of property belonging to the university or members of the university community or causes serious harm to the health or safety of members of the university community; or
- Any activity in which a police report has been filed, a summons or indictment has been issued, or an arrest has occurred for a crime of violence.

The university reserves the right to administer the code and proceed with the hearing process even if the student withdraws from the university, is no longer enrolled in classes, or subsequently fails to meet the definition of a student while a disciplinary matter is pending.

Students continue to be subject to city, state, and federal laws while at the university, and violations of those laws may also constitute violations of the code. In such instances, the university may proceed with university disciplinary action under the code independently of any criminal proceeding involving the same conduct and may impose sanctions for violation of the code even if such criminal proceeding is not yet resolved or is resolved in the student's favor.

Term of Conduct

Students have a duty to familiarize themselves with the rules and regulations of the University that determine what their responsibilities are.

- Students shall abide by the published rules, regulations, and policies of the University or of any authorized rule making body within the University.
- Students shall not interfere, directly, indirectly, or by threat, with the communication or pursuit of a complaint under the Code.
- Students shall respect the freedom of individuals to study, teach, work, engage in research and socialize. Students shall refrain from conduct that attempts to limit these freedoms or any other freedoms guaranteed by law.
- Student conduct shall respect the lawful rights of others to possess, use, or enjoy private or University property.

Violation of the aforementioned terms of conduct is an offence under the Code, subject to disciplinary sanction. The above terms apply with equal force to individual students and student groups or organizations.

Students' Rights

As members of the UAJK, students enjoy the following rights:

- **Equal Opportunity in Education**
  Every student has a right to be free from discrimination based on race, religion, ethnic origin, political affiliation, age, gender and disability.
- **Right to Academic Freedom**
  Students have the right to freedom of expression as defined in the University calendar, and a right to freedom of assembly and association, as long as the exercise of such freedoms does not interfere with the effective conduct of classes, complies with University policies and respect for the rights of others.
- **Rights Concerning Educational Process**
- While students are required to know the material presented by the teacher, students are also free to reserve and express personal judgment in a constructive manner.
- While faculty and administrators have decision making authority in educational matters, students may make suggestions in a constructive manner regarding revising and improving the educational process.
- Students have the right to be informed of grading criteria and to fair evaluation by the teacher, as well as a right to appeal a grade based on mathematical error or misapplication of grading criteria.
- **Privacy Rights**
  Students have a right to protection against unauthorized disclosure of information contained in their financial, medical, and educational records.
- **Rights Pertaining to Student Organizations**
  Students shall be free to organize and join student organizations to promote their common interests within the framework of the Student Council. Student organizations shall be free to examine and to discuss all questions of interest in accordance with laws defined in University calendar.
- Recognized student organizations may be afforded the privilege to use available University buildings, facilities and services after teaching hours in accordance with the University administrative policies and procedures.
- **Freedom from Harassment**
  Students have a right to be free from any kind of harassment by any member of the University's community and have the right to apply to the Disciplinary Committee for redress.
- **Due Process**
  Students have a right to due process in any University proceeding against them. This includes the right to be heard, a right to review and decision by impartial persons or bodies, and a right to adequate notice.
- **Grievance Redressal Process**
  Students have a right to file a grievance regarding the violation of any student right with the Disciplinary/Grievance Committee in accordance with its procedures.

Responsibilities

It shall be the responsibility of each student to become familiar with the provisions of this Code. Upon enrollment at UAJK each student will be given a copy of the Code and will sign a form acknowledging that he/she

has read, understood and agreed to follow this Code.

- Each student is obligated to refrain from committing any act of academic dishonesty. These are acts that a student knows or under the circumstances should know impair the academic integrity of UAJK, as described in detail in this Code.
- A student who commits an act of academic dishonesty is subject to disciplinary action as described in this Code and University calendar.

A faculty member who discovers a violation of this Code may impose the following measures:

- Oral warning to the student;
- Written warning to the student;
- Reduction in score in the academic evaluation involved or one of its components;
- Retake of the academic evaluation involved or one of its components;
- Failure in the course.

Disciplinary measures should be applied in a timely manner, as soon as practicable after the discovery of the violation.

- Faculty should seek, as needed, the advice of the Dean (DSA or DDSA) on how to handle such violations. If the student is from a different program or department, faculty members are encouraged to confer with the Chairman of that program (or his/her designee) about the student.
- In a particularly serious case (e.g., involving a repeat offense), the faculty member may recommend that the Dean request that the student be suspended or dismissed from the program. The final decision on such matters shall be made by the Vice Chancellor (or his/her designee).
- In general, students should address their concerns regarding disciplinary measures under this Code, first to the faculty member. If the student believes that there has been a serious error in the application of the disciplinary measure, the student may discuss the matter with the Dean (DSA or DDSA).
- After appeal to the Dean (or the Dean's designee), if a student believes the disciplinary measure relating to the violation of academic integrity or misconduct is manifestly erroneous or grossly unfair, the student may appeal to the Vice Chancellor.
- Each Program/Department shall make an annual report at the end of each academic year, summarizing on a no-names basis the violations addressed and the corresponding disciplinary measures applied during that academic year.

Personal Conduct

All students must:

- treat all employees, honorary appointees, consultants, contractors, volunteers any other members of the public and other students with respect, dignity, impartiality, courtesy and sensitivity;
- maintain a cooperative and collaborative approach to inter-personal relationships;
- act honestly and ethically in their dealings with University employees, honorary appointees, consultants, contractors, volunteers, any other members of the public and other students;
- respect the privacy of employees, honorary appointees, consultants, contractors, volunteers any other members of the public and other students;

- Ensure that they do not act in a manner unnecessarily or unreasonably impedes the ability of employees, honorary appointees, consultants, contractors, volunteers any other members of the public or other students to access or use the resources of the University, including the University, Library, lecture rooms and laboratories.

Academic Conduct

All students must:

- Ensure that their enrolment and progress in their award course is lawful and consistent with the statutes, rule and calendar of the University.
- Read all official correspondence from the University, including email;
- Act ethically and honestly in the preparation, conduct, submission and publication of academic work, and during all forms of assessment, including formal examinations and informal tests;
- Avoid any activity or behaviour that would unfairly advantage or disadvantage another student academically;
- Conform to the University's requirements for working with humans, animals and biohazards;
- Behave professionally, ethically and respectfully in all dealings with the University's learning partners during extramural placements and practicums; and
- Use University resources, including information and communication technology resources, in a lawful and ethical manner and for University purposes only, unless express permission has been granted for non-University or private usage.

Classrooms Standards

The individual teacher is primarily responsible for managing the classroom environment. If a student engages in any prohibited or unlawful acts or other behavior that results in disruption of a class, he or she may be directed by the faculty member to leave the class for the remainder of the class period. Students must be protected against infringement of their rights and unfair practices.

Identification Card

- Each member of the University community is issued a picture Identification card, and must wear it at all times while on University premises or at University sponsored activities. Identification cards must be presented upon entering University buildings and must be worn while on University premises.
- Identification cards are not transferable. The owner of the card will be called upon to account for any fraudulent use of his or her identification card and will be subject to disciplinary action by the University if he or she has aided such fraudulent use. The card will be forfeited if the student to whom it was issued allows any other person to use the same.
- Upon card owner's withdrawal from the University, all rights and privileges related to the identification card automatically cease. If the student withdraws, or is suspended or expelled, from the University, the identification card must be surrendered to the Faculty.

Visitors and Guests

Students may be held accountable for the acts of misconduct of their guests while on University premises or at University sponsored activities. Visitors, including invitees shall conduct themselves, at all times, in a manner which is consistent and in line with maintenance of orderly behavior in the University premises.

Dress Code

In order to maintain academic dignity and sanctity of the institution, students and staff of the university are required to wear decent dress keeping in view the local cultural and religious values. The dress restriction is not to impose any rigidity or regimentation but is in accordance with the spirit of discipline, punctuality and religious matter. Purpose of Dress Code is to establish the basic guide lines for appropriate work dress that promotes a positive image of UAJK and also allow maximum flexibility to maintain good morale, respect, cultural/religious values and due consideration for safety while staying at all campuses. All the female students essentially wear Shalwar Qameez and Dupatta or Gown. All the male students should also wear decent dress (Dress pent, and collar Shirts) Or Shalwar Qameez.

To abide by the student dress code, student should not:-

- Wear tight or see-through dress.
- Wear Shorts, or sleeve-less shirts.
- Wear Tee-Shirts/dress bearing language or Art, which appears to be provocative or indecent and is likely to offend others.
- Wear torn clothing.
- Wear jogging or exercise clothing during classes.
- Put on excessive makeup or wear expensive jewellery.
- Wear untidy, gaudy or immodest dress in classrooms, cafeteria and university offices.
- Wear unprofessional attire in formal programs and interviews.
- Draw unnecessary attention to themselves through their clothing, accessories, hairstyles, body markings or piercings.
- Wear dress which is sexually provocative is not acceptable.
- Sunglasses are permitted but must be removed when indoors.
- Hair must be clean and its style should not draw unnecessary attention. Long hair must be tied back.
- Bare feet are not permitted.

Gender Mixing

Students are strictly reminded to follow the accepted social and cultural norms of the society. Undue intimacy and unacceptable proximity, openly or in isolated areas will not be tolerated. Furthermore, the female students are banned to sit with male teachers in their offices or inside laboratories behind the closed doors. The

exchange of helping material i.e. notes, books, teaching assignments are only allowed in the classrooms and laboratories. Even in the classrooms male and female students shall sit in separately or as advised/ directed by the class teacher. Both male and female will sit in Faculty cafeteria at their allocated places. They are strictly bound to not mix up or sit on places not assigned to them. Within the premises of Faculty gender mixing is seriously prohibited and violation will result major punishments.

Cell Phones

The use of cell phone is strictly prohibited within the premises of the Faculty. All faculty member/teachers are permitted to keep an eye on the students. Whenever they found any student with a mobile phone, the student must surrender mobile to the teacher. Disobedience will results in major penalties.

Prohibited Conduct

Any student found to have engaged, or attempted to engage, in any of the following conduct while within the university's jurisdiction, will be subject to disciplinary action by the faculty/university. The following is an illustrative list of the types of conduct, including actual conduct and attempts to engage in such conduct, which are prohibited by this Code.

Safety

- Causing any condition that jeopardizes the safety of individuals, groups of individuals, or the University community; participating in conduct or behaviour explicitly endangers the safety and wellbeing of oneself or others.
- Tampering with safety measures or devices, such as fire extinguishers, exit signs, locked exterior or interior doors.
- Failing to conform to safety regulations, such as falsely reporting an incident.
- Falsely reporting the presence or threat of a bomb or any other dangerous device or condition.
- Having the knowledge of and not reporting an event or act that would potentially endanger members of the University community.

Identification/Registration Cards

- Failure to wear, or to produce or surrender the identification card upon the request of a Faculty/University official.

Weapons

- Possession of weapons including firearms, items that eject projectiles, knives, or any item that any reasonable person would consider to have the possibility of doing bodily harm.
- Possessing, using, storing, or transporting firearms, other weapons, explosives, fireworks, ammunition, tear gas or dangerous chemicals, except as authorized for use in class, or in connection with University-sponsored research or other approved activities.

Discrimination

- Engaging in verbal or physical behaviour directed at an individual or group based on national origin, race, creed, gender, religious beliefs that, according to a person of reasonable sensibilities, is likely to create an intimidating or demeaning

environment that impedes the access of other students, faculty and staff to the educational benefits available to them as a member of the University community.

- Wearing articles of clothing with derogatory, racist, discriminatory, patently offensive, profane, sexually explicit, or graphic messages either in words or pictures, which demonstrate bias or discrimination against any individual or group within the University community.

Harassment

- Engaging in verbal, electronic, visual, written or physical behaviour directed at an individual or group that, in the view of a person of reasonable sensibilities, is likely to provoke or otherwise result in, a negative or injurious response, mental or emotional distress, or related reaction or consequence.
- Creating an intimidating or demeaning situation or environment or inflicting personal, social, academic, psychological or emotional harm, or undue stress.

Assault

Any willful attempt or threat to inflict injury upon the person of another, when coupled with an apparent present ability to do so, and any intentional display of force such as would give the victim reason to fear bodily harm constitutes an assault. An assault may be committed without actually touching or striking, or doing bodily harm. Self-defense may be a mitigating factor to this charge, depending on the circumstances.

Battery

An encounter in which physical contact occurs or is threatened between two or more persons with weapons, blows or other personal violence and that may include pushing, shoving, and other acts of physical abuse. Self-defense may be a mitigating factor to this charge, depending on the circumstance.

Stalking

- Stalking is defined as wilfully, maliciously and repeatedly following or harassing another person in a manner that would cause a reasonable person to feel frightened, intimidated, threatened, harassed, or molested.
- Stalking is behaviour in which a student repeatedly engages in a course of conduct directed at another person and makes a credible threat with the intent to place that person in reasonable fear for his or her safety, or the safety of his or her family; where the threat is reasonably determined by the University to seriously alarm, torment, or terrorize the person. Stalking can either be physical or electronic.

Hazing

Hazing is defined as an act, which endangers the mental or physical health or safety of a student. It may include, but is not limited to, the destruction or removal of public or private property, or any activity conducted on or off-campus that causes or intends to cause an unreasonable expenditure of funds, embarrassing, intimidating or demeaning behavior, exposure to situations that could result in physical or emotional harm, or causes undue stress, for the purpose of initiation, admission into, affiliation with, or as a

condition for continued membership in any sanctioned or unsanctioned group or organization at the University.

Forgery, Fraud, Dishonesty

Forging the name of a University employee, another student or any other person or entity, altering or misusing official University forms, documents, records, stored data, electronic data bases and University enterprise systems, identification of, or knowingly furnishing false information to University officers, officials, faculty and/or employees or providing such information involving or referring to the University to off-campus organizations, institutions, or individuals. Making false statements in public or private, including knowingly filing false charges under the code. Aiding and abetting another individual in the conduct of such actions also constitutes a violation of this provision. The University has registered its name, logo and seal as trademarks. As such, these marks are protected under applicable federal and local laws. Students may not use the seal, logo(s), motto, trademarks, or other intellectual property of the University without written permission from the University's Registrar Office.

Property Damage

- The attempt of, or unauthorized removal, use of, or the defacing of University property, or property under University custody or control resulting in its destruction or damage.
- Destroying, defacing, removing or damaging the property of others on University premises or at University sponsored activities.

Theft

The stealing or attempted theft of property and/or services; knowingly possessing or transporting stolen property; or improperly using or converting the property of another for personal use.

Unauthorized Entry, Use, or Trespassing

Entering or using University facilities or property, or property in the custody or control of the University, for an improper purpose, or without proper authorization, or assisting others in doing so.

Organization and Event Registration

Failing to comply with policies and regulations governing the registration of student organizations, events on campus, or the use of University facilities or resources.

Failure to Comply/Non-Compliance

- Failing to comply with or respond to the directions or instructions of an authorized University official, faculty, or staff member acting in the performance of his or her duties or any other person responsible for a University facility or registered function acting in accordance with those responsibilities.
- The student identification card shall be carried by students at all times and surrendered upon the reasonable request of any University Official, Faculty Member, Staff Member and all Residence Hall Personnel.
- Failure to comply with any disciplinary procedure, within the identified time frame, will result in a hearing with sanctions applied.

Smoking

The Campus is a no-smoking area, and at no time in any premises of the Campus smoking is allowed.

Political Gathering
Disruptive Conduct

- Acting in a manner that impairs, interferes with, or obstructs the orderly conduct, processes, or functions of the University or of any person or persons on University owned or operated property or at any University-sponsored event. Students whose behaviour, communications, and/or attire may be considered disruptive while participating in academic programs, University activities, programs and general operations. Behaviours would include: use of electronic devices such as pagers, cell phones, video games, Walkman's, personal music players, playing computer games during class sessions, laboratory or clinical practicum's or clerkships and periods of academic instruction, remediation, or tutorial assistance. Disruptive conduct would also include the wearing of apparel clothing in class, or during academic instruction is lewd, profane or sexually explicit; attire that conveys messages in print or in picture form that are profane, vulgar, patently offensive, racist or discriminatory, and this conduct disrupts the teacher's ability to maintain decorum or provide academic instruction in the classroom, laboratory, or other instructional environments.
- This also includes students who engage in disruptive behaviours or communications with a teacher, such as swearing or cursing, which impedes the ability of the teacher to present academic information in the classroom or laboratory, clerkship, conduct academic advisement, counselling, or tutorial assistance.

Unauthorized, use of Computer or Electronic Communication Devices.

Theft or other abuse of computer facilities and resources including, but not limited to:-

- Unauthorized entry into a file, to use, read, or change the contents, or for any other purpose
- Unauthorized transfer of a file.
- Use of another individual's identification and/or password.
- Interference with the work of another student, faculty member or University official.
- Sending obscene, abusive or threatening messages
- Transmission of computer viruses.
- Interfering with normal operation of the
- University computing system.
- Unauthorized duplication of software or other violation of copyright laws.
- Unauthorized access to, or unauthorized, mischievous or malicious use of University computer equipment or networks, or electronic communication devices, or the use of such equipment or devices to gain unauthorized access to, and/or use of, off-campus computer equipment.

Cheating

Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise; copying from another student's examination; submitting work prepared in advance for an in-class examination; taking an examination for another person or conspiring to do so.

Fabrication

Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

Facilitating academic dishonesty

Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

Plagiarism

Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; failure to attribute direct quotation, paraphrase, or borrowed facts or information.

Unauthorized Collaboration

Providing, either knowingly or through negligence, one's own work to assist a student in satisfying a course requirement, or representing material prepared by or with another as one's own independent work. In instances where students are permitted to work jointly to complete an assignment, instructors will offer clear guidelines about when and how to collaborate; if a student is unsure, it is the responsibility of the student to ask the instructor.

Unfair means

Use of unfair means generally covers following:-

a. An attempt to have access to the question paper before the test/examination.

b. Use/possession of unauthorized reference material during test/examination.

c. Any form of communication by the examinees with any one in or outside the test/examination room while the test/ examination is in progress.

Unauthorized entry into faculty's office in un-authorized/un-ethical or that of his staff with the intention of having an access to or tempering with the official record/exam paper etc.

Violation of Criminal Codes of the Local, State, or Federal Governments on or off-campus actions or activities violate criminal law also violate the Code.

Embezzlement

Unauthorized acquisition and/or use of funds belonging to, or under the stewardship of, any University unit, organization, or individual.

Contempt of, or Interference with any Disciplinary Program Actions or Activities

- Failure to respect the disciplinary program or process, including failing to appear for hearing if called to do so, interfering with attendance by any person or persons mandated to attend a meeting or hearing, or interfering with the hearing or disciplinary process of any disciplinary board or administrative hearing.
- Acting in a threatening or harassing manner towards hearing participants before, during or after a hearing.

Media Contact

Students are expressly prohibited from speaking on behalf of, or for, Faculty/ University with any media organization or publication, or from inviting the same to any University-owned or operated property, facility, or even without the express written permission of the Office of University Authorities.

Presenting False Testimony

Knowingly making false statements regarding a disciplinary matter before, during or after the disciplinary adjudication process.

Abuse of the Student Conduct System

Abusing the student conduct system including, but not limited to:-

- Failure to obey the notice from a University official to appear for a meeting or hearing as part of the student conduct system.
- Falsification, distortion or misrepresentation of information before a hearing body or designated hearing officer of the University.
- Disruption or interference with the orderly conduct of a hearing proceeding.
- Causing a violation of University Code of Conduct hearing to convene in bad faith.

Students Organizations

Political meetings, distribution of posters and political material and use of loudspeakers are not allowed inside campus premises.

Indecent Behavior at the Campus

Indecent behavior exhibited at the campus including classes, cafeteria, laboratories etc, defying the norms of decency, morality and religious/cultural/social values by single or group of students.

- Damage to the university fixtures/furniture, scribbling/carving on desks, wall chalking, misusing of lab/university equipment, etc. Use of mobile phone in class rooms, examination halls, labs and library.

Off-Campus Conduct

Conduct occurring off University premises be such that it should not affect the interest/Image of the University.

Enforcement of Code of Conduct

Matters of indiscipline would be referred to the Faculty/university authorities, which are authorized to check indiscipline matters and decide as per University rules, regulations and policy. Parents of those students who disobey authority and violate the code of conduct will be informed. Students may be held accountable for the acts of misconduct of their guests while on University premises or at University-sponsored activities. Students who are charged with violations of this Code are subject to disciplinary action as per University rules/regulations/ Statutes.

Punishment or Penalty for Acts of Miss-conduct

Punishment or penalty for acts of ill-discipline shall be according to the gravity of the case and may be any one or more of the following:-

Minor Punishments

- Warning in writing. Notice to the offender, orally or in writing, that continuation or repetition of prohibited conduct may be cause for further disciplinary action.
- Probation. Probation for a specific period.
- Fine. Fine this may amount up to Rs.3000.
- Hostel Suspension / Permanent Removal. Expulsion from the hostel for a specified period, or permanent removal from the residence hall.
- Withholding of certificate. Withholding of a

certificate of good moral character.

- Removal of privileges. Deprivation from the privileges enjoyed by the students.
- F Grade. Award of "F" grade in a paper.

Major Punishments

- **Expulsion.** Expulsion from the class for a specific period up to one semester.
- **Fine.** Fine this may amount up to Rs.10000.
- **Exam Result.** Cancellation of examination result. **Rustication.** Expulsion or rustication from the University/college as given in University calendar.
- **Degree.** Non conferment of degree/ transcript.
- **Relegation/withdrawal.** Other sanctions or a combination of above mentioned punishments as deemed appropriate.

Discipline Process

Case referrals

Each case of ill-discipline shall be reported to the Dean through Departmental Discipline Committee and he/she will refer the case to the Central Disciplinary Committee.

Procedure-disciplinary Hearing

A disciplinary hearing is a formal process conducted by the Central Discipline Committee (DDC). This formal process is designed to gather and consider relevant information regarding the alleged violation/s of the Code and to determine and recommend a punishment. Every effort will be made to expedite proceedings pursuant to allegations within a reasonable period.

Punishments

Central Discipline Committee will recommend the punishment according to the gravity of the case after giving full opportunity to the defaulter to give his point of view before recommending the punishment.

Appeals

An appeal against the Central Discipline Committee's decision can be filed with the Vice Chancellor within fifteen days of the announcement of the decision.

Appeal Process

Right to appeal

A student found to have violated this code has the right to appeal the original decision. An appeal of a decision must be submitted in writing and to the Vice Chancellor, within ten (10) calendar days after the date on which written notice of the decision is sent to the student. Each student shall be limited to one appeal. The decision of the Vice Chancellor is final.

Grounds for appeal

An appeal may be based only upon one or more of the following grounds:

- Procedural error;
- Misapplication or misinterpretation of the rule alleged to have been violated;
- Findings of facts not supported by a preponderance of evidence;
- Discovery of substantial new facts were unavailable at the time of the hearing; and
- That the disciplinary sanction imposed is grossly disproportionate to the violation committed.

Appeal proceedings

- The Vice Chancellor shall dismiss the appeal if the appeal is not based upon one or more of the grounds set forth in Section (B) above.
- The Vice Chancellor may decide the appeal based upon a review of the record.
- The Vice Chancellor may ask additional written information or an oral presentation from any relevant person(s) and then decide the appeal based upon the enhanced record.

Possible dispositions by the appeal officer

The Vice Chancellor may, after a review of the record, uphold the original sanction, dismiss the original sanction, or impose a lesser sanction. Vice Chancellor may also remand the case to the original hearing body or refer the case to a new hearing officer or panel to be reheard. If possible, a new hearing officer or panel should be different from the one that originally decided the case. If a case is reheard by a hearing officer or panel, the sanction imposed can be greater than imposed at the original hearing.

Revisions of the Student Code of Conduct and Judiciaries

1. Periodic Review

The Faculty Code of Conduct Committee will conduct a full formal review of the Code at least every one (1) year or at such other times as it deems appropriate to determine if the Code should undergo a full revision process.

2. Procedure for Revision

If it is determined that the Code is in need of full revision, the procedure for developing a new document for recommendation to the Board of Trustees will be as follows:

- A committee composed of faculty, administrative staff and students will be appointed by Dean to review the "Code" portion of the document and to make recommendations for changes.
- The draft of the revised Code is completed by Committee and forwarded to the Dean for review and comment.
- The final draft will be submitted for review to the Academic Council.

3. Forwarding for Approval

The final document will be forwarded, through the Dean to the Vice Chancellor for final review and for presentation to the Syndicate for approval.

Directorate of Student Financial Assistance & University Advancement

Introduction

The Directorate of Student Financial Assistance & University Advancement (SFA & UA) serves as a catalyst to support University of Azad Jammu & Kashmir (UAJK) in fundraising, establishing public-private linkages, help the students to meet financial requirements for their education, providing career services to students and developing alumni engagement programs.

(a) Student Financial Assistance

Financial Assistance is provided to enhance opportunities for access to higher education especially to talented but financially constrained students who, despite possessing academic merit, are unable to finance their education. The Student Financial Assistance Section is responsible to:

1. Streamline financial assistance mechanisms for the meritorious and financially deprived students of the society;
2. Promote transparency in financial assistance programs;
3. Developing linkages with the community; industry, alumni, donor agencies and charitable organizations for raising funds for the Students and the University endowment fund.

In this regard following main scholarship programs are being offered to the students:

1. Prime Minister's Tuition Fee Reimbursement Program for Selected Regions
2. Pak-USAID Merit and Needs Based Scholarship Program
3. HEC Need Based Scholarship Program
4. Ihsan Trust Qarz e Hasna Scheme
5. HEC French Need Based Scholarship
6. HBL Foundation Scholarship
7. Punjab Educational Endowment Fund Scholarship

DIRECTOR
Kh. Aftab Qadir Kant
MPhil. (PAK)

Assistant Director
Syed Murad Hussain

Brief introduction and terms & conditions of these programs are as under:

1. Prime Minister's Tuition Fee Reimbursement Program for Selected Regions

Under this innovative and special scheme, along with tuition fee, the federal government have paid other academic, incidental, or mandatory Fees charged by UAJK as one-off or on a per semester basis of Masters, MS/ M.Phil. and PhD students having valid domicile of AJK enrolled in UAJK. Refugees 1989-90 settled in AJK are also included in this scheme from FY 2016-17.

Coverage: Actual Tuition Fee (of Masters , MS/MPhil and PhD programs), and (b) On and Off Mandatory charges which includes Registration Fee/Enrollment Fee, Admission fee (For new admissions only), Examination Fee, Library charges (nonrefundable), Laboratory charges, Research related academic activities only.

Last year 3972 students (Masters, M.Phil. and PhD.) of UAJK were awarded with scholarships worth Rs.220.039 million.

2. PAK-USAID Merit and Needs Based Scholarship Program

Financial Assistance under this program is available for study at undergraduate & graduate level in Sociology, Economics, Linguistics (English, Urdu, Kashmir Studies), Law (3-year program), and Psychology only.

Eligibility:

- The applicant must be AJK/ Pakistan National.
- 50% of scholarships seats are reserved for females.
- Student must be enrolled in first semester in the respective degree program.

The eligibility of a candidate is linked to neediness of the candidate as determined & assessed by the financial background of his/her family.
Coverage: (a) Tuition Fee, (b) Stipend

3. HEC Need Based Scholarship Program

With the help of this program, UAJK aims to provide opportunities for academically qualified, yet financially needy, students of graduate and undergraduate programs to continue studies at UAJK.
Eligibility: (a) All those needy students who are already enrolled in UAJK are eligible to apply. (b) The eligibility of a candidate is linked to neediness of the candidate as determined & assessed by the Institutional Scholarship Award Committee keeping in view the financial background of the family of the applicant.
Coverage: (a) Tuition Fee, (b) Lodging, (c) Transportation, (d) Books, (e) Other Academics Costs, and (f) Rs. 6000 monthly stipend (for maximum 10 months per year)

4. Ihsan Trust Qarz-e-Hasna Scheme

Major focus of this scheme is of providing Qarz-e-Hasna (Interest free loan) for Education to the needy and deserving students of UAJK. Through this scheme the Ihsan Trust bears the educational expenses of the students on purely "Need cum Merit" basis in order to enable them to complete their Higher Education.
The repayment policy for the Qarz-e-Hasna is as follows:

1. The amount of Qarz-e-Hasna sanctioned to the selected student depends on his/her need and eligibility.

2. During the study period, the student has to pay a nominal, token repayment amount (depending upon the financial position of the candidates, his/her parents/guardians monthly income) to the Ihsan Trust as repayment.
3. After the completion of his/her education, the repayment amount for the Qarz-e-Hasna is to be adjusted according to the income of the student.

Ihsan Trust guidelines for the students availing Qarz e Hasna facility

- The students availing Qarz e Hasna facility have to maintain their academic results up to the level of merit determined by the Trust.
- The students have to maintain the financial discipline during their time period of repayments.
- The repayments of the Qarz e Hasna will start from the very next month after the disbursement of the amount of fee of the student.
- The students should pay their repayments monthly within the first week of the month and intimate it to Ihsan Trust subsequently.
- The repayments can be deposited online in the account of Ihsan Trust from any branch of Meezan Bank Ltd. across Pakistan.
- The continuation of the Qarz e Hasna facility is subject to the academic performance of the student and the timely repayments of the Qarz e Hasna.
- The financial review of the student will take place before every new disbursement or the extension in the loan facility.

In collaboration Meezan Bank, during the current academic year 2016-17, 10 cases have been approved under this scheme.

5. Pakistan-French Need Based Scholarship

Government of France through its Embassy in Islamabad offered scholarships for the studious but unprivileged students of UAJK.

Eligibility: (a) Financial assistance & scholarships are available for study at undergraduate & graduate level in the prescribed disciplines at UAJK. (b) Only those students who are enrolled in first professional year in the respective courses offered by UAJK are eligible to apply. (d) The eligibility of a candidate is linked to neediness of the candidate as determined & assessed by the financial background of his/her family.

Coverage: The program will support the students in University tuition fee and other expenses.

6. HBL Foundation Scholarship

In collaboration Habib Bank Limited Foundation, UAJK has launched new undergraduate scholarship programme.

The HBLF undergraduate level Scholarships will be offered to meritorious students fulfilling the below mentioned eligibility criteria.

The student must have/ be:

i. Secured at least 65% marks in F.Sc/ F.A and got admission on open merit basis.
ii. Not availing any other educational scholarship during the current academic year.

7. Punjab Educational Endowment Fund

The Punjab Educational Endowment Fund (PEEF) has launched a new Master's level Scholarship program under the title “Shahbaz Sharif Merit Scholarships (SSMS)”. During the last academic year 2016-17 the 17 Masters level Scholarships were reserved for UAJK under this program.

Scholarship Quota	Science	Arts	Total
Punjab	12	04	16
Other Provinces	01	0	01
Total	13	04	17

Eligibility Criteria:

The student must have/ be:

i. Pakistan National
ii. Secured at least 60% marks or a minimum CGPA 2.5 in BA/ B.Sc. / B.COM/ BS/ BBA etc. examination.
iii. Secured admission as a full time student.
iv. Declared monthly income of parents (from all sources) is equal to or less than Rs. 75,000/-
v. Age limit (at the time of application) should not be more than 28 years.
vi. Not availing any other educational scholarship.
Vii. Not a beneficiary of Prime Minister Fee Reimbursement Scheme.

(b) University Advancement

The responsibilities of University Advancement Section include:

1. Develop and oversee new and innovative fund raising initiatives to maximize donations from individuals and the corporate sector and to develop a wider network of potential funding agencies.
2. Design programs and activities that will respond to the needs, concerns and interests of alumni, friends and prospective donors to the University as a way to engage them more personally and actively in the life of the University.
3. Develop various programs and mechanisms for encouraging donations to the University and

recognizing the generosity of all who contribute to fund rising programs.

(c) Career Services

The Career Services Section develops strategies to create and promote student, faculty, and alumni interaction in the formative process for students with respect to career planning, placement, and development. This section is also responsible for coordinating off campus student employment opportunities such as internships and cooperative education programs by planning, and implementing a specified number of job fairs each year.

Directorate of Sports

The Directorate of Sports is functioning in coordination with Deans of Faculties, Chairmen, and Directors of all the departments and DSA. The Directorate is strongly committed to providing the finest environment possible for performing Sports activities and providing all students the opportunity to participate in the Sports of their interest. University life is not all work and no play. Our sporting activities help the students to make new friends. Competitive Sports at the University enjoy a successful profile. The dynamic sports programs have been prepared with a view to providing the skills and knowledge needed to effectively participate in Sports activities.

The Directorate offers a wide range of competitive, individual and team Sports to suit all tastes and interests. The Directorate provides the opportunities to participate in different sports activities in the evening on daily basis. The sports events being carried out regularly throughout the academic year include: All Pakistan inter University Sports Championships, Inter-departmental competitions. Inter-collegiate Sports competitions of athletics, badminton, football, cricket, volley ball, hockey, Tchockball, basketball, table tennis, mountaineering, kabadi & rifle shooting.

The Directorate of Sports also manages the participation of the University teams in Inter University Zonal Sports Championships and in all Pakistan Intervarsity Sports Championships at different Universities of Pakistan. The Students are encouraged to participate in Sports of their liking throughout the year.

DIRECTOR SPORTS
Syed Zain-Ul-Abedin

Nighat Naz Gillani,
Deputy Director Sports

Ch. Yasir Maqbool,
Director Physical Education

تقریبات جشن آزادی پاکستان کے حوالے سے
آزاد جموں کشمیر یونیورسٹی مظفر آباد کے زیر اہتمام
کمپلوں کے مقابلے

Quality Enhancement Cell

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Quality is the mean through which an institution can guarantee with confidence and certainty, that the standards of its educational provision are being maintained and enhanced. Quality has become an in-expendable part of augmentation plan of Higher Education espoused by the Higher Education Commission.

Quality in higher education is a dynamic entity which is the outcome of interaction among many factors including inter alia, leadership, quality of faculty and students, infrastructure facilities, research and learning environment, governance, strategic planning, assessment procedures, and market force.

University of AJK is moving ahead on the path of tremendous progress in higher learning sector using human and financial resources to increase the access to programs and using all cautions to assure quality of the increased base of higher learning programs.

The Higher Education Commission has included QEC of University of Azad Jammu and Kashmir in its Phase-IV of 24 QECs. HEC is now ranking the QECs on basis of performance. QEC has initiated functioning at all Departments of Main Campus. The self evaluation system is being introduced in the university and has completed many Self Assessment Reports (SARs), implementation Plan Summaries and Assessment Team Visits of the Departments of main campus. Numerous fruitful feedbacks received from Assessment Team experts for improvement. Our motive is to enhance the quality of education compatible to the international standard. QEC is also underway to take the feedback from Students, Alumni, Employers, Teachers and Research students online for better comments/feedbacks and comparison with other QECs of public sector Universities of Pakistan. QEC UAJK is working to streamline the online evaluation process for swift and precise analysis of data to promulgate the concept. QEC has also initiated online Course and Teacher Evaluation, Graduating, Faculty surveys.

The Quality Enhancement Cell at University of Azad Jammu and Kashmir has spread its functionality and is seeking Institutional membership for collaboration with International bodies like Asia Pacific Quality Assurance network (APQN). Moreover the assessment and QA concept is started in Elementary Colleges to assess the ADE Programs. The ADE programs have been started in collaboration with Pre-STEP (USAID), AJK Government (DCRD) and are assessed by QEC University of Azad Jammu and Kashmir

Self-Assessment Procedure

In this section the procedure for conducting a self-assessment is described. Each academic program shall undergo a self-assessment (SA) every two years (assessment cycle). The Quality Enhancement Cell (QEC) is responsible for planning, coordinating and following up on the self-assessment (SA) activities. The steps of the procedure for SA are as follows:

The QEC initiates the SA one semester prior to the end of the assessment cycle through the Vice Chancellor / Rector Office in which the program is offered. However, if the program is undergoing the SA for the first time, the department will be given one academic year for preparation.

Upon receiving the initiation letter the department shall form a program team (PT). The PT will be responsible for preparing a self-assessment report (SAR) about the program under consideration over a period of one semester. They will be the contact group during the assessment period.

The department shall submit the SAR to the QEC through the concerned Dean. The QEC reviews the SAR within one month to ensure that it is prepared according to the required format.

The Vice Chancellor / Rector forms a program assessment team (AT) in consultation with the QEC recommendations within one month. The AT comprises of 2-3 faculty members from within or outside the university. The AT must have at least one expert in the area of the assessed program.

The QEC plans and schedules the AT visit period in coordination with the department that

The AT conducts the assessment, submits a report and presents its findings in an exit meeting that shall be attended by the QEC, Dean and PT and faculty members.

The QEC shall submit an executive summary on the AT findings to the Vice Chancellor / Rector.

The Department shall prepare and submit an implementation plan to QEC based on the AT findings. The plan must include AT findings and the corrective actions to be taken, assignment of responsibility and a time frame for such actions. Table A.2 in Appendix A

The QEC shall follow up on the implementation plan to ensure departments are adhering to the implementation plan. The academic department shall inform the QEC each time a corrective action is implemented. QEC shall review the implementation plan once a semester to assess the progress of implementation. Table A.2 will provide the QEC with guidelines for monitoring the implementation.

QEC Objectives

QEC is also responsible to develop procedures for:

- Approval of new programs
- Monitoring & evaluation including program monitoring, faculty monitoring & student perception.
- Departmental review
- Student feedback
- QA of various degree programs
- Subject review
- Institutional assessment
- Program specifications
- Qualification framework

QEC contributed in one-day workshop on Self-Assessment Report writing methods on November 24, 2016 at Women University Bagh. Prof. Dr. Muhammad Rafique, Director QEC and Dr. Lal Hussain, Assistant Director QEC Acted as resource persons in the said workshop. The Agenda of the workshop is to disseminate the concept of QA, Self-Assessment Procedure, Functions of QEC, Curriculum Development and Organization and other set assigned criterion laid down by HEC.

Information Services (Central Library)

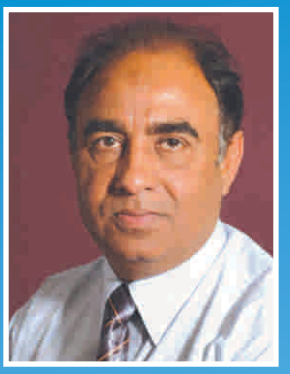
The Central Library is well stocked with books, journals and related materials and more than 31,000 online research journals. Under the National Digital Library Programme, the Higher Education Commission (HEC) provides access to scientific and scholarly literature through international Network for Scientific Publisher (INASP). The University has been linked to this facility from April 2004, providing access to over 11,600 peer-reviewed full text online International academic journals and more than 20,000 abstracts from some of the world's top publishing houses including Blackwell Synergy, CABI, EBSCO, Oxford University Press, Mary Ann Leibert, Springer link, Science Direct and JSTOR. Equipped with bibliographic and other databases, the programme aims to support capacity building in the research sector by strengthening the production, access and dissemination of information and knowledge. The library has also been equipped with all the latest information Communication Technologies (ICTs) such as computers, Multimedia & Overhead Projectors, Digital Cameras, Photocopier, Audio Visual collection and high speed internet connectivity to facilitate the faculty/students.

The University of Azad Jammu and Kashmir has dual system of library services apart from the Central Library. Each and every department has its own departmental library. The Central Library includes the following units:

- Technical Section
- Reference Services
- Readers Advisory Services
- Computer Section

Circulation Section

It is responsible to provide reading materials to the borrowers / members of the Library on periodical basis to meet their academic requirements at home.



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Library Professionals

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Incharge Circulation/ Serial / Archives Section
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Reference Section

It accepts the responsibility of providing reference services to the research scholars, conducting research activities at University level by developing a maintain a liaison with collaborating Universities of the Country.

Acquisition Section

It holds the office with the responsibility of procuring the reading material in all its fashions/ styles/ formats by utilizing the annually allocated funds for the said purpose by scrutinizing / selecting the relevant materials.

Technical Section

The Library collection is processed technically by this section care of classification and cataloging. It also includes the Library automation and indexing of current date base accessible by exploiting the avai8lable resources of the Library.

Archival Section

For the survival of our cultural heritage an Archive Section has recently been established after receipt of the valuable documents donated by the philanthropists from different walks of life which has devolved the worth of Library collection wonderfully. Necessary concerted efforts are required to be made further to develop the same in future.

The Pakistan Scientific & Technological Information Centre (PASTIC) has started its services through its sub-center established in the Central library and is providing research / reference services to faculty/ students through its rich databases.

The Centre of Excellence in Technological Entrepreneurship Development (CETED) has also been established by Pakistan Science Foundation.

Digital Library

Central/Departmental Library Management System

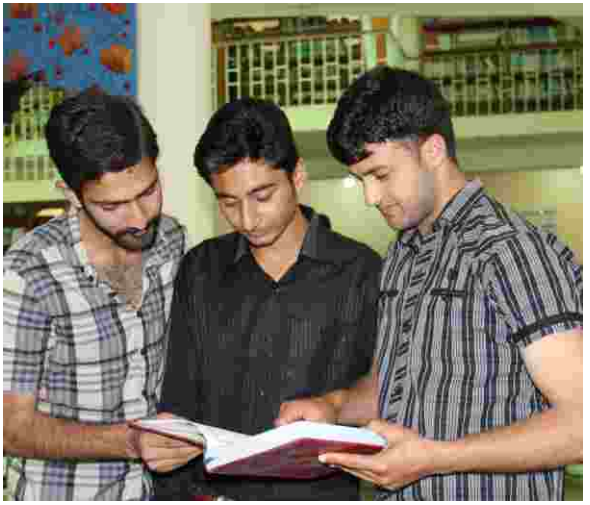
Library Management System has been launched in the Central Library which connects all the departmental libraries with the Central Library. More than 15000 Books, Journal, Magazine, Thesis, Script, Audio/Video entered relevant to Post, Field.

E-library

Near about sixty thousand e-books are available in E-library, inaugurated on 08-10-2015.

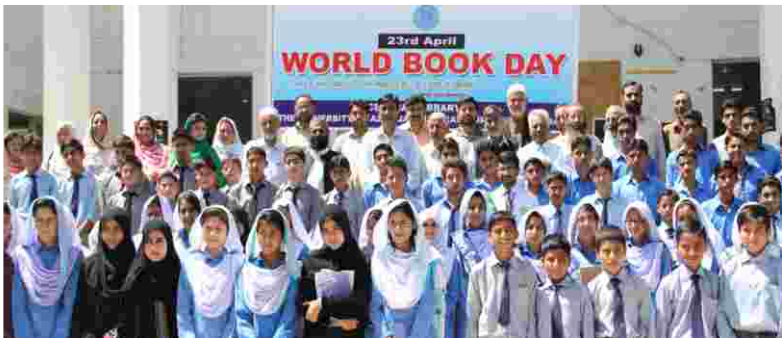
Book Bank

Book Bank scheme have been introduced and inaugurated on 08-10-2015. This scheme is used for providing facility to the students of BS program to purchase text books in Low price edition.



23rd April
WORLD BOOK DAY

CENTRAL LIBRARY


23rd April
WORLD BOOK DAY

Lincoln Corner

Introduction

Lincoln corner was established at the University of Azad Jammu and Kashmir in the year 2007 with the collaboration of the Public Affairs Section of the U.S. Embassy in Islamabad and the UAJK after signing of an official Memorandum of understanding between the two organizations. The center was inaugurated by the Prime Minister of Azad Jammu and Kashmir on April 26, 2007.

It was established as an information resource center with the view to provide the people of AJK an access to the required information about the global international matters in general and about United States in particular. It was aimed at promoting mutual understanding and fostering better relations between the citizens of the two countries.

Resources at Lincoln Corner

- Free Internet and Wi-Fi
- Over 30 Online elibrary US databases for researchers
- Books of General Interest
- Latest books on U.S. government, politics, history and literature
- Preparatory books of GRE,GMAT,SATs and TOEFL Tests
- Popular and scholarly magazines and journals on current events, life style, entrepreneurship, entertainment, foreign affairs and science & technology
- English language learning resources
- DVDs & audiobooks collection-documentaries & popular films
- Information about U.S. scholarship & exchange programs

Activities at Lincoln Corner

- Public Lectures
- Opportunities for exchanging views with Americans on a

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wide range of topics including entrepreneurship, technology, education history study & life in the U.S.
- U.S. Alumni events
- Maker spaces and gaming activities
- Conversation Clubs, Book Clubs & Discussion Groups
- Seminars / Workshops

The center is fast becoming a vibrant venue that provides its users quality access to information regarding research, education and other areas of interest. The information center offers Global understanding Virtual Cultural Classes held twice a week by establishing link via internet with other International Universities around the globe. Such as: (The University of East California USA, The University of Lima, Peru and The University of Malaysia).The said programs enable our students to interact with the student of other international universities and share their views and perspective about their respective religions and cultures. The information center has become more dynamic and multipurpose by arranging and conducting community based programs involving both the public and private sector organizations along with the faculty and students of the university.

The Center arranges 4 or more activities on monthly basis. Thus it allows the students to make use of the available resources by accessing information through the available resources. Its major users comprise the faculty members, M.Phil. / PhD scholars researchers and students. Hence the Lincoln corner Muzaffarabad is a wonderful resource for both students and faculty at the University and making an effort to raise and enhance the overall quality of the University of Azad Jammu and Kashmir.

United States forms a Cultural Bridge with Pakistan through the Lincoln Corner at University of AJK

U.S. Embassy Public Affairs Counselor Angela Aggeler and University of Azad Jammu and Kashmir Vice Chancellor Prof. Syed Dilnawaz Ahmad Gardezi signed a three-year agreement to continue their partnership with the Lincoln Corner Muzaffarabad, today in Islamabad. Lincoln Corners are multipurpose resource centers which provide information about U.S. culture and educational opportunities for study in the United States. Under the agreement, the United States will continue providing books, magazines, Internet service, multimedia equipment and online academic databases to Lincoln Corner Muzaffarabad, located at the University of AJK. Aggeler said, "We are thrilled to

continue our long-term partnership with the University of Azad Jammu and Kashmir. The Lincoln Corner in Muzaffarabad is a wonderful resource for both Students and faculty at the University. "In addition to being public libraries, Lincoln Corners serve as venues for public speakers and educational events. Since its creation in 2005, the Lincoln Corners program in Pakistan has hosted hundreds of speakers for professional, academic and civic groups on topics of interest to both the United States and Pakistan. There are 16 Lincoln Corners in Pakistan.

Business Incubation Centre (BIC)

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Introduction

Business incubation center (UAJK) was established in July 2015 with the support of HEC and the University of AJK. Basic purpose of incubation center is to spin out companies from the universities and empowering our students through entrepreneurship.

Our students often possess brilliant business ideas; however, they lack required resources to turn their ideas into profitable business ventures.

We help early-stage businesses develop into financially stable companies by providing the tools, training, and infrastructure that help facilitate smarter, faster startup growth.

This comprehensive process includes an on-going series of strategic and tactical meetings, a variety of business development services, business coaching, and other important unique resources that are all individually tailored to help emerging enterprises achieve their specific short-term and long-term goals. Most importantly, because incubation is an on-going process, follow-up and accountability are some of the intangible benefits that help take businesses to the next level.

Our main objective is to help businesses grow to the point where they need to hire employees in order to continue operating and growing. With that being said, not every business is designed to create these types of jobs, nor does every business owner want to hire and manage employees. Therefore, companies seeking to be enrolled in our program must demonstrate their growth potential to us. Entrepreneurship not only provides the solution to our youth but also is the key driver of growth for all developed and developing economies around the world. More importantly, the BIC (UAJK) serves as a focal point for students, and those considering re-entering the workforce - to develop new skill sets allowing career and economic independence.

The key objectives of the BIC (UAJK)

To create wealth and value for AJK by promoting entrepreneurship

1. So as to help entrepreneurs network with the right fusion of financiers, mentors and entrepreneurial talent
2. So as to provide education, on-the-job training, advisory services, and research the problems of new ventures, small and medium entrepreneurs
3. So as to generate knowledge through problem solving research
4. So as to develop and offer short term training programs

Services offered:

- Help with business basics
- Networking opportunities
- Marketing assistance
- High-speed Internet access
- Accounting/financial management assistance
- Help with presentation skills
- Connections to higher education resources
- Connections to strategic partners
- Help with regulatory compliance
- Intellectual Property management and legal counsel

Workshops conducted by IBA-CED

With wonderful stories and effectuation principles, the workshop was officially inaugurated by Dr. Shahid Qureshi, Program Director CED, IBA at UAJK Campus on 5th of March 2016. The main audience were belonging to several disciplines like Computing Sciences, engineering, Natural Sciences and others.

Dr. Shahid introduced the IBA team, shared their success stories and accomplishments related to entrepreneurial development. It was not only just an introduction of IBA but was more about how entrepreneurship education and practice can create opportunities in AJK. On the second day, 6th March, the flag was taken by Dr. Imran Khan, Assistant Professor IBA. Dr. Khan let the audience to understand Entrepreneurial business modelling and gave them better understanding about the business canvas. Dr. Khan kept the audience continuously engaged with the exercises and mentoring activities. On the last day, 7th of March, business pitch exercises were conducted and the findings were presented to the Vice chancellor, UAJK. In the end, IBA CED team presented a token of appreciation to the Vice Chancellor, UAJK, Prof. Dr. Khawaja Farooq Ahmad and Mr. Mohsin Banday on behalf of the whole IBA fraternity. This whole journey of entrepreneurial learning ended in a splendid ceremony of certificate distribution. IBA, CED team is heartily thankful for the wonderful hospitality showcased by the BIC, UAJK Team.

Startup Competition 2016

BIC- UAJK, in celebration of its first Success, organized Start-up Competition 2016 at University of Azad Jammu & Kashmir. These short pitches took place on the 25th & 26th February 2016. Students of UAJK participated in this event.

BIC invited Distinguished Guests from Plan 9 largest technology incubator of Punjab information technology board, and Speakers from All Pakistan who participated and addressed the audiences about Motivation, Entrepreneurship and Career. BIC- took step to promote entrepreneurial culture in University of AJK. Startup competition 2016 was two days' activity; 35 business ideas were submitted by the students of different departments online, and on first day they presented their ideas in front of judges. Ten finalists were selected to pitch live to our panel of high profile judges on 26th February 2016 and three students, who had best business ideas, got prizes.

New Venture Creation Workshop
Organized By Bussiness Incubation Center

Kashmir Sathet

Directorate of Advanced Studies & Research

The Directorate of Advances Studies and Research has been established to stream line the functioning of different M.Phil./ Ph.D. Degree programs. The Directorate under the dynamic leadership of Director Advanced Studies and Research is striving hard to facilitate all the post-graduate students for their admission, enrollment, approval of supervisory committees, approval of synopses, and organization of defenses of synopses and theses.

The Directorate of Advanced studies and Research has also been assigned the task to formulate and recommend new rules and ways to further strengthen and expand the academic disciplines in light of different directives and models of Higher Education Commission (HEC) of Pakistan. The Directorate is striving hard for achieving academic excellence and ensuring authenticity, transparency, competitiveness and timely completion of all research degree programs within the stipulated time period. Besides, the Directorate facilitates different departments and institutes in organizing conferences, workshops, seminars and symposia. Keeping in view the needs of modern era and human resource development, the Directorate also facilitates faculty and officers by providing opportunities for different training programs.

The Directorate also administers different awards like, Best teacher award, best student award and best player award. In the fiscal year 2016, against the allocated budget of Rs. 10,036,000/- in the central budget head "Research Support Fund" for F.Y 2016-17, the Directorate invited applications, for awarding incentives from the following;

I) Faculty members for Research Publications in Impact factor Research Journals.
ii) Faculty members supervising M.Phil./Ph.D. Scholars.
iii) Faculty members/employees doing M.Phil. / Ph.D.

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Iv) For Research Projects.

An amount of Rs.6,088,750/-has been approved for payment to the Faculty Members/Officers on account of Research Publications,

Supervision of Scholars and doing M.Phil./ Ph.D. during regular service. Another amount of Rs. 654,500/- has been approved in favour of Faculty Members as 2nd Installment for their Research Projects and an amount of Rs. 3,200,000/-has been granted for research purpose to the different departments.

The directorate holds meetings of the Board of Advanced Studies and Research on monthly basis. The main functions of Board of Advanced Studies and research are to;

I) Advise the Authorities on all matters connected with the promotion of advanced studies and research in the University

Ii) Consider and report to the Authorities on the institutions of research degrees in the University

iii) Propose regulations for the award of Research Degrees

iv) Appoint supervisors for postgraduate research students and approve titles and synopses of their theses/dissertations

V) Recommend panels of examiners for evaluation of Thesis and other research examinations after considering the proposals of Board of Studies in this regard

Vi) Perform such other functions as may be prescribed by the statutes.

Board of Advanced Studies and Research consists of Officials;

1	Vice Chancellor	Chairman
2	All Deans	Members
3	Three University Professors, other than Deans, to be appointed by Syndicate	Members
4	Three University Teachers having research qualifications and experience to be appointed by the Academic Council	Members
5	Director Advanced Studies & Research	Secretary

Directorate of BS 4-year Program

Dear Students,

The BS program of the University is aimed at providing our students an access to highly celebrated academic journey with four years duration. The main objective of Directorate of BS 4-Year Programme is simply to provide students the best possible campus environment conducive to learning. We expect from our students to excel, so we take all possible measures to remove non-academic obstacles allowing them to focus on equity in education. The directorate seeks to ensure that everyone may benefit from quality educational programs. We take pride in providing our students a well-balanced blend of hands on education with a strong theoretical foundation that allows them to function effectively and confidently in the competitive market. Despite being well planned, we continue to find innovative ways to bolster our BS-4 year degree programs.

Introduction

The Directorate BS 4-Year Programme was established on Jan 2nd, 2015. In all over the world, new techniques and ideas are being worked on for better quality of education. To follow the same pattern, the university of Azad Jammu & Kashmir Muzaffarabad (UAJK) took the initiative to introduce BS 4-Year Programme and started first session 2012-16. Meanwhile, some colleges intended to affiliate with UAJK for running BS 4-Year Programs in colleges. At present, many BS disciplines i.e Physics, Chemistry, Botany, English, Urdu, BBA, Economics, Psychology are being run in 03 colleges of AJK in the sessions 2012-16, 2013-17, 2014-18, 2015-19, 2016-20.

Responsibilities

- To monitor BS Programme in UAJK as well as affiliated colleges.
- To conduct terminal Examination in affiliated colleges.
- Compilation of results of all disciplines being run in affiliated colleges.
- To meet the dearth of teaching staff with induction of part time teachers.
- To effectively monitor the semester classes.

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Office of Research, Innovation and Commercialization (ORIC)

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Introduction

It has long been recognized that academic research plays an important role in promoting technological progress and economic growth. In particular, universities play two key roles: they contribute to economic growth through training of skilled personnel, especially in science and engineering; and they produce, store and disseminate research results, which form the basis for follow-on R&D by firms.

Promotion of Research is one of the core strategic aims of UAJK. To organize the research activities of university, the UAJK has established fully functional ORIC (Office of Research, Innovation and Commercialization). The ORICs provides strategic and operational support to the University's research activities/program, and has a central role in facilitating the commercialization of University's research outcomes.

Objectives of ORIC

The objective of the establishment of the Offices of Research, Innovation and Commercialization (ORIC) is to develop, expand, enhance and manage the university's research programs and to link research activities directly to the educational, social and economic priorities of the university and its broader community.

In pursuit of this mission the ORIC has the responsibility of guaranteeing that all research programs and policies reflect the core values of academic freedom, professional integrity and ethical conduct and full compliance with all policies, legal requirements and operational standards of the university.

In short, the ORIC seeks to enhance the environment for all research and commercialization by:

- Devising and implementing policies regarding Intellectual Property and Commercialization.
- Supporting the UAJK's strategic research directions and policies.
- Promoting cooperative research with enterprises and pulling in more funds from governmental/private bodies for collaborative research or teaching programs;
- Improving integration of research and education at all levels of the university
- Improving translation of research into the public benefit

ORIC will also look for Strengthening University-Industry relationships by:

- Promoting and enhancing commercially viable cross-cutting and multi-disciplinary research initiatives.
- Acquisition of or access to up-to date equipment;
- Discovering opportunities for staff and students to become familiar with state-of-the-art industrial science and technology and management systems and enhancement of their familiarity with the constraints of industry;
- Improving interaction of higher education departments and employers for the development and adaptation of technology oriented degree programs.
- Arrangement of industrial internships for students.

Activities

In recent times ORIC has been involved in various activities which have made significant contribution towards the betterment of society as well as enhancement of the skills of the faculty staff, Seminars on Disaster Management, Environmental and Climate change, Hepatitis screening campaign as well as presentations and workshops and training on social issues to name a few. Previously ORIC successfully organized training workshops for the staff and faculty members regarding Patents and Intellectual property rights and project proposal writing skills.

Collaborations and Linkages

ORIC also deals linkages with national and international academic and industrial organizations. The ORIC signed MoUs with different Turkish Universities for scholarships and students exchange. After comprehensive meetings twelve (12) scholarships were awarded to faculty members and students of different department of University of AJK. ORIC also signed MoUs for Mevlana Student and Faculty Exchange Programme. Large number of students and faculty members from different departments would benefit from this programme. More collaboration are in the pipeline.

At national level ORIC signed MoU with National Vocational & Technical Training Commission for Prime Minister Youth Skill Development Programme. Courses in Computer Skills and Textile Designing are successfully running in AJK University with the collaboration of NAVTTC for unemployed and unskilled youth belonging to different areas of AJK.

Send-Off Ceremony

Faculty of Sciences

Dear Students

Here, we are endeavoring to promote an atmosphere and culture conducive to research activities so as to attain academic excellence compatible with the other national and international Higher Education Institutions. Our highly qualified and experienced faculty is committed to inculcate the scientific and technical skills in our students. It helps them in furthering their professional goals in the careers ahead.

Though at present, we are running our departments with the limited infrastructure on account of the devastating earth quack of OCT. 08, 2005, yet advanced research degree programs such as M.Phil. and Ph.D. have become our regular academic features. Ours research fields span over a wide range of subject areas covering both natural and applied sciences. Our strength is enhanced by our partnerships and collaboration with highly reputed national and International organizations and agencies.

On behalf of the faculty, I wish you a successful stay at the University. I am confident that in the next couple of years, with a newly established state of the art campus (at Chatter klass) our existing faculty will be able to expand further by introducing new disciplines in the fields of Science and Engineering.

DEAN

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DEPARTMENT / INSTITUTE

Botany
Bio-Technology
Chemistry
Computer Science
Institute of Geology
Mathematics
Physics
Statistics
Zoology

Department of Botany

The Department of Botany was established in 1989 at Old Campus Muzaffarabad. The mission is to discover, maintain, and transmit knowledge concerning basic plant biology and provide leadership in the plant sciences. The department is situated in one of the most diverse and interesting floral kingdoms in the world making it an ideal place for post graduate studies in almost all fields of botany.

Being the premier institution in higher education, it is promoting modern research. The degree programs offer studies in molecular, genetic, cellular, and developmental biology, through physiology, structural botany, molecular systematics, taxonomy, ecology, ethnobotany and evolution. Highly qualified faculty is involved in teaching and research in different sections of botany. A variety of courses are offered by the department to address the needs of the society in the field of agriculture, education, environment, horticulture, pharmacognosy, pharmacology, etc. It covers various aspects of current research in Botanical Sciences.

The departmental library has a good collection of textbooks and Journals, besides these six computers have been installed for researchers/faculty to access digital library. Currently, botany research laboratory has been established and equipped with all necessary facilities for research students of botany. The department is also engaged in collaborative research with different Universities and research organization like PIEAS and NARC. A herbarium is being established to facilitate the scientists working on different aspects of plant biology.

The Department imparts BS, M.Sc., M.Phil. and Ph.D degrees in Botany. The M.Phil and Ph.D. students have to study taught courses and thesis for the partial fulfillment of the degree. The courses are geared towards providing research training in the discipline of Botany. Currently, more than 80 students are perusing M.Phil. and Ph.D. degrees.

CHAIRMAN

Prof. Dr. Ghulam Murtaza

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FACULTY

Prof. Dr. Ghulam Murtaza, Ph.D. (Pak), Post-Doc (UK)

Dr. Rehana Kausar, Ph.D. (Pak)

Dr. Syeda Siddiqa Firdous, Ph.D. (Pak)

Dr. Ratooba Shaheen Hashmi Ph.D. (India)

Dr. Tariq Habib, Ph.D. (Pak)

Dr. Hamayun Shaheen, Ph.D. (Pak)

Dr. Muhammad Ejaz Ul Islam Dar, Ph.D. (Thailand)

Mr. Rizwan Taj Khan, M.Phil. (Pak)

Ms. Sidra Qayyum, M.Phil. (Pak)

Ms. Munazza Nazir, M.Phil. (Pak)

Job Opportunities

The programs offered by the department, provides a firm ground in major fields of botany. Its most modern research facilities are comparable to those of any other University in Pakistan. The students are offered job opportunities in the Department of Education, Forestry, Environment, Agriculture, Wildlife, and different Governmental and Non Governmental Organizations of Azad Jammu and Kashmir and Pakistan. This qualified workforce can take up their jobs in the research organizations including, PARC, NARC, PCSIR and NGOs like WWF, NRSP, Khushali Bank, IUCN, etc. Thus, the department plays an important role in the development of the country. A Pharmaceutical firm is another place where the graduates of this program are easily absorbed. In short, the course offers a promising future to its graduates.

Academic Programmes

M. Sc. Botany is a two years degree program. The course is in line with the unified curriculum prescribed by the Higher Education Commission (HEC), the program consists of two main parts: (i) Compulsory courses and (ii) Elective courses. These courses are broad enough to encompass nearly all the major fields in Botany. One of the salient features of the courses is that it accords special emphasis to the subject of Botany in view of its importance in the present time and for future prospective. Currently, Field Botany has been introduced as core course for M.Sc. to acquaint the students with natural flora and fauna in various regions through field trips.

The program provides a firm ground in major fields to study, which open up a wide range of opportunities for higher studies. The graduates produced by this department have completed research degrees in other University of the country as well as abroad.

B.S. Botany 4 Years Program

Eligibility

The Criterion of admission in B.S. Botany is HSSC or equivalent with at least Second division (45% marks).

Scheme of Study

Duration	8-10 Semester
Course Work:	132 Credits
Field Botany:	02 Credits
Thesis:	06 Credits
Comprehensive Oral Examination:	S/U Basis
Total Credits:	140 Credits

Freshman-I (First Semester)

Course No.	Course Title	Credit Hours
ENG-3101	Functional English	3 (3+0)
MAT-3141	Basic Mathematics	3 (3+0)
CHM-3111	Organic Chemistry	4 (3+1)
BOT-3121	Diversity of Plants	4 (3+1)
ZOO-3131	Principles of Animal Life-I	4 (3+1)
	Total	**18 (15+3)**

Freshman-II (Second Semester)

Course No.	Course Title	Credit Hours
ENG-3202	Communication Skills	3 (3+0)
COM-3251	Basic Computer	3 (2+1)
CHM-3212	Inorganic Chemistry	4 (3+1)
BOT-3222	Plant Systematics, Anatomy and Development	4 (3+1)
ZOO-3232	Principles of Animal Life-II	4 (3+1)
	Total	**18 (14+4)**

Sophomore-I (Third Semester)

Course No.	Course Title	Credit Hours
PKS-4381	Pakistan Studies	2 (2+0)
ISL-4361	Islamic Studies	2 (2+0)
STA-4371	Basic Statistics	2 (2+0)
CHM-4314	Physical Chemistry	4 (3+1)
BOT-4323	Cell Biology, Genetics and Evolution	4 (3+1)
ZOO-4334	Animal Form and Function-I	4 (3+1)
	Total	**18 (15+3)**

Sophomore-II (Fourth Semester)

Course No.	Course Title	Credit Hours
ENG-4404	Report Writing	3 (3+0)
ARB-4491	Al-Lisaan-ul-Arabi3	(3+0)
CHM-4418	Biochemistry	4 (3+1)
BOT-4425	Plant Physiology and Ecology	4 (3+1)
ZOO-4436	Animal Form and Function-II	4 (3+1)
	Total	**18 (15+3)**

Junior-I (Fifth Semester)

Course No.	Course Title	Credit Hours
BOT-5501	Bacteriology and Virology	3 (2+1)
BOT-5502	Diversity in Non-Vascular Plants	3 (2+1)
BOT-5503	Principles of Plant Taxonomy	3 (2+1)
BOT-5504	Autecology	3 (2+1)
BOT-5505	Cell Biology	3 (2+1)
BOT-5506	Field Botany-I	1 (0+1)
	Total	**16 (10+6)**

Junior-II (Sixth Semester)

Course No.	Course Title	Credit Hours
BOT-5601	Biostatistics	3 (2+1)
BOT-5602	Synecology	3 (2+1)
BOT-5603	Diversity of Vascular Plants	3 (2+1)
BOT-5604	Mycology	3 (2+1)
BOT-5605	Plant Anatomy	3 (2+1)
BOT-5606	Field Botany-II	1 (0+1)
	Total	**16 (10+6)**

Senior-I (Seventh Semester)

Course No.	Course Title	Credit Hours
BOT-6701	Genetics-I	3 (2+1)
BOT-6702	Plant and Cell Physiology-I	3 (2+1)
BOT-6703	Molecular Biology	3 (2+1)
BOT-6704	Plant Biochemistry	3 (2+1)
BOT-6705	Research Methodology	3 (2+1)
BOT-6706 or BOT-67**	Research and Thesis or Elective Paper for Non-Thesis Students	 3 (0+3) or3 (3+0)
	Total	**18 (10-8)/ (13-5)**

Senior-II (Eighth Semester)

Course No.	Course Title	Credit Hours
BOT-6801	Genetics-II	3 (2+1)
BOT-6802	Plant and Cell Physiology-II	3 (2+1)
BOT-6803	Conservation Biology	3 (2+1)
BOT-6804	Experimental Taxonomy	3 (2+1)
BOT-6805	Principles of Biotechnology	3 (2+1)
BOT-6706 or BOT-68**	Research and Thesis or Elective Paper for Non-Thesis Students	3 (0+3) or 3 (3+0)
	Total	**18 (10-8)/ (13-5)**
	Total Credit Hours in Degree	**140**

Elective Courses
Senior-I (Seventh Semester)

Course No.	Course Title	Credit Hours
BOT-6724	Aquatic Ecology	3 (3-0)
BOT-6725	Medicinal Plants	3 (3-0)
BOT-6726	Bioinformatics	3 (3-0)
BOT-6727	Plant Metabolism	3 (3-0)
BOT-6728	Plant Breeding	3 (3-0)
BOT-6729	Phytogeography	3 (3-0)
BOT-6730	Phytohormones	3 (3-0)
BOT-6731	Forensic Botany	3 (3-0)
BOT-6732	Cytogenetics	3 (3-0)
BOT-6733	Plant Pathology	3 (3-0)
BOT-6734	Mushroom Cultivation	3 (3-0)
BOT-6735	Genomics	3 (3-0)

Senior-II (Eighth Semester)

Course No.	Course Title	Credit Hours
BOT-6823	Shade Pathology	3 (3-0)
BOT-6824	Analytical Phytosociology	3 (3-0)
BOT-6825	Microbiology	3 (3-0)
BOT-6826	Edaphology	3 (3-0)
BOT-6827	Stress Physiology of Plants	3 (3-0)
BOT-6828	Plant Morphogenesis	3 (3-0)
BOT-6829	Embryology	3 (3-0)
BOT-6830	Environmental Pollution and Prevention	3 (3-0)
BOT-6831	Plant Ecophysiology	3 (3-0)
BOT-6832	Ethnobotany	3 (3-0)

M.Sc. Botany

Eligibility

The Criterion of admission in M.Sc. Botany is B.Sc. with Botany, Zoology and Chemistry at least Second division (45% marks).

Scheme of Study (M. Sc. Botany)

Duration	4-6 Semester
Course Work:	60 Credits
Field Botany:	02 Credits
Thesis:	06 Credits
Comprehensive Oral Examination:	S/U Basis
Total Credits:	68 Credits

Courses

1st Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-5101	Plant Taxonomy	2	1	3
BOT-5102	Diversity in Non-Vascular Plants	2	1	3
BOT-5103	Mycology	2	1	3
BOT-5104	Plant Ecology-I	2	1	3
BOT-5105	Cell Biology	2	1	3
BOT-5106	Field Botany-I			1

2nd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-5201	Plant Biochemistry-I	2	1	3
BOT-5202	Plant Pathology	2	1	3
BOT-5203	Genetics-I	2	1	3
BOT-5205	Plant and Cell Physiology-I	2	1	3
BOT-5206	Plant Anatomy	2	1	3
	Field Botany-II			1

3rd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-6301	Molecular Biology	2	1	3
BOT-6302	Diversity of Vascular Plants	2	1	3
BOT-6303	Plant Biochemistry-II	2	1	3
BOT-6304	Plant Ecology-II	2	1	3
BOT-6305	Plant and Cell Physiology-II	2	1	3
BOT-6406	Thesis (Assigned in 3rd semester and assessed in 4th semester)			
*Optional	Non Thesis Students			3

4th Semester*

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-6401	Genetics-II	2	1	3
BOT-6402	Conservation Biology	2	1	3
BOT-6403	Biostatistics	2	1	3
BOT-6404	Principles of Biotechnology	2	1	3
BOT-6405	Experimental Taxonomy	2	1	3
*BOT-6406	Thesis			6
Optional	Non Thesis Students			3

Effective from academic session 2015-17 and onward

*: Non thesis students are required to opt two optional courses in lieu of Thesis from the following list.

Faculty Optional Courses:
3rd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-6307	Aquatic Ecology	3	0	3
BOT-6308	Medicinal Plants	3	0	3
BOT-6309	Bioinformatics	3	0	3
BOT-6310	Plant Metabolism	3	0	3
BOT-6311	Plant Breeding	3	0	3
BOT-6312	Phytogeography	3	0	3
BOT-6313	Phytohormones	3	0	3
BOT-6314	Forensic Botany	3	0	3
BOT-6315	Cytogenetics	3	0	3
BOT-6316	Integrated Plant Disease Management	3	0	3
BOT-6317	Mushroom Cultivation	3	0	3
BOT-6318	Genomics	3	0	3

4th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-6406	Forest and Shade Tree Pathology	3	0	3
BOT-6407	Analytical Phytosociology	3	0	3
BOT-6408	Microbiology	3	0	3
BOT-6409	Edaphology	3	0	3
BOT-6410	Stress Physiology of Plant	3	0	3
BOT-6411	Plant Morphogenesis	3	0	3
BOT-6412	Embryology	3	0	3
BOT-6413	Environmental Pollution and Prevention	3	0	3
BOT-6415	Plant Ecophysiology	3	0	3
BOT-6416	Ethnobotany	3	0	3

Courses
M.Phil. and Ph.D. Program

Eligibility
The criteria for admission in M.Phil. Botany is at least Second division in M.Sc. Botany and UGAT of this University with a minimum 50% score will be necessary at the time of admission to M.Phil.
For admission into Ph.D. the minimum CGPA should be 3.00 or 1st division in MS/M.Phil. In addition the candidate must pass GRE (International) Subject Test with minimum percentile score 60% before submission of Ph.D. Dissertation.

Scheme of Studies for M.Phil./Ph.D. Program

M.Phil.		Ph.D.	
Duration:	4-6 Semesters	Duration:	6-10 Semesters
Total Credits:	30	Taught Courses:	18 Credit hours
Taught Courses:	24	Comprehensive Examination:	Compulsory
Research Thesis:	06	Research Thesis:	25 Credit Hours
		Seminar	01 Credit Hour

List of Courses M.Phil./Ph.D. Botany

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-701	Anatomy and Wood Formation	3	0	3
BOT-702	Agrostology	3	0	3
BOT-703	Allelopathy	3	0	3
BOT-704	Advanced Plant Physiology	3	0	3
BOT-705	Advances in Biotechnology	3	0	3
BOT-706	Biological Nitrogen Fixation	3	0	3
BOT-707	Carbohydrate Metabolisms in Plants	3	0	3
BOT-708	Chemotaxonomy of Angiosperms	3	0	3
BOT-709	Plant Cellular Signaling	3	0	3
BOT-710	Weed Ecology	3	0	3
BOT-711	Fungal Ecology	3	0	3
BOT-712	Fungal Biodeteriorations and Biodegradation	3	0	3
BOT-713	Advances in Cell Biology	3	0	3
BOT-714	Mycorrhizae in Agriculture	3	0	3
BOT-715	Ornamental-Plant Husbandary	3	0	3
BOT-716	Natural Resource Management & Sustainable development	3	0	3
BOT-717	Plant Tissue and Cell Culture	3	0	3
BOT-718	Phenarogams-I	3	0	3
BOT-719	Phenarogams-II	3	0	3
BOT-720	Advances in Environmental Biology	3	0	3
BOT-721	Plant Enzymology	3	0	3
BOT-722	Laboratory Techniques in Plant Sciences	3	0	3
BOT-723	Nitrogen Metabolisms in Plants	3	0	3
BOT-724	Advances in Microbiology	3	0	3
BOT-725	Advanced Phycology	3	0	3
BOT-726	Advances in Phytosociology	3	0	3
BOT-727	Phytohormones and Plant Growth	3	0	3
BOT-728	Recombinant DNA Technology	3	0	3
BOT-729	Soil Fertility and Plant Nutrition	3	0	3
BOT-730	Soil Microbiology and Biochemistry	3	0	3
BOT-731	Soil Plant Relationship	3	0	3
BOT-732	Soil and Water Conservation	3	0	3

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-733	Seminar-I (for Ph.D.)	0	0	1
BOT-734	Experimental Designs and Computer Applications	3	0	3
BOT-735	Seminar-II (for Ph.D.)	0	0	1
BOT-736	Reading and Conference	0	0	1
BOT-737	Biosystematics	3	0	3
BOT-738	Advanced Genomics	3	0	3
BOT-739	Advanced Bioinformatics	3	0	3
BOT-740	Wild Plants and their Economic use	3	0	3
BOT-741	Advanced Proteomics	3	0	3
BOT-742	Plant Growth and Development	3	0	3
BOT-743	Advances in Biodiversity and Conservation	3	0	3
BOT-744	Special Problem	0	0	1
BOT-745	M. Phil Thesis	0	0	6
BOT-746	Ph.D. Seminar Compulsory	0	0	1
BOT-747	Ph.D. Thesis	0	0	25
BOT-748	Environmental Biotechnology	3	0	3
BOT-749	Solid Waste Management	3	0	3
BOT-750	Environmental Impact Assessment	3	0	3
BOT-751	Advances in Plant Ecology	3	0	3
BOT-752	Seed Pathology	3	0	3
BOT-753	Urban Plant Pathology	3	0	3
BOT-754	Plant Quarantine and Sanitary and Phytosanitary Measures	3	0	3
BOT-755	Advances in Plant Pathology	3	0	3
BOT-756	Molecular Plant Virology	3	0	3
BOT-757	Molecular Plant-Microbe Interaction	3	0	3
BOT-748	Environmental Biotechnology	3	0	3
BOT-749	Solid Waste Management	3	0	3
BOT-750	Environmental Impact Assessment	3	0	3
BOT-751	Advances in Plant Ecology	3	0	3
BOT-752	Climate Change Effects and Mitigation	3	0	3
BOT-753	Ecosystem Services	3	0	3
BOT-754	Biodegradation	3	0	3

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BOT-755	Bioethics	3	0	3
BOT-756	Biosafety and Biosecurity	3	0	3
BOT-757	Geographic Information System (GIS)	3	0	3
BOT-758	Economic Botany	3	0	3
BOT-759	Quantitative Ethnobotany	3	0	3
BOT-760	Advances in Lichenology	3	0	3
BOT-761	Bioethics and Biosafety	3	0	3
BOT-762	Bioinstrumentation	3	0	3
BOT-763	Microscopic Techniques	3	0	3
BOT-764	Nano biotechnology	3	0	3
BOT-765	Lab Analysis-I	3	0	3
BOT-766	Lab Analysis-II	3	0	3
BOT-767	Field Analysis-I	3	0	3
BOT-768	Field Analysis-II	3	0	3

Effective from Session 2015-17, 2015-18 and onward for M.Phil. and Ph.D. Botany respectively.

Our University has inspiring environment for studies where the unclouded environment and highly prestigious faculty make it a distinguish one that motivate your potential and skills. The department of botany UAJK is equipped not only with sophisticated equipment as well as satisfactory enough quality. My message to new comers is that, they will see the difference in their selves.

Asma Hameed
M.Phil. Botany
2nd Semester

Desire of knowledge like the thirst of richness ever with the acquisition of it and University of Azad Jammu and Kashmir provides a platform to fulfill all my dreams. Faculty members are highly qualified and experienced. The environment is peaceful and helpful for learning. Research work is supervised by highly skilled supervisors. I am very proud to be a part of University of Azad Jammu and Kashmir.

Sidra Rafique
Ph.D. Botany
4th Semester

My stay in this esteemed Department has been very pleasant, so for the Department has a remarkable standard of education which help us to build confidence, skills and to groom our personality. Instead, it is a platform where I explored myself to enlighten my skills and knowledge. Our Department is simply awesome, progressing under our most kind and fabulous Chairman and staff. I am really proud of joining Department of Botany "University of Azad Jammu and Kashmir" I can proudly claim that this 1st semester as best of my academic life.

Anees Ahmed Abbasi,
BS Botany, 5th Semester , Session 2014-18

It is a matter of immense pleasure for me to join UAJK. The key mission of department Botany is to impart of knowledge, to build confidence and to groom personality. The department has a comprehensive quality assurance system which encourages and empowers a student to become an independent learner. The Institute provided an edifying height in connection with the academic and moral attitude. Environment is conductive and labs are fully equipped.

Javaid Qayyoom Swati,
PhD, 4th Semester,
Session 2015-18

Department of Biotechnology

Introduction

The Department of Biotechnology was established in February, 2013 at University of Azad Jammu and Kashmir, Muzaffarabad at Chehla Campus. Biotechnology is an interdepartmental venture offered jointly by the Departments of Zoology, Biochemistry and Plant sciences. It is a teaching and research department of the University and initially only M.Phil and Ph.D programs were offered in a number of contemporary disciplines such as Animal biotechnology, Plant biotechnology, Medical biotechnology and Microbial biotechnology. The Department of Biotechnology was launched by the personal efforts and interest of the Prof. Dr. Dilnawaz Ahmad Gardezi, Former Vice Chancellor, UAJK. Prof. Dr. Muhammad Nasim Khan was appointed as the Founder Chairman of Biotechnology Department.

The department offers a prospect to the students from all areas of the Azad Jammu and Kashmir to participate and excel in the emergent field of Biotechnology. The programs are designed to expose the students to recent exciting developments in the area of genetic engineering and biotechnology and their exploitation in industry, agriculture and medicine. During very short time period, the department has started regular classes in these degree programs after getting approval of syllabi by Advanced Board of Studies. The first batch of M.Phil and Ph.D. degree programs has completed their thesis research in different disciplines of Biotechnology. The department is in unmet need to acquire fulltime high qualified faculty and also equipped research laboratories to ensure the quality education to meet the national and global demands and standards. Because of the relevance of some of the research programs, interaction and collaboration with other institutions has been achieved within the country and abroad. In the next few years, with the ongoing

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FACULTY

Dr. Ghazanfar Ali,
Ph.D. (Pak) (PAS Gold Medalist)
Dr. Abdul Rauf, Ph.D. (Pak)
Dr. Shaukat Ali, Ph.D. (Netherlands)
Mr. Ghassan Zahid, M.Phil. (Pak)
Ms. Sundus Khawaja, M.Phil. (Pak)

acquirement of new academic staff members, these numbers are expected to rise extensively. Students completing their degree in biotechnology are well prepared for professions as research scientists in industry, clinical laboratories, research and teaching institutions.

Objectives

The Biotechnology Department has been established with an ambition to provide students with a solid foundation in the rapidly growing field of biotechnology. Our goal is to provide students to take leadership role in the applications and promotion of modern biotechnology in the area of Azad Jammu and Kashmir through high level of education and research activities.

Eligibility

The students seeking admission in Ph.D and M.Phil. Biotechnology must have passed MS-(2 years)/ M.Phil M.Sc / BS-(4 years) respectively with (Molecular Biology / Biotechnology / Biochemistry / Molecular Genetics / Agriculture Sciences / Biological Sciences / Life Sciences / Botany / Zoology) or equivalent with minimum CGPA 2.50/4.00 or at least 2nd division in annual system.

Program Details

Research is an essential part of the M.Phil and Ph.D degree programs. The emphasis stems from the fact that in the field of biotechnology there are yet a great number of spectacles that remains unexplained.

Scheme of Study for M.Phil

Duration	4-6 Semesters
Courses	24 Credits
Reading and Conference (Optional)	01 Credit
Seminar	01 Credit
Thesis	06 Credits
Total Credits:	30 Credits

Scheme of Study for Ph.D

Duration	8-10 Semester
Courses	18 Credits
Reading and Conference (Optional)	01 Credits
Seminar	01 Credit
Thesis	24 Credits
Total Credits:	42 Credits

Courses for M. Phil/ Ph.D Programs

a) List of Compulsory Courses for M. Phil/ Ph.D Biotechnology 1st Semester

1st Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BIOT-7101	Fundamentals of Biotechnology (Compulsory)	3	0	3-0
BIOT-7102	Applications of Biotechnology (Compulsory)	3	0	3-0
BIOT-7103	Recombinant DNA Technology (Compulsory)	3	0	3-0
BIOT-7104	Techniques in Biotechnology (Compulsory)	2	1	2-1
BIOT-7105	Biosafety and Bioethics (Compulsory)	1	0	Non Credit
			Total	**12**

b) List of Elective Courses for M. Phil/ Ph.D Biotechnology 2nd Semester

2nd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BIOT-7201	Immunology 1	3(3+0)	0	3-0
BIOT-7202	Human Molecular Genetics and Various Disorders	3(3+0)	0	3-0
BIOT-7203	Cell Signaling	3(3+0)	0	3-0
BIOT-7204	Enzyme Technology	3(3+0)	0	3-0
BIOT-7205	Bioinformatics	3(3+0)	0	3-0
BIOT-7206	Agriculture Biotechnology	3(3+0)	0	3-0
BIOT-7207	Animal Biotechnology	3(3+0)	0	3-0
BIOT-7208	Medical Biotechnology	3(3+0)	0	3-0
BIOT-7209	Advanced Immunology	3(3+0)	0	3-0
BIOT-7210	Genomics	3(3+0)	0	3-0
BIOT-7211	Proteomics and metabolomics	3(3+0)	0	3-0
BIOT-7212	Food Biotechnology	3(3+0)	0	3-0
BIOT-7213	Environmental Biotechnology	3(3+0)	0	3-0
BIOT-7214	Nano biotechnology	3(3+0)	0	3-0
BIOT-7215	Pharmaceutical biotechnology	3(3+0)	0	3-0

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
BIOT-7216	Molecular virology	3(3+0)	0	3-0
BIOT-7217	Molecular Plant Breeding	3(3+0)	0	3-0
BIOT-7218	Molecular plant pathology	3(3+0)	0	3-0
BIOT-7219	Biodegradation	3(3+0)	0	3-0
BIOT-7220	Environmental health & medicine	3(3+0)	0	3-0
BIOT-7221	Microbial biotechnology	3(3+0)	0	3-0
BIOT-7222	Solid waste management	3(3+0)	0	3-0
BIOT-7223	Water and waste water treatment process	3(3+0)	0	3-0
BIOT-7224	Ethno botany	3(3+0)	0	3-0
BIOT-7225	Plant Morphogenesis	3(3+0)	0	3-0
BIOT-7226	Forensic Science	3(3+0)	0	3-0
BIOT-7227	Biostatistics	3(3+0)	0	3-0
BIOT-7228	Industrial Biotechnology	3(3+0)	0	3-0
BIOT-7229	Marine Biotechnology	3(3+0)	0	3-0
BIOT-7230	Cell and tissue Culture	3(3+0)	0	3-0
BIOT-7231	Quantitative Genetics	3(3+0)	0	3-0
BIOT-7232	Analytical Techniques	3(3+0)	0	3-0
BIOT-7233	Advanced Microbiology	3(3+0)	0	3-0
BIOT-7234	Research Methodology	3(3+0)	0	3-0
BIOT-7235	M.Phil	06		
BIOT-7236	Ph.D Thesis	24		

In UAJK department of Biotechnology is an institution with a vision to promote and facilitate students and researchers in various fields of higher education. I am feeling lucky to be a part of this department as it aims to advance learning to the highest level attainable trough research, teaching and dissemination of knowledge for the benefit of ourselves in particular society in general.

Sadia Mumtaz,
MPhil Biotechnology,
4th Semester

The UAJK is a place where we are trained to become main stream citizen and researcher with confidence about our position & status in society. Department of Biotechnology is a training ground for researchers and a help to equip them with skills that they can use for their future career. The environment is very conducive for learning. The student-teacher interaction is worth presiding. The time I have spent in the Department of Biotechnology is a journey of exploration for me.

Sara Iftikhar,
MPhil Biotechnology,
4th Semester

When at department of Biotechnology, I feel as if I am a member of something extraordinary beyond just the walls of bricks. The faculty makes a point of exposing their students to the latest trends within their respective fields, and let them feel the "pulse" of the entire scientific community, but also expect the research of their students to be as dynamic as the community itself. To this end, students are given a high degree of academic freedom, while receiving all the support they need to reach their goals. This unique relationship between student and faculty is certainly aided by the intimacy of the department and the small student to faculty ratio, but it would not be possible without the commitment and the trust of all involved.

Muhammad Zaheer Awan,
Ph.D. (2nd semester)
Biotechnology Department

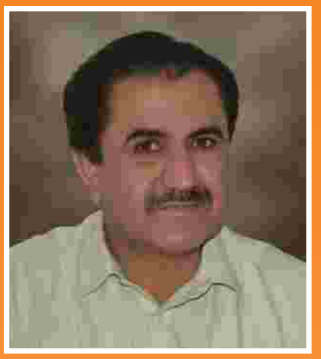
Department of Chemistry

Introduction

On realizing the importance of chemistry in the nation building process, university launched the department of chemistry in 1984 at Muzaffarabad Campus. For the first few years, only MSc Programme was offered in the areas of Physical, Inorganic, Organic and Biochemistry. The department steadily catered for the growing demands of the society by providing skilled manpower. With proper attention given to the education sector, the university also benefitted from and the department started flourishing. Qualified faculty is acquired and well equipped laboratories are established to meet the evolving requirements of the subject. In order to align ourselves with the rest of the world, the department has recently launched the four year Bachelor of Science (BS) program. The program is being mainly run according to the policy guidelines of Higher Education Commission (HEC), Pakistan.

Awards & Honours

The best parameter by which the level of academics and research of a department may be measured is the recognition of expertise of its faculty by independent agencies. In this regard, we take the pride of being the only department whose faculty member has been decorated with the coveted civil award "Sitara-e-Imtiaz" by the Government of Pakistan. Similarly, six faculty members have been declared as "The Best University Teacher" by HEC, Pakistan and UAJK in the recent years. Salam Teacher Award has also been conferred upon two of the teachers. Numerous gold medals at national level to various faculty members further strengthen the list of appreciation. This achievement speaks voluminously about the dedication of our faculty towards academia.



CHAIRMAN

Prof. Dr. Sadiq-ur-Rehman
Ph.D. (PAK), Post-doc (UK)

FACULTY

Prof. Dr. Khawaja Ansar Yasin PhD (Pak)
Dr. Muhammad Riaz PhD (Pak)
Postdoc. (USA/Germany)
Dr. Abdul Rehman Khan PhD (Pak)
Dr. Muhammad Naeem Ahmed PhD (Pak)
Dr. Khalil Ahmad PhD (Germany), Postdoc. (China)
Dr. Muhammad Hafeez PhD (Germany)
Dr. Bilal Ahmad Khan PhD (Germany)
Dr. Zain-ul-Abdin PhD (China)
Dr. Raja Amjad Waheed Khan PhD (China)
Dr. Rashid Mehmood PhD (Pak)
Ms. Seema Naseer Kiani Mphil (Pak)
Ms. Kulsoom Akhter Mphil (Pak)
Ms. Srosh Fazil Mphil (Pak)
Mr. Fazul-ur-Rehman Mphil (Pak)
Ms. Sidra Muzaffar Mphil (Pak)

Human Resource Development

The department has a clear understanding about the role of education in the development of the society. Therefore, every effort is being made to tailor our programs in a way that the graduate may be able to satiate the needs of our society. At present our primary focus is to produce the chemists who are capable of serving the society in a variety of ways. However, in order to further uplift our quality, soft courses of Professional Development (PD) are also envisioned to be added in our schemes of study. Inclusion of such courses is definitely going to further groom our graduates.

Research Areas

The faculty has a keen interest in research and many of them are included in the list of Productive Scientists of Pakistan, published by Pakistan Council for Science & Technology (PCST). The research areas are diverse but applied and include natural products, metal extractions, coordination chemistry, surface chemistry, environmental chemistry, bio-analytical chemistry, analytical chemistry, organic synthesis, sonochemistry and studies of biological activities. All of our faculty members are involved in research activities and are publishing their research findings in the journals of international repute.

Job Opportunities

The schemes of study for all programs are in accordance with the guidelines of HEC and hence are acceptable to all, either the employers or the higher education/ research institutions. The major beneficiary of our graduates is the education industry and we pleasantly take the responsibility of spreading the education from primary to university level. At the same time, the department has been feeding institutions like HEJ Research Institute in Chemistry, Quaid-i-Azam University, PINSTECH, University of Arid and Agriculture, University of Punjab, PIEAS, National Centre for Physics (NCP). Still others are absorbed in the multi-dimensional job market of the country. Likewise, a lot number of students are currently pursuing their PhD studies with flying colours at various foreign and in-land universities.

Co-curricular Activities

The curricular activities have prime importance in physical and mental health as well as development of personality. The department regularly arranges programs and motivates the students to participate in co-curricular activities. Exhibitions, poster displays, seminars and walks are a regular feature of the department at nationally or internationally celebrated days. The students of the department take participation in sports events organized by the university or other departments at the state level.

Future Plans

The department has planned to start classes in newly built King Abdullah Campus, Chattar, in 2014. The

department intends to introduce new courses like computational chemistry, medicinal and material chemistry at M. Phil level in near future.

What we offer in BS?

The Swiss scientist Christopher Glaser in 1663, defined "chymistry" (what now we call Chemistry), a scientific art, by which one learns to dissolve bodies, and draw from them the different substances on their composition, and how to unite them again, and exalt them to a higher perfection. Theodore L. Brown, H. Eugene Lemay, Bruce Edward Bursten, H. Lemay in 1999, regarded chemistry as a "central science" which bridges other natural sciences like physics, geology and biology with each other. Keeping in mind both the definitions, the curriculum for BS program is designed in a way that students admitted to this program will not only be able to excel specifically in the field of chemistry, they will be given the exposure to a broad list of subjects including mathematics, physics, botany, zoology, statistics, geography, economics. In addition, they will be taught English, Islamiyat (or Ethic), Arabic and Pakistan Studies as compulsory subjects. The department also encourages the co-curricular activities, like competitions amongst the students and excursion tours. The interdisciplinary research is offered only on merit basis. Seminars and workshops by Pakistani and foreign scientists are a regular feature of the academic activities which not only enable the students to learn more about the cutting-edge developments in the field of chemistry but also to inculcate organizational and presentation skills in them.

BS (4-Year) Program in Chemistry (Botany & Zoology)

Eligibility:
F.Sc. Pre-Medical with 2nd division.

1st Semester (Freshman-I)

Course Code	Course Title	Credit Hours	
		Theory	Practical
ENG-3101	Functional English	3	0
CHM-3111	Organic Chemistry	3	1
BOT-3121	Diversity of Plants	3	1
ZOO-3131	Principles of Animal Life-I	3	1
MAT-3141	Applied Mathematics	3	0
	Total	**15**	**3**

2nd Semester (Freshman-II)

Course Code	Course Title	Credit Hours	
		Theory	Practical
ENG-3202	Communication Skills	3	0
CHM-3212	Inorganic Chemistry	3	1
BOT-3222	Plant Systematics, Anatomy and Development	3	1
ZOO-3232	Principles of Animal Life-II	3	1
ISL-3261	Islamic Studies	2	0
STA-3271	Basic Statistics	2	0
	Total	**16**	**3**

3rd Semester (Sophomore-I)

Course Code	Course Title	Credit Hours	
		Theory	Practical
CHM-4314	Physical Chemistry	3	1
CHM-4317	Analytical Chemistry	2	0
BOT-4323	Cell Biology, Genetics and Evolution	3	1
ZOO-4334	Animal Form and Function-I	3	1
COM-4351	Applied Computer	1	1
PKS-4381	Pakistan Studies	2	0
	Total	**14**	**4**

4th Semester (Sophomore-II)

Course Code	Course Title	Credit Hours	
		Theory	Practical
ENG-4404	Report Writing	3	0
CHM-4416	Introduction to Environmental Chemistry	2	0
CHM-4418	Biochemistry	3	1
BOT-4425	Plant Physiology and Ecology	3	1
ZOO-4436	Animal Form and Function-II	2	1
ARB-4491	Arabic	3	0
	Total	16	3

5th Semester* (Junior-I)

Course Code	Course Title	Credit Hours	Practical
CHM-5501	Physical Chemistry-I	3(3,0)	Theory
CHM-5502	Physical Chemistry Lab-I	1(0,1)	Laboratory
CHM-5516	Inorganic Chemistry-I	3(3,0)	Theory
CHM-5517	Inorganic Chemistry Lab-I	1(0,1)	Laboratory
CHM-5531	Organic Chemistry-I	3(3,0)	Theory
CHM-5532	Organic Chemistry Lab-I	1(0,1)	Laboratory
CHM-5546	Biochemistry-I	3(3,0)	Theory
CHM-5547	Biochemistry Lab-I	1(0,1)	Laboratory
CHM-5561	Analytical Chemistry-I	3(3,0)	Theory
CHM-5562	Analytical Chemistry Lab-I	1(0,1)	Laboratory

6th Semester* (Junior-II)

Course Code	Course Title	Credit Hours	Practical
CHM-5601	Physical Chemistry-II	3(3,0)	Theory
CHM-5602	Physical Chemistry Lab-II	1(0,1)	Laboratory
CHM-5616	Inorganic Chemistry-II	3(3,0)	Theory
CHM-5617	Inorganic Chemistry Lab-II	1(0,1)	Laboratory
CHM-5631	Organic Chemistry-II	3(3,0)	Theory
CHM-5632	Organic Chemistry Lab-II	1(0,1)	Laboratory
CHM-5646	Biochemistry-II	3(3,0)	Theory
CHM-5647	Biochemistry Lab-II	1(0,1)	Laboratory
CHM-5661	Analytical Chemistry-II	3(3,0)	Theory
CHM-5662	Analytical Chemistry Lab-II	1(0,1)	Laboratory

* Only four disciplines to be selected for 5th and 6th semesters each, with option between Biochemistry and Analytical Chemistry.

7th Semester* (Senior-I)

Course Code	Course Title	Credit Hours	Description
CHM-6794	General Chemistry-I	3(3,0)	Theory
CHM-67aa	Compulsory	3(3,0)	Theory
CHM-67aa	Compulsory	3(3,0)	Theory
CHM-67aa	Compulsory	3(3,0)	Theory
CHM-67aa	Laboratory course	3(0,3)	Laboratory

*Students may opt for any one of the four sections namely, Physical, Inorganic, Organic and Biochemistry

8th Semester (Senior-II)

Course Code	Course Title	Credit Hours	Description
CHM-6894	General Chemistry-II	3(3,0)	Theory
CHM-68aa	Compulsory	3(3,0)	Theory
CHM-68aa	Compulsory	3(3,0)	Theory
CHM-68aa	Compulsory	3(3,0)	Theory
CHM-6893	Literature Review	1(1,0)	Theory
CHM-6898	Advanced Practicals in Chemistry (OR)	3(0,3)	Laboratory
CHM-6899	Thesis	3(0,3)	Laboratory

MSc. Chemistry

Eligibility (Required)

BSc with Botany, Zoology, Chemistry or BSc with Chemistry, physics, Math with 2nd Division

1st Semester*

Course Code	Course Title	Credit Hours	Description
CHM-5101	Physical Chemistry-I	3	Theory
CHM-5102	Physical Chemistry Lab-I	1	Laboratory
CHM-5116	Inorganic Chemistry-I	3	Theory
CHM-5117	Inorganic Chemistry Lab-I	1	Laboratory
CHM-5131	Organic Chemistry-I	3	Theory
CHM-5132	Organic Chemistry Lab-I	1	Laboratory
CHM-5146	Biochemistry-I	3	Theory
CHM-5147	Biochemistry Lab-I	1	Laboratory
CHM-5161	Analytical Chemistry-I	3	Theory
CHM-5162	Analytical Chemistry Lab-I	1	Laboratory
CHM- 0191	Applied Mathematics	2	Theory

2nd Semester*

Course Code	Course Title	Credit Hours	Description
CHM-5201	Physical Chemistry-II	3	Theory
CHM-5202	Physical Chemistry Lab-II	1	Laboratory
CHM-5216	Inorganic Chemistry-II	3	Theory
CHM-5217	Inorganic Chemistry Lab-II	1	Laboratory
CHM-5231	Organic Chemistry-II	3	Theory
CHM-5232	Organic Chemistry Lab-II	1	Laboratory
CHM-5246	Biochemistry-II	3	Theory
CHM-5247	Biochemistry Lab-II	1	Laboratory
CHM-5261	Analytical Chemistry-II	3	Theory
CHM-5262	Analytical Chemistry Lab-II	1	Laboratory
CHM- 0292	Applied Computer	1+1	Theory/ Lab

*Only four courses to be selected for 1st and 2nd semesters each, with option between Biochemistry and Analytical Chemistry.

3rd Semester*

Course Code	Course Title	Credit Hours	Description
CHM-6394	General Chemistry-I	3(3,0)	Theory
CHM-63aa	Compulsory	3(3,0)	Theory
CHM-63aa	Compulsory	3(3,0)	Theory
CHM-63aa	Compulsory	3(3,0)	Theory
CHM-63aa	Laboratory course	3(0,3)	Laboratory

*Students may opt for any one of the four sections namely, Physical, Inorganic, Organic and Biochemistry.

4th Semester

Course Code	Course Title	Credit Hours	Description
CHM-6494	General Chemistry-II	3(3,0)	Theory
CHM-64aa	Compulsory	3(3,0)	Theory
CHM-64aa	Compulsory	3(3,0)	Theory
CHM-64aa	Compulsory	3(3,0)	Theory
CHM-6493	Literature Review	1(1,0)	Theory
CHM-6498	Advanced Practicals in Chemistry (OR)	3(0,3)	Laboratory
CHM-6499	Thesis	3(0,3)	Laboratory

List of Courses:

MSc. Semester-III & IV and BS Semester-VII & VIII

Physical Chemistry

MSc (Semester-III)			BS (Semester-VII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6301	Chemical Kinetics	3	CHM-6701	Chemical Kinetics	3
CHM-6302	Surface Chemistry	3	CHM-6702	Surface Chemistry	3
CHM-6303	Photochemistry	3	CHM-6703	Photochemistry	3
CHM-6304	Molecular Spectroscopy	3	CHM-6704	Molecular Spectroscopy	3
CHM-6305	Polymer Chemistry	3	CHM-6705	Polymer Chemistry	3
CHM-6306	Solution Chemistry	3	CHM-6706	Solution Chemistry	3
CHM-6307	Statistical Mechanics	3	CHM-6707	Statistical Mechanics	3
CHM-6315	Physical Chemistry Lab- III	3	CHM-6715	Physical Chemistry Lab- III	3
CHM-6394	General Chemistry-I	3	CHM-6794	General Chemistry-I	3

Physical Chemistry

MSc (Semester-IV)			BS (Semester-VIII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6401	Quantum Mechanics	3	CHM-6801	Quantum Mechanics	3
CHM-6402	Colloids and Surfactants	3	CHM-6802	Colloids and Surfactants	3
CHM-6403	Electrochemistry	3	CHM- 6803	Electrochemistry	3
CHM-6404	Nuclear Chemistry	3	CHM-6804	Nuclear Chemistry	3
CHM-6405	Chemical Thermodynamics	3	CHM-6805	Chemical Thermodynamics	3
CHM-6406	Catalysis	3	CHM-6806	Catalysis	3
CHM-6407	Computational Chemistry	3	CHM-6807	Computational Chemistry	3
CHM-6408	Solid State Chemistry	3	CHM-6809	Solid State Chemistry	3
CHM-6493	Literature Survey	3	CHM-6893	Literature Survey	3
CHM-6494	General Chemistry-II	3	CHM-6894	General Chemistry-II	3
CHM-6495	Comprehensive Oral Examination		CHM-6895	Comprehensive Oral Examination	
CHM-6498	Advanced Practicals in Chemistry OR	3	CHM-6898	Advanced Practicals in Chemistry OR	3
CHM-6499	Thesis	3	CHM-6899	Thesis	3

Inorganic Chemistry

MSc (Semester-III)			BS (Semester-VII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6316	Chemical Crystallography	3	CHM-6716	Chemical Crystallography	3
CHM-6317	Environmental Chemistry	3	CHM-6717	Environmental Chemistry	3
CHM-6318	Elementary Group Theory	3	CHM-6718	Elementary Group Theory	3
CHM-6319	Thermal Method of Analysis	3	CHM-6719	Thermal Methods of Analysis	3
CHM-6320	Advanced Coordination Chemistry	3	CHM-6720	Advanced Coordination Chemistry	3
CHM-6321	Introduction to Inorganic Reaction Mechanism	3	CHM-6721	Introduction to Inorganic Reaction Mechanism	3
CHM-6330	Inorganic Chemistry Laboratory-III	3	CHM-6730	Inorganic Chemistry Laboratory-III	3
CHM-6394	General Chemistry-I	3	CHM-6794	General Chemistry-I	3

Msc (Semester-IV)			BS (Semester-VIII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6416	Inorganic Chemistry in Biological system	3	CHM-6816	Inorganic Chemistry in Biological system	3
CHM-6417	Instrumental Methods	3	CHM-6817	Instrumental Methods	3
CHM-6418	Inorganic Polymers	3	CHM-6818	Inorganic Polymers	3
CHM-6419	Nuclear Chemistry	3	CHM-6819	Nuclear Chemistry	3
CHM-6420	Industrial Chemistry	3	CHM-6820	Industrial Chemistry	3
CHM-6421	Organometallic Chemistry	3	CHM-6821	Organometallic Chemistry	3
CHM-6422	Advanced Inorganic Chemistry-III	3	CHM-6822	Advanced Inorganic Chemistry-III	3
CHM-6423	Introduction to Computational Chemistry	3	CHM-6823	Introduction to Computational Chemistry	3
CHM-6493	Literature Survey	1	CHM-6893	Literature Survey	1
CHM-6494	General Chemistry-II	3	CHM-6894	General Chemistry-II	3
CHM-6495	Comprehensive Oral Examination		CHM-6895	Comprehensive Oral Examination	
CHM-6498	Advanced Practicals in Chemistry OR	3	CHM-6898	Advanced Practicals in Chemistry OR	3
CHM-6499	Thesis	3	CHM-6899	Thesis	3

Organic Chemistry

MSc (Semester-III)			BS (Semester-VII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6331	Reaction Mechanism-I	3	CHM-6731	Reaction Mechanism-I	3
CHM-6332	Spectroscopy-I	3	CHM-6732	Spectroscopy-I	3
CHM-6333	Introductory Stereochemistry	3	CHM-6733	Introductory Stereochemistry	3
CHM-6334	Name Reactions in Organic	3	CHM-6734	Name Reactions in Organic	3
	Chemistry			Chemistry	
CHM-6335	Chemistry of Heterocyclic	3	CHM-6735	Chemistry of Heterocyclic	3
	Compounds			Compounds	
CHM-6336	Organic Synthesis-I	3	CHM-6736	Organic Synthesis-I	3
CHM-6345	Organic Chemistry Laboratory III	3	CHM-6745	Organic Chemistry Laboratory III	3
CHM-6394	General Chemistry-I	3	CHM-6794	General Chemistry-I	3

MSc (Semester-III)			BS (Semester-VII)		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6431	Reaction Mechanism-II	3	CHM-6831	Reaction Mechanism-II	3
CHM-6432	Spectroscopy-II	3	CHM-6832	Spectroscopy-II	3
CHM-6433	Natural Products	3	CHM-6833	Natural Products	3
CHM-6434	Introduction to Organic Polymers	3	CHM-6834	Introduction to Organic Polymers	3
CHM-6435	Pericyclic Reactions	3	CHM-6835	Pericyclic Reactions	3
CHM-6436	Organic Synthesis-II	3	CHM-6836	Organic Synthesis-II	3
CHM-6437	Photochemistry	3	CHM-6837	Photochemistry	3
CHM-6438	Special Topics in Organic Chemistry	3	CHM-6838	Special Topics in Organic Chemistry	
CHM-6893	Literature Survey	1	CHM-6893	Literature Survey	1
CHM-6494	General Chemistry-II	3	CHM-6894	General Chemistry-II	3
CHM-6495	Comprehensive Oral Examination		CHM-6895	Comprehensive Oral Examination	
CHM-6498	Advanced Practical in Chemistry or	3	CHM-6898	Advanced Practical in Chemistry or	3
CHM-6499	Research	3	CHM-6899	Research	3

Biochemistry

BS Semester-VII			MSc Semester-III		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6746	Basic concepts of Recombinant DNA Technology	3	CHM-6346	Basic concepts of Recombinant DNA Technology	3
CHM-6747	Metabolism	3	CHM-6347	Metabolism	3
CHM-6748	Immunology	3	CHM-6348	Immunology	3
CHM-6749	Body organs structure and physiology	3	CHM-6349	Body organs structure and physiology	3
CHM-6750	Hematology	3	CHM-6350	Hematology	3
CHM-6751	Molecular Biology	3	CHM-6351	Molecular Biology	3
CHM-6752	Applied Microbiology	3	CHM-6352	Applied Microbiology	3
CHM-6753	Enzymology	3	CHM-6353	Enzymology	3
CHM-6760	Biochemistry Lab-III	3	CHM-6360	Biochemistry Lab-III	3
CHM-6394	General Chemistry-I	3	CHM-6794	General Chemistry-I	3

BS Semester-VIII			MSc Semester-IV		
Course Code	Course Title	Cr.	Course Code	Course Title	Cr.
CHM-6846	Introduction to Biotechnology	3	CHM-6846	Introduction to Biotechnology	3
CHM-6847	Protein Chemistry	3	CHM-6847	Protein Chemistry	3
CHM-6848	Clinical Biochemistry	3	CHM-6848	Clinical Biochemistry	3
CHM-6849	Clinical Pharmacology	3	CHM-6849	Clinical Pharmacology	3
CHM-6850	Cell Biology	3	CHM-6850	Cell Biology	3
CHM-6851	Nucleic Acids	3	CHM-6851	Nucleic Acids	3
CHM-6852	Bioenergetics	3	CHM-6852	Bioenergetics	3
CHM-6853	Nutritional Biochemistry	3	CHM-6853	Nutritional Biochemistry	3
CHM-6854	Endocrinology	3	CHM-6854	Endocrinology	3
CHM-6893	Literature Survey	1	CHM-6893	Literature Survey	1
CHM-6494	General Chemistry-II	3	CHM-6894	General Chemistry-II	3
CHM-6495	Comprehensive Oral Examination		CHM-6895	Comprehensive Oral Examination	
CHM-6898	Advanced Practicals in Chemistry	3	CHM-6898	Advanced Practicals in Chemistry	3
CHM-6899	Thesis	3	CHM-6899	Thesis	3

M.Phil Program

Two year M. Phil program started from 2004 is aimed to promote the research atmosphere in the society. The excellent academic and research environment of the department is attracting more and more students. Until now forty four students have completed their M.Phil degree from this department and forty one students are doing their M.Phil now. In first two semesters, incumbents of the program are offered eight taught courses of three credit hours each, followed by two semester targeted research assignment in Inorganic, Organic or Biochemistry. The taught courses provide an in depth theoretical basis for the research problems allotted in the following semesters. The scholar has to select from the offered taught courses on the recommendations of his/ her supervisory committees. The department is offering M.Phil admissions twice a year.

Eligibility

All those who are interested in our M. Phil. program must have passed M.Sc chemistry (or sixteen year of schooling (130 credit hours after HSSC/ F.Sc./ Grade 12) with any area of specialization from an HEC recognized university. The merit for the admission is

decided on academic record, results of departmental test and Relevant Graduate Admission Test.

Ph.D Program

Our PhD Program is aimed to exploit the research potential present in the youth. Although, the program is research based but to strengthen the theoretical aspects of the subject, forty two credit hours of taught courses after MSc are mandatory for the Ph. D scholars. These courses are custom-tailored to satiate the scholarly requirements of the focused research activities. The choice of these courses is made only after the discussion and on the recommendations of supervisory committee of each individual. Our research areas focus the isolation of natural products, radionuclides, metallo-organics, bioanalytical, environmental, nanomaterials and synthetic organic chemistry.

Eligibility

The aspirants of this program must have a minimum CGPA 3.0 out of 4.0 in Semester System or 1st Division in Annual System in M.Phil./ M.S. in chemistry from an HEC recognized university. The admissions are offered to those who fulfill the criterion of academic record, results of departmental and ETS-GRE/ NTS-GAT tests.

Scheme of study for M.Phil./ Ph.D. Program

M.Phil

Duration 4-6 semesters
Total Credits 30
Taught courses 24
Research Thesis 6

Ph.D.

Duration: 6-10 Semesters
Taught Courses 42 Credit hours
(Including 24 credit hours earned at M.Phil/ M.S level)
Comprehensive Examination Compulsory
Research Thesis 25 Credit hours
Seminar 1 Credit hour

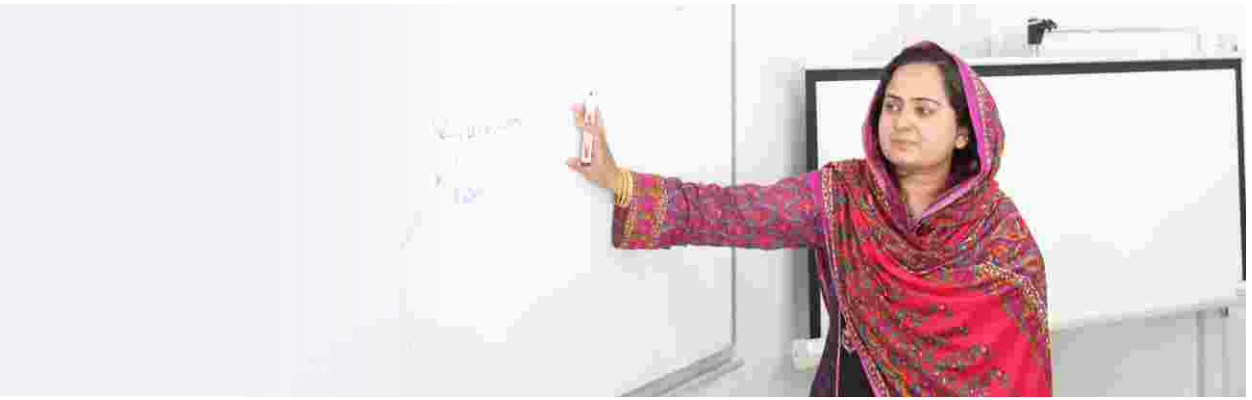
Participants of "Two Days Workshop on Frontiers of Spectroscopy and Applications in Chemistry".

Prof.Dr. Shahid Hameed from QAU Islamabad presenting a gift of distillation unit to Prof.Dr.Khawaja Ansar Yasin, for Department of chemistry UAJK.

General Courses for MPhil/PhD

CHM-7a89	Research Methodology and scientific writing
CHM-7a90	Computer for Chemists
CHM-8496	M.Phil. Seminar (Semester-IV)
CHM-8397	M.Phil. Thesis (Compulsory) (Semester-IV)
Organic Chemistry Semester-I	
CHM-7a41	Advanced Stereochemistry
CHM-7a42	Modern Trends in Organic Synthesis
CHM-7a43	Chemistry of Primary Metabolites
CHM-7a44	Biosynthesis of Natural Products
CHM-7a45	Reactive Intermediates in Organic Chemistry
CHM-7a46	Advanced Heterocyclic Chemistry
CHM-7a47	Medicinal Chemistry-1 (An Entrance to Drug Designing)
CHM-7a48	Principles of Pharmacology
Semester-II	
CHM-7a49	Physico-organic Chemistry and Reaction Mechanism
CHM-7a50	Advanced Organic Photochemistry
CHM-7a51	Chemistry of Secondary Metabolites
CHM-7a52	Chemistry of Glycosides
CHM-7a53	Pericyclic Reactions: Theory and Applications
CHM-7a54	Advanced Instrumental Techniques
CHM-7a55	Medicinal Chemistry - II
CHM-7a56	Medicinal (Organic) Chemistry - 3 (Drug Development/ Medicinal Chemistry)
CHM-7a57	Chemistry of Organometallic Compounds
Floating Courses	
CHM-7a58	Advanced Nuclear Magnetic Resonance Spectroscopy
CHM-7a59	Mass Spectrometry
CHM-7a60	Organic Polymer Chemistry
CHM-7a61	Special Topics in Organic Chemistry
CHM-7a62	Forensic Chemistry
Biochemistry Semester-I	
CHM-7a65	Advances in Clinical Biochemistry
CHM-7a66	Biochemistry of Disease

CHM-7a67	Cell Biology
CHM-7a68	Enzymes
CHM-7a69	Plant Biotechnology
CHM-7a70	Transcriptomics
Semester-II	
CHM-7a71	Fermentation and Biotransformation
CHM-7a72	Molecular Biology
CHM-7a73	Storage and expression of genetic information
CHM-7a74	Advanced Immunology
CHM-7a75	Kallikreins
CHM-7a76	Metabolic regulation
CHM-7a77	Metabolomics
CHM-7a78	Proteomics
CHM-7a79	RNA Processing
CHM-7a80	Biological Oxidations
Floating Courses	
CHM-7a81	Biochemical Techniques
CHM-7a82	Biostatistics
CHM-7a83	Carbohydrates structures and metabolism
CHM-7a84	Protein structures and metabolism
CHM-7a85	Lipid chemistry and metabolism
CHM-7a86	Biochemical endocrinology
CHM-7a87	Recombinant DNA technology



General Courses for PhD

a	CHM-7abc	Courses in the discipline of research
b	CHM-7abc	
c	CHM-7abc	
d	CHM-7abc	
e	CHM-7abc	
f	CHM-7a91	Project Writing
g	CHM-7092	Chemistry and Economy of Pakistan
h	CHM-7a93-96	Advanced Material Chemistry
i	CHM-7097	Review Writing
	(Six courses to be opted from a to I)	
	CHM-9698	PhD Seminar (Compulsory)
	CHM-9399	PhD Thesis (Compulsory)

Being a part of Chemistry Department I find a friendly and supportive teaching environment which consistently leads to a high proportion of gaining excellent skills. The department's academic prowess, coupled with its breadth of study, offers the perfect opportunity to explore new areas.
Moreover, a superb range of talks and seminars held throughout the year, presenting the chance to hear from experts both within and outside of the department.

Muhammad Saleem Mughal,
PhD Chemistry, 2nd Semester

The UAJK provided me a platform to unleash my competencies the way they were meant to be unleashed. It is a place where you interact with the best personalities coming as teachers. I will, being a student of UAJK, advise the youngsters of the state to start and complete their higher education from such a wonderful and fascinating Institute as UAJK provides disciplined roadmap to get higher education.

Arooj Arshad,
Msc. Chemistry, 2nd Semester

Department of Physics

Introduction:

Physics (Greek: physikos) is concerned with those aspects of nature which can be understood in a fundamental way in terms of elementary principles and laws; formerly called natural philosophy. It covers the tiniest like quarks in a proton and neutron to the largest like the universe of which our solar system is a minute part. Its original aim even covering this huge range is to understand the structure of the natural world and explain natural phenomena. It is the goal of the Department of Physics to contribute to the understanding and applications of the fascinating aspects of nature, and to offer a solid and attractive curriculum to our young graduates. The Department of Physics, established in 1986 was initially situated at old Campus of the University of Azad Jammu and Kashmir, Muzaffarabad (now known as city campus of the university). Subsequently it was shifted to its newly constructed building at Chehla Bandi Campus in 2003.The Department has fine teaching laboratories one each for, Solid State Physics, Electronics, Nuclear Physics, Computational Physics and Spectroscopy & Modern Physics. Solid State Nuclear Track Detectors (SSNTD) laboratory, Semiconductor and Nanoscience laboratory are also growing up where students can engage themselves in research. Our research projects involve collaboration with other universities/institutions and research & development organizations in Pakistan which include "National Centre for Physics (NCP), Islamabad" and "Pakistan Institute of Nuclear Science and Technology (PINSTECH)" .Currently the department of Physics is offering M.Sc., M.Phil. and Ph.D. degree Programme. The programmes in physics are designed with the aim of training our students to have a good grasp of fundamental concepts, general skill and understanding for their important applications in the modern society. To earn the degree of M.Sc. in Physics one must complete 67 credit hours

CHAIRMAN

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FACULTY

Prof. Dr. Muhammad Rafique
Ph.D. (Pak), Post Doc (USA)
Shahida Jabeen, M.Sc. (Pak)
Syed Arif Hussain Bukhari, M.Phil. (Pak)
Dr. Ayaz Arif, Ph.D. (Germany)
Shazia Aziz, M.Phil. (Pak)
Javed Iqbal (On study leave)
Ph.D. Scholar (Pak)
Dr. Syed Raza Ali Raza, Ph.D. (South Korea)
Dr. Yusuf Iqbal, Ph.D. (South Korea)
Muhammad Asif Majeed (On study leave)
Syed Shujaht Hussain Bukhari (On study leave)
Ph.D. Scholar (Pak)
Tariq Iqbal,
Ph.D. Scholar (Pak)
Nasar Ahmed (On study leave)
Ph.D. Scholar (Pak)
Shahab Ahmed Abbasi
Ph.D. Scholar (Pak)

Coursework offered in the form of lectures, laboratories, group discussions, problem solving, seminars, and projects comprising core courses, elective courses and advance specialized courses. The M. Phil programme in the Department was started in 2004 with the objective to meet the shortage of highly qualified manpower in the field of Physics by producing graduates with the capacity to conduct research independently. The Department has also started Ph.D. programme to produce valuable researchers and scientists. At present there are seven Ph.D. scholars in the department.

In addition to these teaching and research facilities, the Department has a well stocked library containing books on physics and related subjects. This collection concentrate on most current teaching and research interests and make available the background knowledge to those who are interested in making headway in their respective field of research. The facilities of internet, teleconferencing, and online library are also available for student and faculty members at city campus.

Job Opportunities

The graduates of the department may be absorbed in various establishments like education, administration, department related to research and development (R&D), Pakistan Atomic Energy Commission (PAEC), The National Engineering and Scientific Commission (NESCOM), AQ Khan Research laboratories (KRL), Pakistan Space and Upper Atmosphere Research Commission (SUPARCO), The Heavy Industries Taxila (HIT), Tele Communication, The Pakistan International Airline (PIA), Pakistan Navy, Pakistan Air Force, Pakistan Army and so many others.

Programmes

The department is offering the following full time degree programs:

BS (4 Years Program)
M.Sc.
M.Phil.
Ph.D.

Eligibility for Admission in BS 4 Years

The eligibility criteria for admission to BS 4 years in Physics are:

- F.Sc with combination of Physics, Mathematics at least in 2nd division.
- The age limit at the terminal date of submission of applications will be 23 years.
- The number and composition of seats will be as follows;
  Total seats=52;

Scheme of Study for BS 4 Years

Duration	8-10 Semesters
Courses	130 credits
Advance Elective Courses	06 credits
Optional Courses or Thesis	06 credits
Comprehensive Oral Examination:	S/U basis
Total	130 credits

* S/U (satisfactory/unsatisfactory)

BS Physics 4 Years Program

1st Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-3101	Mechanics and theory of relativity	3(3,0)	F.Sc Physics
MAT-3102	Calculus-1	3(3,0)	F.Sc Math.
COM-3103	Introduction to computing	3(3,0)	
ENG-3104	English-I (comprehension and composition)	3(3,0)	
ISL-3105	Islamic Studies	2(2,0)	
PHY-3106	Physics Lab-I	1(0,1)	
	Total	**15**	

2nd Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-3201	Waves & Oscillations	3(3,0)	
MAT-3202	Calculus-II	3(3,0)	MAT-3102
ENG-3203	English-II (Scientific writing & Communication skills)	3(3,0)	ENG-3104
ARB-3204	Arabic	3(3,0)	
----------	Minor-1	3(3,0)	
PHY-3205	Physics Lab-II	1(0,1)	
	Total	**16**	

3rd Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-4301	Electricity and Magnetism-I	3(3,0)	
MAT-4302	Ordinary differential Equations	3(3,0)	MAT-3102
COM-4303	Computer Programming	3(2,1)	COM-3103
PHY-4304	Heat & Thermodynamics	3(3,0)	
PST-4305	Pak Studies	2(2,0)	
PHY-4306	Physics Lab-III	1(0,1)	
	Total	**15**	

4th Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-4401	Modern Physics & Electronics	3(3,0)	
PHY -4402	Electricity and Magnetism-II	3(3,0)	PHY-4301
MAT-4403	Partial differential Equations	3(3,0)	MAT-3202
MAT-4404	Introduction to linear Algebra	3(3,0)	
------	Minor-II	3(3,0)	
STA-4405	Statistics and probability	3(3,0)	
PHY-4406	Physics Lab-IV	1(0,1)	
	Total	**19**	

5th Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-5501	Methods of Mathematical Physics - I	3(3,0)	MAT-3202
PHY-5502	Classical Mechanics	3(3,0)	PHY-3101
PHY-5503	Electronics	3(3,0)	
PHY-5504	Physics Lab-V (Electronics)	3(0,23)	
PHY-5505	Electromagnetic theory-I	3(3,0)	PHY-4301
PHY-5506	Quantum Mechanics-I	3(3,0)	PHY-4401
	Total	**18**	

6th Semester

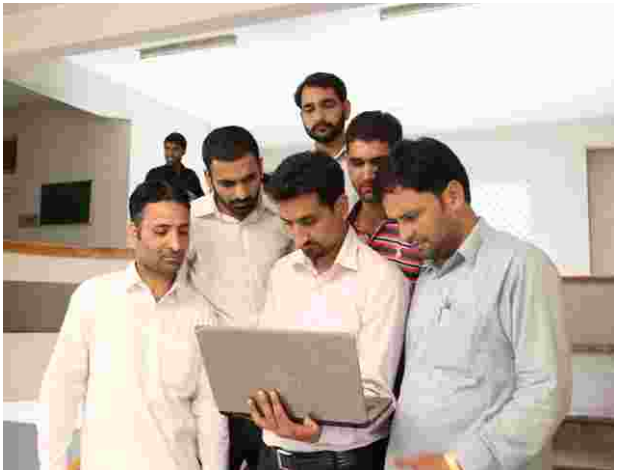
Code	Course Title	Credit hours	Pre-Requisite
PHY-5601	Methods of mathematical Physics - II	3(3,0)	PHY-5501
PHY-5602	Solid State Physics	3(3,0)	
PHY-5603	Nuclear Physics	3(3,0)	
PHY-5604	Physics Lab-VI (Solid State Phys)	3(0,3)	
PHY-5605	Electromagnetic theory-II	3(3,0)	PHY-5505
PHY-5606	Quantum Mechanics-II	3(3,0)	PHY-5506
	Total	**18**	

7th Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-6701	Computational Physics	3(2,1)	COM-4303
PHY-6702	Statistical Mechanics and Thermal Physics	3(3,0)	PHY-4304
PHY-6703	Physics Lab-VII (Nuclear Physics)	3(0,3)	
PHY-6700	Thesis OR	3(3,0)	For thesis CGPA≥3.3
PHY-670Y	Optional course(See below)		up to 6th semester
PHY-670X	Elective Advance Course-I (See below)	3(3,0)	
Total		15	

Elective Advance Course-I

Code	Course Title	Credit hours	Pre-Requisite
PHY-6705	Electronics, Advance Course-I	3(3,0)	
PHY-6706	Solid State Physics, Advance Course-I	3(3,0)	
PHY-6707	Nuclear Physics, Advance Course-I	3(3,0)	



8th Semester

Code	Course Title	Credit hours	Pre-Requisite
PHY-6801	Plasma Physics	3(3,0)	
PHY-6802	Atomic and Laser Physics	3(3,0)	
PHY-680X	Elective Advance Course-II	3(3,0)	
PHY-6700	Thesis OR	3(3,0)	
PHY-680Y	Optional course (See below)		
PHY-6804	Physics Lab-VIII (General Phys.)	3(0,3)	
PHY-6808	Comprehensive viva	S/U	
	Total	**15**	

Elective Advance Course-II

Code	Course Title	Credit hours	Pre-Requisite
PHY-6805	Electronics, Advance Course-II	3(3,0)	
PHY-6806	Solid State Physics, Advance Course-II	3(3,0)	
PHY-6807	Nuclear Physics, Advance Course-II	3(3,0)	

Optional Courses

Code	Course Title	Credit hours	Pre-Requisite
PHY-6W10	Radiation & Medical Physics	3(3,0)	
PHY-6W11	Magnetism in Condense Matter	3(3,0)	PHY-5602
PHY-6W12	Experimental Plasma Physics	3(3,0)	
PHY-6W13	Environmental Physics	3(3,0)	ENV-AB03
PHY-6W14	Renewable energy sources	3(3,0)	
PHY-6W15	Surface Physics	3(3,0)	
PHY-6W16	Non-Destructive Testing	3(3,0)	
PHY-6W17	Polymer Physics	3(3,0)	
PHY-6W18	Bio-Physics	3(3,0)	BIO-AB02
PHY-6W19	Computer Simulation	3(3,0)	
PHY-6W20	Optoelectronics	3(3,0)	PHY-5602

Note: Student can choose one optional paper from the list given above, each in 7th and 8th semester, as an alternative of thesis. This option shall be related to the availability of qualified staff and their decision shall be taken in staff meeting which is supposed to be held two weeks before the commencement of semester. In the course code W will be replaced by 7 in 7th semester otherwise W will be replaced by 8.

Minor Courses: Subject to the availability of teachers.

Code	Course Title	Credit hours	Pre-Requisite
BSC-AB01	Introduction to Biosciences	3(3,0)	
BIO-AB02	Fundamentals of Biology	3(2,1)	
ENV-AB03	Fundamentals of Environmental Sciences	3(3,0)	
CHM-AB04	Chemistry-1	3(2,1)	
ECO-AB05	Economics	3(3,0)	
ECO-AB06	Fundamentals of Economics	3(3,0)	
HUM-AB07	Introduction to Sociology	3(3,0)	
MGT-AB08	Introduction to Business	3(3,0)	
GEO-AB09	Introduction to Geology	3(3,0)	
MET105	Climatology	3(3,0)	

Note: For 2nd semester A=3 and B=2 and for 4th semester A=B=4

Eligibility for Admission

The eligibility criterion for admission to M.Sc. in Physics is B.Sc. with combination of Physics, Mathematics applied and pure (Math-A & -B) or Physics, Mathematics general course at least in 2nd division.

For M. Phil and Ph.D. a candidate must have the degree of M.Sc. in Physics at least in 2nd division and have passed the National Testing Service (NTS) examination.

Scheme of Study for M.Sc.

Duration	4-6 Semesters
Courses	54 credits
Advance Elective Courses	06 credits
Optional Courses or Thesis	06 credits
Conference and reading	01 credit
Comprehensive Oral Examination:	S/U basis
Total	67 credits

* S/U (satisfactory/unsatisfactory)

M.Sc. Physics

1st Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-5101	Method of Mathematical Physics - I	3	-	3
PHY-5102	Classical Mechanics	3	-	3
PHY-5103	Electronics	3	-	3
PHY-5104	Laboratory Course-I (Electronics)	-	9	3
PHY-5105	Electromagnetic theory-I	3	-	3
PHY-5106	Quantum Mechanics-I	3	-	3

2nd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-5201	Method of Mathematical Physics - II	3	-	3
PHY-5202	Solid State Physics	3	-	3
PHY-5203	Nuclear Physics	3	-	3
PHY-5204	Laboratory Course-II (Solid State Phys.)	-	9	3
PHY-5205	Electromagnetic theory -II	3	-	3
PHY-5206	Quantum Mechanics-II	3	-	3

3rd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-6301	Computational Physics	2	1	3
PHY-6302	Statistical Mechanics and Thermal Physics	3	-	3
PHY-6304	Laboratory Course-III (Nuclear Phys.)	-	9	3
PHY-6308	Reading and Conference	-	-	1
PHY-630X	Elective Advance Course-I (See below: PHY-6305 or PHY-6306 or PHY-6307)	3	-	3
PHY-6400	Thesis OR	3	as per its nature	3
PHY-63YZ	Optional Course	3	-	3
	(where Y will be 1 or 2 and Z will be 0-9 as course code number given below)			
PHY-6305	Electronics OR	3	-	3
PHY-6306	Solid State Physics OR	3	-	3
PHY-6307	Nuclear Physics	3	-	3

4th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-6401	Plasma Physics	3	-	3
PHY-6402	Atomic and Laser Physics	3	-	3
PHY-6404	Lab. Course-IV (General Physics)	-	9	3
PHY-640X	Elective Advance Course-II	3	-	3
	(See below: PHY-6405 or PHY-6406 or PHY-6407)			
PHY-6408	Comprehensive viva	S/U		
PHY-6400	Thesis OR	3	as per its nature	3
PHY-64YZ	Optional Subject (where Y will be 1 or 2 and Z will be 0-9 as course code number given below)	3	-	3
PHY-6405	Electronics OR	3	-	3
PHY-6406	Solid State Physics OR	3	-	3
PHY-6407	Nuclear Physics	3	-	3

List of Optional Courses

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-6W10	Radiation & Medical Physics	3	0	3
PHY-6W11	Magnetism in Condense Matter	3	0	3
PHY-6W12	Experimental Plasma Physics	3	0	3
PHY-6W13	Environmental Physics	3	0	3
PHY-6W14	Renewable energy sources	3	0	3
PHY-6W15	Surface Physics	3	0	3
PHY-6W16	Non-Destructive Testing	3	0	3
PHY-6W17	Polymer Physics	3	0	3
PHY-6W18	Bio-Physics	3	0	3
PHY-6W19	Computer Simulation	3	0	3
PHY-6W20	Optoelectronics	3	0	3

Note: Student can choose one optional paper from the list given above, each in 3rd and 4th semester, as an alternative of thesis. This option shall be related to the availability of qualified staff and their decision shall be taken in staff meeting which is supposed to be held two week before the commencement of semester. The code of the course if it is offer in 3rd semester than w will be replaced by 3 otherwise w will be replaced by 4.

M.Phil. Programme:

The main aim of M.Phil. Physics programe is to provide higher education and facilitate the students to carry out cutting-edge research in the field of Physics. The M.Phil. program in the Department of Physics (DOP) will be focused on main specialization area along with overview of broader areas through course work and providing absorption through modern day research in the field of Physics and its allied subjects.

Department of Physics has decided to launch the M.Phil. programme with the aim of producing knowledgeable, proficient, qualified student's to fulfill man power in different research and educational Departments including, PAEC, SUPARCO, NESCOM and other teaching and R&D organizations. The DOP seeks quality graduates with a strong inclination towards experimental and theoretical venue of Physics.

The M.Phil. programme includes core courses aimed at strengthening the understanding and competence of students in the field of basics Physics and elective courses with the purpose of specializing the students in an area of their predilection, strong motive faculty members and entrenched labs is definitely an aid to the standard of M.Phil. degree in Physics.

Scheme of Sudy for M. Phil

Duration:	4-6 Semesters
Courses:	24 Credits
Reading and Conference:	01 Credit
Thesis:	6 Credits
Total Credit Hours:	31 Credits

M.Phil. Scholars will select the courses up to 24 credits relevant to specialization with the approval of Supervisory Committee. The courses offered by department are subject to the availability of the teaching staff and laboratory facilities from the following list of courses. He/she will take one credit of reading and conference with his/her thesis supervisor. Remaining 06 credit hours are assigned to the thesis work to be done by the scholar under the supervision of appointed supervisor from the faculty members of Physics Department.

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-7W01	Method of Mathematical Physics-I	3	0	3
PHY-7W02	Electrodynamics	3	0	3
PHY-7W03	Advance Quantum Mechanics-I	3	0	3
PHY-7W04	Methods & Techniques of Experimental Physics-I	3	0	3
PHY-7W05	Physics of Semiconductors	3	0	3
PHY-7W06	Nuclear Physics-I	3	0	3
PHY-7W07	Material Science-I	3	0	3
PHY-7W08	Plasma Physics-I	3	0	3

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-7W09	Physics of thin Films-I	3	0	3
PHY-7W10	Atomic and Molecular Spectroscopy	3	0	3
PHY-7W11	Particle Physics	3	0	3
PHY-7W12	Advanced Quantum Mechanics -II	3	0	3
PHY-7W13	Methods and Techniques of Experimental Physics-II	3	0	3
PHY-7W14	Physics of Semiconductors Devices	3	0	3
PHY-7W15	Nuclear Physics-II	3	0	3
PHY-7W16	Material Science -II	3	0	3
PHY-7W17	Plasma Physic-II	3	0	3
PHY-7W18	Physics of thin films--II	3	0	3
PHY-7W19	Dielectric Properties of Solids	3	0	3
PHY-7W20	Material Studies by Electron Emission	3	0	3
PHY-7W21	Defects in Materials and Measuring Techniques	3	0	3
PHY-7W22	Surface Science and PHY-7214	3	0	3
PHY-7W23	Nano-Science and Technology	3	0	3
PHY-7W24	Reading and conference	0	0	1
PHY-7W25	Imaging & characterization techniques for nanostructures	3	0	3
PHY-7W26	Magnetism and Magnetic materials	3	0	3
PHY-7W27	Magnetism & Spintronics	3	0	3
PHY-7W28	Techniques of Experimental Physics & data analysis	3	0	3
PHY-7W29	Magnetism in condense matter	3	0	3
PHY-7W30	Thin Films and Nanofabrication	3	0	3
PHY-7W31	Advanced computational Physics	2	1	3
PHY-7W32	Radiation Physics-I	3	0	3
PHY-7W33	Radiation Physics-II	3	0	3
PHY-7W34	Environmental Physics	3	0	3
PHY-7W35	Non-Linear Dynamics in Physics	3	0	3
PHY-7W36	Numerical Solutions of Partial Differential Equations	2	1	3
PHY-7W37	Solar Energy Conversion Techniques	3	0	3

Note: The code of the course if it is offered in 1st semester then W will be replaced by 1 otherwise W will be replaced by 2

3rd & 4th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
PHY-7400	M.Phil. Thesis	6	as per its nature	6

Note: 6 credit hours are assigned to the thesis work to be done by the scholar under the supervision of assigned supervisor from the faculty members of Physics Department. After completion of thesis works, each M.Phil. scholar shall present his/her work to the faculty/ supervisory committee and after getting satisfactory remarks from the committee the scholar shall submit the thesis to the department for onward transmission to the office of controller examination for external evaluation provided that scholar fulfill all the requirement as per M.Phil. regulation imposed by the university or HEC.

Ph.D. Programme

Main aim of starting Ph.D. programme is to boost research in the field of Physics at the University of Azad Jammu & Kashmir to eliminate the scarcity of higher education in the very field. Expected outcome of this program is that the Ph.D. scholars carry out educational research through series of empirical studies, in their own educational setting, resulting in a Ph.D thesis and at the end of the program in a Ph.D degree. The aim of writing a Ph.D thesis is to learn how to independently conduct a high quality educational research. Ph.D program at the Department of Physics, seeks students having exceptional scholastic background, multi dimensional practical experiences passion of turning vision into reality, strong grasp of fundamental knowledge of Physics, an aptitude for teaching and conducting research individually and in teamwork, an enthusiasm for challenges and most importantly, passionate aspiration to learn.

Our Ph.D curriculum has been carefully designed to match skills and aspiration of the students as well as to keep pace with rapid advancements in the field of Physics. Innovation and creativity is the major focus of Ph.D program. A range of subjects such as Nano Science & Technology, Semiconductor Physics, Nuclear Physics, Computational Physics, Magnetic Materials, Laser Spectroscopy and Medical Physics will help the students in acquiring the skills and qualities needed to contribute in the world s very attractive, demanding and dominant discipline of Physics.

At present the Department of Physics is successfully conducting the Programs of masters, M.Phil. and Ph.D in Physics. Ph.D program will provide opportunity of attaining terminal degree at the door step and will strengthen our parent institution (University of Azad Jammu & Kashmir) by laying strong foundation of research.

Scheme of Study for Ph.D.

	(For M Phil Degree Holder)	**(For M.Sc. Degree holder)**
Duration:	6-10 Semesters	6-10 Semesters
Courses:	18 Credits	42 (24+18) Credits
Thesis:	60 Credits	60 Credits

Comprehensive Examination

Reading and Conference:	01 Credit	01 Credit
Total Credit Hours:	79 Credits	103 Credit

Note: The supervisory committee of the scholars shall select the course work for Ph.D. comprising on 18 credit hours. Ph.D. Scholar is also bond to clear the GRE Subject test and full fill all the prerequisites as per imposed by HEC and the university before the submission of thesis.

High Tech Centralized Instrumentation Laboratory (HTCIL)

DIRECTOR
Dr. Abdul Rauf Khan
Phone +92 5822 960402
Ph.D. (China)

Ex-Vice Chancellor's Comments

Prof. Dr. Habib-ur-Rehman, SI, FCSP

Message during his First Visit to the HITEC Lab
On 19th May, 2011
This is my 1st visit of the HI-TECH lab. I am happy to see the instruments which could be used to carry out research in different field of studies, particularly the Scanning Electron Microscopy (S EM) and its importance in the field of nano- technology. I hope these instruments if use would result publications of international standards. Besides, the UV and IR instruments are also very important and can be used for carrying out researches. Use of table should be restricted to only research students and teachers who would use the lab and equipments with optimum care. I hope the lab will prove to be an asset of the UAJK.

Prof. Dr. Habib-ur-Rehman, SI, FCSP

One of the primary objectives of HTCIL is to provide best support facilities, keeping in view the technological needs for researchers of the University of Azad Jammu and Kashmir. Consequently, the idea of HTCIL has several support facilities and functioning of each facility is coordinated by the Department of Physics under the supervision of Director HTCIL.

At the moment HTCIL has following high tech state of the art equipments.
The Scanning Electron Microscope (SEM).

- UV-Vis-IR Spectroscopy
- Fourier Transform Infrared (FTIR) Spectroscopy
- Sample preparation for SEM
- Nobel Element Sputtering
- Optical Zooming Microscopy
- Other relevant methods

The Scanning Electron Microscope (SEM)

The Scanning Electron Microscope (SEM) is located in the City campus of the university at Muzaffarabad. The facility supports in-house research and provides a service to the Researcher from Physics, Material Science, Nanoscience as well as to all departments within University of Azad Jammu and Kashmir. Industries, Research & Development Organizations and all Educational Institutions are also allowed to avail the facility against the payment of some charges.

We have Jeol JSM-6510LV scanning electron microscope (SEM) also called as environmental SEM for fast characterization of samples having structure size upto 3nm and enables observation of specimens up to 150mm in diameter. Jeol JSM-6510LV is the one of the latest model in it class in the country having no parallel

example at the moment, its graphical user interface (GUI) system is implemented on Windows Vista operating system. The selectable low vacuum mode allows for observation of specimen that cannot be viewed at high vacuum due to excessive water content or because they have a non-conductive surface. With a high resolution of 3.0nm at 30kV (high vacuum) and 4.0nm at 30kV (low vacuum), the JSM-6510LV delivers amazing clarity of the finest structures having the magnification from x5 to x300,000 times with fine focal depth. It has dual live image display of the secondary electron image (SEI) and a back scattered composition image (BSCI) allows the user to contrast and compare specific details. An energy dispersive X-ray spectrometer (EDS) provides elemental analysis (hopefully will be added in the system in near future). The Facility also has the necessary support equipment

- Platinum and Gold Sputter coating system with highly pure Argon gas.\
- Carbon taping, Graphite and Silver conducting epoxies/paints setups.
- Reflected light microscopes with digital photographic facilities for specimen documentation.
- Sample preparation including impregnation, cutting, grinding and polishing equipment (will be added in near future).

Uv/vis/nir Spectrophotometer

The Perkin-Elmer, LAMBDA 950 is one of highest performances UV/Vis/NIR Spectrophotometer System. Ultra-high UV/Vis/NIR performance for wavelengths range 175 nm - 3300 nm, high resolution <0.05 nm, high precision measurements, and for applications such as highly reflective and anti-reflective coatings, colour correction coatings, band pass characteristics of UV, Vis and NIR filters, and more. It has double beam, double monochromator, ratio recording UV/Vis/NIR spectrophotometer with microcomputer electronics, controlled by personal computer.

The Fourier Transform Infrared (FTIR) Spectrometer

Infra-red spectroscopy probes the composition of a sample. Chemical bonds have characteristic frequencies at which they vibrate. They can be set on vibrations by illuminating the sample with Infra-Red light at the right frequency. The IR spectrum of a compound possessing such bonds shows absorption bands at these frequencies. The collection of different absorption bands can be used to identify the tested compound.

The PerkinElmer Spectrum 100 Series FT-IR spectrometers are the gold standard in IR spectroscopy for materials testing, academia and research applications. This equipment is equipped with Universal Attenuated Total Reflectance (UATR). The use of ATR eliminates in many cases the need for sample preparation or at least simplifies the procedures. It is also useful for strongly absorbing samples which cannot be measured by infrared transmission spectroscopy. To protect the sensitive optics and minimize the contaminated spectra with unwanted background, system is backed by highly, pure Nitrogen gas and in-house with dehumidifier.

The key mission of department of physics is to impart knowledge, to build confidence and to groom our personality. It is a change to develop our thinking and skills in an atmosphere that is both supportive and cutting edge. I hope in the future my university and department will be among the best in the world.

It is a great honour for me to be a part of Physics. The ultimate desire of human, as directed by almighty Allah is to seek knowledge. An exemplary Institution is one and only that helps in quenching the thirst of knowledge but also directs one to fulfill its thirst. "Teachers are spiritual Parents" a well-known saying. I got the perception of this golden saying by joining UAJK.
May Allah and Panjtan Pak's (a.s) benedictions be always with me to play my role in imparting knowledge, building confidence and in grooming my personality.

The University of Azad Jammu & Kashmir "an exclusive and unique institution", where the unclouded environment and highly prestigious faculty make it a distinguished one that motivates you to boost your potential and skills. This is glorious time period of my life ever spent and Physics department is playing an important role in the prosperity of country in different fields. And I feel proud of being a student of Physics.

Muhammad Arsal,
MPhil Physics, 2nd Semester,
Session 2016-18

Syed Ahmed Ali Bukhari,
Msc. Physics, 2nd Semester

Kishmala Yousaf Chohan,
Msc. Physics, 3rd Semester

Department of Computer Sciences & Information Technology

Introduction of the Department

The Department of Computer Science and Information Technology (CS&IT) is one of the established constituent units of the Faculty of Science and Engineering, University of Azad Jammu and Kashmir (UAJK). Its history dates back to 1991, when Computer Center was established at the UAJK with the objective of producing IT professionals to fulfill immediate demand of IT industry by offering Postgraduate Diploma program in Computer Science. In the year 2000, the Computer Center was upgraded to the Department of CS&IT to develop IT professionals of international standard keeping in view requirements of flourishing IT industry and to develop researchers in the field of Computing and other related application domains. Initially, the Department started MCS and BS (CS) programs. In 2011, the department started its M.Phil. Program. PhD in Computer Sciences was initiated in 2012.

The Department of CS&IT, nestled in the heart of Muzaffarabad city, is now the home of 19 faculty members (including 07 PhD and 09 MS/MPhil) and more than 400 students enrolled in various degree programs. The Department, with the current faculty strength of a Professor, seven Assistant Professors, ten lecturers and one lab engineer sufficiently caters to its requisite teaching and research requirements. CS&IT faculty members are international leaders in their respective fields of expertise including networking & security, software engineering, data mining & machine learning, information retrieval, bio-informatics and biomedical signal & image processing.

Mission of the Department

The mission of the Department of Computer Science and Information Technology is to provide education in theoretical

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FACULTY

Dr. Saeed Arif Shah, PhD (China)
Dr. Rabia Riaz, PhD (South Korea)
Dr. Sajjad A. Nadeem, PhD (France)
Dr. Majid Abbasi, PhD (China)
Dr. Ali Abbas,PhD (China)
Mr. Imtiaz Ahmed Awan, MS (Pak)
Ms. Uzma Naqvi, M.Phil (Pak)
Ms. Sana Shoukat, MS (Pak)
Ms. Uzma Naqvi, MS (Pak)
Mr. Zahid Younis, M.Phil (Pak)
Ms. Sobia H. Kazmi, M.Phil (Pak)
Mr. Aftab Naseem, MIT (Pak)
Mr. Mohsin M. Abbasi, MS (Sweden)
Mr. Zakki H. Kazmi, MS (Pak)
Ms.Maryum Bibi, M.Phil (Pak)
Ms. Shehla Naureen, MBA (Pak)
Mr. Adil Fayaz Mir, M.Phil. (Pak)

and experimental foundation of Computing Technology, apply it to solve real world problems and conduct computing & inter-disciplinary research. The programs mission is to deliver the knowledge in computer and information science as evidenced by an understanding of computing systems and science coupled with the capacity to produce feasible and responsible solutions to complex computing problems. The core intention is to enhance the problem solving and research based skills among research scholars in order to conduct research independently. The program also focuses on to provide extensive support, principally via one-to-one supervision of research students and well integrated, active research groups. Program amalgamates the availability of environment where scholars may polish their communication and writing skills which may help them to transform their research outcomes into research articles. The learning atmosphere will enable scholars to lifelong learning skills as evidenced by the ability, to adapt to innovation and change. The department is giving high priority to enhance its academic and research strengths in order to bring it among premier Computer Science Departments at national and international level.

Research Environment/Groups

Department of CS &IT has been able to create and sustain successfully an active and potent research culture since the inception of postgraduate classes in March 2011. In the very short period of time, it has made relentless efforts to build a research environment of international stature. The faculty members, postgraduate and undergraduate students have published a significant numbers of research papers in different fields of Computer Science and Information Technology. The department also arranges seminars and workshops in various areas of relevance. The faculty members, postgraduate students and prominent researchers participate in these seminars.

At present the Department is offering research in following fields

- Biomedical Signal and Image Processing
- Bio-Informatics
- Wireless Networking
- Data and Information Security
- Data mining and Machine learning
- Applied Software Engineering

IT Services in Classrooms and Labs

The PERN through PTCL has provided 46 MB bandwidth internet facility to the department, supported by fiber backbone and video conferencing facility. The department has 06 modern air-conditioned computing labs and five class rooms with multimedia facility. There are three general programming labs with 30 computers each, one digital and system programming lab, one research lab for MS and PhD scholars, one data center and one female faculty lab. Closed-circuit television (CCTV) cameras have been installed in all the labs. Moreover, the department has access to international journals and research articles through HEC Digital Library. The department is connected through a LAN in order to provide modern teaching and learning environment and fast access to the Internet. The LAN caters to many important computing needs of the department such as compilers of the popular programming languages, RDBMS software (Oracle, SQL server), Operating systems (Linux, Unix and various Windows version), MS Office suite and other necessary software. Furthermore, the department has indoor and outdoor Wi-Fi connectivity.

Library Services

The students are provided books free of cost from departmental as well as library central. The students are granted library membership for the duration of their programs to get book from central library. The departmental library comprises:

- Over 6,000 books
- Training and technical CDs and DVDs
- Research journals and conference proceeding

National and International Collaborations

The Department has also taken initiatives to conduct interdisciplinary research with biologists, physicists, neuroscientists and networking engineers. The Department has developed its research collaborations with bio-Engineering research group at the University of Leicester UK and National Institute of Laser and Optronics (NILOP), Islamabad.

Job Opportunities for Graduates

Students graduating from the Department are well prepared for employment in a wide range of high-tech companies and able to help maintain and enhance the AJ & K's position in this important and expanding area.

Undergraduate Computer Sciences Programs

The Department of CS&IT offers four years BS (CS) and two years MCS programs at undergraduate level. The programs in computer science prepare professionals who will adapt to constant changes in technology and who will be leaders in developing the new technologies of the Information Age. The multi disciplinary nature of our curricula offers students a high degree of flexibility to design a program of study tailored to their interests and professional aspirations.

Computer Sciences focuses on modeling, analyses, documenting and tracking the system requirements, designing, implementing, deployment, and maintaining software systems. Moreover, programming, algorithms, and the principles of computing that underlie these areas are addressed. Computer Sciences program also assures to produce graduates that are prepared either to begin careers or to pursue advanced studies in the field. The mission of the Computer Sciences program is to assist students to make professional contributions to the field upon graduation and throughout their professional careers, and to adapt to technological and societal change.

Accreditation

The BS (CS) program of department has been accredited from National Computing, Education and Accreditation Council (NCEAC) of Pakistan in X-category.

Graduate Programs at Department of Computer Sciences

The Department of CS&IT offers MCS, M.Phil. and PhD programs at graduate level. These programs in computer science prepare professionals who will adapt to constant changes in technology and who will be leaders in developing the new technologies of the Information Age. The multi disciplinary nature of our curricula offers students a high degree of flexibility to design a program of study tailored to their interests and professional aspirations.

Educational Objectives for the Computer Sciences Programs

The knowledge and skill set provided by the M. Phil program will enable the graduates to attain the following

program educational objectives (PEOs) within two years of graduation

- Depth and breadth of knowledge in computer and information science as evidenced by an understanding of computing systems and science coupled with the capacity to produce feasible and responsible solutions to complex computing problems.
- To enhance the problem solving and research based skills in order to conduct research independently.
- To provide extensive support, principally via one-to-one supervision of research students and well integrated, active research groups.
- To improve communication and writing skills of the scholars this can help them to transform their research outcomes into research articles. Life-long learning skills as evidenced by the ability, to adapt to innovation and change.

Educational Outcomes for the Computer Sciences Programs

A graduate of the AJK University M.Phil. Program achieves the following outcomes:

- An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- An ability to analyze a problem, 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 as teams to accomplish a common goal.
- An understanding of professional, ethical, legal, security, and social issues and responsibilities.
- An ability to communicate effectively using audio, video and advance computing tools.
- 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 trade-offs involved in design choices.
- An ability to apply design and development principles in the software construction for systems of varying complexity.

Programs

BS(CS)
MCS
MPhil
PhD.

BS (CS)

Eligibility Criteria

- General rules of HEC will be followed to determine the eligibility of the candidate.
- The candidates must have Intermediate or equivalent certificate with minimum 45% marks.
- No third division in academic career.
- University entrance test is mandatory for admission in BSCS.
- Overall merit comprise of academic record and Entrance test result.

Scheme of study:

Duration:	8-10 Semesters
Course:	130 Credits
Oral Comprehensive Examination	S/U Basis
Internship/ Practical Training	S/U Basis
Project:	06 Credits
Total Credit Hours:	136 Credits

Courses for BS (CS)

1st Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-1101	Introduction to Computing	3	1	4
CS-1102	Introduction to Programming	3	1	4
MT-1103	Calculus and Analytical geometry	3	0	3
----	Computing General Education Courses-I	3	0	3
PH-1105	Basic Electronics	2	1	3
SS-1106	Computing General Education Courses-II (Pakistan Studies)	2	0	2

2nd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-1201	Object Oriented Programming	3	1	4
CS-1202	Discrete Structures	3	0	3
----	CS-Supporting Area Courses-I	--	--	3
----	Computing General Education Courses-III	--	--	3
SS-1205	Computing General Education Courses-IV (Islamic Studies)	2	0	2
----	University Elective-I	--	--	3

3rd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-2101	Data Structures & Algorithms	3	1	4
SS-2102	Statistics & Probability	3	0	3
CS-2103	Digital Logic & Design	2	1	3
CS-2104	Introduction to Software Engineering	3	0	3
----	Computing General Education Courses-V	--	--	3
MT-2106	Differential Equations	3	0	3

4th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
----	CS-Supporting Area Courses-II	----	----	3
----	CS-Supporting Area Courses-III	----	----	3
CS-2204	Introduction to Database Systems	3	1	4
CS-2206	Data Communication	3	0	3
CS-2207	Computer Organization and Assembly Language	2	1	3
CS-2208	Theory of Automata and Formal Languages	3	0	3

5th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-3101	Computer Architecture	3	0	3
CS-3102	Operating Systems	3	1	4
----	CS-Elective Courses-I	--	--	3
----	CS-Elective Courses-II	--	--	3
----	University Elective-II	--	--	3
----	CS-Elective Courses-III	--	--	3

6th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
----	CS-Elective Courses-IV	----	----	3
----	CS-Elective Courses-V	----	----	3
----	CS-Elective Courses-VI	----	----	3
----	University Elective-III	----	----	3
CS-3208	Design and Analysis of Algorithms	3	0	3
CS-3213	Compiler Construction	2	1	3

7th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-4101	Thesis/Project Part-I	----	----	2
CS-4102	Human Computer Interaction	3	0	3
CS-4103	Artificial Intelligence	2	1	3
----	CS-Elective Courses-VII	----	----	3

8th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-4201	Thesis/Project Part-II	–	----	4
SS-4202	Computing General Education Courses-VI (Arabic)	3	0	3
----	CS-Elective Courses-VIII	----	----	3
----	University Elective-IV	----	----	3
----	Oral Comprehensive Examination	-----	----	S/U Basis
----	Internship/Practical Training	----	----	S/U Basis

MCS

Eligibility Criteria

- B.A/ B.Sc., in any of the following: Business Administration, Math, Physics, Computer Science, Commerce, Statistics and Economics from any recognized University with at least 2nd division with 45% aggregate in annual system or CGPA 2.5 in semester system.
- No third division in academic career.
- University entrance test is mandatory for admission in MCS.
- Overall merit comprise of academic record and Entrance test marks

Scheme of study:

Duration:	4-6 Semesters
Courses:	66 Credits
Oral Comprehensive Examination:	S/U Basis
Internship/Practical Training:	S/U Basis
Project:	06 Credits
Total Credit Hours:	72 Credits

Courses for MCS

1st Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-1101	Introduction to Computing	3	1	4
CS-1102	Introduction to Programming	3	1	4
CS-2204	Introduction to Database Systems	3	1	4
CS-2104	Introduction to Software Engineering	3	0	3
CS-1202	Discrete Structures	3	0	3

2nd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-1201	Object Oriented Programming	3	1	4
CS-2208	Theory of Automata & Formal Languages	3	0	3
CS-2207	Computer Organization and Assembly Language	2	1	3
CS-2101	Data Structures & Algorithms	3	1	4
CS-3107	Computer Communication & Networks	2	1	3
-----	CS-Elective Courses-I	--	--	3

3rd Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-3101	Computer Architecture	3	0	3
CS-3102	Operating Systems	3	1	4
CS-3213	Compiler Construction	2	1	3
CS-3208	Design and Analysis of Algorithms	3	0	3
CS-4101	Thesis/Project Part-I	--	--	2
-----	CS-Elective Courses-II	--	--	3

4th Semester

Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
CS-4103	Artificial Intelligence	2	1	3
CS-3109	Computer Graphics	2	1	3
CS-4119	Distributed Databases Systems	2	1	3
----	CS-Elective Courses-III	--	--	3
CS-4201	Thesis/Project Part-II	--	--	4
----	Oral Comprehensive Examination	--	--	S/U Basis
----	Internship/Practical Training	--	--	S/U Basis

M.Phil

Title of Degree Program:
M. Phil in Computer Sciences

Program Length:
The M. Phil course is 2-3 years [4 semesters + research in last two semesters along with the elective courses] degree program. A research thesis based on original work will have to be submitted and defended as per procedure of HEC.

Eligibility Criteria:
- General rules of HEC and AJK University are followed to determine the eligibility of the candidate.
- No Third Division in academic career
- BS degree (4 year) or equivalent.
- University entrance Test is mandatory for admission in M.Phil.
- Overall merit comprise of academic record and entrance test as per following criteria
- Merit = (HSSC score + B.A/B.Sc. Score + M.A/M.Sc. Score) + Entry Test score + Interview Score

M.Phil. (CS) Curricula

Course Work:	24 Credit Hours
M.Phil. Thesis:	06 Credit Hours
Total:	30 Credit Hours

Computing Courses

Core Courses		
CS-5101	Advanced Computer Architecture	3
CS-5102	Advanced Analysis of Algorithms	3
CS-5103	Advanced Operating Systems	3
CS-5207	Theory of Computation	3
CS-6101	M.Phil. Thesis	6
Optional Courses		
CS-5212	Research Methodologies	3
Digital Signal and Image Processing (Elective Courses)		
CS-5104	Advanced Digital Signal Processing	3
CS-6103	Machine Vision	3
CS-6104	Image and Video Compression	3
CS-6105	Digital Image Analysis and Processing	3
CS-6114	Advanced Biomedical Signal and Image Processing	3
CS-6201	Advanced Computer Animation	3

Computer Networks and Security (Elective Courses)		
CS-5201	Advanced Computer Networks	3
CS-5202	Advanced Wireless Communications	3
CS-5203	Advanced Pervasive and Mobile Computing	3
CS-5204	Advanced Cryptography and Network Security	3
CS-5205	Analytical Approach to Computer Communication	3
CS-5206	Network Performance Evaluation	3
CS-6102	Digital Water marking	3
CS-6202	Information Security	3
CS-6203	Digital Forensics	3
CS-6115	Advanced Cryptography & Information Security	3
Software Engineering (Elective Courses)		
CS-5208	Advanced Software Engineering Techniques	3
CS-5209	Advanced Software Quality Assurance and Testing	3
CS-5210	Advanced Requirements Engineering	3
CS-5211	Advanced Software Architectures	3
CS-5212	Advanced Software Patterns	3
Intelligent, Parallel and Distributed Systems (Elective Courses)		
CS-6106	Advanced Parallel Computing	3
CS-6107	Advanced Evolutionary Computing	3
CS-6108	Advanced Artificial Intelligence	3
CS-6109	Advanced Bioinformatics	3
CS-6110	Advanced Machine Learning	3
CS-6111	Advanced Data Mining	3
CS-6112	Natural Language Processing	3
CS-6113	Advanced Distributed Systems	3
CS-6114	Advanced Information Retrieval Systems	3
CS-6116	Machine Learning Techniques for Bioinformatics Data Analysis	3

PhD

Title of Degree Program:
Ph.D. in Computer Sciences

Program Length:
The Ph.D. course is 3-6 years [18 credit hours course work + Research thesis].
Written and Oral Comprehensive Examination.

Eligibility Criteria:
- General rules of HEC and AJK University are followed to determine the eligibility of the candidate.
- No Third Division in academic career
- BS degree and M.Phil. (CS) or equivalent.
- University entrance Test is mandatory for admission in Ph.D.
- Overall merit comprise of academic record and entrance test as per following criteria
- Merit = (HSSC score + B.A/B.Sc. Score + M.A/M.Sc. Score +M.Phil. Score) + Entry Test score

Ph.D. (CS) Curricula
- 18 Credit hours of Course work
- Oral and Written Comprehensive Examination
- Research thesis

List of Courses
The following list is not exhaustive. Supervisors may include courses relevant to the research filed of the scholar(s).

Course Code	Courses	Credit Hours
CS-7101	Advanced Topics in Computer Architecture	3
CS-7102	Advanced Topics in Analysis of Algorithms	3
CS-7103	Advanced Topics in Operating Systems	3
CS-7104	Advanced Topics in Digital Signal Processing	3
CS-8101	PhD. Thesis	
CS-8102	Advanced Topics in Digital Watermarking	3
CS-8103	Advanced Topics in Machine Vision	3
CS-8104	Advanced Topics in Image and Video Compression	3
CS-8105	Advanced Topics in Digital Image Analysis and Processing	3
CS-7201	Advanced Topics in Computer Networks	3
CS-7202	Advanced Topics in Wireless Communications	3
CS-7203	Advanced Topics in Pervasive and Mobile Computing	3
CS-7204	Advanced Research Methodologies	3
CS-7205	Advanced Topics in Cryptography and Network Security	3
CS-7206	Advanced Topics in Analytical Approach to Computer Communication	3
CS-7207	Advanced Topics in Network Performance Evaluation	3
CS-7208	Advanced Topics in Software Engineering	3
CS-7209	Advanced Topics in Software Quality Assurance and Testing	3
CS-7210	Advanced Topics in Requirements Engineering	3
CS-7211	Advanced Topics in Software Architectures	3
CS-7212	Advanced Topics in Software Patterns	3
CS-8201	Advanced Topics in Computer Animation	3
CS-8202	Advanced Topics in Information Security	3
CS-8203	Advanced Topics in Digital Forensics	3
CS-8106	Advanced Topics in Parallel Computing	3
CS-8107	Advanced Topics in Distributed Systems	3
CS-8108	Advanced Topics in Evolutionary Computing	3

Course Code	Courses	Credit Hours
CS-8109	Advanced Topics in Artificial Intelligence	3
CS-8110	Advanced Topics in Bioinformatics	3
CS-8111	Advanced Topics in Machine Learning	3
CS-8112	Advanced Topics in Data Mining	3
CS-8113	Advanced Topics in Natural Language Processing	3
CS-8114	Advanced Topics in Biomedical Signal Processing	3
CS-8115	Advanced Topics in Biomedical Image Processing	3
CS-8116	Advanced Topics in Information Retrieval Systems	3
CS-8117	Advanced Topics of Machine Learning Techniques for Bioinformatics Data Analysis	3
CS-8118	Advanced Topics in Cryptography & Information Security	3

Studying Computer Science at UAJK has provided me with numerous opportunities, particularly as a result the flexibility within the course which allows me to focus my studies on areas of interest. The department of CS&IT has also shown a strong commitment throughout to not only teach theoretically, but to reinforce and develop your understanding of ideas by applying it in regular practical coursework. The combination of approachable staff and relaxed labs provide ample opportunities when you need advice or help.

Muhammad Sibtul Hassan,
Mphil Scholar, 2nd Semester, Session 2016-18

Desire of knowledge is like a thirst of riches increases ever with the acquisition of it. UAJK provides a platform to fulfil all my dreams. It's a great honour to be the part of such esteemed institution. DCS & IT is providing a friendly, enthusiastic and supportive environment to work and explore your skills. The dedicated faculty of the department is producing great developers, researchers and futurists.

Syeda Komal Aftab,
BSCS, 8th Semester, Session 2013-17

The department of Computer Sciences and Information Technology, University of Azad Jammu & Kashmir is equipped not only with sophisticated equipment, satisfactory enough is quality as well as an quality but also is exemplary in teaching the students through most simple and most understandable education methods and techniques.

Muzamal Aslam,
BSCS, 8th Semester, Session 2013-17

Department of Mathematics

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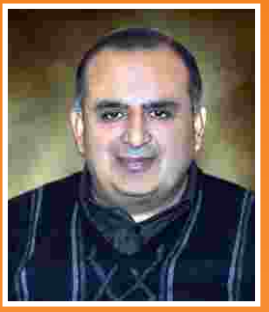

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FACULTY

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Dr.Imtiaz Ahmad, PhD (China)
Dr. Muhamamd Taj, PhD (China) (TTS)
Mrs. Aliya Shaheen, M. Phil. (Pak)
Mrs. Nighat Ghulam Rasool, M. Phil. (Pak)
Mrs.Samaira Azizl, M. Phil. (Pak)
Dr. Manzoor Ahmad, PhD (Pak)
Abdul Qadeer Khan, M. Phil (Pak)
Muhammad Wasim Awan M. Phil. (Pak)
Aamar Kamal Abbasi, M. Phil (Pak)
Muhammad Zaheer Kiyani, M. Phil (Pak)
Muhammad Faisal Saikh M. Phil. (Pak)

Introduction:

Department of Mathematics was established in 1984. This is one of the largest departments of the Faculty of Sciences. The Department has expanded its programs and activities from Mathematics to Mathematical Sciences. The mission of the department is to bring life to Mathematics and Mathematics to life. Pure Mathematics, Applied Mathematics and Inter Disciplinary Mathematics areas are being pursued in teaching as well as research.

Undergraduate, graduate and postgraduate programs are being offered here. At all levels, students are instructed in the rigor and precision characteristics of Mathematical Reasoning. They are facilitated to become acquainted with the elementary tools of Mathematics and the techniques to use them as well as opportunities are provided to them to acquire the Mathematical knowledge and the reasoning skills necessary to make effective use of Mathematics.

Many new courses including Applied, pure and biological mathematics have been designed and approved to highlight the beauty and applicability of Mathematics. The aim of the Department's activities is to help students to develop a required understanding and appreciation of Mathematics as a creative discipline. The library and laboratory facility also serve for this purpose.

Objectives

- To develop ability in students to formulate a problem using the language of mathematics
- To inculcate habits of creative thinking, critical analysis and rigorousness, so that the students start enjoying mathematics.
- To equip students with the tools required and the mathematical techniques applied in the industrial and the business sector.
- To propose mathematical solutions to indigenous problems arising in the industrial, the business, the financial and the health-care sectors
- To keep the students informed and updated with the latest developments in the modern era.
- Department organizes seminars, weekly Seminars, Invited Lectures, on latest technologies and techniques help students in achieving their goals. Faculty members/students are also allowing them to participate in such events both within and outside the university. .
- One of the prominent features of the department is its strong National linkages and somehow international. It provides opportunity to work on mutual projects, exchange research data. In addition, collaboration with Universities also provides research facilities for the faculty members to improve their education.

B.S Mathematics (4 Year)

Department of mathematics offered a 4 year B.S Mathematics program for the session 2013 to onward. It is 4 year program divided into eight Semesters. In the first four semesters 24 introductory and allied courses of

Graduation level are offered and next four semesters M.Sc. courses are offered. At the end of 8th semester a necessary comprehensive oral examination are accompanied which is necessary to qualify for the Degree. The courses which are optional are distributed into three sorts, pure, applied and computational mathematics. The purpose of offering such courses is to provide the opportunity to students to attain knowledge in all aspects of mathematics.

Scheme of Study for 4 Year B.s Mathematics

Duration	4 Years (Eight - Semesters)
Courses	132 credits
Thesis (MAT-6498) Optional	06 credits
Conference / Seminar / Reading (MAT-6398)	Non-credit
Comprehensive Oral Examination (MAT-6499)	S/U bases
Total Credit Hours	138
Entry Test Requirement:	F.Sc. Pre-Eng.
ICS.	General Science
(With Math's and Physics or Statistics)	
Medium of instructions:	English

Eligibility:

The eligibility criterion for B.S Mathematics 4 Years admissions is at least second division in F.Sc/I.Cs.

Semester wise course Breakdown for B.S Mathematics (4 Years) .

1st Semester

Course Code	Course Title	Credit Hrs.
MAT-3101	Calculus-I	(3+0)
MAT-3102	Introduction to Vector Analysis and Statics	(3+0)
PHY-310	Physics-I	(3+1)
ENG-3104	English-I	(3+0)
ISL-3105	Islamic Studies	(2+0)
COM-3106	Introduction to Computing	(3+0)
	Total Credit Hours	(17 +1)

2nd Semester

Course Code	Course Title	Credit Hrs.
MAT-3201	Plane Curves and Analytical Geometry	(3+0)
MAT-3202	Introduction to Dynamics	(3+0)
PHY-3203	Physics-II	(3+1)
ENG-3204	English-II	(3+0)
ARB-3205	Introduction to Arabic	(2+0)
SOC-3206	Introduction to Sociology	(3+0)
	Total Credit Hours	**(17+1)**

3rd Semester

Course Code	Course Title	Credit Hrs.
MAT-4101	Introduction to Linear Algebra	(3+0)
MAT-4102	Calculus-II	(3+0)
MAT-4103	Probability Theory and Statistics	(3+0)
ENG-4104	English-III	(3+0)
SOC-4105	Introduction to Psychology	(3+0)
MAT-4106	Elementary Number Theory and Complex Variables	(3+0)
	Total Credit Hours	**(18+0)**

4th Semester

Course Code	Course Title	Credit Hrs.
MAT-4201	Introduction to Ordinary Differential Equations	(3+0)
MAT-4202	Introduction to Metric Spaces and Group Theory	(3+0)
COM-4203	Object Oriented Programming	(3+1)
ENG-4204	English-IV	(3+0)
PST-4205	Pakistan Studies	(2+0)
MAT-4206	Introduction to Numerical Analysis and Linear Programming	(3+0)
	Total Credit Hours	**(17+1)**

5th Semester

Course Code	Course Title	Credit Hrs.
MAT-5101	Real Analysis-I	3
MAT-5102	Differential Geometry-I	3
MAT-5103	Algebra -I	3
MAT-5104	Topology-I	3
MAT-5105	Ordinary Differential Equations	3
	Total:	**15**

6th Semester

Course Code	Course Title	Credit Hrs.
MAT-5201	Real Analysis-II	3
MAT-5202	Complex Analysis	3
MAT-5203	Algebra-II	3
MAT-5204	Functional Analysis-I	3
MAT-5205	Mechanics	3
	Total:	**15**

7th Semester

Course Code	Course Title	Credit Hrs.
MAT-6301	Numerical Analysis-I	3
MAT-6302	Partial Differential Equations	3
MAT-6304	Fluid Mechanics-I	3

Any two of following

Course Code	Course Title	Credit Hrs.
MAT-6305	Measure Theory	3
MAT-6306	Ring Theory	3
MAT-6307	Computer Language (C/C++)	3
MAT-6308	Mathematical Statistics-I	3
MAT-6309	Quantum Mechanics	3
MAT-6310	General Tensors	3
MAT-6311	Electromagnetism	3
MAT-6312	Special theory of Relativity	3
MAT-6313	Advanced Calculus	3
MAT-6314	Functional Analysis- II	3
MAT-6315	Topology-II	3
	Total:	**15**

8th Semester*

Course Code	Course Title	Credit Hrs.
MAT-6401	Numerical Analysis-II	3
MAT-6402	Differential Geometry-II	3
MAT-6403	Mathematical Physics	3
MAT-6404	Fluid Mechanics-II	3
MAT-6405	Riemannian Geometry	3
MAT-6406	Mathematical Statistics-II	3
MAT-6407	Analytical Dynamics	3
MAT-6408	Continuous and Symmetric Groups	3
MAT-6409	Integral Equations	3
MAT-6410	Theory of Elasticity	3
MAT-6411	Theory of Manifolds	3
MAT-6412	Theory of Manifolds	3
MAT-6413	Finite Element Methods	3
MAT-6414	General Relativity	3
MAT-6415	Introduction of Combinatorics	3
MAT-6416	Algebraic Topology	3
MAT-6417	Group Theory	3
MAT-6418	Decomposition of Modules	3
MAT-6419	Optimization theory	3
MAT-6420	An Introduction to Convex Analysis	3
MAT-6421	Calculus of Variation	3
MAT-6422	Dynamical Systems	3
MAT-6423	Financial Derivative	3
MAT-6424	Actuarial Mathematics	3
Mat-6425	History of Mathematics	3
Mat-6499	Thesis	6
	Total:	**15**

*Any five courses or three courses and thesis from the above Elective Courses.

Scheme of study for M.Sc.

Duration	4-6 semesters
Courses	54 credits
Thesis (MAT-6498)	06 credits
Conference / Seminar / Reading (MAT-6399)	Non credit
Comprehensive Oral Examination (MAT-6499)	S/U basis
Total	**60 credits**

Semester wise course Breakdown for M.Sc. Mathematics

1st Semester

Code	Course Title	Lec. Hrs	Credit hours
MAT-5101	Real Analysis-I	3	3
MAT-5102	Differential Geometry-I	3	3
MAT-5103	Abstract Algebra -I	3	3
MAT-5104	Topology-I	3	3
MAT-5105	Ordinary Differential Equations	3	3

2nd Semester

Code	Course Title	Lec. Hrs	Credit hours
MAT-5201	Real Analysis-II	3	3
MAT-5202	Complex Analysis	3	3
MAT-5203	Abstract Algebra-II	3	3
MAT-5204	Functional Analysis-I	3	3
MAT-5205	Mechanics	3	3

3rd Semester

Code	Course Title	Lec. Hrs	Credit hours
MAT-6301	Numerical Analysis-I	3	3
MAT-6302	Partial Differential Equations	3	3
MAT-6399	Reading / Conference / Seminar	1	1

Code	Course Title	Lec. Hrs	Credit hours
	Any three courses from list of elective Courses.	3	3
	Elective -I	3	3
	Elective -II	3	3
	Elective -III		

4th Semester

Code	Course Title	Lec. Hrs	Credit hours
	(1) Any five courses from the list of Elective Courses. OR (2) Any three courses from the list of Elective Courses and Thesis		15

List of Elective Courses

Code	Course Title	Lec. Hrs	Credit hours
MAT-6304	Fluid Mechanics-I	3	3
MAT-6305	Measure Theory	3	3
MAT-6306	Ring Theory	3	3
MAT-6307	Computer Language (C/C++)	3	3
MAT-6308	Mathematical Statistics-I	3	3
MAT-6309	Quantum Mechanics	3	3
MAT-6310	General Tensors	3	3
MAT-6311	Electromagnetism	3	3
MAT-6312	Special theory of Relativity	3	3
MAT-6313	Advanced Calculus	3	3
MAT-6314	Functional Analysis- II	3	3
MAT-6315	Topology-II	3	3
MAT-6401	Numerical Analysis-II	3	3
MAT-6402	Differential Geometry-II	3	3
MAT-6403	Mathematical Physics	3	3
MAT-6404	Fluid Mechanics-II	3	3

Code	Course Title	Lec. Hrs	Credit hours
MAT-6405	Riemannian Geometry	3	3
MAT-6406	Mathematical Statistics-II	3	3
MAT-6407	Analytical Dynamics	3	3
MAT-6408	Continuous and Symmetric Groups	3	3
MAT-6409	Integral Equations	3	3
MAT-6410	Theory of Elasticity	3	3
MAT-6411	Theory of Manifolds	3	3
MAT-6412	Finite Element Methods	3	3
MAT-6413	General Relativity	3	3
MAT-6414	Introduction of Combinatorics	3	3
MAT-6415	Algebraic Topology	3	3
MAT-6416	Theory of Group Actions	3	3
MAT-6417	Decomposition of Modules	3	3
MAT-6418	Optimization theory	3	3
MAT-6419	An Introduction to Convex Analysis	3	3
MAT-6420	Calculus of Variation	3	3
MAT-6421	Dynamical Systems	3	3
MAT-6422	Mathmatica	3	3
MAT-6423	Financial Derivative	3	3
MAT-6424	Actuarial Mathematics	3	3
MAT-6425	History of Mathematics	3	3
MAT-6426	Introduction to Bio Mechanics	3	3

Scheme of Study for M. Phil

Duration	4-6 semesters
Courses	24 credits
Thesis (MAT-7396)	06 credits
Reading and Conference (MAT-7395)	Non credit
Total	30 credits

Eligibility:

The eligibility criterion for admission to M. Phil Mathematics is at least second division /Grade-C CGPA 2.5 out of 4.0 or 3.0 out of 5.0 in M. Sc. Mathematics with NTS- General Test/as per HEC rules.

PhD Program

The main purpose of PhD program to promote research culture in the field of Mathematics at the University of Azad Jammu & Kashmir. It will provide attaining terminal degree at home and by laying strong foundation of research will lead strengthen our institution. Department of mathematics has registered the four PhD students in 2012. Our PhD program has been design carefully in order to match skills and aspirations. Several fields of specialization are include but are not limited

- Lie group and Lie algebras
- Lie group analysis of differential Equations
- Theory of Manifolds
- Hydrodynamics
- Newtonian and non-Newtonian fluid mechanics
- Homotopy analysis method for nonlinear differential equations
- Difference Equations
- Biological model analysis
- Lubrications
- Mathematical Modeling

Scheme of Study For Ph. D

Duration	6-14 semesters
Courses	42 credits
Thesis (MAT-7399)	60 credits
Reading and Conference (MAT- 7397)	Non credit
Comprehensive Examination (Written & Oral) (MAT- 7398)	S/U basis
Total	**102 credit**

Eligibility: University/HEC rules follow at the time of admission

Courses for M.Phil & Ph.D. Programs

Code	Course Title	Credit hours
MAT-7101	Advanced Functional Analysis-I	03
MAT-7102	Advanced Measure Theory-I	03
MAT-7103	Advanced Topology-I	03
MAT-7104	Lie Algebra	03
MAT-7105	Topological Groups	03
MAT-7106	Topological Vector Spaces	03
MAT-7107	Theory of Group Graphs	03
MAT-7108	Theory of Group Actions	03
MAT-7109	Theory of Complex Manifolds	03
MAT-7110	Approximation Theory	03
MAT-7112	Advanced Partial Differential Equations	03
MAT-7113	Magneto hydrodynamics-I	03
MAT-7114	Electrodynamics-I	03
MAT-7115	Advanced Analytical Dynamics-I	03
MAT-7116	Advanced General Relativity	03
MAT-7117	Astrophysics	03
MAT-7118	The Classical Theory of Fields	03
MAT-7119	Mathematical Techniques for Boundary Value Problems	03
MAT-7120	Basics of the Theory of Fluids	03
MAT-7121	Sampling Techniques-I	03
MAT-7122	Multivariate Analysis-I	03
MAT-7123	Finite Mixture Distributions-I	03
MAT-7124	Fixed Point Theory	03
MAT-7125	Computer Aided Geometric Design- I	03
MAT-7126	Advanced Numerical Analysis	03
MAT-7127	Advanced Complex Analysis	03
MAT-7201	Advance Functional Analysis-II	03

Code	Course Title	Credit hours
MAT-7202	Advanced Measure Theory-II	03
MAT-7203	Advanced Topology-II	03
MAT-7204	Banach Algebras	03
MAT-7205	Lie Groups	03
MAT-7206	C* -Algebras	03
MAT-7207	Topological Algebras	03
MAT-7208	Advanced Integral Equations	03
MAT-7209	Magneto hydrodynamics-II	03
MAT-7210	Electrodynamics-II	03
MAT-7211	Advanced Analytical Dynamics-II	03
MAT-7212	Cosmology	03
MAT-7213	Non- Newtonian Fluid Mechanics	03
MAT-7214	Numerical Solutions of Partial Differential Equations	03
MAT-7215	Group Methods for Differential Equations	03
MAT-7216	Sampling Techniques-II	03
MAT-7217	Multivariate Analysis- II	03
MAT-7218	Finite Mixture Distributions-II	03
MAT-7221	Fuzzy Analysis	03
MAT-7222	Fractional Differential Equations	03
MAT-7223	Advances in Discrete Mathematics and Applications	03
MAT-7224	Strict Convexity	03
MAT-7225	Impulsive Differential Equations	03
MAT-7226	Advanced Fluid Dynamics	03
MAT-7227	Computer Aided Geometric Design- II	03
MAT-7228	Advanced Analytical Methods	03
MAT-7229	Basics of Heat and Mass Transfer	03
MAT-7230	Electrodynamics	03

Code	Course Title	Credit hours
MAT-7231	Convex Analysis	03
MAT-7232	Mathematical Analysis	03
MAT-7233	Computer Graphics	03
MAT-7234	Advanced Algebra	03
MAT-7235	Lie Group Analysis of Difference Equations	03
MAT-7236	Analysis of Several Complex Variables	03
MAT-7237	Calculus of Finite Differences	03
MAT-7238	Advanced Solid Mechanics	03
MAT-7239	Cell Mechanics	03
MAT-7240	Elastic Wave Propagation in Structures	03
MAT-7241	Fracture Mechanics	03
MAT-7242	Inelasticity of Materials	03
MAT-7243	The Continuum Mechanics	03
MAT-7244	Theory of plasticity	03
MAT-7245	Tissue Engineering	03
MAT-7246	Fundamentals of Turbulence	03
MAT-7247	Modeling and Simulation	03

The University of Azad Jammu & Kashmir gives me an outstanding good time, hanging out each day with mates and professional faculty who inspired me to boost up my intelligence. Indeed, it is a platform where I explored myself to enlighten my skills and knowledge, our department is simply awesome progressing under our most kind and fabulous chairman. In can proudly claim these two years' as best of my academic life.

Muhammad Ayaz,
Msc. Math, 3rd Semester

The UAJK is a blessing for us. It is stimulating and thoughts provoking environment draws out the hidden abilities of the learners. A real and clear difference can be observed before entering and after leaving University. Teacher and students coordination is the distinguishing quality of the University.

Nighat Hussain,
BS Mathematics, 3rd Semester,

It is a matter of immense pleasure for me to join UAJK. the key mission of department of math is to impart knowledge, to build confidence and to groom our personality. The department has a comprehensive quality assurance system which encouragers and empowers a student to become an independent learner. The institute provides and edifying height in connection with the academic and moral attitude. Environment is conducive and labs are fully equipped.

Muhammad Zaheer Kiyani,
PhD Scholar Math, 3rd Semester

Our department has highly prestigious faculty which make it a distinguished one. Their cooperative attitude implicates a positive impact on our studies and learning so we feel competent in making mark in such an advanced society. The day is not so far when the University and department of physics will lead at international level.

Falaq Imtiaz,
BS Mathematics, 2nd Semester

Institute of Geology

Faculty

Prof. Dr. Muhammad Rustam Khan, Ph.D (Pak)
Dr. Mirza Shahid Baig, Ph.D & Post Doc (USA) (On Contract)
Dr. Mohammad Sabir Khan, Ph.D (Pak): (On Contract)
Dr. Munir-ul-Hassan Munir, Ph.D (Pak): (On Contract)
Mohammad Anwar Qureshi, M.Sc (Pak): (On Contract)
Muhammad Saleem, M.Sc (Pak)
Tahir Yousaf Saraf, M.Sc (Pak)
Aamir Farooq, M.Phil (Pak)
Shahab Pervaiz, M.Phil (Pak)
Dr. Muhammad Basharat, Ph.D (Germany)
Shazia Qamar, M.Phil (Pak)
Syed Kamran Ali, M.Phil (Pak)
Dr. Abrar Niaz, Ph.D (Pak)
Dr. Jhanzaib, Ph.D (Germany): (On Contract)
Tehmina Bibi, M.Phil (Pak): (On leave)
Mohammad Saleem Mughal, M.Phil (Pak)
Fahad Hameed, M.Phil (Pak)
Sohail Mustafa, MS (Pak)
Yasir Sarfraz, Phil (Pak)

Allied Subjects

Bushra Indrabi, M.Sc Geography (Pak)
Muhammad Jan, MA English (Pak)

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Introduction:

The Institute of Geology is one of the oldest institutes of the University. It was established as Department of Geology in 1973 before the establishment of UAJK. The Institute offers BS Applied Geology and MS/M.Phil. Recently; the Institute has expanded its academic/ research horizons by inducting Ph.D. degree programme. The main focus of these programs is to provide orientation in the field of Applied Geology.

The Institute is unearthing and exploiting the natural resources of the country and is playing an important role in socio-economic uplift of the country. The Institute also takes pride in being one of the main sources for feeding to the research organizations, universities, institutes, national and international oil companies, geotechnical organizations, Atomic Energy Commission, WAPDA, PWD, AKMIDC, highways, mining organizations, geological surveys, industry and thus is fulfilling its responsibility of increasing the professional and skilled workforce of the country. Our geology graduates are found in nearly every organization involved in earth sciences in Azad Kashmir and Pakistan and many of them have managed to find places in international organizations.

To boost up the research activities, the Institute has been publishing its own international research journal 'Kashmir Journal of Geology' since 1983. The Institute has crossed the national boundaries and has previously collaborated with a number of foreign universities i.e. Purdue University USA, Indiana State University USA, Zurich Institute of Technology Switzerland, Trieste university Italy and many national organizations like Atomic Energy Commission of Pakistan, Geotechnical Companies, Oil Companies, Geological Survey of Pakistan, Punjab University, Peshawar University and United States Geological Survey.

It is here at this Institute that Platinum and Gold deposits in Chillas area of Northern Pakistan were discovered. It was accomplished in collaboration with Purdue University, USA. The graduates of the Institute did their research work in Azad Kashmir, Punjab, KPK, Baluchistan and Northern Areas. The Institute sends its graduates for practical training/internship in geotechnical organizations, national and international organizations, highways, national and international oil companies, NIH, OGTI, hydrocarbon development Institute, GSP, Neelum Jhelum Hydropower, AKMIDC and other research institutes.

The graduates of the Institute completed their MS and Ph.D. degree programs from U.S.A., Canada and Europe. The Institute is pioneer in starting MPhil and Ph.D. programs during 2000-2001 at the University and has produced M.Phil. students. The faculty members of the Institute are involved in various research projects from Higher Education Commission, Pakistan Science Foundation and UAJK. Many of the faculty members of the Institute have been enrolled in Ph.D. Geology degree programme.

Job Opportunities

The Institute is producing applied professional degree holders in the field of Geology to meet national and international requirements. The graduates are getting employment in Universities, Colleges, Research Institutes, Oil Companies, Geotechnical Organizations, WAPDA, Atomic Energy Commission, Highways, Geological Survey, geoservices companies, hydrocarbon development institutes and many more national and international organizations.

Internship

Internship/practical training is compulsory requirement

for the BS geology degree. The students are advised to get the internship training after the 5th semester. Students are sent to oil companies like OGDCL, PPL, POL, OMV, NJHP, GSP, FWO, AKMIDC and other geotechnical and research organizations.

Specializations

Following fields of specialization are offered in the institute of geology:

1. Structural Geology, Tectonics and Neotectonics
2. Petroleum Geology
3. Mineralogy/Petrology
4. Geophysics
5. Engineering Geology
6. GIS and Remote Sensing
7. Paleontology/Micropaleontology
8. Stratigraphy/Sedimentology
9. Environmental Geology
10. Geohydrology

Programmes

The Institute of Geology is running the following programmes:
BS Applied Geology (Four Years)
MS/ M.Phil. Applied Geology (Two Years)
Ph.D. Geology

Scheme of Studies / Courses for BS Applied Geology with Course Codes

(with effect from Fall Semester 2016).
Eligibility for Admission:
Intermediate Science (or Equivalent) with minimum 50% marks from the following groups:

1. Pre-Medical Group/Pre-Engineering Group
2. Other Groups (studied at least two subjects from Chemistry, Physics and Mathematics).
3. Three years Diploma in Associate Engineering (DAE) -equivalent to F.Sc

Duration	Minimum 8 and maximum 12 Semesters
Course Work	142 Credits
Field Training Camp (after 6th semester)	06 Credits
Comprehensive Oral Examination	S/U Basis
Internship/Practical Training	S/U Basis
Total:	**148 Credits**

B.S Applied Geology 1st Professional Year

1st Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-3101	English-I	03	–	03
GEO-3102	Pakistan Studies	02	–	02
GEO-3103	Islamic Studies/Ethics	02	–	02
GEO-3104	General Geology	03	–	03
GEO-3105	Applied Chemistry-I	02	01	03
GEO-3106	Geomorphology	03	–	03
	TOTAL	15	01	16

2nd Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-3201	Arabic	02	–	02
GEO-3202	Applied Mathematics-I	03	–	03
GEO-3203	Mineralogy-I	03	–	03
GEO-3204	Paleontology	03	–	03
GEO-3205	Applied Physics-I	02	01	03
GEO-3206	Field Work Report	–	03	03
GEO-3207	Communication Skill (English-II)	02	–	02
	TOTAL	**15**	**04**	**19**

B.S Applied Geology 2nd Professional Year

3rd Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-4101	Applied Mathematics-II	03	–	03
GEO-4102	Applied Physics-II	02	01	03
GEO-4103	Stratigraphy	03	–	03
GEO-4104	Petrology	03	–	03
GEO-4105	Mineralogy-II	03	–	03
GEO-4106	Environmental Geology	03	–	03
	TOTAL	**17**	**01**	**18**

4th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-4201	Applied Chemistry-II	02	01	03
GEO-4202	Engineering Geology	03	–	03
GEO-4203	Field Geology	03	–	03
GEO-4204	Surveying & Drawing	02	01	03
GEO-4205	Sequence Stratigraphy	02	–	02
GEO-4206	Field Work Report	–	03	03
	TOTAL	**12**	**05**	**17**

B.S Applied Geology 3rd Professional Year

5th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-5101	Structural Geology	03	—	03
GEO-5102	Statistical Geology	03	—	03
GEO-5103	Micropaleontology	03	—	03
GEO-5104	Geophysics	03	—	03
GEO-5105	Tunneling	03	—	03
GEO-5106	Geotectonics	03	—	03
	TOTAL	**18**	**---**	**18**

6th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-5201	Sedimentation and Sedimentary Basins of Pakistan	03	–	03
GEO-5202	Geomechanics	03	–	03
GEO-5203	Petroleum Geology	03	–	03
GEO-5204	Geowriting (English-III)	03	–	03
GEO-5205	GIS and Remote Sensing	03	–	03
GEO-5206	Field Work Report	03	–	03
	TOTAL	**18**	**–**	18

Geological Field Training camp for the students of BS Applied Geology after 6th semester Summer/Winter semesters (Compulsory)

Course Code	Course Title	Lec. Hrs	Credit hours	
GEO-5207	Field Training Camp	01 month	06	Compulsory

B.S Applied Geology 4th Professional Year

7th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-6101	Geohydrology	03	–	03
GEO-6102	Gemology	03	–	03
GEO-6103	Well Logging	03	–	03
GEO-6104	Geotechnical Engineering	03	–	03
GEO-6105	Geochemistry	03	–	03
GEO-6106	Geology of Pakistan	03	–	03
	TOTAL	**18**	**–**	**18**

8th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-6201	Economic Geology	03	–	03
GEO-6202	Seismology	03	–	03
GEO-6203	Thesis	–	06	06
GEO-6204	Comprehensive Oral Examination	–	–	S/U Basis
GEO-6205	Internship Practical Training	–	–	S/U Basis
	Elective Course-I	03	–	03
	Elective Course-II	03	–	03
	TOTAL			**18**

Scheme of Studies/courses for Ms/M.phil Applied Geology

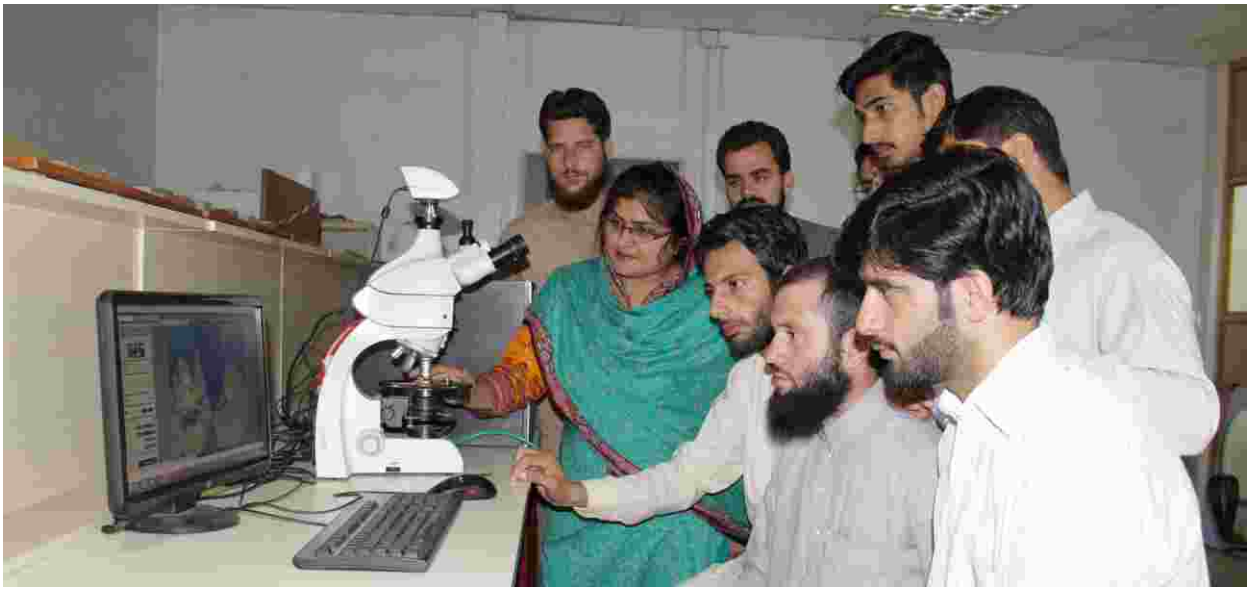
(with effect from Fall Semester 2015)

Eligibility/Admission Criteria

1. Minimum 16 years education including BS Applied Geology (4 Years), B.Sc. (Hons. 4 Years with one year M.Sc.), M.Sc. Geology (16 to 17 Years).
2. The candidate must have at-least second division (in Annual System) or 2.5/4.00 or 3.00/5.00 CGPA grade or 55% (Semester System).

Scheme of Study for MS/M.Phil. Applied Geology

Duration	4-6 Semesters
Course Work	24 Credit Hrs.
Readings and Conference	S/U Basis
Thesis	06 Credit Hrs.
Comprehensive Oral Examination	S/U Basis
Total:	**30 Credit Hrs.**



MS/M.Phil. Applied Geology 1st Professional Year

1st Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-7101	Petroleum Engineering	03	–	03
GEO-7102	Neotectonics	03	–	03
GEO-7103	Exploration Geophysics	03	–	03
GEO-7104	Research Methodology	03	–	03
		12	–	12

2nd Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-7201	Petroleum Geology of Pakistan	03	–	03
GEO-7202	Advance Engineering Geology	03	–	03
GEO-7203	Reading and Conference	–	–	S/U Basis
	Elective Course-I	03	–	03
	Elective Course-II	03	–	03
		12		**12**

MS/M.Phil. Applied Geology 2nd Professional Year

3rd and 4th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit hours
GEO-8101	Thesis	–	06	06
GEO-8102	Comprehensive Oral Examination	–	–	S/U Basis
	TOTAL	–	–	06

List of Elective Courses:

Course Code	Course Title	Credit hours
GEO-7206	Igneous and Metamorphic Petrology	03
GEO-7207	Tectonics of Pakistan	03
GEO-7208	Seismotectonics	03
GEO-7209	Dam Engineering	03
GEO-7210	Earthquake Engineering	03
GEO-7211	Soil Mechanics & Foundation Engineering	03
GEO-7212	Rock Mechanics	03
GEO-7213	Tunneling	03
GEO-7214	Environmental Engineering	03
GEO-7215	Asphalt Technology	03
GEO-7216	Geotechnical Engineering	03
GEO-7217	Slope Stability Analysis	03
GEO-7218	Building Material	03
GEO-7219	Advance Geochemistry	03
GEO-7220	Igneous Petrogenesis	03
GEO-7221	Metamorphic Petrogenesis	03
GEO-7222	Sedimentary Petrology	03
GEO-7223	Advance Hydrogeology	03
GEO-7224	Ground Water Investigation	03
GEO-7225	Hydrochemistry and Ground Water Pollution	03
GEO-7226	Ground Water Engineering	03
GEO-7227	Ground Water Modeling	03
GEO-7228	Computational Modeling Techniques and GIS	03
GEO-7229	Advance Stratigraphy	03
GEO-7230	Micropaleontology	03
GEO-7231	Invertebrate Paleontology	03
GEO-7232	Vertebrate Paleontology	03

Course Code	Course Title	Credit hours
GEO-7233	Palynology and Paleobotany	03
GEO-7234	Biostratigraphy	03
GEO-7235	Ore Deposits	03
GEO-7236	Mineral Exploration	03
GEO-7237	Coal Geology	03
GEO-7238	Mining Geology and Mineral Economics	03
GEO-7239	Metalogeny and Plate Tectonics	03
GEO-7240	Mineral Deposits of Pakistan	03
GEO-7241	Sequence Stratigraphy	03
GEO-7242	Petroleum Engineering And Geophysical Methods	03
GEO-7243	Reservoir Geology	03
GE0-7244	Clay Mineralogy	03
GEO-7245	Organic Geochemistry	03
GEO-7246	Seismic Method and Seismic Stratigraphy	03
GEO-7247	Earthquake Seismology	03
GEO-7248	Geomagnetism and Paleomagnetism	03
GEO-7249	Radiometric Methods	03
GEO-7250	Electrical Methods and Borehole Geophysics	03
GEO-7251	Geophysical Data Processing	03
GEO-7252	Gravity and Magnetic Methods	03
GEO-7253	Clastic Sedimentology	03
GEO-7254	Carbonate Sedimentology	03
GEO-7255	Basin Analysis	03
GEO-7256	Quaternary Geology	03
GEO-7257	Sedimentary Environments	03
GEO-7258	Thermodynamics	03
GEO-7259	Geochemical Exploration	03

Course Code	Course Title	Credit hours
GEO-7260	Isotope Geochemistry	03
GEO-7261	High Temperature Geochemistry	03
GEO-7262	Low Temperature Geochemistry	03
GEO-7263	Industrial Mineralogy	03
GEO-7264	Geology& Technology of Industrial Mineral & Rocks	03
GEO-7265	Instrumental Techniques	03
GEO-7266	Physical and Chemical Oceanography	03
GEO-7267	Marine Geology	03
GEO-7268	Coastal Geomorphology	03
GEO-7269	Geology of Arabian Sea	03
GEO-7270	Plate Tectonics	03
GEO-7271	Advance Environmental Geology	03
GEO-7272	Soil and Water Resources	03
GEO-7273	Environmental Hazards	03
GEO-7274	Hydrological System and Environment	03
GEO-7275	Environmental Impact Assessment & Management	03
GEO-7276	Waste Disposal and Management	03
GEO-7277	Metamorphic Structures	03
GEO-7278	Applied Structural Techniques	03
GEO-7279	Regional Tectonics	03
GEO-7280	Advance Structural Geology	03
GEO-7281	Advance Gemology	03
GEO-7282	Geostatistics	03
GEO-7283	Landslide Hazards	03
GEO-7284	Disaster Management	03

Scheme of Studies / Courses for Ph.D Geology (with effect from Fall Semester 2015).

Scheme of Study for Ph.D. Geology

Duration	6-14 Semesters (3-7 years)
Course Work	18 credit hrs.
Seminar/Readings and Conference	S/U basis
Comprehensive Oral and Written Exam	S/U basis
Ph.D. Dissertation	24 credit hrs.
Total:	**42 credit hrs.**

Note:

1. PhD dissertation includes six months to one year of field work, lab work, thesis writing and public defense.
2. The scholar has to select any 06 courses (18 credit hrs.) in two semesters from mention list of main stream of specialization under the recommendation of concerned supervisory committee.

List of Courses for Ph.D. 1st semester

Course Code	Course Title	Credit hours
GEO-9101	Igneous Petrology	03
GEO-9102	Metamorphic Petrology	03
GEO-9103	Advance Mineralogy	03
GEO-9104	Fundamentals of Geophysics	03
GEO-9105	Gravity and Magnetic Methods-I	03
GEO-9106	Earthquake Seismology	03
GEO-9107	Seismic Stratigraphy	03
GEO-9108	Borehole Geophysics	03
GEO-9109	Advance Engineering Geology	03
GEO-9110	Rock Mechanics	03
GEO-9111	Geohydrology	03
GEO-9112	Building Material/ Material Sciences	03
GEO-9113	Geotechnical Engineering	03
GEO-9114	Foundation Engineering	03
GEO-9115	Slope Stability Analysis	03
GEO-9116	Landslides Hazards and Risk Assessment	03
GEO-9117	Natural Disaster Management	03
GEO-9118	Petroleum Geology	03
GEO-9119	Advance Sedimentology	03
GEO-9120	Basin Studies	03
GEO-9121	Advance Structural Geology	03
GEO-9122	Specialized Field and Labs Techniques in Structural Geology	03
GEO-9123	Tectonics of Pakistan	03
GEO-9124	Neotectonics	03
GEO-9125	Photo-geology and Remote Sensing	03
GEO-9126	Seismotectonics	03
GEO-9127	Tectonic Geomorphology	03

Course Code	Course Title	Credit hours
GEO-9128	Environmental Geology	03
GEO-9129	Environmental Law	03
GEO-9130	Water and Air Pollution	03
GEO-9131	Solid Waste Management	03
GEO-9132	Geochemical Exploration of Minerals	03
GEO-9133	Mining Geology	03
GEO-9134	Nuclear Geology	03
GEO-9135	Gemology	03
GEO-9136	Geowriting	03
GEO-9137	Advance Stratigraphy	03
GEO-9138	Advance Sequence Stratigraphy	03
GEO-9139	Micropaleontology	03
GEO-9140	Invertebrate Paleontology	03
GEO-9141	Biostratigraphy	03
GEO-9142	Geostatistics	03

List of Courses for Ph.D. 2nd Semester

Course Code	Course Title	Credit hours
GEO-9201	Sedimentary Petrology	03
GEO-9202	Geo Chemistry	03
GEO-9303	Isotope Geology	03
GEO-9204	Paleomagnetism	03
GEO-9205	Gravity and Magnetic Methods-II	03
GEO-9206	Seismic Exploration	03
GEO-9207	Vertical Seismic Profiling	03
GEO-9208	Soil Mechanics	03
GEO-9209	Concrete	03
GEO-9210	Aggregates and Cement	03
GEO-9211	Rock Slope Engineering	03
GEO-9212	Landslide Dam Hazards	03
GEO-9213	Slope Stabilization Techniques	03
GEO-9214	Landslides Risk Mitigation	03
GEO-9215	Petroleum Engineering	03
GEO-9216	Metamorphic Structures	03
GEO-9217	Sedimentary Structures	03
GEO-9218	Regional Tectonics	03
GEO-9219	Metallogeny and Plate Tectonics	03
GEO-9220	Quaternary Geology	03
GEO-9221	Advance GIS Techniques	03
GEO-9222	Soil Stratigraphy	03
GEO-9223	Geodesy	03
GEO-9224	Medical Geology	03
GEO-9225	Environmental Geochemistry	03
GEO-9226	Military Geology	03
GEO-9227	Environmental Economics	03

Course Code	Course Title	Credit hours
GEO-9228	Ore Deposits	03
GEO-9229	Geophysical Exploration of Minerals	03
GEO-9230	Vertebrate Paleontology	03
GEO-9231	Palynology and Paleobotany	03
GEO-9232	Geobotany	03

NOTE:

1. Details of courses will remain same as in previous scheme of study of M.Phil./Ph.D. Geology or the details of course content will be decided by the supervisory committee.
2. The supervisory committee shall select the Ph.D. elective courses for Ph.D. scholars depending upon facilities and resource person.
3. Ph.D. Geology extendable up to seven years.

Ph.D. Geology 2nd & 3rd Professional Year

Course Code	Course Title	Credit hours
GEO-9301	Seminar/Reading and Conference	S/U Basis
GEO-9302	Comprehensive Oral and written Examination	S/U Basis
GEO-9303	Ph.D. Dissertation (Compulsory)	24 credit hrs.

The ultimate desire of a human, as directed by Almighty Allah is to seek knowledge. An exemplary institution is one that not only helps in quenching the thirst for knowledge but also directs one to fulfill ones thirst. "Teachers are spiritual parent", a well-known saying. I got the perception of this golden saying practically by joining UAJK. Institute of Geology is playing role in the development of our nation. I always pray for the prosperity of UAJK.

Kh. Umair Majeed,
BS Geology, 8th Semester (M),
Session 2013-17

Geology is not only an intellectual discipline, it is also a profession. I am very grateful to the University AJK for establishing this prestigious Institute. I found all my teachers sympathetic, highly qualified experienced and co-operative. The learning environment is very fascinating and conductive. Syllabus is very comprehensive and up-to date. I thoroughly enjoyed and feel at comfort during my learning tenure.

Nusrat Nazir,
BS Geology,
8th Semester, 2013-17

It is a great honour for me to be among the pioneer BS students of the Institute of Geology UAJK. The environment here is healthy and conducive for learning. Faculty of the Institute is fully equipped with the latest technological skills and impressive theoretical knowledge. The faculty is polishing our practical skills to make us competent professionals. I am not only gaining skills but also confidence, dedication and finding pathways to mold my future. I suggest all the students who want to be Geologist, to get admission in UAJK and contribute in the progress of Country.

Yasir Sarfraz,
PhD Geology,
6th semester

Department of Statistics

Introduction

Statistics is concerned with those aspects which empower effective decision and to explore new horizons for incorporating multiple level of uncertainty in the farming of wise decisions.

Statistical science skills are powerful tools that play a valuable role in all pure and applied sciences as well as in finance, law and marketing. The M.Sc./ M.Phil. Programs in statistics are designed to provide students with comprehensive training in statistical theory and methodology and in the application of statistical methods to problems in a wide range of fields. The program is flexible and may be arranged to reflect students' interests and career goals.

The program uses a broad-based approach to statistics, providing up-to-date training in the major applications and an excellent balance between theory and application. It covers modern ideas in statistics including applied Bayesian Methods, generalized linear modeling and object-oriented statistical computing, together with grounding in traditional statistical theory and methods.

Mission

1. Deliver a high-quality statistics program for our majors and minors that prepares them for either the workplace or further study in graduate programs;
2. Offer service courses for the university that meet the needs of the various majors and enhance the statistical literacy of the students;
3. Provide university-wide support for research and professional development of faculty and students;

Objectives:

The Statistics Department graduate will:

- Have good working knowledge of the most commonly used

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FACULTY

Dr. Azhar Saleem Ph.D (Pak)
Maryam Sadiq, M.Phil (Pak)
Summaira Manzoor, M.Phil (Pak)
Syed Masroor Anwar, M.Phil (Pak)
Atif Abbasi, M.Phil (Pak)
Areeba Sadiq M.Phil (Pak)
Tahira Kanwal, MSc (Pak)

statistical methods, including:

- Statistical Modeling and the omnipresent role of variability
- Efficient Design of studies and construction of effective sampling plans
- Formal Inference Process
- Have background in probability, statistical theory, and mathematics, including especially calculus, linear algebra and symbolic and abstract thinking.
- Be able to synthesize and apply knowledge of common inferential methods, understanding the limitations of the procedures and the appropriate scope of conclusions.
- Communicate effectively (written and oral) with skills in collaboration (within and between disciplines) and teamwork, and in organizing and managing projects.
- Have good mastery of several standard statistical software packages and facility with data management strategies.
- To keep the students informed and updated with the latest developments in the modern era.
- To provide market oriented graduates and scholars to be able to share and contribute their expertise to the market.

Employability

The graduates have bright prospects and placed in a wide range of fields including teaching, Banking, Accounts, Financing, Agriculture, Statistical division, Management organization and research.

Programs:

Department of Statistics started functioning since 2005. The Department is offering the following full time degree programs.

BS Statistics	(4-Year)
M.Sc. Statistics	(Two Years)
M.Phil. Statistics	(Two Years)

Eligibility criteria for admission in B.S. Statistics

F.A., F.S.C., ICS, I-COM with at least 2nd division.

Scheme of Studies for B.S. (Statistics)

Degree Duration	8-10 Semesters
Courses	119 Credits
Seminar	1-Credit
Thesis/Project Report	6-Credit
Comprehensive Oral Examination	S/U Basis
Internship/Practical Training	S/U Basis
Total Credits	126 Credits

B.S 1st Year

1st Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-3101	Introductory Statistics	3	3
STAT-3102	Basic Economics	3	3
STAT-3103	Sociology	3	3
STAT-3104	Math-I	3	3
STAT-3105	English-I	3	3
STAT-3106	Islamic Studies	2	2
	Total		**17**

2nd Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-3201	Introduction to Probability	3	3
STAT-3202	Philosophy	3	3
STAT-3203	Arabic	2	2
STAT-3204	Math-II	3	3
STAT-3205	English-II	3	3
STAT-3206	Business Administration	3	3
	Total		**17**

3rd Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-4301	Basic Statistical Inference	3	3
STAT-4302	Introduction to Computer	3	3
STAT-4303	Pakistan Studies	3	3
STAT-4304	Psychology	3	3
STAT-4305	English-III	3	3
	Total		**15**

4th Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-4401	Introduction to Regression & Experimental Design	3	3
STAT-4402	Applied Statistics	3	3
STAT-4403	Communication Skills	3	3
STAT-4404	Linear Algebra	3	3
STAT-4405	Mass communication	3	3
	Total		**15**

5th Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-5101	Population Analysis and Official Statistics	3	3
STAT-5102	Experimental Designs-I	3	3
STAT-5103	Sampling Techniques-I	3	3
STAT-5104	Mathematical Methods for Statistics	4	4
STAT-5105	Statistical Methods	3	3
	Total		**16**

6th Semester
(Compulsory fundamental Course)

Course Code	Course Title	Th. Hrs	Credit hours
STAT-5201	Probability & Probability Distributions-I	3	3
STAT-5202	Experimental Designs-II	3	3
STAT-5203	Sampling Techniques-II	3	3
STAT-5204	Statistical Inference-I (Estimation)	3	3
STAT-5205	Regression Analysis-I	3	3
	Total		**15**

7th Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-6301	Probability & Probability Distributions-II	3	3
STAT-6302	Multivariate Statistics	3	3
STAT-6303	Statistical Packages	3	3
STAT-6304	Statistical Inference-II (Hypotheses Testing)	3	3
STAT-6305	Regression Analysis-II	3	3
STAT-6306	Seminar	1	0
	Total		**16**

8th Semester

Course Code	Course Title	Th. Hrs	Credit hours
STAT-6401	Comprehensive Oral Examination	S/U Basis	
STAT-6402	Internship/Practical Training	S/U Basis	

Note: Any Five of optional courses may be selected out of the following optional courses or any three optional course+ thesis may be selected out of the following optional courses.

Course Code	Course Title	Th. Hrs	Credit hours
STAT-6403	Quality Control and Quality Management	3	3
STAT-6404	Categorical data Analysis	3	3
STAT-6405	Bio Statistics	3	3
STAT-6406	Thesis	0	6
STAT-6407	Management and Operation Research	3	3
STAT-6408	Bayesian Statistics	3	3
STAT-6409	Survival Analysis	3	3
STAT-6410	Non-Parametric Methods	3	3
STAT-6411	Time Series Analysis and Forecasting	3	3
STAT-6412	Decision Theory	3	3
STAT-6413	Stochastic Processes	3	3
STAT-6414	Mathematical Modeling and Simulation	3	3
STAT-6415	Survey and Research Methods	3	3
STAT-6416	Robust Methods	3	3
STAT-6417	Reliability Analysis	3	3
STAT-6418	Actuarial Statistics	3	3

M.Sc. Program

Eligibility:

Eligibility criterion for admission in M.Sc. (Statistics) 2-year is B.A/B.Sc. at least in second division having Statistics with any other subject combination.

Scheme of Studies:

Normal Degree Duration	4 Semesters (Extendable up to 6 semesters)
Taught Courses	57 Credits Hours
Research Report	3-Credit Hours
Comprehensive Oral Examination	S/U Basis
Total Credits:	60Credits

Semester wise course breakdown for M.Sc. Statistics

1st Semester

Course Code	Course Title	Credit hours
STA-5101	Probability & Probability distributions-I	3(3-0)
STA-5102	Regression Analysis-I	3(3-0)
STA-5103	Sampling Techniques-I	3(3-0)
STA-5104	Mathematical Methods for Statistics	3(3-0)
STA-5105	Statistical Methods	3(3-0)
	Total	**15**

2nd Semester

Course Code	Course Title	Credit hours
STA-5201	Probability & Probability distributions-II	3(3-0)
STA-5202	Regression Analysis-II	3(3-0)
STA-5203	Sampling Techniques-II	3(3-0)
STA-5204	Statistical Inference-I	3(3-0)
STA-5205	Experimental Designs-I	3(3-0)
	Total	**15**

3rd Semester

Course Code	Course Title	Credit hours
STA-6301	Quality Control & Quality Management	3(3-0)
STA-6302	Research Methodology	3(3-0)
STA-6303	Statistical Packages	3(2-1)
STA-6304	Statistical Inference-II	3(3-0)
STA-6305	Experimental Design-II	3(3-0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit hours
STA-6401	Comprehensive Oral Examination	S/U Basis
STA-6402	Multivariate Analysis	3(3-0)
STA-6403	Time Series Analysis and Forecasting	3(3-0)
STA-6404	Population Analysis & Official Statistics	3(3-0)
Elective Courses		
The student will have to opt from either of the following: a)One course + Research report b)Two Courses		
STA-6405	Biostatistics	3(3-0)
STA-6406	Research Report	3(3-0)
STA-6407	Operation Research	3(3-0)
STA-6408	Bayesian Statistics	3(3-0)
STA-6409	Non-Parametric Methods	3(3-0)
STA-6410	Actuarial Statistics	3(3-0)
	Total	**15**

M.Phil Program

Eligibility:

Minimum requirements for MS/ M.Phil Program are as follows:

1. Sixteen years of schooling or 4-year edification (B.S Program with at least 120 credit hours after HSSC/F.A./F.Sc./Grade 12) equivalent will be required for admission to MS/ M.Phil.
2. The UGAT-General conducted by the University with a minimum 50% cumulative score will be required at the time of admission to M.S/ M.Phil.

Scheme of Studies:

The Syllabi and courses of studying for MPhil (Semester-I and Semester-II) Session 2015-17 and onward are hereby recommended. A total of 30 credit hours (detailed is below) of course work are required for MPhil Statistics. Scheme of studies is as follows:

Normal Duration	4 semesters (Extendable up to 6 Semester)
Taught Courses	24 Credit Hours
Thesis (STA-7301)	06 Credit Hours
Total	**30 Credit Hours**

Any four courses (12 credit hours) may be registered out of list of optional courses in Semester-I and Semester-II. Synopsis is to be submitted in Semester-II. Thesis topic should be approved by the BASR (06 credit hours).Thesis will be submitted at the end of Semester-IV.

List of Courses for M.Phil.

The scholar may opt any four courses (12 credit hours) out of the following in each of the Semester-I & II respectively. However, the maximum and minimum workload criterion for the scholar will remain as per the semester rules (18 years program).

2nd Semester*

Course Code	Course Title	Credit hours
STA-7X01	Theory of Estimation	3(3-0)
STA-7X02	Advanced Probability Theory	3(3-0)
STA-7X03	Advanced Regression Analysis	3(3-0)
STA-7X04	Advanced Quality Control	3(3-0)
STA-7X05	Categorical Data Analysis	3(3-0)
STA-7X06	Advanced Time Series and Forecasting	3(3-0)
STA-7X07	Hypotheses Testing	3(3-0)
STA-7X08	Advanced Bayesian Inference	3(3-0)
STA-7X09	Applied Logistics Regression	3(3-0)
STA-7X10	Numerical Analysis	3(3-0)
STA-7X11	Survival Analysis	3(3-0)
STA-7X12	Advanced Multivariate Methods	3(3-0)

***Note:** where "X" represents the semester.

Semester III & IV

Course Code	Course Title	Credit hours
STA-7301	Thesis (MPhil)	6(6-0)

Association with AJK University makes me privileged and honored. The time, I have spent here is undoubtedly memorable period of my life. After getting enrolled in MSc. in the department of Statistics, The University of Azad Jammu & Kashmir, I got a chance to groom my educational and research skills. I learned to be a diligent and dedicated student under the administration of such a talented faculty. I appreciate the hard work and efforts of the department, administration, faculty and students.

Aamir Awan,
MSc Statistics,
2nd Semester

The UAJK is a journey of exploration for me. The environment here has proved to be very fascinating and conducive for learning. AJK University is the most enjoyable and knowledgeable experience for my life. Desire of knowledge is like a thirst of riches increases ever with the acquisition of it and Department of Statistics provides a platform to fulfill all my dreams. I will never forget the time spent here in the Department of Statistics.

Humaira Khurshid,
BS Statistics,
7th Semester

The UAJK "an exclusive & unique institution", where the unclouded environment and highly prestigious faculty make it a distinguished one that motivates you to boost your potential & skills. This is the glorious time period of my life I ever spent. Department of Statistics has opened new door of opportunities in statistics in the country. Faculty members are highly cooperative qualified and experienced.

Saba Farooq,
BS Statistics,
5th Semester

Department of Zoology

Introduction

Department of Zoology is one of the most active departments in the University of Azad Jammu and Kashmir Muzaffarabad. Zoology as a subject is multidisciplinary in nature, involving study of organisms and their genetic, morphological and physiological attributes, their surrounding environment, and their role in conservation of environment. Zoology is a combination of various disciplines such as Molecular Biology, Biochemistry, Biotechnology, Toxicology, Genetics, Physiology, Ecology, Developmental Biology, Microbiology, Parasitology, Entomology, Freshwater Biology, Fisheries, and Wildlife etc. This subject has significant role in human resources development, food security, environmental conservation, sustainable development and ultimately in alleviation of poverty.

The department has a unique feature of degree programs, as it presents a balanced blend of the classical as well as modern trends of the new era. These programs range from invertebrate Zoology to Biotechnology. Every discipline has a unique importance in its place. For example, Biotechnology is an emerging broad field that employs an industrial technology on the biological synthesis of important compounds specially proteins, genetic engineering of the animals etc. Microbiology represents the basic knowledge of viruses, bacteria and micro-organisms which are mostly pathogenic and its impact on the other related field is immense i.e. agriculture, food pollution etc. As for as the importance of Physiology, Endocrinology and Toxicology is concerned, every person is keen enough to know how its body work and meets the changing demands. To keep pace with rapid advances in the health sciences, Physiology, Endocrinology and Toxicology are very important. Our environment plays a key role in

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FACULTY

Dr. Muhammad Siddique Awan, PhD. (Pak)
Dr. Basharat Ahmad, Ph.D. (Germany)
Dr. Shaukat Ali, Ph.D. (Netherlands)
Dr. Abdul Rauf, Ph.D. (Pak)
Dr. Saiqa Andleeb, Ph.D. (Pak)
Dr. Nasra Ashraf, Ph. D. (Pak)
Beenish Shahid, M.Phil. (Pak)
Riaz Aziz Minhas, M.Phil. (Pak)
Zahid Latif, M.Phil. (Pak)
Tasleem Akhtar, M.Phil. (Pak)
Saba Khalid, M.Phil. (Pak)

VISITING FACULTY

Farheen Shafiq , M.Phil. (Pak)
Irsa shafiq, M.Phil. (Pak)
Rozina Ghulam Mustafa M.Phil. (Pak)
Gulnaz Altaf, M.Phil. (Pak)
Tasleem Akhtar M.Phil. (Pak)

maintaining our good health. To keep it free form pollution caused by industrial effluent, ways of bioremediation (removal or degradation of environmental pollutants or toxic materials by living organisms) are applied, and for this, study of Bioremediation and environmental Biotechnology, Environmental Biology is obligatory.

The State of Jammu and Kashmir is extremely rich in wildlife resources and several threats are operating to deplete these resources without any sustainable development. Accordingly, some wild animals have become threatened which if not protected would soon become extinct. There is an intense need to explore these precious resources to manage them for their sustainable utilization to uplift the socioeconomic conditions of the local communities.

Keeping in view the national and global trends the department has currently initiated the BS-4 year degree program in Zoology. The department admits under graduate and graduate students for BS-4 Year, M.Sc., M.Phil. and Ph.D. degree programs in Zoology.

Job Opportunities

The alumni of the department are absorbed and being worked at crucial positions in various public and private institutions/organizations at national as well as international level. Majority of them are absorbed in Health departments, Wildlife and Fisheries Department, various conservation projects and programs, Animal and Plant Health Inspection Services (APHIS), Environmental Protection Agencies (EPA), Food and Drug Administrations (FDA), National Institute of Health (NIH), National Agriculture Research Center (NARC), Pakistan Agriculture Research Council (PARC), National Institute for Biotechnology and Genetic Engineering (NIBGE), National Institute of Agriculture and Biology (NIAB), Worldwide Fund for Nature (WWF), International Union for the Conservation of Nature and Natural Resources (IUCN) and various other UN organizations. Besides these fields, they are also working in various educational institutions, administrative and management departments and organizations. In short, the students graduating in the above offered programs are in great demand countrywide as well as internationally.

Scheme of studies for BS-4Year

Duration	8-12 Semesters
Courses	128 Credits
Thesis	06 Credits
Research Methodology/ Reading/Conference	01 Credit
Comprehensive Oral Examination	Satisfactory/ Un-Satisfactory
Total credits	135

Eligibility Criteria: F.Sc. Pre medical/ A level with 2nd division

Research Program

Research is an integral part of the degree programs. The emphasis stems from the fact that in this field there are yet a great number of phenomena that remains unexplained and unexplored and unexplored.

Keeping in view the modern trends and demands, department has offered research in various fields like Physiology, Endocrinology, Human Molecular Genetics, Ecology, Wildlife, Fisheries, Microbiology, Biotechnology and Toxicology.

1st Semester

Course Code	Course Title	Credit hours	Status
ENG-3101	English	3(3+0)	Compulsory
COM-3151	Introduction to Computer	2(1+1)	Compulsory
MAT-3141	Mathematics	2(2+0)	Compulsory
BOT- 3121	Botany	3(2+1)	General
CHM-3111	Chemistry	4(3+1)	General
ZOO-3131	Principles of Animal Life-I	4(3+1)	Foundation
	Total Credits	**18**	

2nd Semester

Course Code	Course Title	Credit hours	Status
ENG-3202	English	3(3+0)	Compulsory
ISL-3261	Islamic Studies	2(2+0)	Compulsory
BOT- 3222	Botany	3(2+1)	General
CHM-3212	Chemistry	3(2+1)	General
ZOO-3232	Principles of Animal Life-II	4(3+1)	Foundation
	Total Credits	**15**	

3rd Semester

Course Code	Course Title	Credit hours	Status
STA-3371	Statistics	2(2+0)	Compulsory
PKS-4381	Pakistan Studies	2(2+0)	Compulsory
BOT-4323	Botany	3(2+1)	General
CHM-4314	Chemistry	3(2+1)	General
ZOO-4333	Animal Diversity-I	3(2+1)	Foundation
ZOO-4334	Animal Form and Function-I	4(3+1)	Foundation
	Total Credits	**17**	

4th Semester

Course Code	Course Title	Credit hours	Status
ENG-4404	English-IV (report writing)	3(3+0)	Compulsory
BOT- 4424	Botany	3(2+1)	General
ZOO-4435	Animal Diversity-II	4(3+1)	Foundation
ZOO-4436	Animal Form and Function-II	4(3+1)	Foundation
CHM-4416	Chemistry	3(2+1)	Foundation
ARB-4491	Arabic	2(2+0)	Compulsory
	Total Credits	**19**	

5th Semester

Course Code	Course Title	Credit hours	Status
ZOO-5501	Cell Biology	4(3+1)	Compulsory
ZOO-5502	Animal Physiology	4(3+1)	ompulsory
ZOO-5503	Genetics	4(3+1)	Compulsory
ZOO-5504	Animal Ecology	4(3+1)	Compulsory
ZOO-5505	Zoogeography	2(2+0)	Compulsory
	Total Credits	**18**	

6th Semester

Course Code	Course Title	Credit hours	Status
ZOO-5601	General Biochemistry	4(3+1)	Compulsory
ZOO-5602	Developmental Biology	4(3+1)	Compulsory
ZOO-5603	Principles of Animal Taxonomy	3(2+1)	Compulsory
ZOO-5604	Biostatistics	2(2+0)	Compulsory
ZOO-5605	Paleontology and Evolution	4(3+1)	Compulsory
	Total Credits	**17**	

7th Semester

Course Code	Course Title	Credit hours	Status
	Elective I	3(2+1)	Elective
	Elective II	3(2+1)	Elective
	Elective III	3(2+1)	Elective
	Elective-IV	3(2+1)	Elective
	Elective-V	3(2+1)	Elective
ZOO-6725	Research Methodology	1(1+0)	Compulsory
	Reading/Conference	NC	Compulsory
ZOO-6824	Thesis (research work will be started in semester VII and the credit will be given in semester VIII)		
	Total Credits	**16**	

8th Semester

Course Code	Course Title	Credit hours	Status
	Elective-I	3(2+1)	Elective
	Elective-II	3(2+1)	Elective
	Elective-III	3(2+1)	Elective
	Elective-IV	3(2+1)	Elective
	Elective-V	3(2+1)	Elective
ZOO-6823	Comprehensive oral examination	S/U	Compulsory
	Reading/Conference	NC	Compulsory
ZOO-6824	Thesis (Research Project)	6(0+6)	
Note: Research students will select only three elective courses to complete 15 credit hrs.			
	Total Credits	**15**	

Course Contents of Compulsory/General Faculty Courses for BS-4 Year Program in Zoology

1st Semester

Course Code	Course Title	Credit hours	Status
ENG-3101	English	3(3+0)	Compulsory
COM-3151	Introduction to Computer	2(1+1)	Compulsory
MAT-3141	Mathematics	2(2+0)	Compulsory
BOT- 3121	Botany	3(2+1)	General
CHM-3111	Chemistry	3(2+1)	General
ZOO-3131	Principles of Animal Life-I	4(3+1)	Foundation
	Total Credits	**17**	

Note: The course contents of courses other than zoology will be adopted as prescribed by the relevant departments/University/HEC.

Scheme of studies for M.Sc. Zoology

Duration	4-6 Semesters
Courses	59 Credits
Thesis/Special papers	06 Credits
Research Methodology	01 Credit
Comprehensive Written Examination:	S/U basis
Total Credits	**66**

Eligibility

The students seeking admission in M.Sc. Zoology must have passed B.Sc. Examination with combination of the subjects Zoology, Botany and Chemistry in at least 2nd division or with CGPA of 2.5.

Research Program

Research is an integral part of the degree programs. The emphasis stems from the fact that in this field there are yet a great number of phenomena that remains unexplained and unexplored and unexplored.

Keeping in view the modern trends and demands, department has offered research in various fields like Physiology, Endocrinology, Human Molecular Genetics, Ecology, Wildlife, Fisheries, Microbiology, Biotechnology and Toxicology.

1st Semester

Course Code	Course Title	Credit hours	Status
ZOO-5101	Cell Biology	3+1	Compulsory
ZOO-5102	Animal Physiology	3+1	Compulsory
ZOO-5103	Animal Genetics	3+1	Compulsory
ZOO-5104	Animal Ecology	3+1	Compulsory
ZOO-5105	Zoogeography	2+0	Compulsory
	Total Credits	**18**	

2nd Semester

Course Code	Course Title	Credit hours	Status
ZOO-5201	General Biochemistry	3+1	Compulsory
ZOO-5202	Developmental Biology	3+1	Compulsory
ZOO-5203	Principles of Animal Taxonomy	2+1	Compulsory
ZOO-5204	Biostatistics	2+0	Compulsory
ZOO-5205	Paleontology and Evolution	3+1	Compulsory
	Total Credits	**17**	

3rd Semester

Course Code	Course Title	Credit hours	Status
	Elective- I	2+1	Elective
	Elective-II	2+1	Elective
	Elective-III	2+1	Elective
	Elective-IV	2+1	Elective
	Elective-V	2+1	Elective
ZOO-6325	Research Methodology/Reading/ Conferences	1+0	Compulsory
ZOO-6424	Thesis (research work will be started in semester III and		
	the credit will be given in semester IV)		
	Total Credits	**16**	

4th Semester

Course Code	Course Title	Credit hours	Status
	Elective-I	2+1	
	Elective-II	2+1	
	Elective-III	2+1	
	Elective-IV	2+1	
	Elective-V	2+1	
ZOO-6423	Comprehensive Written Examination	S/U	Compulsory
ZOO-6424	Thesis (Research Project)	0+6	
	Total Credits	**15**	

List of Elective Courses for M.Sc. Zoology III Semester

Course Code	Course Title	Lac. Hrs	Lab. Hrs	Credit Hours
ZOO-6301	Basic human genetics	2	1	3
ZOO-6302	Biodiversity & wildlife	2	1	3
ZOO-6303	Biological Techniques	1	2	3
ZOO-6304	Clinical Endocrinology	2	1	3
ZOO-6305	Economic Zoology	2	1	3
ZOO-6306	Environmental Toxicology	2	1	3
ZOO-6307	Fisheries & Aquaculture	2	1	3
ZOO-6308	Freshwater Fish Culture	2	1	3
ZOO-6309	General Biotechnology	2	1	3
ZOO-6310	General Entomology	2	1	3
ZOO-6311	General Microbiology	2	1	3
ZOO-6312	General Parasitology	2	1	3
ZOO-6313	General Toxicology	2	1	3
ZOO-6314	Helminthology	2	1	3
ZOO-6315	Hematology	2	1	3
ZOO-6316	Histology	2	1	3
ZOO-6317	Immunology	2	1	3
ZOO-6318	Industrial and Microbial Biotechnology	2	1	3
ZOO-6319	Invertebrata	2	1	3
ZOO-6320	Limnology-A	2	1	3
ZOO-6321	Neurophysiology	2	1	3
ZOO-6322	Principles of Fish Biology	2	1	3
ZOO-6323	Principles of Herpetology	2	1	3
ZOO-6324	Principles of Parasitology	2	1	3
ZOO-6325	Research Methodology	1	0	1
ZOO-6326	Reproductive Physiology	2	1	3
ZOO-6327	Wildlife Parasitology	2	1	3

List of Elective Courses for M.Sc. Zoology IV Semester

Course Code	Course Title	Lac. Hrs	Lab. Hrs	Credit Hours
ZOO- 6401	Animal Behavior	2	1	3
ZOO- 6402	Animal Pests and Disease Producing Organisms	2	1	3
ZOO- 6403	Applied Microbiology	2	1	3
ZOO- 6404	Biochemistry - II	2	1	3
ZOO- 6405	Bioremediation & Environmental Biotechnology	2	1	3
ZOO- 6406	Endocrinology	2	1	3
ZOO- 6407	Environmental Issues	2	1	3
ZOO- 6408	Fish Physiology	2	1	3
ZOO- 6409	Human Genetics	2	1	3
ZOO- 6410	Ichthyology (Fish Morphology)	2	1	3
ZOO- 6411	Limnology-B	2	1	3
ZOO- 6412	Mammalogy	2	1	3
ZOO- 6413	Medical Microbiology	2	1	3
ZOO- 6414	Medical Parasitology	2	1	3
ZOO- 6415	Molecular Biology	2	1	3
ZOO- 6416	Molecular Physiology	2	1	3
ZOO-6417	Principles and Kinetics of Toxicology	2	1	3
ZOO- 6418	Physiological Systems and Adaptations	2	1	3
ZOO- 6419	Principles of Ornithology	2	1	3
ZOO- 6420	Vector Biology	2	1	3
ZOO- 6421	Vertebrata	2	1	3
ZOO- 6422	Wildlife	2	1	3
ZOO- 6423	Comprehensive Oral Examination	0	0	S/U Basis
ZOO- 6424	Thesis	0	0	6

Scheme of Study for M.Phil./MS and Ph.D.

Scheme of Study for M Phil/MS

Duration	4-6 Semesters
Courses	24 Credits
Reading and Conference	01 Credit
Thesis	6 Credits
Total Credits	31 Credits

List of Floating (Elective) Courses for M.Phil./MS Zoology 1st & 2nd Semesters

Course Code	Course Title	Lac. Hrs
ZOO-7S01	Advances in Immunology	3
ZOO-7S02	Advance Instrumental Techniques	3
ZOO-7S03	Advances in Animal Physiology	3
ZOO-7S04	Advances in Aquaculture	3
ZOO-7S05	Advances in Medical Parasitology	3
ZOO-7S06	Advances in Microbiology	3
ZOO-7S07	Advances in Molecular Biology	3
ZOO-7S08	Advances in Molecular Cell Biology	3
ZOO-7S09	Advances in Molecular Genetics	3
ZOO-7S10	Advances In Aquatic Ecology & Management	3
ZOO- 7S11	An Introduction to Molecular Ecology	3
ZOO- 7S12	Animal Biotechnology	3
ZOO-7S13	Applications of Biotechnology	3
ZOO-7S14	Applications of Molecular Ecology	3
ZOO-7S15	Applied Entomology	3
ZOO-7S16	Applied Genetics	3
ZOO-7S17	Bacterial Genetics	3
ZOO-7S18	Behavioural Ecology	3
ZOO-7S19	Biochemistry of Drug Action	3
ZOO-7S20	Bioethics	3

Course Code	Course Title	Lac. Hrs
ZOO-7S21	Bioinformatics	3
ZOO-7S22	Biological Toxicology	3
ZOO-7S23	Biology and Control of Vertebrate	3
ZOO-7S24	Pests	3
ZOO-7S25	Biology of Birds and Mammals in Pakistan and AJK	3
ZOO-7S26	Cancer Biology	3
ZOO-7S27	Cancer Genetics	3
ZOO-7S28	Clinical Teratology	3
ZOO-7S29	Comparative Vertebrate Endocrinology	3
ZOO-7S30	Conservation Biology of wildlife	3
ZOO-7S31	Conservation Genetics	3
ZOO-7S32	Endangered Species and their Management	3
ZOO-7S33	Environment Health and Medicines	3
ZOO-7S34	Environmental Biotechnology	3
ZOO-7S35	Environmental Issues in Pakistan	3
ZOO-7S36	Enzyme Technology	3
ZOO-7S37	Fish Bioenergetics	3
ZOO-7S38	Fish Physiology and Breeding	3
ZOO-7S39	Food Biotechnology	3
ZOO-7S40	Forensic Science	3
ZOO-7S41	Freshwater Fish Culture	3
ZOO-7S42	Fundamentals of Biotechnology	3
ZOO-7S43	Fundamentals of Microbiology	3
ZOO-7S44	General and Comparative Endocrinology	3
ZOO-7S45	Genetics and Biotechnology in aquaculture	3
ZOO-7S46	Genomics	3
ZOO-7S47	GIS Techniques	3

Course Code	Course Title	Lac. Hrs
ZOO-7S48	Human Molecular Genetics	3
ZOO-7S49	Inland Fisheries Resources	3
ZOO-7S50	Medical Biotechnology	3
ZOO-7S51	Microbiology and Biotechnology	3
ZOO-7S52	Modern fish processing and quality Standards	3
ZOO-7S53	Molecular Virology	3
ZOO-7S54	Oncology & Growth Control	3
ZOO-7S55	Pharmaceutical Biotechnology	3
ZOO-7S56	Physiology of Excitable Tissues	
ZOO-7S57	Population Genetics	3
ZOO-7S58	Principles and Kinetics of Toxicology	3
ZOO-7S59	Principles of Ornithology	3
ZOO-7S60	Principles of Wildlife Management	3
ZOO-7S61	Recombinant DNA Technology	3
ZOO-7S62	Regulation of Gene Expression	3
ZOO-7S63	Reproductive Animal Biotechnology	3
ZOO-7S64	Restoration Ecology and Sustainable Development	3
ZOO-7S65	Scientific Writing & Publishing Results	3
ZOO-7S66	Stem Cells Biology	3
ZOO-7S67	Systemic Toxicology	3
ZOO-7S68	Techniques in Biotechnology	3
ZOO-7S69	Wildlife of Pakistan and Azad Jammu & Kashmir	3
ZOO-7S70	Wildlife Study Techniques	3

M.Phil. 3rd and 4th Semester

Course Code	Course Title	Lec. Hrs	Lab. Hrs	Credit Hrs
ZOO-7S71	Thesis (M.phil.)	0	0	06
ZOO-7S72	Reading and Conference	0	0	1

Scheme of Study for Ph.D.

Duration	6-10 Semester
Courses	18 Credits hours minimum
Reading and Conference	01 Credits
Thesis	26 Credits
Total Credits	**45**

List of Floating (Elective) Courses for Ph.D. Zoology 1st & 2nd Semesters

Course Code	Course Title	Lac. Hrs
ZOO-9S01	Advances in Immunology	3
ZOO-9S02	Advance Instrumental Techniques	3
ZOO-9S03	Advances in Animal Physiology	3
ZOO-9S04	Advances in Aquaculture	3
ZOO-9S05	Advances in Medical Parasitology	3
ZOO-9S06	Advances in Microbiology	3
ZOO-9S07	Advances in Molecular Biology	3
ZOO-9S08	Advances in Molecular Cell Biology	3
ZOO-9S09	Advances in Molecular Genetics	3
ZOO-9S10	Advances In Aquatic Ecology & Management	3
ZOO- 9S11	An Introduction to Molecular Ecology	3
ZOO- 9S12	Animal Biotechnology	3
ZOO-9S13	Applications of Biotechnology	3
ZOO-9S14	Applications of Molecular Ecology	3
ZOO-9S15	Applied Entomology	3
ZOO-9S16	Applied Genetics	3
ZOO-9S17	Bacterial Genetics	3
ZOO-9S18	Behavioural Ecology	3
ZOO-9S19	Biochemistry of Drug Action	3
ZOO-9S20	Bioethics	3
ZOO-9S21	Bioinformatics	3
ZOO-9S22	Biological Toxicology	3
ZOO-9S23	Biology and Control of Vertebrate Pests	3
ZOO-9S24	Biology of Birds and Mammals in Pakistan and AJK	3
ZOO-9S25	Cancer Biology	3
ZOO-9S26	Cancer Genetics	3
ZOO-9S27	Clinical Teratology	3
ZOO-9S28	Comparative Vertebrate Endocrinology	3

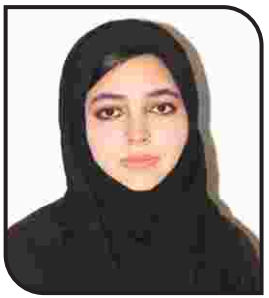
Course Code	Course Title	Lac. Hrs
ZOO-9S29	Conservation Biology of wildlife	3
ZOO-9S30	Conservation Genetics	3
ZOO-9S31	Endangered Species and their Management	3
ZOO-9S32	Environment Health and Medicines	3
ZOO-9S33	Environmental Biotechnology	3
ZOO-9S34	Environmental Issues in Pakistan	3
ZOO-9S35	Enzyme Technology	3
ZOO-9S36	Fish Bioenergetics	3
ZOO-9S37	Fish Physiology and Breeding	3
ZOO-9S38	Food Biotechnology	3
ZOO-9S39	Forensic Science	3
ZOO-9S40	Freshwater Fish Culture	3
ZOO-9S41	Fundamentals of Biotechnology	3
ZOO-9S42	Fundamentals of Microbiology	3
ZOO-9S43	General and Comparative Endocrinology	3
ZOO-9S44	Genetics and Biotechnology in aquaculture	3
ZOO-9S45	Genomics	3
ZOO-9S46	GIS Techniques	3
ZOO-9S47	Human Embryology and Teratology	3
ZOO-9S48	Human Molecular Genetics	3
ZOO-9S49	Inland Fisheries Resources	3
ZOO-9S50	Medical Biotechnology	3
ZOO-9S51	Microbiology and Biotechnology	3
ZOO-9S52	Modern fish processing and quality Standards	3
ZOO-9S53	Molecular Virology	3
ZOO-9S54	Oncology & Growth Control	3
ZOO-9S55	Pharmaceutical Biotechnology	3
ZOO-9S56	Physiology of Excitable Tissues	
ZOO-9S57	Population Genetics	3

Course Code	Course Title	Lac. Hrs
ZOO-9S58	Principles and Kinetics of Toxicology	3
ZOO-9S59	Principles of Ornithology	3
ZOO-9S60	Principles of Wildlife Management	3
ZOO-9S61	Recombinant DNA Technology	3
ZOO-9S62	Regulation of Gene Expression	3
ZOO-9S63	Reproductive Animal Biotechnology	3
ZOO-9S64	Restoration Ecology and Sustainable Development	3
ZOO-9S65	Scientific Writing & Publishing Results	3
ZOO-9S66	Stem Cells Biology	3
ZOO-9S67	Systemic Toxicology	3
ZOO-9S68	Techniques in Biotechnology	3
ZOO-9S69	Wildlife of Pakistan and Azad Jammu & Kashmir	3
ZOO-9S70	Wildlife Study Techniques	3

Ph.D. 3rd and 4th Semester

Course Code	Course Title	Credit Hrs
Zoo-9S71	PhD.	26
Zoo-9S72	Reading and Conference	1

There is no wealth like knowledge. We share the same belief. We have overcome all barriers to advance ourselves through leaving. Our department has been playing a crucial role is providing a chance for aspiring learners to receive higher education that enables them to scale new heights.



Syeda Sana Fatima
MPhil Scholar Zoology,
2nd Semester

The University took positive steps which are beneficial for academic endeavors. I got chances to present my view point before my fellow students through group discussions. It enhanced my speaking power and added to my confidence. Presentation gave exposure to me. Research work is conducting would be beneficial in my future pursuits.

Faisal Farooq
MPhil Zoology,
4th Semester

I am Um- e - Laila Hussain student of BS Zoology third semester. Zoology department is an ideal place for students to overcome all the barriers in making their dreams come true. Studying in this department is a prestige for me. This department provides a wonderfully encouraging environment for learning, through provoking opportunities for character building and establishes an awfully supportive competition among the students.

Um-e-Laila Hussain
BS Zoology,
3rd Semester,

The Faculty of Arts

Dear Students

"The Faculty of Arts is celebrating its 37th year in 2017. The faculty is growing from strength to strength. A friendly, inclusive atmosphere is the key feature of the Faculty. The Faculty of Arts provides a wide range of Master's level courses including some of them leading to M. Phil. and Ph.D. degrees. These programs are designed in view of the local and global job markets and secure the interests of the students. The way courses are designed during last two years, provides students with opportunities to develop practical skills of acquiring, promoting and delivering knowledge. The faculty is rapidly progressing in terms of addition of new need based degree programs as well as improvement in quality of existing programs. All is done with the aim of providing better education at lower cost to meet the current and emerging needs."

Prof. Dr. Ayesha Sohail

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DEPARTMENT/INSTITUTE

Art & Design
Business Administration
English
Institute of Education
Islamic Studies
Institute of Languages
Kashmir Studies
Kashmir Institute of Economics
Law
Psychology
Sociology & Rural Development
Urdu

Art & Design

Introduction

Kashmir is the land of unique and charismatic beauty, ancient literature, glorious culture, languages, religions, arts and crafts, music and dance.

The department of Art & Design started functioning in 1980, bearing the name of University College of Textile Designing in Old Campus, Muzaffarabad. It is the only institution of its kind in Azad Kashmir. The Department of Art and Design has launched the four-year program of BFA. This program is being conducted under the Semester System comprising eight semesters. A unique feature of this program is that it represents a balanced blend of classical and modern trends, theoretical and practical knowledge related to the field of Art and Design. For effective exploitation of experience, skills, technical knowledge of teaching staff and to impart training to the students, the following three disciplines have been introduced;

Bachelor in Textile Design 4-year Program
Bachelor in Graphics Design 4-year Program
Bachelor in Painting 4-year Program

Facilities are provided to the students to bring the level of our education at par with National College of Arts, Lahore. Latest courses are offered in accordance with the recommendations of Higher Education Commission. Having passed this course a vast field of opportunities is open to those who are keen to carry on with their academic pursuits.

The Department of Art & Design has great potential to expand in diverse fields/ subjects which are of great relevance to the present day needs of the work market. It has been set up with an aim to provide the students with the best academic life to meet the challenges of practical lifein the relevant field of profession.

CHAIRPERSON
Mrs. Fatia Shahzadi
M. Phil (Pak), MFA (India)
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artanddesignuajk@outlook.com

FACULTY

Mrs. Safina Latif, M.Phil (Pak) MFA (Pak)
Mrs. Rukhsna Riaz, M.A Fine Arts (Pak), (on study leave)
Mr. Jahanzaib Khan Afridi, M.Phil (Pak) MFA (Pak)
Mr. Shahnawaz Chishti, MFA (Pak)
Ms. Sidra Khwaja BFA (Pak)
Mrs. Abida Hanif, MFA (Pak)
Mrs. Fatima Yaqoob, M.Phil (Pak) MFA (Pak)
Mr. Kh. Amir Rasheed, M.Phil (continued) MFA (Pak)
Mr. WaqasTanvir, M.Phil (Pak) MFA (Pak)
Ms. Maria Khalid, M.Phil (Pak) BFA (Pak)

Work of Commercial Value

During the education, students are commercially linked with the outside world of media, textile and art by doing internship with the organizations like Sitara Textiles, Channel 7, Kohinoor textile mills Ltd. Al Meezan Arts, Digital Print Zone, Asia Textiles, etc.

Exhibitions at commercial level are also organized to promote the projects designed and made by students with the full support of media to give coverage and exposure to their work.

Commercial Linkages

With the help of exhibitions, commercial links are being built up for the future and career of students. The Small Industries Department of AJK is Involving Art & Design department for the development of their industry and is willing to hire students in future. Several exhibitions with the collaboration of TDAP (Trade Development Authority Pakistan) have also taken place at commercial level. Tourism Department of AJK is also interested in collaborating with the department for innovative ideas in the development of their handicrafts and souvenirs. Since the Department of Art & Design has signed M.O.U with MINTEX (Ministry of Textile Industry, GOP) to facilitate the local industrialists and artisans to boost these centuries-old Kashmiri heritage and to introduce Kashmiri art & craft, the department has become part of the international market.

Department is also organizing workshops & seminars in collaboration with AJK TAVTA, ECO & PNCA. A series of Programs, seminars, exhibition, and workshop activities have been identified as celebrations of events. Department has signed M.O.U with Red Crescent and is organizing Spring Festival every year.

Job Opportunities

The graduates will have a vast field to choose from Drawing and Designing which provides base for many fields. Fine Arts graduates play an important role in textile engineering, education department, publications, industries, media and other advertising agencies.

Textile and fashion industry depends on textile designing. This skill is market oriented. In this age of competition; designing skill can capture the market.

Besides the field of employment our graduates can establish their own cottage Industries.

The graduates are serving in Public sector as well as private sector like Kohinoor Textile Mills Ltd, SITARA Textiles, and ASIA Textiles.

Programme

BFA (Eight Semesters)
The title of degree will be BFA Honors
(Four Year)

Eligibility

F.A. /F.Sc. at least in second division

Scheme of Study of Art & Design

Duration:	8-10 Semesters
Course Work:	121 Credits
Project:	06 Credits
Comprehensive Oral Examination:	S/U Basis
Internship/ Practical Training:	S/U Basis
Total Credit Hours:	127 Credits

1st Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
ISD-3101	Islamic Studies	2	0	2
A&D -3102	Drafting	0	2	2
A&D-3103	Drawing-I	0	3	3
ENG-3104	English	3	0	3
A&D-3105	Basic Design	0	3	3
STA-3106	Statistics	3	0	3

2nd Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
CIT-3201	Introduction to Computer & IT	1	2	3
A&D -3202	Art History -I	3	0	3
A&D -3203	Drawing-II	0	3	3
ARB -3204	Arabic	3	0	3
A&D -3205	Painting	0	3	3
A&D -3206	Material & Process	3	0	3

3rd Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
PSD-4301	Pak Studies	2	0	2
A&D-4305	Art History-II	3	0	3
A&D-4303	Drawing-III	0	3	3
A&D-4304.A	Major Painting-I	1	3	4
A&D-4304.B	Major Textile-I	1	3	4
A&D-4304.C	Major Graphics-I	1	3	4
A&D-4306.A	Techniques Painting	0	3	3
A&D-4306.B	Techniques Textile	0	3	3
A&D-4306.C	Techniques Graphics	3	3	3
SRW-4302	Scientific Report Writing	3	0	3

4th Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
CSK-4401	Communication Skills	3	0	3
A&D-4402	History of Art-III	3	0	3
A&D-4403	Drawing-IV	0	3	3
A&D-4404.A	Major Painting-II	0	3	3
A&D-4404.B	Major Textile-II	0	3	3
A&D-4404.C	Major Graphics-II	0	3	3
A&D-4405.A	Interior for Painting	0	3	3
A&D-4405.B	Textile for Interior	0	3	3
A&D-4405.C	Graphics for Interior	0	3	3
A&D-4406	Art Culture & Society	0	3	3

5th Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
A&D-5501.A	Painting the figure in context	0	3	3
A&D-5501.B	Fabric Dying & Painting	0	3	3
A&D-5501.C	Intro to Illustration	0	3	3
A&D-5502	History of Art IV	3	0	3
A&D-5503	Drawing-V	0	3	3
A&D-5504.A	Composition-I	0	3	3
A&D-5504.B	2D Print Design(App & Interior)	0	3	3
A&D-5504.C	Computer Graphics	0	3	3
A&D-5505	Marketing	3	0	3
	Minor-I			
A&D-5506.A	Photography	0	3	3
A&D-5506.B	Miniature Painting	0	3	3
A&D-5506.C	Calligraphy	0	3	3
A&D-5506.D	Sculpture	0	3	3
A&D-5506.E	Kashmir, Archeology & Heritage	0	3	3

6th Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
A&D-5601.A	Composition-II	0	3	3
A&D-5601.B	Woven Design-I	0	3	3
A&D-5601.C	Mag Illustration	0	3	3
	Minor-II			
A&D-5601.A	Art Craft & Kashmir	0	3	3
A&D-5602.B	Land scape Painting	0	3	3
A&D-5603.C	Studio Photography	0	3	3
A&D-5604.D	Art for Community	0	3	3
A&D-5605.E	Applied Arts	0	3	3
A&D-5605.F	Graphic art & Publishing	0	3	3
A&D-5603	Drawing-VI	0	3	3
A&D-560.A	Miniature Painting	0	3	3
A&D-560.B	Computer for Textile-I	0	3	3
A&D-560.C	Computer for Graphics-I	0	3	3
A&D-5605.A	Graphic Arts-I	0	3	3
A&D-5605.A	Hand Screen Printing	0	3	3
A&D-5605.A	Techniques of Printing	0	3	3
A&D-5606	Muslim Art & Architecture	0	3	3

7th Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
A&D-6701.A	Studio Painting	0	3	3
A&D-6701.B	Design	0	3	3
A&D-6701.C	Woven Design-II Illustration, Communication Design	0	3	3
A&D-6702.A	Art in Pakistan	3	0	3
A&D-6702.B	History of Textile Design	3	0	3
A&D-6702.C	History of Graphics	3	0	3
A&D-6703	Drawing-VII	0	3	3
A&D-6704.A	Mughal Art	0	3	3
A&D-6704.B	2D Fabric Rendering	0	3	3
A&D-6704.C	Advertising Seminar	0	3	3
A&D-6705.A	Graphic Arts-II	0	3	3
A&D-6705.A	Computer for Textile-II	0	3	3
A&D-6705.A	Computer for Graphic-II	0	3	3
A&D-6706.A	Sculpture	0	3	3
A&D-6706.B	Fashion Design	0	3	3
A&D-6706.C	Advertising Design	0	3	3

8th Semester

Course Code	Course Title	Lec. Hrs	Studio Hrs	Credit Hrs
A&D-6801	Research Methodology	3	0	3
A&D-6802	Internship	0	0	S/U
A&D-6803	Exhibition of Work/Project	0	6	6
A&D-6804	Thesis Report	2	0	2
A&D-6805	Comprehensive Oral Exhibition			S/U

Elective Subjects:

Elective-I Course Code BFA-362

Photography
Miniature Painting
Calligraphy
Sculpture
Kashmir, Archeology, and Heritage
Islamic Art

Elective-II Course Code BFA-474

Art Craft and Kashmir
Landscape painting
Studio Photography
Art for Community
Applied Arts
Graphic Arts and Publishing

The UAJK is one of the top ranking Universities of Pakistan. Art & Design department is absolutely stupendous and as far as BFA Program is concerned, it is commendable & highly admirable. The faculty members are qualified & experienced. I appreciate the hard work and efforts of the department, administration, faculty & students.

Anza Zafar,
Art & Design, 6th Semester

After getting enrolled in the department of the Art & Design at UAJK, I got a chance to groom my educational as well as other skills. I learned to be a diligent & dedicated student under administration of such a talented faculty. I pray for the betterment & prosperity of my department as well as AJK University.

Mehran Khan,
Art & Design, 4th Semester

Business Administration

Introduction

To cater the growing demands of the market, on the directive of the Vice Chancellor, Department of Business Administration was established in Nov, 2010 in the University of AJK at Muzaffarabad. The primary objective of the formation of this department was to provide an opportunity to surrounding community to get quality managerial education at their door step. This experiment met a great success; we received a very warm response from the market in terms of no. of admissions we got in five years. Currently, the department offers BBA (Honors 4 year) & MBA (3.5 year) in the evening session. The qualified faculty having both research and industry experience is committed to strive for academic excellence. The department is committed to an overall balance among scholarly activities, and liaison with the business industry. The department promotes mutual respect, professional development, ethical conduct, freedom of enquiry and expression, and equal opportunities.

Our Vision

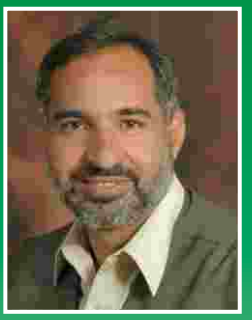
"Transforming local minds into global minds"

Our Objective

Our primary objective is "to train and educate a class of business leaders who will learn cutting-edge technologies and practical business skills in a broader intellectual and ethical framework to respond to the challenges and opportunities of the ever-changing market place".

Our Philosophy

Merit Based Approach: Department adheres to merit as the sole criterion in its decision making. This applies to all aspects of its operations, from selection of faculty and staff, to



CHAIRMAN
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FACULTY

Saliha Gul Abbasi, PhD. Scholar (Pak)
Kh. Aftab Qadir Kant PhD. Scholar (Pak)
Bilal Ahmad Abbasi, PhD. Scholar (Malaysia) (on study leave)
Raja Abdul Ghafoor Khan, PhD. Scholar (Turkey) (on study leave)
Mudassar Hussain, PhD. Scholar (Turkey) (on study leave)
Fareeha Javed Qureshi, MS (Pak)
Khuram Ejaz, MS (Pak)
Umer Ali, MS (Pak)
Syed Mubasher Hussain Naqvi, M.Phil (Pak)
Ms. Aimen Khawaja, M.Phil (Pak)
Syeda Takreem Zahra Naqvi, M. Phil (Pak)
Syed Babar Bukhari, MS (Pak)
Ms. Afshan Muneer , MS (Pak)
Nazia Akbar Kiani, MS (Pak) (on deputation)

admission and evaluation of students.

Hard Work: We believe that sustained hard work provides the underpinning for the socio-economic development of a nation.

Value Addition: Our programs are structured so that every activity enhances student learning and individual development. All activities are thus designed with definite learning objectives.

Character Building: We consider character building to be an integral aspect of our programs, as learning without personal integrity will be of little value to the individual and the society.

Programmes

- BBA Honors (4 Years)
- M.Com (2 Years)
- MBA (3.5 Years)

BBA (Hons) 4 Years Program

Eligibility:

The eligibility criteria for admission in BBA (Hons) is;

- FA, FSc, I.Com, and ICS with at-least second division from any recognized institution.
- Age should not be more than 23 years on last date of reception of applications.
- The test/interview may be arranged to determine the merit.

Scheme of Study for BBA:

Duration:	8-10 Semesters
Courses:	129 Credits
Oral/Comprehensive exam:	S/U Basis
Internship:	S/U Basis
Total Credit Hours:	129 Credits

1st Semester

Course Code	Course Title	Credit Hrs
BBA-3101	Introduction to Business Administration	3
BBA-3102	Business English	3
BBA-3103	Business Math-I	3
BBA-3104	Introduction to Computers	3
BBA-3105	Economic Theory(Micro)	3
BBA-3106	Islamic Studies	2

2nd Semester

Course Code	Course Title	Credit Hrs
BBA-3201	Introduction to Management	3
BBA-3202	Economic Theory(Macro)	3
BBA-3203	Business Math-II	3
BBA-3204	Financial Accounting-I	3
BBA-3205	Report Writing Skills	3
BBA-3206	Pak. Studies	2

3rd Semester

Course Code	Course Title	Credit Hrs
BBA-4301	Statistics for Business	3
BBA-4302	Financial Accounting-II	3
BBA-4303	Fundamentals of Marketing	3
BBA-4304	Communication Skills	3
BBA-4305	Computer Analysis & Design	3
BBA-4306	Human Resource Management	3

4th Semester

Course Code	Course Title	Credit Hrs
BBA-4401	Business Finance	3
BBA-4402	Statistical Inference	3
BBA-4403	Corporate & Business Law	3
BBA-4404	Sociology	3
BBA-4405	Cost Accounting-I	3
BBA-4406	Introduction to Strategic Management	3

5th Semester

Course Code	Course Title	Credit Hrs
BBA-5501	Research Methodology	3
BBA-5502	Financial Management	3
BBA-5503	Organization Behavior	3
BBA-5504	Cost Accounting-II	3
BBA-5505	Financial Institutions	3

6th Semester

Course Code	Course Title	Credit Hrs
BBA-5601	Entrepreneurship	3
BBA-5602	Managerial Economics	3
BBA-5603	Consumer Behavior	3
BBA	Elective-I	3
BBA	Elective-II	3
BBA-5604	Summer Internship	S/U Basis

7th Semester

Course Code	Course Title	Credit Hrs
BBA-6701	International Relations & current affairs	3
BBA-6702	Pak. Eco. Environment	3
BBA-6703	Management Information System	3
BBA	Elective-III	3
BBA	Elective-IV	3

8th Semester

Course Code	Course Title	Credit Hrs
BBA-6801	Applications of Computer Software in Business Management	3
BBA-6802	Arabic	2
BBA-6803	Psychology	3
BBA	Elective-V	3
BBA	Elective-VI	3

Elective & Specialization Courses

Marketing

Course Code	Course Title	Credit Hrs
BBA-3001	Consumer Behavior	3
BBA-3002	International Marketing	3
BBA-3003	E-Marketing	3
BBA-3004	New Product Development	3
BBA-3005	Integrated Marketing Communication	3
BBA-3006	Brand Management	3
BBA-3007	Services Marketing	3
BBA-3008	Industrial Marketing	3
BBA-3009	Marketing Research	3
BBA-3010	Social Marketing	3
BBA-3011	Advertising & Event Management	3
BBA-3012	Direct Marketing & Sales Promotion	3
BBA-3013	Marketing of IT & Telecom Products	3
BBA-3014	Seminar in Marketing	3
BBA-3015	Social Media Marketing	3
BBA-3016	Tourism Marketing	3

Finance

Course Code	Course Title	Credit Hrs
BBA-3020	International Finance	3
BBA-3021	Investment & Portfolio Management	3
BBA-3022	Advanced Financial Management	3
BBA-3023	International Financial Institutions & Capital Markets	3
BBA-3024	Credit Management	3
BBA-3025	Corporate Finance	3
BBA-3026	Commercial Banking	3
BBA-3027	Analysis of Financial Statements	3
BBA-3028	Business Taxation	3
BBA-3029	Islamic Finance	3
BBA-3030	Seminar in Finance	3
BBA-3031	Financial Risk Management	3
BBA-3032	Behavioral Finance	3
BBA-3033	Case Study in Corporate Finance	3

Management

Course Code	Course Title	Credit Hrs
BBA-3040	Crisis & Conflict Management	3
BBA-3041	Human Resource Development	3
BBA-3042	Compensation Management	3
BBA-3043	Human Resource Information Systems	3
BBA-3044	Organizational Development & Change Management	3
BBA-3045	International HRM	3
BBA-3046	Strategic HRM	3
BBA-3047	Culture Communication	3
BBA-3048	Organization Development	3
BBA-3049	Public policy	3
BBA-3050	Management of Innovation & Change	3
BBA-3051	Seminar in HRM	3
BBA-3052	Performance Management	3
BBA-3053	Collective Bargaining	3
BBA-3054	Job Analysis Practices	3

The students have to appear for the Comprehensive Viva (Satisfactory/ Un-satisfactory basis) after sucessfully passing all Eight semesters of BBA. Course Code for this viva will be BBA-6404.

Masters of Commerce (M.Com)

2 Years Programme

Eligibility criteria of M.com program

Students having 14 years of education in Business or Commerce from HEC recognized institutions having at least 2nd division in last degree are eligible to apply for admission in M.Com Program.

M.Com course structure will consist of four semesters, with the following break-up:

1st Semester

Course Code	Course Title	Credit Hrs
MCM - 5101	Financial Accounting	3
MCM - 5102	Introduction to Computers	3
MCM - 5103	Business Communication and Report Writing	3
MCM - 5104	Principles of Management	3
MCM - 5105	Principles of Marketing	3

2nd Semester

Course Code	Course Title	Credit Hrs
MCM - 5201	Quantitative Techniques in Business	3
MCM - 5202	Performance Management	3
MCM - 5203	Economic Analysis	3
MCM - 5204	Corporate and Business Law	3
MCM - 5205	Financial Management	3

3rd Semester

Course Code	Course Title	Credit Hrs
MCM - 6301	Taxation	3
MCM - 6302	Advanced Financial Accounting	3
MCM - 6303	Research Methods and Techniques	3
MCM -	Elective	3
MCM -	Elective	3
MCM - 6304	Summer Internship	S/U

4th Semester

Course Code	Course Title	Credit Hrs
MCM - 6401	Managerial Accounting	3
MCM - 6402	Investment Analysis and Portfolio Management	3
MCM - 6403	Financial Reporting	3
MCM -	Elective	3
MCM -	Elective	3

Elective Courses for M.Com Programme

Students are required to choose from following group of courses for electives given in M.Com degree course structure. Courses would be offered on the basis of availability of relevant teachers. The minimum requirement for offering any specialization would be of 10 students.

Accounting & Finance

Course Code	Course Title	Credit Hrs
MCM - 5001	Corporate Finance	3
MCM - 5002	International Accounting	3
MCM - 5003	Banking Management	3
MCM - 5004	Insurance Management	3
MCM - 5005	International Finance	3
MCM - 5006	Principles of Auditing	3
MCM - 5007	Governmental Accounting	3
MCM - 5008	International Accounting	3
MCM - 5009	Advanced Management Auditing	3
MCM - 5010	IAS and IFRS	3
MCM - 5011	Islamic Banking & Finance	3
MCM - 5012	E-Commerce	3

- Students having completed 14 years of education in Business or Commerce from HEC recognized institutions having at least 2nd division in last degree are eligible to apply for admission in M.Com Program.
- The students have to appear for the Comprehensive Viva after sucessfully passing all semesters of M.Com. The viva will be non-credit and on Satisfactory/ Un-satisfactory basis. The Course Code for this viva will be MCM-6511.

Masters of Business Administration (MBA) 3.5 Years Programme

Currently, Department is offering MBA 3.5 years after 14 year of education, making it Masters' degree of 17.5 years.

Eligibility Criteria for Mba (3.5 Years) Program

Students who have completed 14 years of education from HEC recognized institutions having at least 2nd division in last degree are eligible to apply for admission in MBA Programme.

MBA course structure will consist of seven semesters, with the following break-up:

1st Semester

Course Code	Course Title	Credit Hrs
MBA - 5101	Financial Accounting	3
MBA - 5102	Principles of Microeconomics	3
MBA - 5103	Business Communication & Report Writing	3
MBA - 5104	Principles of Management	3
MBA - 5105	Principles of Marketing	3

2nd Semester

Course Code	Course Title	Credit Hrs
MBA - 5201	Financial Management	3
MBA - 5202	Behavioral Sciences for Management	3
MBA - 5203	Human Resource Management	3
MBA - 5204	Principles of Macroeconomics	3
MBA - 5205	Cost Accounting	3

3rd Semester

Course Code	Course Title	Credit Hrs
MBA - 6301	Business Statistics	3
MBA - 6302	Consumer Behavior	3
MBA - 6303	Business Research Methods	3
MBA -	Elective-I	3
MBA -	Elective-II	3

4th Semester

Course Code	Course Title	Credit Hrs
MBA - 6401	Business Law	3
MBA - 6402	Entrepreneurship	3
MBA - 6403	Management Information Systems	3
MBA -	Elective-III	3
MBA -	Elective-IV	3

Exit policy after 4th Semester of MBA (2 Years Programme)

- To facilitate the students who wish to have 16 years education in Business, i.e. BBS, but had enrolled in MBA, an exit window will be open after completing four semesters successfully.
- They will have to apply after third semester of MBA so that they will be asked to do internship (non-credit S/U basis) in summer semester to be eligible for BBS.
- If the student adopts this option after fourth semester, he/ she will be offered internship (non-credit S/U basis) at that time.

5th Semester

Course Code	Course Title	Credit Hrs
MBA - 7501	Statistical Inferences	3
MBA - 7502	Managerial Economics	3
MBA - 7503	Issues in Financial Reporting	3
MBA - 7504	Managerial Accounting	3
MBA -	Elective-V	3

6th Semester

Course Code	Course Title	Credit Hrs
MBA - 7601	Strategic Finance	3
MBA - 7602	Business Policy	3
MBA - 7603	Organizational Behavior	3
MBA - 7604	Brand Management	3
MBA -	Elective-VI	3

7th Semester*

Course Code	Course Title	Credit Hrs
MBA - 8701	Business Consultancy Project*	6
	OR	
MBA - 8702	Advanced Research Methodolgy	3
MBA - 8703	Business Project*	3
	OR	
MBA -	Elective-VII	3
MBA -	Elective-VIII	3

* In case of consultancy project (06 Cr Hrs.), students will have to first qualify U-GAT test conducted by the University.
The project, either business project (03 Cr Hrs.) or consultancy project (06 Cr Hrs.), will be done on individual basis, not in groups. Student will have to request and take consent from available faculty members for project supervision. It will be the discretion of the supervisor if he/ she makes' a group of students and give them a group project instead of individual projects.

The group will have to defend the justification of making the group and not doing it on individual basis. The group size will be of maximum 02 members in case of 06 Cr Hrs consultancy project and of 03 in case of 03 Cr Hrs business project. In any case, after defense of idea of the project in front of departmental committee, only then student (s) will be allowed to carry on project. In either case, the evaluation of report and defense will be taken by external evaluator.

Elective Courses for MBA Program

Students are required to choose from following groups of courses for electives given in MBA degree course structure. Courses will be offered on the basis of availability of relevant teachers. The minimum requirement for offering any specialization would be of 10 students.

Accounting & Finance

Course Code	Course Title	Credit Hrs
MBA-5001	Financial Institutions	3
MBA-5002	International Trade & Finance	3
MBA-5003	Analysis of Financial Statements	3
MBA-5004	Taxation Management	3
MBA-5005	Investment Management	3
MBA-5006	Principles of Auditing	3
MBA-5007	Financial Risk Management	3
MBA-5008	Behavioral Finance	3
MBA-5009	Case Study in Corporate Finance	3
MBA-5010	Islamic Principles of Finance	3
MBA-5011	Banking Management	3
MBA-5012	Insurance Management	3
MBA-5013	Financial Management of MNCs	3
MBA-5014	Issues in Financial Reporting	3
MBA-5015	Venture Capital	3
MBA-5016	Public Finance	3

Course Code	Course Title	Credit Hrs
MBA-5017	Governmental Accounting	3
MBA-5018	Advanced Auditing Problems	3
MBA-5019	International Accounting	3
MBA-5020	Advanced Management Auditing	3
MBA-5021	International Finance	3
MBA-5022	Investment & Portfolio Management	3
MBA-5023	Credit Management	3
MBA-5024	Corporate Finance	3
MBA-5025	Commercial Banking	3

Marketing

Course Code	Course Title	Credit Hrs
MBA-5030	Marketing Research	3
MBA-5031	Sales Management & Advertising	3
MBA-5032	Seminars in Marketing	3
MBA-5033	Industrial Marketing	3
MBA-5034	Tourism Marketing	3
MBA-5035	Social Media Marketing	3
MBA-5036	Service Marketing	3
MBA-5037	Strategic Marketing	3
MBA-5038	Customer Relationship Management	3
MBA-5039	Societal Marketing	3
MBA-5040	Advertising & Event Management	3
MBA-5041	Direct Marketing & Sales Promotion	3
MBA-5042	Marketing of IT & Telecom Products	3
MBA-5043	Retail Management	3
MBA-5044	E-Marketing	3

Management

Course Code	Course Title	Credit Hrs
MBA-5060	Career Management & Planning	3
MBA-5061	Rewards Management	3
MBA-5062	International HRM	3
MBA-5063	Strategic HRM	3
MBA-5064	Organization Development	3
MBA-5065	Human Resource Information System	3
MBA-5066	Performance Management	3
MBA-5067	Collective Bargaining	3
MBA-5068	Job Analysis Practices	3
MBA-5069	HRM in Public and Private Sector	3
MBA-5070	Advances of Organization Planning and Accountability	3
MBA-5071	Industrial Relations and Labor Law in Pakistan	3
MBA-5072	Cases in Small Business and Entrepreneurship	3
MBA-5073	Supply Chain Management	3
MBA-5074	Seminar on Compensation Management	3
MBA-5075	Management of NGOs	3
MBA-5076	Topics in Quality Management	3
MBA-5077	Crises & conflict Management	3
MBA-5078	Human Resource development	3
MBA-5079	Cultural communication	3
MBA-5080	Public Policy	3
MBA-5081	Management of innovation & change	3
MBA-5082	Seminars in HRM	3

*The students will have to appear for the Comprehensive Viva (Satisfactory/ Un-satisfactory basis) after successfully passing all semesters of MBA. Course Code for this viva may will MBA-8804.

Studying at UAJK is no doubt the most wonderful experience of my life. Department of Business Administration is a place where vision is prepare among students having a strong sense of professional and ethical responsibilities. I found faculty members experienced, highly qualified and cooperative. I hope in the future my University will be among the best universities of the world.

I can say proudly that I am studying in Department of Business Administration at University of AJK. I am delighted to affirm the commitment of the Department for them all who study here. Students are treated fairly, equitably and in a way that allow them to best utilize their potentials. I pray for the betterment and prosperity of my Department as well as my University and hope for the best for upcoming students.

It is great honor for me to be a part of the Department of Business Administration at UAJK. Facilities available to students is commendable. The faculty is very competent. Department offers a unique environment of education and co-curricular activities through which students' skills are enhanced and their mindsets are developed and focused towards their future plans. The University produced a lot of successful graduates in this field which are serving the nation and they have developed themselves into true professionals.

Junaid Saleem,
MBA, 5th Semester,

Kanwal Rathore,
MBA, 2nd Semester,

Awais Abbasi,
MBA, 2nd Semester,

Department of English

The department offers a relatively new field of studies i.e., Linguistics along with the traditional and long studied subject Literature. A great deal of emphasis is placed on development of English Language skills and on producing professionals and competent language teachers who are equally conversant with English Literature.

Career Prospects

English over many decades has been functioning as a Lingua Franca world over and is likely to enjoy this status for another 100 years. In view of this importance, the career opportunities for those graduating in this subject are vast. There is no denying the fact that Linguistics and English Language Teaching have also gained great deal of importance. The Department is fully alive to these modern developments and needs and has, therefore, devised a course, which can meet all these requirements. The course we offer at BS and Master's level is unique and has no parallel in the country. We aim to combine all the three subjects in balanced complex where every component has an adequate proportion of share. Our M.Phil. and Ph.D programs are great amalgam of theory, application and research in linguistics. We are rightfully proud of pioneering top-tier education in the country. Special attention is given to incorporating latest up-to-date trends and approaches in the research.

The depth combined with variety makes our graduates versatile. Up till now, our graduates have been readily absorbed in various fields i.e. teaching, civil services, academia, research and higher studies. The market demand is still growing. The department is playing a vital role in providing trained and competent English teachers to overcome the shortage of skilled professionals.

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FACULTY

Prof. Dr. Nadeem Haider Bukhari, Ph.D (UK)
Prof. Dr. Ayesha Sohail, Ph.D (UK)
Prof. Dr. Haroon-ur-Rasheed, Ph.D (Pak)
Dr. Tahira Jabeen (contract) Ph.D (China) (Pak)
Mr. Nouman Hamid, Ph.D Scholar (Pak)
Mr. Naveed Sarwar, Ph.D Scholar (Pak)
Ms. Nayab Sami, M.A (Pak)
Ms. Qudsia Ishaq, Ph.D Scholar (Pak)
Ms. Shahida Khalique Ph.D Scholar (Pak)
Mr. Sabir Hussain Shah, Ph.D Scholar (Pak)
Ms. Sadia Rather M.Phil Scholar (Pak)
Mr. Atique-ur-Rehman Abbasi M.Phil (Pak)
Mr. Zafeer Hussain Kiani Ph.D Scholar (Pak)

Programs

B.S English
M.A English
M.Phil English (Linguistics)
Ph.D English (Linguistics)

Eligibility

The criterion for admission to B.S. English is intermediate at least in Second Division, and for M.A in English is graduation at least in Second Division with English Language and preferably English literature. For M.Phil/PhD Programs, entry test and University GAT (general and subject respectively) are also mandatory.

Scheme of Study for B.S English Program

Duration of the Program

Total Semesters:	08
Total Duration:	4 Years
Total Credit hours:	136
Duration of each semester:	16- 18 weeks

Program Structure

The program strictly follows the HEC guidelines and specifications for the BS English program. It has 9 Compulsory Courses of 25 Credit Hours, 7 General Courses of 21 Credit Hours, 10 Foundation/Core Courses of 30 Credit Hours, 5 Elective courses and 12 Major courses of 36 Credit Hours. Total 136 Credit Hours.

In the first two years of the program, the students will study compulsory, foundation, and general courses; whereas, in years two and three, the students take elective/major courses, and in the final year of their study, the students are offered specialization in Literature or Linguistics.

1st Semester

Course Code	Title Course	Credit Hrs
Compulsory Courses		
ENG-3101	English I (EAP)	3
ISD-3102	Islamic Studies	2
General Courses		
EDU-3103	Education	3
KSD-3104	Kashmir Studies	3
Foundation Courses		
ENG-3105	Introduction to Linguistics	3
ENG-3106	Introduction to English Literature-I	3
		17

2nd Semester

Course Code	Title Course	Credit Hrs
Compulsory Courses		
ENG-3201	English II (EAP)	3
PSD-3202	Pakistan Studies	2
General Courses		
ARB-3203	Arabic	3
LAW-3204	Introduction to Law	3
Foundation Courses		
ENG-3205	Introduction to Phonetics & Phonology	3
ENG-3206	History of English Literature-I (Medieval to Romantics)	3
		17

3rd Semester

Course Code	Title Course	Credit Hrs
Compulsory Courses		
ENG-4301	English III (Communication Skills)	3
COM-4302	Introduction to Computers	3
General Courses		
ESC-4303	Everyday Science	3
PSY-4304	Introduction to Psychology	3
Foundation Courses		
ENG-4305	Introduction to Morphology	3
ENG-4306	Introduction to English Literature-II (Novel, Short Story & Prose)	3
		18

4th Semester

Course Code	Title Course	Credit Hrs
Compulsory Courses		
ENG-4401	Advanced Academic Reading & Writing	3
HRC-4402	Human Rights and Citizenship	3
PAS-4403	Public Administration	3
General Courses		
STS-4404	Introduction to Statistics	3
Foundation Courses		
ENG-4405	History of English Literature II (19th Century Realism up to Contemporary Times)	3
ENG-4406	Introduction to Syntax	3
		18

5th Semester

Course Code	Title Course	Credit Hrs
Compulsory Courses		
ENG-5501	Visionary Discourse	3
Major Courses (A minimum of 5 courses are to be selected from the list)		
ENG-5502	Literary Criticism-I	3
ENG-5503	Poetry-I (14th to 18th Century)	3
ENG-5504	Novel-I (18th and 19th Century)	3
ENG-5505	Introduction to Research Methodology	3
ENG-5506	Testing and Evaluation	3
ENG-5507	Discourse Analysis	3
ENG-5508	English Grammar	3
		18

6th Semester

Course Code	Title Course	Credit Hrs
Major Courses (A minimum of 5 courses are to be selected from the list)		
ENG-5601	Literary Theory and Criticism	3
ENG-5602	Classics in Drama	3
ENG-5603	Poetry-II (Romantic and Victorian)	3
ENG-5604	Introduction to Semantics	3
ENG-5606	Introduction to Sociolinguistics	3
ENG-5607	Introduction to Psycholinguistics	3
		15

If required, one of these languages is to be selected as specified in detailed outline of semester wise-course.

Course Code	Title Course	Credit Hrs
RLG-5601-a	Introduction to the Kashmir Language	3
RLG-5602-b	Introduction to the Chinese Language	3
RLG-5603-c	Introduction to the Turkish Language	3
RLG-5604-d	Introduction to the Persian Language	3

7th Semester

Course Code	Title Course	Credit Hrs
Literature		
Core Courses		
ENG-6701-a	Modern Poetry	3
ENG-6702-a	American Literature	3
ENG-6703-a	South Asian Literature	3
ENG-6704-a	Translation Theory & Literary Research	3
Elective Courses		
ENG-6705-a	American Drama	3
ENG-6706-a	Afro-American Literature	3
ENG-6707-a	Continental Literature	3
ENG-6708-a	Pakistani Literature	3
Linguistics		
Core Courses		
ENG-6701-b	Language Teaching Methodologies	3
ENG-6702-b	Introduction to Pragmatics	3
ENG-6703-b	Second Language Acquisition	3
ENG-6704-b	World Englishes	3
Elective Courses (A minimum of 1 course is to be selected from the list)		
ENG-6705-b	Research Methods in Linguistics	3
ENG-6706-b	Media Discourse Analysis	3
ENG-6707-b	Translation Studies	3
		15

8th Semester

Course Code	Title Course	Credit Hrs
Literature		
Core Courses		
ENG-6801-a	20th Century Fiction	3
ENG-6802-a	Literary Criticism II (Modern Critical Theories)	3
ENG-6803-a	Literary Stylistics	3
ENG-6804-a	Literary Movements	3
Elective Courses(A minimum of 1 course is to be selected from the list)		
ENG-6805-a	Postcolonial Literature	3
ENG-6806-a	Emerging Forms of Literature	3
ENG-6807-a	Research Project in Literature	3
Linguistics		
Core Courses		
ENG-6801-b	Creative Writing	3
ENG-6802-b	Applied Linguistics	3
ENG-6803-b	Language, Culture & Identity	3
ENG-6804-b	Genre Analysis	3
Elective Courses (A minimum of 1 course is to be selected from the list)		
ENG-6805-b	Introduction to Stylistics	3
ENG-6806-b	English for Specific Purposes	3
ENG-6807-b	Research Project in Linguistics	3
ENG-6808-b	Anthropological Linguistics	3
		15

Scheme of Study for M.A

Duration:	4-6 Semesters
Courses:	54 Credits
Thesis:	06 Credits
Comprehensive Oral Examination:	S/U Basis
Internship/Practical Training:	S/U Basis
Total Credit Hours:	60 Credits

1st Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
ENG-5101	English Grammar	3	3
ENG-5102	Introduction to Phonetics and Phonology	3	3
ENG-5103	Introduction to Linguistics	3	3
ENG-5104	History of English Literature	3	3
ENG-5105	Drama-I	3	3

2nd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
ENG-5201	Introduction to Pragmatics	3	3
ENG-5202	Poetry-I	3	3
ENG-5203	TESOL-I	3	3
ENG-5204	Literary Criticism	3	3
ENG-5205	Novel-I	3	3

3rd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
ENG-6301	Introduction to Stylistics	3	3
ENG-6302	Poetry-II	3	3
ENG-6303	TESOL-II	3	3
ENG-6304	Prose	3	3
ENG-6305	Introduction to Research Methodology	3	3

4th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
ENG-6401	Shorter Fiction	3	3
ENG-6402	Drama-II	3	3
ENG-6403	Novel-II	3	3
ENG-6404	Internship	-	-
ENG-6405	Comprehensive Oral	-	-
ENG-6406	Thesis (Optional)	-	6

* Students will be required to opt two elective courses in lieu of thesis

Elective Courses

Course Code	Course Title	Lec. Hrs	Credit Hrs
ENG-6407	Introduction to Psycho-Linguistics	3	3
ENG-6408	Introduction to Sociolinguistics	3	3
ENG-6409	Creative Writing & Presentation Skills	3	3
ENG-6410	Post-Colonial Literature	3	3
ENG-6411	American Literature	3	3
ENG-6412	Pakistani English Literature	3	3

Scheme of Study for M.Phil/PhD

M.Phil

Duration:	4-6 Semesters
Courses:	24 Credits
Thesis:	06 Credits
Total:	30 Credits

Ph.D

Duration:	6-10 Semesters
Courses:	18 Credits
Thesis	12 Credits
Total:	30 Credits

The supervisory committee for M.Phil/PhD scholars selects major and minor courses per training to his/her Research Thesis. If the supervisory committee deems it fit, it may increase credit hours for M.Phil/PhD Scholars.

Courses for M.Phil./ Ph.D.

Course Code	Course Title	Credit Hrs
ENG-7101	Morphology	3
ENG-7102	Syntax-I	3
ENG-7103	Applied Linguistics-I	3
ENG-7104	Anthropological Linguistics	3
ENG-7105	Phonetics and Phonology	3
ENG-7106	Quantitative Research Methods in Linguistics	3
ENG-7107	Pragmatics	3
ENG-7108	Advanced Semantics	3
ENG-7109	English for Specific Purposes (ESP)	3
ENG-7110	Applied Linguistics-II	3
ENG-7111	Conversational Analysis (CA)	3
ENG-7112	Second Language Acquisition (SLA)	3
ENG-7113	Syntax-II	3
ENG-7114	Advanced Phonology	3
ENG-7115	Discourse Analysis	3
ENG-7116	Managing and Writing Thesis	3
ENG-7117	Pakistani Literature in English: Linguistic Study	3
ENG-7118	Dialectology	3
ENG-7119	Bilingualism	3
ENG-7120	Advanced Stylistics	3
ENG-7121	Advanced Sociolinguistics	3
ENG-7122	Languages and Gender	3
ENG-7123	Translation Studies	3
ENG-7124	South Asian Languages	3
ENG-7125	Testing and Evaluation	3
ENG-7126	Critical Theory	3
ENG-7127	Psycholinguistics	3
ENG-7128	Literary Theories	3
ENG-7129	Emerging Issues in ELT in Pakistan	3
ENG-7130	Corpora Linguistics	3
ENG-7131	Language Documentation	3
ENG-7132	Language Typology	3

ENG-7133	Qualitative Research Methods in Linguistics	3
ENG-7134	ESL Curriculum Development	3
ENG-7135	Critical Discourse Analysis (CDA)	3
ENG-7136	Thesis (M.Phil.)	6
ENG-7137	Thesis (PhD)	12

Assessment

The students are assessed through Quizzes, Assignments, Presentations, Oral and written Examination. The students have to maintain a benchmark cumulative score (specified for each degree program and may vary from time to time) by the end of the degree. The sessional (including Quizzes and Assignments) and terminal exams comprise of 50 marks each.

Life at the Department

If you are a linguistics man, or literature savvy person; or motivated by general interest in languages, particularly English language, UAJK's Department of English is the right most choice to satisfy your quest and hone your abilities. Friendly milieu, able stewardship and exposure to a multitude of national and international academic fraternity are the hallmarks of this department. Regularly featured International Conference on Linguistics every second year, a Y-category Kashmir Journal of Language Research, local and foreign scholarships, international linkages with world renowned universities, diverse areas of specializations, study tours and extra-mural activities are but a few highlights of the department. It is a life worth living and experience worth going through.

"All students deserve access to the education that prepares them to succeed outside the classroom as well" The faculty is very cooperative and encouraging towards researching and exploring the new areas of linguistics. It not only helps students to enhance their specific skills but also develops their minds towards co-curricular activities. Thus, it is an institute which produces not only good researchers but, also the true nation builders.

Sara Iqbal,
PhD English, 2nd Semester

The University of Azad Jammu and Kashmir is a unique academic community providing students a deeply transformative experience – intellectually, socially and personally – that will prepare them for a life of service and exposure. The university delivers an education focused on both knowing and doing, on individual achievement and on meaningful collaboration in a supportive environment that fosters intellectual risk-taking. Being a proud part of the Department of English, I have this opportunity to savor the experience to work with a faculty of highest caliber, who consider teaching a privilege. With an extremely interactive academic environment and ground breaking research opportunities, committed students and scholars have all the resources they need to fulfil their academic and personal potential.

Ms. Sadia Rather, M.Phil Scholar

The UAJK provides a platform to student to unleash their competencies the way they were meant to be un-leashed. The multi-cultural student population at UAJK also enhances their interactions both in their academic work and their social lives which makes it a home away from home for them. The English department of UAJK has given students much more than just a degree; it has taught them about the world and given them guidance on both their future career and personal life. A key trait of how the BS, MA programs are taught is that faculty encourages students to think about each problem and to come up with a solution, this is an invaluable tool when facing problems at work or in practical life.

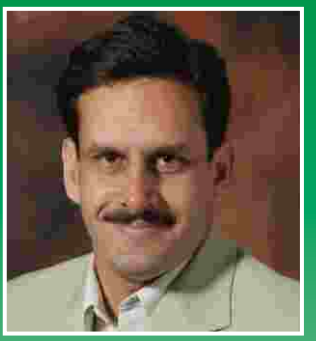
Syed Ali Raza,
BS English, 7th Semester

Institute of Languages

As part of Faculty of Arts expansion and realization of the importance of knowing more languages in the post-Earthquake period, the University of Azad Jammu & Kashmir decided to establish Institute of Languages.

The Institute is mandated to promote national and local languages spoken in the region. Azad Kashmir is one of the richest areas of the world in terms of languages spoken. It is a meeting ground for many languages spawning from various families. The interaction in these languages gives rise to fascinating phenomena which form the basis of interesting linguistic studies- a heaven for a linguist. Another major aim of the Institutes includes teaching of foreign languages which promise bright career opportunities in higher studies in the countries they are spoken in. The major languages to be taught in the Institute include English, Turkish, Arabic, Chinese, French and Persian as well as offer on demand language courses subject to the availability of the faculty. In the post-earthquake scenario, it was realized that the ability to interact with foreigners in their native languages facilitates the work a great deal and is key in fostering warm relationships. At the same time, the presence of the foreigners and international organizations involved in relief and rehabilitation work aroused a good deal of interest in foreign languages. In order to implement its agenda, the Institute has already run dozens of English language courses. It has also entered into collaborations with notable international organizations to impart knowledge of Chinese, Arabic and Turkish languages for need-based and market-oriented purposes.

Yet another aim of the Institute is to offer English support programme for those who need English skills for effectively coping with the degree programme or those who want to



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acquire advanced English communicative skills with an eye to higher studies abroad or professional development. Special courses will also be offered for those aiming to take GRE/TOEFL/IELTS tests.

The Institute aims to expand in future. Further plans includes establishment of a Research Unit which would be entirely devoted to promoting research on the local languages and preserving the dying languages.

The institute is fully alive to research in linguistics particularly targeting the lesser known and marginalized local languages. It engages with researchers and experts with a view to exploring, promoting and preserving local languages. Number of projects aiming at documentation and preservation of Pahari, Hindko, Kashmiri and Gojri and underway, notable among which is compilation of Pahari dictionary and cultural glossary.

Another undertaking of the Institute is to organize seminars and workshops on languages teaching, research and computational skills.

The institute has successfully accomplished short courses in various languages. In view of Pakistan's expanding role in the geopolitical arena and the opportunities accompanying, we have decided to enable our workforce to cater for the communication needs of the opportunity-rich countries. Resultantly, language courses of various proficiency levels in Chinese, Turkish and English languages are underway. We have also hired the services of trained instructors through our international collaborators.

Turkish Language Course

Students, who succeed in the exams at the end of each Turkish language course, receive a certificate of proficiency in Turkish language indicating their level (A1, A2, B1, B2, C1, C2).

A1 Certificate (Certificate) Examination
A1 Midterm Exam
A2 Certificate (Certificate) Examination
B1 Midterm Exam
B1 Certificate (Certificate) Examination
B2 Midterm Exam
B2 Certificate (Certificate) Examination
C1 Midterm Exam
C1 Certificate (Certificate) Examination
C2 Midterm Exam
C2 Certificate (Certificate) Examination

The course materials, prepared by the Institute, are used as the main source in Turkish courses. This material consisting of a textbook, a workbook and listening registers.

Materiel	Target group	Level
Seven Climate Turkish	Age 16 and Over (Adult Groups)	A1-C2
I'm learning Turkish	Age 11-14 (Children's Groups)	A1 and A2

Turkish
Instructor
SELÇUK SUBAŞI
E-mail: s.sbsi@hotmail.com

Message from Turkish Instructor

Swap to Turkish

Sevgili öğrencilerimiz, aday öğrencilerimiz, Tükçe Bölümü Öğretim Görevlisi olarak sizleri sevgi ve saygıyla selamlıyorum. Pakistan ve Türkiye'nin dostluk ilişkileri gün geçtikçe daha da artmaktadır. İki ülke doğal afetler gibi en zor zamanlarda birbirlerine destek olarak kardeşliklerini göstermişlerdir.

13. yüzyıldan günümüze kadar uzanan gönülden gönüle giden sevgi, kardeşlik ve hoşgörüyü temsil etme özelliğinden dolayı adını bir Anadolu mutasavvıfı olan Yunus Emre'den alan Enstitümüz, dünyanın dört bir köşesinde Kültür Merkezleri vasıtasıyla Türkçe dilini ve kültürünü tanıtmaktadır.

Yunus Emre Enstitüsü'nün Türkoloji Projesi kapsamında Azad Jammu and Kashmir Üniversitesinde Türkçe dersler başlamış bulunmaktadır. Türkçe dersler ile, okuduğunu ve dinlediğini anlama, Türkçeyi doğru kullanabilme, kendini sözlü ve yazılı olarak ifade edebilme becerilerini kazandıracak öğrenciler yetiştirmeyi amaçlamaktayız. Bu hedefler doğrultusunda gerçekleştirdiğimiz çalışmaları detaylı olarak ifade edebilmek için sizleri bölümümüzü yakından tanımaya davet ediyorum. Pakistan halkının Türkçe'ye göstermiş oldukları yoğun ilgi için teşekkür ederim.

Dear students

As lecturer of the Department of Turkey, I salute you with love and respect. The friendly relations between Pakistan and Turkey are increasing day by day. The two countries supported each other in the most difficult times especially in national disasters.

From the 13th century to present day, the Institute, named after Anatolian Sufi Yunus Emre, famous for his love, fraternity and tolerance, is promoting Turkish language and culture through cultural centers all over the world.

Turkish language course has been launched at Azad Jammu and Kashmir University under Turcology Project of the Yunus Emre Institute. We aim to educate students with skills of reading, listening and comprehension enabling them to use Turkish correctly to express themselves verbally and in writing. I invite you to visit our department and get fresh hand information about the Turkish courses. I would like to thank the Pakistani people for their great interest in Turkish language and culture.

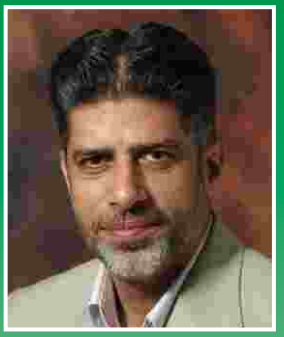
Kashmir Institute of Economics

Faculty Members

Dr. Sardar Javed Iqbal Khan, PhD (Pak)
Dr. Samina Sabir, PhD (Pak)
Dr. Ghulam Yahya Qureshi, PhD (UK)
Dr. Abdur Rauf, Ph.D (Pak)
Mrs. Maryam Bashir, M.Phil, (Pak)
Mrs. Amber Imtiaz, M.Phil. (Pak)
Mrs. Asma Hanif Butt, M.Sc. (Pak)
Mr. Mohammad Luqman Khan, M.Phil (Pak)
Mr. Kamran Khan, M.Phil (Pak)
Mr. Ashar Awan, M.Phil, (Pak)
Mr. Hassan Ejaz, BS Hons. (Pak)
Miss Sobia Hafeez Kiani, M.Phil (Pak)
Miss Fozia Munir, M.Phil (Pak)

(Visiting Lecturer)

Syed Ali Abidi, Ph.D Scholar (Pak)
Aizzah Yasin, M.Phil (Pak)
Syeda Batool Naqvi, M.Phil (Pak)
Mr. Mumtaz Hussain, MA (Islamic Studies & Arabic) (Pak)



DIRECTOR
Prof. Dr. Syed Nisar Husain Hamdani,
Ph.D (QAU) and Postdoc.
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History

The Kashmir Institute of Economics is the first ever post-graduate department of the University of Azad Jammu and Kashmir established in May 1978 (two years before the establishment of the University). In 1990, the Kashmir Institute of Economics was named as Kashmir Institute of Development Studies and later on in 1998 again re-named as "Kashmir Institute of Economics".

The Kashmir Institute of Economics (KIE) offers PhD (3 years), M.Phil (2 years), M.Sc Economics (2 years) and B.S (4-year) programs in Economics and Islamic Finance. All Economics programs include compulsory courses, optional courses, workshops and conference courses research and grand viva. A thesis of 24 credits for Ph.D and 6 credits for M.Phil, and comprehensive oral examination are compulsory, while for MSc Economics, thesis of 6 credits is optional.

The Organizational Structure

The Institute consists of three wings that specialize in different activities as under;

1. Academic Wing
2. Research Wing
3. Training Wing

Academic Wing

The Academic Wing coordinates the educational degree programs.

Research Wing

The Kashmir Institute of Economics is actively involved in research. Scientific papers on a variety of topics have been published in recognized journals. It has been recognized in the relevant circles that trend of students' innovative research is fairly higher at Kashmir Institute of Economics, University of Azad Jammu & Kashmir. This year, the following new research sections within the institute have been established to promote research in specific areas.

1. China Pakistan Economics Corridor
2. Economics of Happiness and Wellbeing
3. Divine Economics
4. Ethics and Values in Economy
5. Azad Jammu and Kashmir Economics
6. Islamic Banking and Finance

Training Wing

The training wing organizes training Programs including refresher courses, workshops, seminars and special lecturers by distinguished economists and scholars from time to time. Some recent events include; workshop on economics of wellbeing- the first ever in Pakistan; special lecture on Quality of Food Situation in Pakistan, Presentation on Economics of Spiritual Human Capital and its Estimation Strategies, workshop on advance Data Analysis, SPSS and AMOS. Students and faculty are encouraged to attend useful courses and workshops. The recent events include 3-day advance software workshop at Quai -e- Azam University and "How to Supervise Thesis" by a US university expert through video conferencing and "Latent variables Modeling using AMOS", etc. are also in credit of KIE..

Short/Diploma Courses: A variety of short/diploma courses relating to teaching and research skills, Development, Planning, Project Formulation, Banking, HRD, Divine Economics and Disaster Economics etc are available at KIE and offered on demand basis. Some of these programs are sponsored by HEC such as training workshops related to field survey and data collection Methods and Strategies.

Research Journal: The Kashmir Economic Review

The Institute publishes a Journal titled "Kashmir Economics Review". Papers are accepted for this journal throughout the year.

Call for papers:

Original papers with technical and methodological sufficiency are invited for the forthcoming issue of the Kashmir Economic Review. The submissions are reviewed by Editorial board and external referees. You can submit your papers at ker@ajku.edu.pk or at nisarhamdani@gmail.com

Eligibility

B.S Economics:

B.S Economics (Islamic Finance):

Eligibility criterion for admission in B.S Economics is FA/F.Sc/I.Com and equivalent with minimum of 2nd Division.

Scheme of Study B.S Economics (Islamic Finance)

Total numbers of Credit hours:	139
Duration of BS Program:	4 years
Semester duration:	16 weeks
Semesters:	**08**

1st Semester

Course Code	Course Title	Credit Hrs
ENG-3101	English I	3
ISD-3102	Islamic Studies	2
KSD-3103	Kashmir Studies	3
EDU-3104	Education	3
ECO-3105	Statistics-I	3
ECO-3106	Principles of Micro Economics	3
	Total	**17**

2nd Semester

Course Code	Course Title	Credit Hrs
ENG 3201	English II	3
PSD -3202	Pakistan Studies	2
AUQ-3203	Arabic basic	3
LAW-3204	Introduction to law	3
ECO-3205	Principles of Macro Economics	3
ECO-3206	Statistics II	3
	Total	**17**

3rd Semester

Course Code	Course Title	Credit Hrs
ENG-4101	English III	3
ECO-4102	Everyday Science	3
ECO-4103	Psychology	3
ECO-4104	Introduction to Computer	3
ECO-4105	Mathematical Economics-I	3
ECO-4106	Intermediate Micro Economics	3
	Total	**18**

4th Semester

Course Code	Course Title	Credit Hrs
AUQ-4201	Arabic for Understanding Quran	3
ECO-4202	Intermediate macro economics	3
ECO-4203	Mathematical Economics-II	3
ECO-4204	Microeconomic Theory	3
ECO-4205	International Trade	3
	Optional Non Economics	3
	Total	**18**

5th Semester

Course Code	Course Title	Credit Hrs
ECO-5101	Development Economics	3
ECO-5102	Econometrics I	3
ECO-5103	Agriculture Economics	3
ECO-5104	Monetary Economics	3
ECO-5105	Macroeconomic Theory	3
ECO-5106	Islamic Economics	3
	Total	**18**

6th Semester

Course Code	Course Title	Credit Hrs
ECO-5201	Econometrics II	3
ECO-5202	Macroeconomic Controversies	3
ECO-5203	Public Finance	3
ECO-5204	Ethics, Economics and Universal Values	3
	Optional (Economics)	3
	Optional (Economics)	3
	Total	**18**

7th Semester

Course Code	Course Title	Credit Hrs
ECO-6101	International Finance	3
ECO-6102	Research Methods and Applications	3
ECO- 6103	Resource Economics	3
ECO-6104	History of Economic Thoughts	3
	Optional Economics/IBF	3
	Optional (Economics)/IBF	3
	Total	**18**

8th Semester

Course Code	Course Title	Credit Hrs
ECO-6201	Applied Economics	3
ECO -6202	Population Economics	3
ECO-6203	Welfare and Happiness Economics	3
ECO-6204	Internship/Practical Training	S/U
ECO-6205	Comprehensive Oral Exam	S/U
ECO-6206	Thesis (Optional)	6
	OR	
ECO-6207	Optional (Economics)	3
	Optional (Economics) /IBF	3
		15
	Total	**139**

List of Optional Courses BS Economics

Course Code	List of elective courses (optional)	Credit Hrs
ECO 6208	General Equilibrium and Welfare Economics	3
ECO 6209	Human Resource Development	3
ECO6210	Major Issues in Pakistan Economy	3
ECO 6211	Labor Economics	3
ECO 6212	Managerial Economics	3
ECO 6213	Comparative Economic System	3
ECO 6214	Financial Institutions and Markets	3
ECO6215	Project Appraisal and Investment Analysis	3
ECO6216	Entrepreneurial Economics	3
ECO6217	Institutional Economics	3
ECO 6218	Environmental Economics	3
ECO6219	Operational Research	3
ECO6220	Dynamic Macro Economics	3
ECO6221	Monetary Policy	3
ECO6222	Fiscal Policy	3
ECO 6223	Rural Development	3
ECO6224	Game Theory	3
ECO6225	Growth Theories	3
ECO6226	Political Economy	3
ECO6227	Industrial Economics	3
ECO6228	Transport Economics	3
ECO6229	Health Economics	3
ECO6230	Experimental Economics.	3
ECO 6231	Urban Economics	3
ECO6232	Regional Economics	3
ECO6233	Topics in Marketing	3
ECO6234	Poverty Alleviation	3
ECO6235	Azad Kashmir Economy	3

Course Code	List of elective courses (optional)	Credit Hrs
ECO6236	Craft Economics	3
ECO6237	Economics of Tourism	3
ECO6238	Disaster Economics	3
ECO- 6239	Introduction to Divine Economics	3
	Optional(International Economics)	
ECO-6240	Open Economy Macroeconomics	3
ECO-6241	Trade and Development	3
ECO-6242	International Trade Policy	3
ECO-6243	Financial Econometrics	3
ECO-6244	Institutional Economics	3
	Optional (Development economics)	
ECO-6245	Development Theory	3
ECO-6246	Sustainable Development	3
ECO-6247	Trade and Development	3
ECO-6248	Development Policy	3
ECO-6249	Budgeting and Financial Planning	3
	Optional (Non -Economics)	
ECO-4206	Islamic Jurisprudence	3
ECO-6250	World History	
ECO-6251	Geography	3
ECO-6252	General Science	3
ECO-6253	Mass Communication	3
ECO-6254	International Relation	3
ECO-6255	Principle of Accounting	3
ECO-6256	Political Science	3
ECO-6257	Principle of Management	3
ECO-6257	Principle of Marketing	3
ECO-6258	Philosophy	3
ECO-6259	Anthropology	3
ECO-6270	Iqbaliat	3
ECO-6271	Theory of Science	3

Scheme of Studies for BS Economics [Islamic Finance] Program

Compulsory Requirements (the Students has no choice)		Diversification Requirements, (from other departments)		Discipline Specific Foundation Courses	
9 courses		7-8 Courses		10-11 Courses	
26 Credit hours		21-24 Credit Hours		30-33 Credit Hours	
Subject	**Cr.**	**Subject**	**Cr.**	**Subject**	**Cr.**
English I	3	Sociology	3	Principles of Microeconomics	3
English II	3	Education	3	Principles of Macroeconomics	3
English III	3	Psychology	3	Intermediate Microeconomics	3
English IV	2	Philosophy	3	Intermediate Macroeconomics	3
[University Optional]		Law	3	Statistics for economists	3
Pakistan Studies	2	Business Administration	3	Monetary Economics	3
Islamic Studies/Ethics	3	Commerce	3	Basic Econometrics	3
Mathematics I		Mass Communication	3	History of Economic thought	3
Mathematics II	3	Language [Chinese,	3	Introduction to Islamic Economics	3
[University Optional]		Persian, Kashmiri, Other]			
Introduction to Computer	2	Anthropology	3	Applied Economics	3
Basic Arabic	2	World History	3	Ethics and Universal Values	3
[Compulsory in AJK]				Research Workshop	3

Annexure – 1 Contd.: List Of Major And Elective Within Major Courses

Major Courses		Elective Courses Within Major Courses	
11-13 Courses		05 Courses	
36-42 Credit Hours		15 Credit Hours	
Subject	**Cr.hr**	**Subject**	**Cr.hr**
Islamic Banking: Theory and Practice	3	1.Elective-I	3
Usury and Interest in Historical Perspective	3	2.Elective-II	3
Financial Regulation in Islamic Perspective	3	3.Elective-III	3
History of Islamic Finance	3	4.Elective-IV	3
Commercial Bank Management	3	5.Elective-V	3
Product Development	3	To be chosen from the list of electives	
Islamic Jurisprudence	3		
Islamic Law of Business Contract	3		
Financial Management	3		
Financial Markets and Institutions	3		
Financial Accounting	3		
Arabic for Understanding Quran	3		
Introduction to Divine Economics	3		
Insurance and Takaful	3		
Islamic critique of conventional Financial system	3		
Note: The above list can be revised by the Committee formed by the Board of Studies KIE I its 11th meeting.			

Notes:

Optional (Non-Economics)

Optional Non-economics courses shall be chosen from the list of approved courses which shall be offered with an intent to strengthen the theme/structure of the degree programme

Optional (Economics)

List of optional courses shall be prepared /revised keeping in view the professional requirements of the field of Islamic Economics, Banking or Finance but also the skills, behavior and internal purification of students.

Courses from Other Departments

Student of Islamic Finance may choose courses from other departments where applicable. Some courses under different disciplines are indicated below. All of them are already included in HEC approved scheme of studies for various subjects.

Annexure - 1 Contd. List of Elective Courses / Options

Conventional Economics and Finance	
Institutional Economics	03
Money & Banking	03
Welfare and Happiness Economics	03
Comparative Economic Systems	03
Investment Analysis & Portfolio management	
Public Policies	03
International Finance	03
Financial Derivatives	03
Financial Markets	03
Managerial Economics	03
Political Economy	03
Industrial Economics	03
Transport Economics	03
Experimental and Behavioral Economics	03
Regional Economics	03
Poverty and Income Distribution	03
Economics of Education	03
Project Appraisal & Management	03

Islamic Economics and Finance	
Introduction to Islamic Economics	03
Islamic Finance Theory and Practice	03
Divine Economics Applications	03
Regulation Control and Supervision of Islamic Banks	03
Risk Management of Islamic Financial Institutions	03
Islamic Capital Market	03
Takaful	03
Contemporary debates on Interest and Classical literature of Islamic Commercial Law	03
Islamic Finance: Theory and Practice	03
Regulation Control and Supervision of Islamic Banks	03
Islamic Ethics and Corporate Governance	03
Islamic Banking Product and Services	03
Risk Management of Islamic Financial Institutions	03
Islamic Contracts & Modes of Financing	03
Risk Management in Conventional and Islamic Financial Institutions	03
Financial Crisis and Regulatory inputs of Islamic Commercial Law	03
Fiqh	
Islamic Jurisprudence	03
Islamic Law of Business Contracts-1	03
Islamic Law of Business Contracts-2	03
Fiqh al-Ribawa al-Masarif	03
Business Management	
Financial Management	03
Financial Markets& institution	03
Ethics in Economics	

Accounting and Finance	
Financial Accounting-I	03
Financial Accounting-II	03
Fundamentals of Corporate Finance	03
Project Appraisal and Management	03
Commercial Bank Management	03
Financial Modelling Using Excel	03
Financial Derivative	03
Functional Arabic	
Arabic for Understanding Qur'an	03
Arabic writing and speaking	03
Arabic Advance	03
Arabic - Subject Specific [Mo'zoohi]	03
Arabic [6th Century Arabian]	03
Specialization and General Elective Courses	
Economy of Middle East	03
Regional Alliances in Asia: Potential, Challenges and Opportunities	03
Regional Economic Issues of South Asia With special reference to Kashmir Conflict	03
International Relations	03
Insurance and Takaful Management	03
Corporate Finance	03
AAOIFI Shariah Standards	03
Finance Theory	03
Qur'an Commentary [Islamic Economics and Finance]	03
Hadith [Islamic Economics and Finance]	03
Islamic Ethical Philosophy	03

Topics in Ethic and Universal Values	03
Commons among world religions	03
Comparative Economics Systems	03
Comparative Banking Systems	03
History of Islamic Banking & Finance	03
Commons among Islamic Schools of jurisprudence	03
ISO-9000 and other Standards	03
Action Research [Global Online]	03
Experiments in Behavioral Economics	03

Optional Courses From other Department

All the courses included under different disciplines below are approved by HEC for respective discipline

Commerce

Investment and Portfolio Management	03
Total Quality Management	03
Accounting Information System	03

Pakistan Studies

Muslims Struggle for Pakistan (1857 - 1947)	03
Geography of Pakistan	03
Political History of Pakistan	03
Pakistani Society and Culture	03
Social Change and Development in Pakistan	03
Any one language anytime during 8 semesters [Chinese, French, Persian, other]	03

A Nnexure-2: Semesterwise Scheme of Studies BS Economics (islamic Finance - 4year)

1st Semester

Course Title	Credit Hrs
English-1	3
Principles of Microeconomics	3
Islamic Studies	3
Mathematical Economics	3
Business Administration or Psychology	3
Basic Arabic	3
Total	**18**

2nd Semester

Course Title	Credit Hrs
Principles of Macroeconomics	3
English-2	3
Pakistan Studies	3
Statistics	3
Arabic for Understanding Qur'an	3
Ethics and Universal Values/ Usul-al-Fiqh 1	3
Total	**18**

3rd Semester

Course Title	Credit Hrs
Intermediate Microeconomics	3
English-3	3
Economic Development/ Financial Markets and Institutions	3
Statistics-2	3
Arabic writing and speaking	3
Introduction to Islamic Banking & Finance/ usul-fiqh 2	3
Total	**18**

4th Semester

Course Title	Credit Hrs
Intermediate Macroeconomics	3
Fiqh al Muamlat I	3
Labour Economics/ Financial Accounting I	3
Mathematical Economics-2	3
Pakistan's Economy	3
Arabic - Subject Specific [Mo'zoohi] **OR** Other Language: Chinese, Persian, Kashmiri, Other [can be done in summer special semester also if offered]	3
Total	**18**

5th Semester

Course Title	Credit Hrs
Advanced Microeconomics	3
Behavioral and Experimental Economics/ Financial Accounting II	3
Specialization/Elective-1	3
Computer Skills for Social Scientists/ Corporate Finance	3
Introduction to Islamic Economics	3
Principles of Islamic Jurisprudence- (Usul-ul-Fiqh)	3
Total	**18**

6th Semester

Course Title	Credit Hrs
Advanced Macroeconomics	3
Ethics and Economic Policy	3
Specialization/Elective-2	3
Basic Econometrics-1	3
Islamic Public Finance/ Public Finance	3
Islamic Law of Business Contracts-1	3
Total	**18**

7th Semester

Course Title	Credit Hrs
International Economics	3
Public Finance/	3
Specialization/Elective-3	3
Basic Econometrics-2	3
Introduction to Islamic Economics/	3
Computing Skills for Economics & Social Sciences	3
Total	**18**

8th Semester

Course Title	Credit Hrs
Monetary Economics	3
Sociology and World Economics Systems	3
Specialization/Elective-4	3
Research Methods/Computing packages for Economists/ Computer	3
Skills for Social Scientists	
Islamic Law of Business Contracts	3
Final Year Project/Thesis	3
Total	**18**
GRAND TOTAL	**144**

Annexure - 3: Associate Degree in Economics [Islamic Banking]

1st Semester

Course Title	Credit Hrs
English-1	3
Principles of Microeconomics	3
Islamic Studies	3
Statistics for economists	3
Business Administration or Psychology	3
Basic Arabic	3
	18

2nd Semester

Course Title	Credit Hrs
Principles of Macroeconomics	3
English-2	3
Pakistan Studies	3
Mathematical Economics	3
Arabic for Understanding Qur'an	3
Ethics and Universal Values	3
	18

3rd Semester

Course Title	Credit Hrs
Intermediate Microeconomics	3
English-3	3
Economic Development	3
Statistics-2	3
Arabic writing and speaking	3
Introduction to Islamic Banking & Finance/ Usul-al-Fiqh 1	3
	18

4th Semester

Course Title	Credit Hrs
Intermediate Macroeconomics	3
World History	3
Labour Economics	3
Mathematical Economics-2	3
Pakistan's Economy [with Term Paper on Banking]	3
Arabic - Subject Specific [Mo'zoohi]	3
Internship [Banking/Islamic Banking/Finance] institutions] to be	3
completed during summer vacations/ Usul-al-fiqh	
Total	18
GRAND TOTAL	**72**

Annexure - 4: Semesterwise Scheme of Studies Forcertificate Course in Islamic Banking & Finance

Module 1- Courses	Credit Hrs
Project Appraisal and Management	3
Elimination of Riba and Alternative System	3
Commercial & Financial Laws relevant to Islamic Financial Institutions	3
Islamic Banking: Theory, Practice & Leg Framework	3
AAOIFI Shariah Standards	3
From elective list	3
Research essay and viva	S/U

Annexure – 5: Semesterwise Scheme of Studies for One Certificate Course in Islamic Banking & Finance

Module 1- Courses	Credit Hrs
Module 1	
Project Appraisal and Management	3
Elimination of Riba and Alternative System	3
Commercial & Financial Laws relevant to Islamic Financial Institutions	3
Islamic Banking: Theory, Practice & Leg Framework	3
AAOIFI Shariah Standards	3
From elective list	3
Module 2	
1. Insurance & Takaful Management	3
2. Investment Analysis and Portfolio Management	3
3. Risk Management in Islamic Banking	3
4. Designing & Pricing of New Financial Instruments	3
5. Shariah Maxims & Contemporary Fatawa in Financial Transactions	3
6. Research project	3
7. Internship	2
1.Viva	S/U

M.Sc. Economics

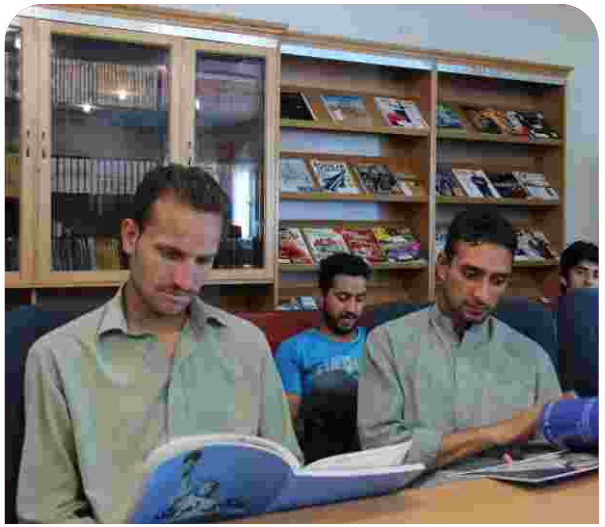
The Kashmir Institute of Economics (KIE) offers 2 years M.Sc. degree program in Economics. The program includes compulsory courses, optional courses, workshops and conference courses. A thesis of 6 credits or two optional courses, practical training (internship), and comprehensive written and oral examination is also compulsory. The elective courses are offered during different semesters. In addition to the above, a new thinking in the discipline of economics is emerging as Divine Economics. The Divine Economics is defined "The study of economics and religion in each other's perspective using scientific process". Under this initiative, the Kashmir Institute of Economics designed and offered some new courses such as; Introduction to Divine Economics , World Economic History, Macroeconomics Controversies and Institutional Economics etc. Moreover, keeping in view the increasing demand for the quality manpower in the field of disaster management, some new courses are also developed and offered in this field.

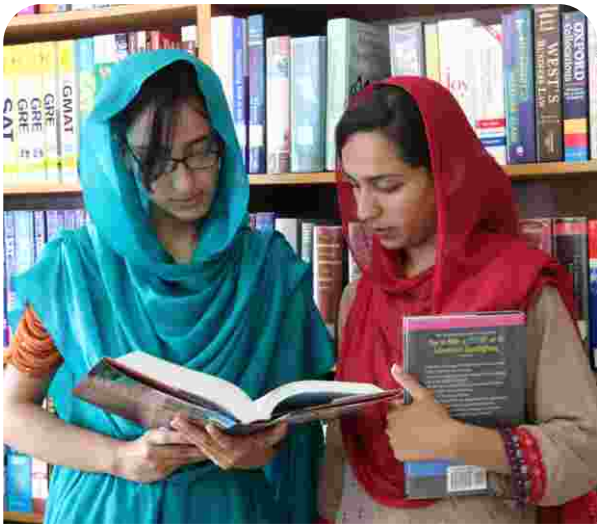
Eligibility criterion for M.Sc. Economics

The Eligibility criterion for admission in M. Sc Economics is B.A/ B.Sc with Economics as an optional subject having at least second division (subject to the University latest rules). Preference shall be given to the candidates studied Statistics/ Mathematics in graduation.

Scheme of Studies for M.Sc Economics

Duration:	4-6 Semesters
Courses:	56 Credits
Thesis or two optional courses	06 Credits
Reading and Conference	S/U Basis
Comprehensive Oral Examination	S/U Basis
Internship/Practical training	S/U Basis
Total Credit Hours:	**62 Credits**





1st Semester

Course Code	Course Title	Credit Hrs
ECO-5101	Micro Economics-I	03
ECO-5102	Macro Economics-I	03
ECO-5103	Mathematical Economics-I	03
ECO-5104	Statistics	03
ECO-5105	Islamic Economics	03

2nd Semester

Course Code	Course Title	Credit Hrs
ECO-5201	Econometrics	03
ECO-5202	International Trade	03
ECO-5203	Development Economics	03
ECO-5204	Monetary Economics	03
ECO-5205	Mathematical Economics-II	03
ECO-5206	Ethics and Universal Values	02

3rd Semester

Course Code	Course Title	Credit Hrs
ECO-6301	Micro Economics-II	03
ECO-6302	Macro Economics-II	03
ECO-6303	Research Methods & Computer Applications	03
ECO-6304	Issues in Pakistan Economy	03
	Optional Course-I	03

4th Semester

Course Code	Course Title	Credit Hrs
ECO-6401	Public Finance	03
ECO-6402	Research Workshop and Field Work	S/U Basis
ECO-6403	Comprehensive Oral Examination	S/U Basis
ECO-6404	Internship/Practical Training	S/U Basis
ECO-6405	Applied Econometrics	03
ECO-6406	Thesis (Optional)	06
	Or	
	Optional Course-II (Emerging Issues in Pakistan Economy)	03
	Optional III	03
	Optional IV (All students)	03

List of Optional Courses for M.Sc Economics

3rd Semester

Course Code	Course Title	Credit Hrs
ECO-6305	Please mentioned the name of Course Title (Mam. Sobia)	03
ECO-6306	Comparative Economics Systems	03
ECO-6307	Project Formulation and Evaluation	03
ECO-6308	Agricultural Economics	03
ECO-6309	Economics for Rural Development	03
ECO-6310	Disaster Economics	03
ECO-6311	Demographic Economics	03
ECO-6312	International Finance	03

Note: Any two courses from a combination defined above can be opted subject to offer by the Institute.

List of Optional Courses for M.Sc Economics

4th Semester

Course Code	Course Title	Credit Hrs
ECO-6407	Resource Economics	03
ECO-6408	Banking and Finance	03
ECO-6409	Economic Planning	03
ECO-6410	Islamic Banking and Finance	03
ECO-6411	Production Economics	03
ECO-6412	Human Resource Development	03
ECO-6413	Introduction to Divine Economics	03
ECO-6414	Topics in Islamic Economics	03
ECO-6415	Labour Economics	03
ECO-6416	Environmental Economics	03
ECO-6417	Topics in Kashmir Economics	03

Note: Any two courses from a combination defined above can be opted subject to offer by the Institute.

Besides the above optional subjects the following courses can also be offered whenever possible.

Course Code	Course Title	Credit Hrs
ECO-6418	Regional Economics	03
ECO-6419	Health Economics	03
ECO-6420	Financial Institutions and Markets	03
ECO-6421	Emerging Issues in Pakistan Economy	03
ECO-6422	Advance Quantitative Techniques	03
ECO-6423	Urban Economics	03
ECO-6424	General Equilibrium and Welfare Economics	03
ECO-6425	Entrepreneurial Economics	03
ECO-6426	World Economic History	03
ECO-6427	Macroeconomic Controversies	03
ECO-6428	Institutional Economics	03

M.Phil/PhD

M.Phil/ PhD Programs were started in February 2011. The Scheme of studies and other details are as follow;

M.Phil Economics

For award of M.Phil degree, the candidates need to complete 24 hour of course work along with a minimum of 6 credit hours for research work/thesis.

Course work	24 credits
a) Compulsory courses	09 credits
b) Optional courses	15 credits
c) Reading & Conference	S/U basis
Thesis/ Dissertation	06 credits
Duration:	4 to 6 semesters
Total	**30 credit**

Eligibility

1. Sixteen years of schooling or 4 year education (130 credit hours) after HSSC/F.A. /F.Sc/Grade 12 equivalent will be required for admission in the M.Phil/MS.
2. The GAT-General (www.nts.org.pk/gat/gat.asp) conducted by the National Testing Service with a minimum 50% cumulative score will be required at the time of admission to M.Phil/ M.S. The GAT-General test is valid for a period of two years.
3. Aptitude Test / interview of KIE to be counted towards cumulative merit.
4. Preference shall be given to the candidate with professional experiences of teaching, research, publications and university employees if otherwise eligible.

Scheme of Studies for M. Phil /Ph.D

M.Phil Economics: List of Compulsory Courses (09+6 Credits)

Course Code	Course Title	Credit Hrs
ECO-7101	Microeconomics Theory	03
ECO-7102	Macroeconomics Theory	03
ECO-7103	Econometrics Theory	03
ECO-7104	Ethics and Universal Values	03
ECO-7201	Research Workshop and Field Work	S/U
ECO-7202	Thesis	06

Ph.D in Economics: List of Compulsory Courses (09+24 Credits)

The following three courses shall be compulsory to complete PhD in Economics. However, if the Admission Committee/Supervisory Committee deems necessary, may declare any or all the compulsory where applicable.

Course Code	Course Title	Credit Hrs
ECO-7301	Topics in Microeconomics	03
ECO-7302	Topics in Macroeconomics	03
ECO-7303	Topics in Econometrics	03
ECO-7304	Ethics and Universal Values	03
	Comprehensive Examinations Written/Oral	S/U
ECO-7305	Research Workshop and Field Work	S/U
ECO-7306	Dissertation	24

Optional Courses (M. Phil/Ph.D):

This list is of optional courses corresponds to various fields of specialization. The student will be free to choose any five courses for M.Phil and five for Ph.D, depending on his/her aptitude/ interest and availability of faculty members/resource persons.

M.Phil/ Ph.D Program: List of Optional Courses (12 Credits for M.Phil and 09 Credits for Ph.D)

Economic Theory

Course Code	Course Title	Credit Hrs
ECO-7105	Advanced Microeconomics Theory	03
ECO-7106	Advanced Macroeconomics Theory	03
ECO-7107	General Equilibrium & Welfare Economics	03
ECO-7108	Macroeconomic Dynamics & Growth Theory	03
ECO-7109	History of Economic Thought	03
ECO-7110	Behavioral & Experimental Economics	03
ECO-7111	Capital and Growth	03

Mathematical Economics

Course Code	Course Title	Credit Hrs
ECO-7112	Static and Dynamic Optimization	03
ECO-7113	Operations Research Methods for Economists Real Analysis	03
ECO-7114	Mathematical Modeling	03
ECO-7115	Linear Algebra & Calculus	03
ECO-7116	Input-Output Models	03
ECO-7117	Methods & Models of Economic Dynamics	03
ECO-7118	Research Methods & Quantitative Techniques	02
ECO-7119	Applied Economics workshops	01

Note: ECO-7119 will be offer as compulsory course with ECO-7118

Econometrics

Course Code	Course Title	Credit Hrs
ECO-7120	Statistical Research Methods	03
ECO-7121	Bayesian Econometrics	03
ECO-7122	Probability Theory	03
ECO-7123	Multivariate Analysis	03
ECO-7124	Time Series Analysis	03
ECO-7125	Panel Econometrics	03
ECO-7126	Topics in Applied Econometrics	03

Islamic Economics

Course Code	Course Title	Credit Hrs
ECO-7127	Fundamentals in Islamic Economics	03
ECO-7128	Topics in Islamic Economics	03
ECO-7129	Leading Issues in Islamic Economics & Finance	03
ECO-7130	Monetary & Fiscal Framework for an Islamic Economy	03
ECO-7131	Economic Development in Islamic Perspective	03
ECO-7132	Income Distribution and Poverty Alleviation (in faith perspective)	03
ECO-7133	Comparative Economic Systems	03
ECO-7134	Classics in Islamic Economics	03

Monetary Economics

Course Code	Course Title	Credit Hrs
ECO-7135	Advanced Monetary Theory	03
ECO-7136	Topics in Monetary Economics	03
ECO-7137	Monetary Policy Analysis	03

Public Sector Economics & Finance

Course Code	Course Title	Credit Hrs
ECO-7138	Advanced Public Economics	03
ECO-7139	Topics in Public Economics	03
ECO-7140	Fiscal Policy Analysis	03
ECO-7141	Taxation Structure of Pakistan	03
ECO-7142	Debt Sustainability and Economics Management	03

International Economics

Course Code	Course Title	Credit Hrs
ECO-7143	International Trade Theory	03
ECO-7144	International Trade policy	03
ECO-7145	Globalization and Economic Integration (WTO RTAs)	03
ECO-7146	Globalization & Economic Challenges for Developing Economies	03
ECO-7147	International Finance Topics	03
ECO-7148	International Finance policies	03

Development Economics

Course Code	Course Title	Credit Hrs
ECO-7149	Topics in Development Economics	03
ECO-7150	Development Policy & Planning	03
ECO-7151	Topics in Human Resource Development	03
ECO-7152	Income Distribution and Poverty Alleviation	03

Divine Economics

Course Code	Course Title	Credit Hrs
ECO-7153	Introduction to Divine Economics	03
ECO-7154	Economics of Wellbeing	03
ECO-7155	Disaster Economics	03
ECO-7156	Progress in Economics of Religion	03
ECO-7157	Economics of the Future	03
ECO-7158	Comparative Economics Systems and Blocks	03
ECO-7159	Comparative Case Studies of Economic Performance	03
ECO-7160	HRD-II (Faith perspective)	03
ECO-7161	Health Economics-II (Faith perspective)	03
ECO-7162	Economics of Social Problems	03
ECO-7163	Economics of Governance and Management	03
ECO-7164	Economics of Religious, Technical and General Education	03

Others

Course Code	Course Title	Credit Hrs
ECO-7165	Topics in Pakistan Economy	03
ECO-7166	Natural Resource Economics	03
ECO-7167	Topics in Energy Economics	03
ECO-7168	Topics in Urban Economics	03
ECO-7169	Topics in Labor Economics	03
ECO-7170	Economics of Governance and Management	03
ECO-7171	Topics in Azad Jammu Kashmir Economy	03
ECO-7172	Topics in Agricultural Economics	03
ECO-7173	Regional Economics	03
ECO-7174	Economics of Arts and Crafts	03
ECO-7176	Economics of Tourism	03
ECO-7177	Environmental Economics	03
ECO-7178	Research Methodology and Applied Econometrics	03
ECO-7179	Applied Micro econometrics	03
ECO-7180	Applied Macro econometrics	03
ECO-7181	Macroeconomics in a global context	03
ECO-7182	Open Economy Macroeconomics	03
ECO-7183	Governance and Sustainability	03
ECO-7184	Economic Change and Ideas	03
ECO-7185	Pakistan Economic History	03
ECO-7186	Banking, Money and Finance	03
ECO-7187	The Economics of Developing Countries	03
ECO-7188	The Economics of Middle East	03
ECO-7189	The Economics of SAARC countries	03
ECO-7190	Tourism Economics and Management	03
ECO-7191	Labor Economics	03
ECO-7192	Advance Mathematical Economics	03
ECO-7193	Issues in Economic Theory	03

Course Code	Course Title	Credit Hrs
ECO-7194	Recent Development in Economic Theory	03
ECO-7195	Economics of Religion [EoR] models	03
ECO-7196	Institutional Economics	03
ECO-7197	Issues in Energy Economics	03

The ultimate desire of human as directed by Almighty Allah is to seek knowledge. Kashmir Institute of Economics has a comprehensive quality assurance system which encourage and empowers a student to become an independent learner. The institute is playing a vital role in development of our nation. I always pray for the prosperity of my Institute.

Taqdees Zafar ,
2nd Semester
M.Phil Economics

Our University has encouraging environment for studies and the highly prestigious faculty, which make it a distinguished one. The key mission of Institute of economics is to impart knowledge, to build confidence and to groom our personality. It is a change to develop our thinking and skills in at atmosphere that is both supportive and cutting edge. I hope in the future my university and Department will be among the best in the world.

Muhammad Iftikhar
BS Economics, 7th Semester,

I am delighted to affirm the commitment of the Kashmir Institute of Economics to ensuring that all who study here are treated fairly, equitably and in a way that allow them to fulfill their potential. Quality of education in the middle of mountains is the first thing which comes to me when I think about Kashmir Institute of Economics. The time spent here in the Institute, I will remember throughout my life. May our Institute touch the heights over night?

Muhammad Naeem Akram,
M.Sc. Economics, 3rd Semester,

I think it's a great honor for me to study here at University of Azad Jammu and Kashmir in a supervision of great and highly qualified teachers. Here the environment is friendly. The research work is supervised by highly skilled supervisors.
It is a platform where I explored myself to enlighten my skills and knowledge. I will never forget the time spent in the university. I always pray for the prosperity of University of Azad Jammu and Kashmir.

Zainab Gillani,
BS Economics, 7th Semester,

Institute of Education

Teacher-educators play an important role in shaping up the life and competence of prospective teachers, it is, therefore, essential for them to be adequately equipped with the required skills that will enable them to present themselves as a perfect role model for the prospective teachers. This indicates the importance of effective teaching learning systems in teacher education Programs. The Institute of Education is one of the pioneering Institutes of Pakistan and AJK which offered four years Degree Programs designed as per HEC guidelines and while keeping in view the New Education Policy 2009, the National Professional Standards for Teachers in Pakistan and Accreditation Standards for Degree Programs. The Institute is also accredited in category "Y" by National Accreditation Council for Teacher Education (NACTE). The Institute offers:

- A.D.E. in-service, later teachers Programs
- Four years B. Ed (Hons) earlier (Elementary/Secondary) and M.Phil.

All these Programs are designed to meet the market needs of education sector. The courses and activities are designed to cultivate practical skills for teaching and research in our standard teacher. To respond to the drastically changing scenario and needs of modern teaching requirement of our children in school, Institute of Education is committed to excellence through preparing professional teachers, competent educational managers and visionary policy makers.

Dr. Batool Atta

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Dr. Tanveer Hussain Shah, Ph.D. (USA)

Syed Jawad Zareen, Ph.D. Scholar, (Pak)

Rabia Khurshid, M.Phil. Scholar, (Pak)

M. Kashif Khurshid, M. Phil Scholar, (Pak)

Asthma Zia, M. Phil, (Pak)

Raja Adeel Ahmed Khan, M. Phil, (Pak)

Saima Saeed, M.Phil. Scholar, (Pak)

Syed Qasim Bukhari, M.Phil. Scholar, (Pak)

Benefits of joining any Program at Institute of Education

Excellent Resources

- Well qualified faculty members
- Advance curriculum in line with the parameters of scientific approach and needs of the modern era
- Facility of high speed Internet and wireless internet environment
- High Tech Video Conference Hall
- Well-furnished and air conditioned rooms providing an excellent conducive environment for learning and research purposes Information Resource Center and Lincoln Corner reading center that aims to supply active and conducive learning environment.

Other Benefits

- Become efficient professionals in teaching subjects/ courses of specialization in line with established principles of learning and teaching
- Develop the essential skills and understanding of the discipline so the quality education could be imparted to the students
- Adequately equip yourselves as professional teachers with innovative teaching learning methods
- Enable them to understand psychological principles of growth for developing holistic role models
- Instill the ability for guiding and counseling to solve personal and academic problems of students in order to motivate them towards meaningful academic pursuits.

Programs

The Institute of Education offers broad based and diversified Program of general and professional education. The aim is to prepare young generation to teach different subjects at all levels with professional competence and universal values. The variety of Programs offered at the Institute can be divided into the following categories:

Associate Degree in Education (ADE)
In-service Teacher Education Program
Continuous Professional Development (CPD) Short Courses
B. Ed (Hon's)Elementary/ Secondary

Pre-service Teacher Education Programme Assisted By HEC/USAID

A new accreditation system is being introduced by HEC that aims at standardization of teaching and learning process in Pakistan. This requires a systematic change in the ongoing educational degree Program such as B. Ed, M. Ed, etc. Hence a new 4-year B. Ed (Hons) degree Program is being developed and launched in Pakistan/ AJK/NA by HEC in collaboration with USAID Teachers Education Project (PRESTEP).

The USAID has provided technical and financial support to Government of Pakistan for this Program. The Program has been introduced in 25 universities including UAJK and Karakoram University. Under this Program, an excellent building having resource centre, and research facilities shall be constructed at Chehla Campus.

Teacher Training

The Institute of Education is pleased to announce that in-collaboration of the Ministry of Education and higher studies, it is conducting training sessions for public school Teachers. Institute is also developing the skills and professionals of human resource of the state for up-gradation of education quality and standards.

Timings

Unless otherwise explained, all normal Programs are run in morning and self-support Programs in evening. On the basis of specialized courses, these are usually offered in evening and can also be adjusted at weekends.

Cumulative Credits & Modular Programmes

Almost all courses, workshops and short programs are designed on credit hour basis. Hence, if you wish to join the Institute from off and on for short courses, your credits will be accumulated towards a degree or diploma or certificate level program. This means that by taking admission to that program you may be considered for exemption from the courses which you have already completed from time to time.

The new Degree Programmes according to new Education Policy (2009)

The New Education Policy for Pakistan was announced by the Prime Minister in September 2009. Among other features, three dimensions of new policy have led responsive universities in Pakistan towards revising and improving educational degree awarding systems and in-service teacher education program. These are;

- New Pay scales for those holding 4-years B.Ed. (Hons) Degree and two years.
- The new Accreditation Standards for Education Degree Program in Pakistan enforced in August 2009 which imply that educational institutions shall have to improve drastically otherwise these shall not be accredited.
- The Ten (10) National Professional Standards for Teachers in Pakistan (NPTSs) enforced in February 2010. The University of AJK has the Honour of pioneering the policy-led change in teacher education process and starting 4-year B.Ed. Hons Degree in February2010.

The Institute of Education is planning to launch B.Ed. (Hon's) as soon as possible. This department is determined to fulfill the need of society in way best possible way.

B.Ed. Hons. (4-year)

Those who have a passion for teaching and are willing to take it as their profession and career, then this new B.Ed. Hons., degree would be their first choice. This is designed as 2+2 year Program. During first two years, the students shall study the conventional Bachelor's level courses along with some courses in education and practical teaching. In the second two years, they will study pedagogy oriented content extensively. Hence, the students who, due to any compelling personal reasons, quit after completing initial two years shall be awarded Bachelor Degree in Education. They will be better educators especially for private sector that presently engages non trained teachers. The Scheme of studies for B.Ed (4-Year Program) has been designed in accordance with the HEC guidelines and the national

needs for well-trained teacher educators and education managers.

Why to Choose BA/B.ED. Hons Programme?

After passing Intermediate level exam, the candidates may opt for BA/B.Ed. Hons program due to the following reasons:

- According to New Education Policy, teaching jobs shall be assigned to those holding 4-years B.Ed. Hons. Or equivalent academic qualification
- Learning teacher-education process according to new Accreditation Standards for Education Degree Program, Pakistan enforced in August 2009
- Developing teaching competencies according to new National Professional Standards for Teachers in Pakistan (NPTSs) enforced in February 2010
- Excellent resources, other benefits and job opportunities emerging rapidly for licensed teachers in Pakistan

Job Opportunities

Since the Program has been modeled in accordance with national policy and national/ international standards, the successful candidates shall find ample job opportunities in both the public and private sectors. The Curriculum is designed in a way that they can switch over to other disciplines for pursuing higher degrees, thereby making their career interdisciplinary in nature. Thus the said degree Program can open various avenues of diverse careers for the successful graduates.

Eligibility Criteria

The criterion for admission to B.Ed. (Hon's) program is:

- FA/FSc./ A levels with minimum 2nd Division
- FA/FSc./ A levels with school subjects
- Equivalent education form recognized madrasa system

Assessment:

Student are evaluated and assessed under the designed criterion of university by Quizzes, assignments and presentations through written and oral examinations. Students should maintain 2.5 CGPA (cumulative grade point average) by the end of the degree. The sessional (including Quizzes and assignments) and terminal exams comprises of 50 marks each

Scheme of Studies

Compulsory Courses:	23
Professional/ Specialized Courses:	52
Foundation Courses:	21
Content Courses:	27
Teaching Practice:	15
Total Credit Hours:	**138**

The First Two Years (BA) Of B.ED. Hon's. As Equivilant To Associate Degree In Education (ADE)

This Program has been designed by UAJK keeping in view the AJK specific needs and demand-supply gap of trained teachers especially in the private sectors that shoulders the public sector to a great extent. A large number of candidates appear in simple BA exam having almost limited use in any professional field. The 14 years education gives no benefits to the nation and the candidate if he/she has to quit at this stage due to any circumstances. Therefore, as mentioned above, to make the 4 year education degree more flexible and attractive, the degree Program has been split into 2+2 years with the provision that the candidate can take exit after completing first two years by getting a BA (Education) degree or Associate Degree in Education (ADE) and can rejoin the Program any time later in the third year within five year period.

New/revised Subdisciplines In Teacher Education (UAJK)

Keeping in view the obsolete nature of the existing BA degree in the country, some new sub-disciplines for a BA degree are presented below. These Program contain all skill development in selected fields. The students of different degree Program can choose any one of the following discipline subject to the condition that any particular discipline/ courses is offered at the time:

1. Secondary

a. Physics, Math b. Chemistry, Biology

2. Elementary

a. Languages (English-Urdu; English-Arabic; English Persian; Urdu-Arabic; Urdu-Persian; Urdu-Kashmiri)

The Board of Studies agrees that the faculty of education can prepare the course outline for new courses, and adopt them subject to approval of the next meeting of BOS.

Courses Offered in B.Ed. (Hons) Elementary

1st Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-3101	Functional English-I (Compulsory)	3	3
EDU-3102	Islamic Studies/Ethics (Compulsory)	2	2
EDU-3103	Child Development (Foundation)	3	3
EDU-3104	Urdu /Regional Language (Content)	3	3
EDU-3105	General Science (Content)	3	3
EDU-3106	General Methods of Teaching (Foundation)	3	3
	Total	**17**	**17**

2nd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-3201	English-II (Communication Skills) (Compulsory)	3	3
EDU-3202	Computer Literacy (Compulsory)	3	3
EDU-3203	Classroom Management (Foundation)	3	3
EDU-3204	General Mathematics (Compulsory)	3	3
EDU-3205	Pakistan and Kashmir Studies (Compulsory)	3	3
EDU-3206	Methods of Teaching Islamic Studies (Professional)	3	3
	Total	**18**	**18**

3rd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4301	Arabic for understanding of Quran (Compulsory)	3	3
EDU-4302	Art, Craft and Calligraphy (Content)	3	3
EDU-4303	Teaching of Urdu/Regional Languages (Professional)	3	3
EDU-4304	Teaching of G. Science (Professional)	3	3
EDU-4305	Instructional and Communication Technology (ICT)	2	2
	in Education (Professional)		
EDU-4306	Teaching Practice (Short Term)	3	3
	Total	**17**	**17**

4th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4401	Classroom Assessment (Foundation)	3	3
EDU-4402	Teaching of English (Professional)	3	3
EDU-4403	Teaching of Mathematics (Professional)	3	3
EDU-4404	School, Community and Teacher (Foundation)	3	3
EDU-4405	Teaching of Social Studies	2	2
EDU-4406	Teaching Practice	3	3
	Total	**17**	**17**

5th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-5501	English III (Teaching Writing and Presentation Skills)	3	3
EDU-5502	Foundation of Education (Foundation)	3	3
EDU-5503	Content Course I (from Selected Discipline-I)	3	3
EDU-5504	Content Course I (from Selected Discipline-II)	3	3
EDU-5505	Curriculum Development (Foundation)	3	3
EDU-5506	Educational Psychology (Foundation)	3	3
	Total	**18**	**18**

6th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-5601	Teaching Literacy Skills (Professional)	3	3
EDU-5602	Contemporary Issues & Trends in Education (Professional)	3	3
EDU-5603	Content Course II (from Selected Discipline-I)	3	3
EDU-5604	Content Course II (from Selected Discipline-II)	3	3
EDU-5605	Comparative Education (Professional)	3	3
EDU-5606	Introduction to Guidance & Counseling (Professional)	3	3
	Total	**18**	**18**

7th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-6701	Content Course-III (from selected Discipline-I)	3	3
EDU-6702	Content Course-III (from selected Discipline-II)	3	3
EDU-6703	Pedagogy-I (Method of Teaching related to Specialization-I)	3	3
EDU-6704	Pedagogy-I (Method of Teaching related to Specialization-II)	3	3
EDU-6705	Research Methods in Education (Professional)	3	3
EDU-6706	Teaching Practice (Short Term)	3	3
	Total	**18**	**18**

8th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-6801	School Management (Professional)	3	3
EDU-6802	Test Development & Evaluation (Professional)	3	3
EDU-6803	Teaching Practice (Long Term)	6	6
EDU-6804	Research Project (Professional)	3	3
	Total	**15**	**15**
	Grand Total Credit Hours	**138**	**138**

Courses Offered in B.Ed (Hons) Secondary

1st Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-3101	Spoken English	3	3
EDU-3102	Arabic for understanding Quran	3	3
EDU-3103	Philosophy of Education	3	3
EDU-3104	Computer in Education	3	3
EDU-3105	Course Content-I (Discipline-I)	3	3
EDU-3106	Course Content-I (Discipline-II)	3	3
		S/U	S/U
	Total	**18**	**18**

2nd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-3201	Functional English	3	3
EDU-3202	Human Development	3	3
EDU-3203	Pakistan Studies & Kashmir Studies	3	3
EDU-3204	Mathematics	3	3
EDU-3205	Course Content-II (Discipline-I)	3	3
EDU-3206	Course Content-II (Discipline-II)	3	3
EDU-3207		S/U	S/U
	Total	**18**	**18**

3rd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4301	English (literature & creative writing)	3	3
EDU-4302	Course Content-III (Discipline-I)	3	3
EDU-4303	Course Content-III (Discipline-II)	3	3
EDU-4304	Teaching of Mathematics	2	2
EDU-4305	Islamic Studies / ethics	2	2
EDU-4306	Classroom Management	2	2
EDU-4307		S/U	S/U
	Total	**15**	**15**

4th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4401	Classroom Assessment	3	3
EDU-4402	General Methods of teaching	3	3
EDU-4403	Teaching Practices	6	6
EDU-4404	Course Content-IV (Discipline-I)	3	3
EDU-4405	Course Content-IV (Discipline-II)	3	3
EDU-4406		S/U	S/U
	Total	**18**	**18**

5th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-5501	Curriculum Development	3	3
EDU-5502	School Management	3	3
EDU-5503	School Society & Teacher	3	3
EDU-5504	Guidance and Counseling	3	3
EDU-5505	Development of Education in Pakistan	3	3
EDU-5506	Comparative Education	3	3
EDU-5507		S/U	S/U
	Total	**18**	**18**

6th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-5601	Educational Research & Statistics	3	3
EDU-5602	Educational Psychology	3	3
EDU-5603	Critical Thinking and analytical skills	2	2
EDU-5604	Education in Emergencies/ Disaster Preparedness	2	2
EDU-5605	Pedagogy-I (Methods of Teaching related to Specialization I)	3	3
EDU-5606	School Improvement Plane	2	2
EDU-5607		S/U	S/U
	Total	**15**	**15**

7th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-6701	Educational Management & Leadership	3	3
EDU-6702	Contemporary Trends and issues in Education	3	3
EDU-6703	Pedagogy-II (Methods of Teaching related to Specialization II)	3	3
EDU-6704	Teaching Practice	6	6
EDU-6705		S/U	S/U
	Total Credits Hours	**15**	**15**

8th Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-6801	Research Project	3	3
EDU-6802	ICT in Education	2	2
EDU-6803	Monitoring & Supervision of Education at Secondary Level	2	2
EDU-6804	Teaching Practice	3	3
EDU-6804	Reflective Practices	2	2
EDU-6804	Test and Evaluation in Education	3	3
EDU-6804		S/U	S/U
	Total	**15**	**15**
	Grand Total	**132**	**132**

Courses Offered in ADE (In-service)

1st Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4101	English I	3	3
EDU-4102	Islamic Studies / Universal Values	2	2
EDU-4103	Computer Literacy	3	3
EDU-4104	General Mathematics	3	3
EDU-4105	Assessment	2	2
	Total	**13**	**13**

2nd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4201	General Science	3	3
EDU-4202	Classroom Management	1	1
EDU-4203	Teaching of Social Studies	1	1
EDU-4204	School, Community & Teacher	1	1
EDU-4205	Teaching of Urdu	1	1
EDU-4206	Teaching of General Science	1	1
EDU-4207	ICT in Education	2	2
EDU-4208	Teaching English	1	1
EDU-4209	Teaching Mathematics	1	1
	Total	**12**	**12**

3rd Semester

Course Code	Course Title	Lec. Hrs	Credit Hrs
EDU-4301	Pak/ Kashmir Studies	2	2
EDU-4302	Arts, Crafts & Calligraphy	3	3
EDU-4303	English II	3	3
EDU-4304	Urdu / Regional Language	2	2
EDU-4305	Methods of Islamic Studies	1	1
EDU-4306	Teaching Literacy	2	2
	Total	**13**	**13**
	Grand Total	**38**	**38**

The time I have spent in University is no doubt a golden period of my life. During my interaction with my departmental faculty, I found them sympathetic, highly qualified, experienced and cooperative. I pay congratulation to my Coordinator and all other faculty members who have succeeded to start B.Ed. (Hons) Program in Institute of Education, University of AJK. As I experienced, this degree is full of scope and enjoys practical consumption. I pray for the betterment and prosperity of my Department and University.

Mansoor Ali Bukhari
BS Education (Secondary)
2nd Semester

I deeply value the time spent in the house of knowledge the UAJK. Here, faculty members are higly qualified and experienced. I am proud to be part of University of Azad Jammu & Kashmir.

Sana Nazir,
BS Education (Secondary)
7th Semester,
Session 2013-17

University of AJK is a symbol of national prestige and repository of a Nation's ideals. I would simply convey my message to all, that Institute of Education is the Institute where I learnt to be punctual, Participative and noble person. My learning skills got improved over here. My capacities to learn and get educated groomed over here. I found means to explore my hidden skills in this praiseworthy institute. I feel honored to be a part of the Institute of Education. It offers the students to become educated and skillful members of the society.

Muhammad Arslan
BS Education (Secondary)
2nd Semester

Department of Islamic Studies

Introduction

In the name of Allah the most Gracious, the most Merciful. Indeed Allah conferred a great favour on the believers when He sent among them a Messenger (Muhammad P.B.U.H) from among themselves, reciting unto them His Verses (the Quran), and purifying them (from sins by their following him), and instructing them (in) the Book (the Quran) and Al-Hikmah [the worship)], while before that they had been in manifest error (03: 164).

The department of Islamic Studies was launched in Dec. 2014.The renowned religious and the most influential scholar Prof. Qazi Ikram-ur-Rashid became its founding coordinator.

Vision

To be a prestigious, nationally recognized institution offering innovative and high quality education on Islam, the Quran and on the life of the Prophet Muhammad P.B.U.H with a deeper understanding of these fundamentals of life.

Mission

To strive for bringing positive change in the society through teaching and researching interfaith and intercultural activities from original sources of Islam and to provide quality education, skills and behaviour in the fields of Islamic Studies to maintain global civilization of love and tolerance through educational activism.

Objectives

1. To establish and promote Islamic education and present synthesis of traditional and contemporary Islamic thoughts through proper classes and seminars, issuing verdicts about religious queries under Ifta Committee.
2. To create better understanding of Islam and

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FACULTY

Basher Ahmad Malik, M.Phil (Pak)
Zafar Ahmad Khan, M.Phil, (Pak)

VISITING FACULTY

Dr. Fareed ud Din Tariq, Ph.D. (Pak)
Raza-ur-Rahman Siddique, M.Phil. (Pak)
Muhammad Ashraf Awan, M.Phil. (Pak)
Muhammad Amjad, M.Phil. (Pak)
Awais Ahmad, M.Phil. Scholar, (Pak)
Muhammad Tanveer, M.Phil. Scholar, (Pak)

contemporary challenges faced by the Muslim Ummah.

3. To prepare scholars, who can participate in advance research activities.
4. To make the students of Islamic Studies capable of understanding and solving contemporary issues in the light of Islamic Teachings

M.A. Islamic Studies

Scheme for study for M.A.

Duration	4-6 Semesters
Thesis	6 Credits
Total Credit Hours	66 Credits

Eligibility for Admission

The criterion for admission to M.A. Islamic Studies is graduation with at least 2nd Division.

Job Opportunities

The graduates of the Islamic Studies department have a promising future in the job market. They will be easily absorbed in the academic, in the teaching and research pursuits. Alongside, they have a spacious promise in the intellectual circles, think tanks, media, khateeb in army/mosques, and resource persons in International Islamic Centres, etc.

Layout for MA 2 year Islamic Studies Programme

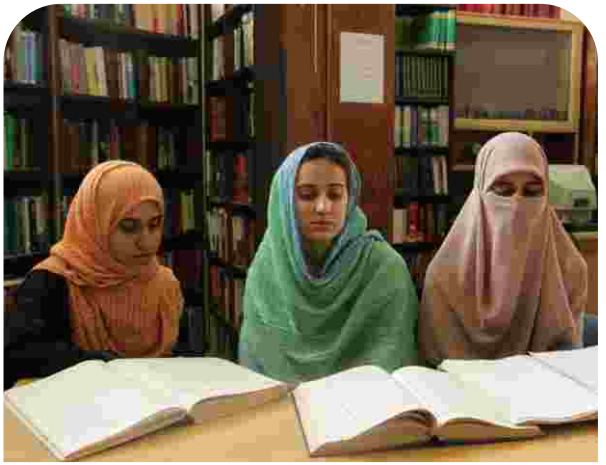
Duration	4-6 Semester
Courses Taught:	30 Credits
Dissertation	03 Credits
Total	**134 Credits**

1st Semester

Course Code	Course Title	Credit Hrs
IST - 5101	Textual study of Quran)i(	3(3-0)
IST - 5102	Tafseer & Its Principles	3(3-0)
IST - 5103	Uloom-ul-Hadith	3(3-0)
IST - 5104	Usool e Fiqh	3(3-0)
ARB-5105	Arabic Language-I	3(3-0)
	Total	**15**

2nd Semester

Course Code	Course Title	Credit Hrs
IST - 5201	Textual study of Quran) (ii)	3(3-0)
IST - 5202	Textual study of Hadith	3(3-0)
IST - 5203	Textual study of of Fiqh ul ibadat.	3(3-0)
IST - 5204	Study of seerah of Holy Prophet	3(3-0)
IST - 5205	Comparative Study of Religions	3(3-0)
IST - 5206	Arabic Language(ii)	3(3-0)
	Total	**18**



3rd Semester

Course Code	Course Title	Credit Hrs
IST - 6301	Textual study of Quran(iii)	3(3-0)
IST - 6302	Fiqh al Sunnah	3(3-0)
IST - 6303	Research Methodology.	3(3-0)
IST - 6304	History of Islam	3(3-0)
IST - 6305	Political system of Islam	3(3-0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
IST - 6401	Textual Study of Al Quran(iv)	3(3-0)
IST - 6402	Al Dawah wal Irshad.	3(3-0)
IST - 6403	Muslim Economical Thought.	3(3-0)
IST - 6404	The Ethics of Disagreement in Islam.	3(3-0)
IST - 6405	Information Technology	3(3-0)
IST - 6406	Thesis/Project	3(3-0)
	Total	17

The University of AJK is a blessing for us; its stimulating and thought-provoking environment draws out hidden abilities. A real and clear difference can be observed before entering and after leaving.

Syeda Iqra Gillani,
MA Islamic Studies,
3rd Semester

Bright future is a dream of every one. Azad Jammu and Kashmir University is a symbol of natural prestige and repository of Nations' ideals. Studying here is a great privilege me. The faculty of our department is sympathetic and cooperative .All the faculty members are the men of devotion .I hope in the future my University will be among the best universities of Kashmir.

Muhammad Umar Qazafi,
MA Islamic Studies, 3rd Semester

My stay in this department has been very pleasant so far. The department of Islamic Studies has a remarkable standard of education which helps us to build confidence and skills to groom our personality. It is a platform where I am exploring myself to enlighten my skills. I hope that my University will be amongst the best Universities of the world in the near future.

Syeda Nosheen Iltaf,
MA Islamic Studies, 2nd Semester

The University of AJK is a beacon of knowledge, where you get the precious pearls of education through the trove of experience of educationists. It's a place where you find quality oriented instructions that lead you to a successful career. My experience at the department has always been tremendous, excellent and leads me to achieve my objectives in the most meaningful way.

Syed Ijaz Naqvi,
MA Islamic Studies, 2nd Semester

Institute of Kashmir Studies

Introduction

The Institute of Kashmir Studies (IKS) was established in 1986 as a Research Institute in the University of Azad Jammu and Kashmir, Muzaffarabad. Since its foundation, the IKS has been working to enhance research and development in the field of Kashmir Studies. In 2008, postgraduate level degree program was started in the IKS which aimed to explore and promote the every dimension of Kashmir.

The IKS has a close-knit community of interdisciplinary scholars that combines expertise in the Languages, Literatures, Histories, Archeology, Cultures, Art and Crafts of Kashmir. The institute prides itself in its ability to meet a variety of research and learning needs. To further enhance and promote the quality of teaching and research, the qualified permanent, faculty members have been inducted recently.

The institute is committed to ensure quality teaching and research in the different areas of Kashmir studies which meet all the educational standards of Higher Education Commission (HEC). The mission of this institute is to produce academically sound scholars to be helpful to resolve the challenges relating to the present issues of the society, and make them useful and responsible citizens of the society. To achieve this mission, the IKS is always devoted to enhance students' professional skills and career opportunities.

The IKS sponsors a variety of activities including cultural events, workshops, conferences, public lectures and other programs that promote understanding of the cultures and societies of the three regions Gilgit Baltistan, Indian Occupied Kashmir and Azad Kashmir the former State of Jammu and Kashmir. Various study tours and visits are regularly arranged to expose the students and faculty to different national and international conferences/seminars on contemporary issues relating to the different fields of society. These extra-curricular

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Mrs. Shabnum Gull, Ph.D Scholar, (Pak)
Mr. Amar Jahangir, M. Phil Scholar, (Pak)
Mr. Anees-ur-Rashid Hashmi, M.Phil Scholar (Pak)
Mrs. Nosheen Altaf, M.Sc. Home Economics, M.A I.R.(Pak) (Contract)
Ms. Amna Aziz (Contract) M.Sc. (Pak)

events provide an opening of an innovative and creative learning and also develop deep inter-disciplinary understanding among the students.

The institute is one of the most active and only full-fledged academic institutes in the State of Azad Jammu and Kashmir, offering education and research at BS 4 year, M.Sc. and MPhil level in Kashmir studies.

Assessment

The students are assessed through Assignments, presentations, Quizzes and Oral and written Examination.

Job Opportunities

The program has bright and applied prospectus as it provide students great opportunities to join Kashmir Liberation Cell, AJK Tourism and Forest Department, Kashmir Cultural Academy, NGO's, Political and Religious Organizations, Hotel Business, Foreign Embassies and Educational Institutes, and further go for higher studies in the field of Civil Services, South Asian Studies, Regional Studies and etc. It is for the first time that Institute is playing a vital role in providing trained and competitive teachers for the Progress of the Institution.

Institutional Linkages

The IKS University of AJK has signed a Memorandum of Understanding (MoU) with the Tokyo University of Foreign Studies (TUFS) Japan. Under this MoU both institutions will develop joint research projects. Through Video-Conferencing System, the IKS students will be able to attend the online lectures. However, after successfully completing this program, IKS students will obtain the Certificates from TUFS, Japan.

Conferences

International Conference on "Kashmir in Emerging Global Perspective" (May 23-24, 2011) was organized at the UAJK in collaboration with the Department of English. Over 400 delegates including internationally renowned academics, research scholars, journalists and socio- political activities participated in the conference. Around 100 researchers presented their papers in the conference.

Seminars

In the IKS, seminar is designed to enhance the learning capabilities of the students. It encourages reflection upon the value and nature of a university education as well as helping students to develop strategies for life-long learning. IKS conducted various seminars for students while considering their needs of learning and knowledge. Well reputed personalities visited the institute and shared their learning and thoughts by delivering lectures on various topics related to Kashmir. These seminars proved beneficial of enhancement of the personal and analytical abilities of the students.

Programmes

BS 4 year Kashmir Studies
M.Sc. Kashmir Studies
M. Phil Kashmir Studies

Eligibility

IKS is planning to launch PhD Programme in near future. The eligibility criterion for admission in BS 4 year Kashmir Studies is F.A/F.Sc. At least in Second Division, M.Sc. Kashmir Studies is graduation at least in Second Division. For M. Phil Programme there is a requirement of entry test and NTS is also mandatory. The age limit shall be decided according to the criteria of the University.

Layout for BS 4 year Kashmir Studies Programme

Duration	8-10 Semester
Course	128 Credits
Dissertation	06 Credits
Total	**134 Credits**

1st Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4101	English-I (Spoken and Functional)	03	Compulsory
IKS- 4102	Islamic Studies	02	
IKS- 4103	Introduction to Education	02	General
IKS- 4104	Moral and Ethics	02	
IKS- 4105	History of Kashmir-I (Main features of B.C & A.D period)	03	Foundation
IKS- 4106	Introduction to Geography of Kashmir	03	
	Total	**15**	

2nd Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4201	English-II (Communication and Skills)	03	Compulsory
IKS- 4202	Arabic & Understanding of Quran	02	
IKS- 4203	Introduction to Law	02	General
IKS- 4204	Basic Economics	02	
IKS- 4205	History of Kashmir-II (Salateens period)	03	Foundation
IKS- 4206	Geology & Geography of Kashmir	03	
	Total	**15**	

3rd Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4301	Pakistan Studies	02	Compulsory
IKS- 4302	Computer Literacy	02	
IKS- 4303	Conflict Analysis and Resolution	03	General
IKS- 4304	Introduction to Religions in Kashmir	03	
IKS- 4305	History of Kashmir-III (Mughal period)	03	Foundation
IKS- 4306	Role of Sufies in Kashmir	03	
	Total	**15**	

4th Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4401	Linguistic Study of Kashmiri Language	03	Compulsory
IKS- 4402	Introduction to Sociology	02	
IKS- 4403	Role of Kashmiri people in Struggle Movement of Pakistan	02	General
IKS- 4404	Regional Languages (Pahari & Gojri)	03	
IKS- 4405	History of Kashmir-IV (Afghan & Sikh Period)	03	Foundation
IKS- 4406	Evolution of Kashmiri Prose	03	
	Total	**16**	

5th Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4501	History of Kashmir (Dogra Period)	03	Compulsory
IKS- 4502	Spoken and Functional Koshur	03	
IKS- 4504	Art and Cultural Heritage of Kashmir	03	
IKS- 4505	Constitutional Development in Azad Jammu & Kashmir	03	
IKS- 4506	Kashmiri Proverbs & Novel	03	
	Total	**15**	

6th Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4601	Comparative Study of Constitutional Development	03	Compulsory
	in G.B, AJK & IHK		
IKS- 4602	Eminent Personalities of Kashmir	03	
IKS- 4604	Art and Cultural Heritage of Kashmir	03	
IKS- 4605	Kashmir Conflict (Different options and formulas)	03	
IKS- 4606	Kashmiri Poetry	03	
	Total	**15**	

7th Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4701	Introduction to Social Research; Methods And Methodology	03	Compulsory
IKS- 4702	Iqbal & Kashmir	03	
IKS- 4703	Tourism of Kashmir	03	General
IKS- 4704	Economic Resources of Kashmir	03	
	Optional-I	03	
	Optional-II	03	
IKS- 4705	Internship (Kashmir Liberation Cell, Kashmir Cultural Academy)		S/U
	Total	**18**	

8th Semester

Course Code	Course Title	Credit Hrs	Status
IKS- 4801	Peace and conflict Management	03	Compulsory
IKS- 4802	Kashmir, Pakistan & Central Asia	03	
IKS- 4803	Comparative study of Administrative Setup/ Development of	03	General
	Azad Kashmir, Indian Held Kashmir and Gilgit Baltistan		
IKS- 4804	Human Rights & Kashmir	03	
IKS- 4805	Thesis	06	
	Total	**18**	

Optional Courses

Course Code	Course Title	Credit Hrs
IKS- 4901	Study of SAARC	03
IKS- 4902	Diplomatic Studies	03
IKS- 4903	Archaeology of Kashmir	03
IKS- 4904	Economic & Political Role of Kashmiri Diaspora in Kashmir	03
IKS- 4905	Advent of Islam In Kashmir	03
IKS- 4906	History of Gilgit Baltistan	03

Note: A student can choose two optional courses from the list given above, in 3rd semester. This option shall be related to the availability of qualified staff and their decision shall be taken in staff meeting, which is supposed to be held two weeks before the commencement of semester.

Eligibility

The eligibility criterion for admission in BS 4 year Kashmir Studies is F.A/F.Sc. at least in Second Division, M.Sc. Kashmir Studies is graduation at least in Second Division. For M. Phil Programme there is a requirement of entry test and NTS is also mandatory. The age limit shall be decided according to the criteria of the University.

Layout for M. Sc. Kashmir Studies Programme

Duration	4-6 Semester
Course	63 Credits
Dissertation	06 Credits
Total	69 Credits

1st Semester

Course Code	Course Title	Credit Hrs
IKS-5101	Ancient History of Kashmir (up to 1339)	03
IKS-5102	Geology & Geography of Kashmir	03
IKS-5103	Constitutional Development in AJK	03
IKS-5104	Sufism in Kashmir	03
IKS-5105	Spoken and Functional Koshur	03
	Total	**15**

2nd Semester

Course Code	Course Title	Credit Hrs
IKS-5201	History of Muslim Rulers in Kashmir (1339 to 1819)	03
IKS-5202	Art & Cultural Heritage of Kashmir	03
IKS-5203	Economic Resources of Kashmir	03
IKS-5204	Regional Languages of Kashmir	03
IKS-5205	Tourism in Kashmir	03
	Total	**15**

3rd Semester

Course Code	Course Title	Credit Hrs
IKS- 5301	History of Kashmir (1819 to 1947)	03
IKS- 5302	Iqbal& Kashmir	03
IKS- 5303	Religions of Kashmir	03
IKS- 5304	Literature of Kashmir -I (Prose)	03
IKS- 5305	Comparative Study of Constitutional Development in AJK, IHK & GB.	03
IKS- 5306	Introduction to Social Research; Methods And Methodology	03
	Internship (Kashmir Liberation Cell, Kashmir Cultural Academy)	S/U
	Total	**18**

4th Semester

Course Code	Course Title	Credit Hrs
IKS- 5401	Peace and Conflict Management	03
IKS- 5402	Kashmir, Pakistan and Central Asia	03
IKS- 5403	Kashmir Conflict (Different Options and Formulas)	03
IKS- 5404	Literature of Kashmir -II (Poetry)	03
IKS- 5405	Thesis(Compulsory)	06
	Seminars/Conferences	S/U
	Grand Viva/Oral Examination	S/U
	Total	**18**

Layout for M. Phil. Kashmir Studies Programme

Duration	4-6 Semester
Course work:	
Compulsory courses	12 Credits
Optional courses	12 Credits
Dissertation	06 Credits
Total	30 Credits

1st Semester

Course Code	Course Title	Credit Hrs
IKS-7101	Kashmir Conflict (Different Options and Formulas)	03
IKS-7102	Research Methodology	03
	Optional-I	03
	Optional-II	03
	Total	**12**

2nd Semester

Course Code	Course Title	Credit Hrs
IKS- 7201	Comparative study of Administrative Setup/ Development of Azad Kashmir, Indian Held Kashmir and Gilgit Baltistan	03
IKS- 7202	Research Methodology	03
	Optional-I	03
	Optional-II	03
	Total	**12**

3rd & 4th Semester

Course Code	Course Title	Credit Hrs
IKS- 7401	Thesis	06

Optional Courses

Course Code	Course Title	Credit Hrs
IKS- 7301	Land and People of Kashmir	03
IKS- 7302	Kashmir Conflict and Role of Super Powers	03
IKS- 7303	Socio Political Development in Kashmir	03
IKS- 7304	Sufi Thoughts in Kashmir	03
IKS- 7305	Economic Resources of Kashmir	03
IKS- 7305	Regional Languages	03
IKS- 7306	History of Freedom Movement in Kashmir	03
IKS- 7307	Comparative study of Constitutional development of	03
	Azad Kashmir, Indian Held Kashmir and Gilgit Baltistan	
	Reading and Conference	03

My stay in Institute of Kashmir Studies has been very pleasant so for. I learned under the guidance of highly qualified faculty of Institute of Kashmir Studies. The day is not so far, when the University and IKS will lead the hearts of People of the Kashmir.

Umar Liaqat
Msc Kashmir Studies, 2nd Semester

It is a matter of immense pleasure for me to join Institute of Kashmir Studies. It is key mission of confidence & groom personality. I always pray for prosperity of the IKS and The University of Azad Jammu & Kashmir.

Mir Saad Latif
BS Kashmir Studies, 2nd Semester

Our Institute has encouraging highly prestigious faculty, which makes it a distinguished one. The Director and Teachers are very cooperative with us is also very cooperative. Hence implicating positive impact on our studies and learning. As a result the students feel competent in making marks in society.

Mehwish Kabeer
MSc Kashmir Studies, 3rd Semester

Department of Law

Adjunct/Visiting Faculty (Core Subjects)

Dr. Khurshid Iqbal, PhD (UK), Dean Faculty of KP
Judicial Academy Peshawar
Dr. M. Nawaz (al Hassani), PhD (Pak)
Post Doc. (Belgium), Faculty at IIU Islamabad
Dr. Ahmed Ali Ghouri, PhD, Post Doc., University of Turku, Finland,
Faculty at University of Sussax, UK
Mr. Abdul Jaleel, Honorary PhD, (France),
Chief Administration (r) FBR, Islamabad
Dr. M. Nawaz Qaisrani, PhD, (Russia), Faculty at IIU Islamabad
Dr. M. Azam, PhD (Pak), Faculty at University of Sargodha
Mr. Muhammad Idrees Abbasi, PhD Scholar (Pak)
Secretary Law Azad Government, Muzaffarabad
Mr. Abdul Shakoor Mehrvi, PhD Scholar (Pak) District Qazi, Muzaffarabad
Mr. Muhammad Ilyas Afridi, LL.M (Pak), Advocate Supreme Court
Sardar Rahim LL.B (Pak), Secretary (Retd.) Azad Government
Mr. Muhammad Ilyas Abbasi LL.B (Pak),
Secretary (Retd.) Azad Government
Mr. K.D. Khan LL.B (Pak), Advocate Supreme Court
Raja Mazhar Waheed, M.A, LL.B (Pak)
Legal Advisor SERRA, Muzaffarabad
Syed Shahid Bahar LL.B (Pak), Advocate Supreme Court
Syed Zulqarnain Naqvi, M.A, LL.M Scholar (Pak) Advocate High Court
Syed Asad Ali Kazmi, LL.B (Pak), Advocate High Court
Ms. Shama Hameed, LL.M (Scholar) (Pak) Advocate
Mr. Abdul Naeem, LL.B (Pak) Advocate
Ms.Bushra Nawaz, LL.M Scholar (Pak) Advocate
Ms. Farheen Aziz LL.M Scholar (Pak) Advocate High Court
Ms. Irum Habib, LL.B (Pak) Advocate

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Syed Muhammad Farrukh Bukhari,
Ph.D Scholar (Turkey)
Ms. Mehwish Kazmi, LL.B (Pak)
Ms. Ghulam Aisha Abbasi, LLM, (Pak)

Introduction

The Department of Law was established in the year 2002 with LL.B 3 year course. The department initially came into existence with meager resources in terms of the faculty and infrastructure, but with the passage of time, it made a significant progress in the academic domain as well as in other aspects. The Department started its research degree programme/LL.M in the year 2006 and LL.B (5 year) course in the year 2008. The faculty has progressed and grown into a prestigious institute of legal study and research in the State of Azad Jammu & Kashmir. It is one of the largest Departments in terms of student intake in the University. The building is on the way to accommodate Library, Moot Court, examination Hall and a Conference Room. The course curriculum is in line with HEC guidelines and satisfies the requirements of both the Bar Councils of AJK and Pakistan.

Job Opportunities

Knowledge of law has got prime importance in contemporary world. The law degree holders have bright future as this degree never binds its list which is endless. Our graduates so far, have been successful in obtaining employment of their choices. Graduates adopt wide range of careers in legal field. One can get job in judiciary, law institutions, government, semi-government offices, journalism, foreign affairs and practitioner in general or in a company, bank or corporate body.

LLB 5-year Degree Programme

Eligibility/Pre-requisite for admission

FA/FSc or Equivalent (or as per University policy for BS or Equivalent Education).

Passing of the aptitude test organized by the department is mandatory to qualify for the admission.

Scheme of Studies

Duration:	05-year (10 Semesters)
Semester duration:	16-18 weeks
Course load per semester:	15-20 credit hours
Number of courses per Semester:	5-7Courses
Total number of credit hours:	176

- 12 compulsory courses of 34 credits.
- 09 general and non-law courses of 27 credits.
- 34 law specific and major courses of 103 credits.
- 4 elective courses within the major courses of 12 credits.
- The medium of instructions and examinations shall be English.
- The Degree shall be awarded subject to the satisfactory performance in the defense of Internship Report and Grand Viva (comprehensive oral examination) before the panel of examiners at the Department of Law.

Template for LLB 5-Year Degree Programme

Categories	No. of courses Min–Max	Credit Hours Min–Max
Compulsory Requirement (No Choice)	12-12	34-34
General and Foundation Courses	09-09	27-27
Discipline Specific Major Courses including Research Project/Internship	34-34	103-103
Electives within the list provided	04-04	12-12
Total	**59-59**	**176-176**

Total number of Credit Hours 176
Duration 5-Year
Semester duration 16-18weeks
Semesters 10
Course Load per Semester 15-20 Cr. Hrs.
Number of courses per semester 5-7

Framework for LLB 5-year Degree Programme

Compulsory Requirements (the student has no choice)

S. No.	Subject	Credit Hours
1.	English-I	3
2.	Pakistan Studies	2
3.	Introduction to Law	3
4.	Skills Development-I	3
5.	English-II	3
6.	Islamic Studies/Ethics	2
7.	Skills Development- II	3
8.	English-III	3
9.	Research Methods	3
10.	Moot Cases and Role playing	3
11.	Arabic	3
12.	Jammu & Kashmir Studies	3
	Total	**34**

General and Foundation Courses

S. No.	Subject	Credit Hours
1.	Sociology	3
2.	Introduction to Economics	3
3.	Political Science	3
4.	Legal History of Pakistan and India	3
5.	Logic, Reasoning and Critical Thinking	3
6.	Human Rights Law	3
7.	Constitutional History of AJK	3
8.	Legal System of Pakistan	3
9.	Fundamentals of Management	3
10.	Total	**27**

Discipline Specific Major Courses Including Research/ Internship

S. No.	Subject	Credit Hours
1.	Islamic Jurisprudence-I	3
2.	Law of Torts	3
3.	Law of Contract-I	3
4.	Constitutional Law-I (Comparative)	3
5.	Law of Contract-II	3
6.	Islamic Jurisprudence-II	3
7.	Jurisprudence-I	3
8.	Constitutional Law-II (Pakistan)	3
9.	Islamic Personal Law-I	3
10.	Criminal Law-I	3
11.	Law of Property-I	3
12.	Jurisprudence-II	3
13.	Corporate Law	3
14.	Islamic Personal Law-II	3
15.	Criminal Law-II	3

16.	Law of Property-II	3
17.	Public International Law-I	3
18.	Constitutional History of Pakistan	3
19.	Civil Procedure Code-I	3
20.	Criminal Procedure Code-I	3
21.	Law of Evidence-I	3
22.	Legal Drafting-I	3
23.	Public International Law-II	3
24.	Equity and Specific Relief	3
25.	Civil Procedure Code-II	3
26.	Criminal Procedure Code-II	3
27.	Law of Evidence-II	3
28.	Legal Drafting-II	3
29.	Administrative Law-I	3
30.	Legal Ethics	3
31.	Administrative Law-II	3
32.	Interpretation of Statutes	3
33.	Research Project	3
34.	Internship	4
	Total	**103**

Elective Courses

S. No.	Subject	Credit Hours
1.	Alternate Dispute Resolution	
2.	Banking Laws	
3.	International Refugee Law	
4.	E-Commerce Law (Cyber Laws)	
5.	Election Laws	
6.	Environmental Laws	
7.	Intellectual Property Laws	
8.	International Economic Law	
9.	International Humanitarian Law	
10.	Law of International Institutions	
11.	International Trade Law	
12.	Islamic Commercial Laws	
13.	Labor Laws	
14.	Land Laws	
15.	Local and Special Laws	
16.	Media Laws	
17.	Medical and Forensic Law	
18.	Minor Acts	
19.	Islamic Legal Maxims	
20.	Public Interest Litigation (Law of Writs)	
21.	Shipping Law	
22.	Taxation Laws	
23.	Comparative Constitutional Development in AJK, IHK and GB	
24.	Criminology	
25.	Disaster Management Laws	
26.	Law & Development	
	Total	**12**

Scheme of Studies for LLB 5-year Programme

RED	Compulsory Courses	12	34
GREEN	General and Foundation	09	27
BLUE	Discipline Specific Major Courses Including Research/Internship	38	115
	Total	**59**	**176**

Course Titel	Subject	Credit Hours
	FIRST	
LLB-5111	ENGLISH-I	3
LLB-5112	PAKISTAN STUDIES	2
LLB-5113	SOCIOLOGY	3
LLB-5114	INTRODUCTION TO ECONOMICS	3
LLB-5115	INTRODUCTION TO LAW	3
LLB-5116	SKILLS DEVELOPMENT-I	3
LLB-5117	JAMMU & KASHMIR STUDIES	3
		20
	SECOND	
LLB-5121	ENGLISH-II	3
LLB-5122	ISLAMIC STUDIES/ ETHICS	2
LLB-5123	POLITICAL SCIENCE	3
LLB-5124	LEGAL SYSTEM OF PAKISTAN	3
LLB-5125	LEGAL HISTORY OF PAKISTAN AND INDIA	3
LLB-5126	SKILLS DEVELOPMENT-II	3
LLB-5127	ARABIC	3
		20
	THIRD	
LLB-5211	ENGLISH-III	3
LLB-5212	LOGIC, REASONING AND CRITICAL THINKING	3
LLB-5213	ISLAMIC JURISPRUDENCE-I	3
LLB-5214	LAW OF TORTS	3

LLB-5215	LAW OF CONTRACT-I	3
LLB-5216	RESEARCH METHODS	3
		18
FOURTH		
LLB-5221	HUMAN RIGHTS LAW	3
LLB-5222	CONSTITUTIONAL LAW-I (COMPARATIVE)	3
LLB-5223	LAW OF CONTRACT-II	3
LLB-5224	ISLAMIC JURISPRUDENCE-II	3
LLB-5225	CONSTITUTIONAL HISTORY OF AJK	3
LLB-5226	FUNDAMENTALS OF MANAGEMENT	3
		18
FIFTH		
LLB-5311	JURISPRUDENCE-I	3
LLB-5312	CONSTITUTIONAL LAW-II (PAKISTAN)	3
LLB-5313	ISLAMIC PERSONAL LAW-I	3
LLB-5314	CRIMINAL LAW-I	3
LLB-5315	LAW OF PROPERTY-I	3
		15
SIXTH		
LLB-5321	JURISPRUDENCE-II	3
LLB-5322	CORPORATE LAW	3
LLB-5323	ISLAMIC PERSONAL LAW-II	3
LLB-5324	CRIMINAL LAW-II	3
LLB-5325	LAW OF PROPERTY-II	3
		15
SEVENTH		
LLB-5411	PUBLIC INTERNATIONAL LAW-I	3
LLB-5412	CONSTITUTIONAL HISTORY OF PAKISTAN	3
LLB-5413	CIVIL PROCEDURE-I	3
LLB-5414	CRIMINAL PROCEDURE-I	3

LLB-5415	LAW OF EVIDENCE-I	3
LLB-5416	LEGAL DRAFTING-I	3
		18
EIGHTH		
LLB-5421	PUBLIC INTERNATIONAL LAW-II	3
LLB-5422	EQUITY AND SPECIFIC RELIEF	3
LLB-5423	CIVIL PROCEDURE-II	3
LLB-5424	CRIMINAL PROCEDURE-II	3
LLB-5425	LAW OF EVIDENCE-II	3
LLB-5426	LEGAL DRAFTING-II	3
		18
	8 WEEK INTERNSHIP AFTER COMPLETION OF 8TH SEMESTER DURING VACATIONS	**4**
NINTH		
LLB-5511	ADMINISTRATIVE LAW-I	3
LLB-5512	LEGAL ETHICS	3
LLB-5513	ELECTIVE-I*	3
LLB-5514	ELECTIVE-II*	3
LLB-5515	MOOT CASES AND ROLE PLAYING	3
		15
TENTH		
LLB-5521	ADMINISTRATIVE LAW-II	3
LLB-5522	INTERPRETATION OF STATUTES	3
LLB-5523	RESEARCH PROJECT	3
LLB-5524	ELECTIVE-III*	3
LLB-5525	ELECTIVE-IV *	3
		15

Total Credit Hours = 172 + 4 = 176

*Elective Courses

(Any four out of the following)

S. No.	Subject Offered
1.	Alternate Dispute Resolution
2.	Banking Laws
3.	International Refugee law
4.	E-Commerce Law (Cyber Laws)
5.	Election Laws
6.	Environmental Laws
7.	Intellectual Property Laws
8.	International Economic Law
9.	International Humanitarian Law
10.	Law of International Institutions
11.	International Trade Law
12.	Labor Laws
13.	Land Laws
14.	Local and Special Laws
15.	Media Laws
16.	Medical and Forensic Law
17.	Minor Acts
18.	Islamic Legal Maxims
19.	Public Interest Litigation (Law of Writs)
20.	Shipping Law
21.	Taxation Laws
22.	Comparative Constitutional Development in AJK, IHK and GB
23.	Criminology
24.	Disaster Management Laws
25.	Law & Development

- 08 week internship after the completion of 8th semester for every student shall be compulsory with law firms, law offices, courts, private and public companies, government offices (legal branch), NGO's, police stations, legal branch of armed forces, stock exchanges, SECP, banks, financial institutions, ports, media, political parties, national research institutes, industries, and with other entities to be recognized by University/ institution on the suggestion of students or faculty. Attachment/ internship period spent by each student with any entity mentioned hereinbefore shall be assessed on the basis of his/her report, self-assessment, faculty assessment and assessment provided by organizations (Format of Report on internship is annexed herewith as Annexure-F).
- All the Students after the successful completion of 9th semester must take a research project and write a long dissertation on assigned topics as per policy of the University in other BS or Equivalent degree programs, however, the similarity index measured through Turnitin or other endorsed software up-to 30% will be allowed.
- In the last two semesters (IX and X) students can opt for four courses (two courses in each semester) of their choice from the elective courses offered by the university/institution.
- Internship report shall be evaluated by an oral examination on completion of the course work (10 semesters) through a panel of examiners and the candidates have to satisfy the panel to attain the degree. This report shall be evaluated through the procedure provided in rules.
- The candidates also have to clear the grand viva (comprehensive oral examination) on satisfactory/unsatisfactory basis before the panel of examiners upon completion of the course work (10 semesters) to avail the degree. This grand viva shall be processed through the procedure provided in rules.

Extra-curricular activities:

Seminar on "Importance of Vote"

The department of law organized a daylong Seminar for the students and faculty/staff of the University aiming at disseminating and highlighting the significance of the "Right to Vote and Responsibilities of the Voters" on April 07, 2016. it further emphasized on strengthening the democratic values and choosing the suitable representatives for running the affairs of the State. The honorable Chief Justice High Court/ Chief Election Commissioner AJK Mr. Justice Ghulam Mustafa Mughal was the chief guest of the seminar. Other speakers were Mr. Justice Ch. Muhammad Ibrahim Zia (Justice Supreme Court of AJK), Mr. Syed Manzoor ul Hassain Gilani (Former Chief Justice, AJK), Mr. Raja Muhammad Hanif, (Senior Advocate Supreme Court, AJK) and Mr. Jawad Faizi (Anchor person PTV). They highlighted the significance of the right and duty to vote, its historical, legal, Islamic and contemporary perspectives and the role of electoral process ensuring the wellbeing of the people. Mr. Justice Masood A. Sheikh (Justice Supreme Court of AJK), respected faculty and other officers of the university also participated. Vote of thanks was paid by Professor Dr. Khawaja Farooq Ahmed, the Vice Chancellor of the University of AJK, Muzaffarabad and the stage was conducted by Syed Mudasser Fida Gardazi, Chairman Department of Law.

The UAJK is a blessing for us. It is renowned for its highly effective and dignified teaching style. Our University has encouraging environment for studies and highly prestigious faculty. I really appreciate the cooperative staff of the department that solves the students' problems efficiently. I am very lucky to be a part of this University.

Zill-E-Shahana Asghar,
3rd Semester,
3 Years LLB,
Session 2015-18

Studying at UAJK is no doubt the most wonderful experience of my life. Department of Law is a place where vision is prepare among students having a strong sense of professional and ethical responsibilities. I found faculty members experienced, highly qualified and cooperative. I hope in the future my University will be among the best universities of the world.

Raja Khurram Azim,
LLB-3 years,
3rd Semester,
Session 2015-18

It is a moment of enormous pleasure for me to pen on the behalf of UAJK Muzaffarabad being a student of B.A LLB. Studying at UAJK since last four years is a treasured experience for me, regarding the learning and innovation not only tangible learning but the ultimate ethics and code of life. It has mended and polished my social and cultural values. I am proud of my University.

Jaam Sadiq,
B.A LLB, 7th Semester,
Session 2013-18

Department of Psychology

Introduction

Department of Psychology was established in 2014 with main objective to impart theoretical as well as practical knowledge of Psychology and look into factors which impede national integration. Department feels privilege in providing a prospect to become skilled in diverse discipline of Psychology.

Vision

The department of Psychology aims to impart theoretical as well as practical knowledge of psychology to respective students.

Program Objectives

1. To provide each student with basic knowledge of psychology, in order to become more effective and proficient in their careers.
2. To develop good analytical skills, train to think critically and enable to synthesize and evaluate information well.
3. To prepare students for a variety of occupations and professional practice.
4. To prepare students for providing better Psychological and social service to general public.
5. To reduce Psychological disorder form society.

Teaching & Assessment

Teaching is based on interactive class participation, group discussion, class presentations by students, assignment etc. to keep interest and make learning more effective. Use of audio visual aids brings out the creativity of teachers and students.

Assessment is based on class performance of students, their attendance, assignments and particularly semester examination results.

CHAIRPERSON
Dr. Samina Sabir
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Fax. No +925882-960457
E-mail: samina.sabir78@gmail.com

FACULTY

Nayyab Kurshid, M.Phil. (Pak)

VISITING FACULTY:

Misbah Shafique Abbasi, M.Phil. (Pak)
Summara Manzoor, M.S (PAK), PMDC (Pak)
Iram Munsif, M.Phil Scholar (Pak)
Ayesha Rashid, M.Phil Scholar (Pak)
Syeda Durr -e- Shahwar Naqvi, M.Sc (Pak)
Mubashar Hussain, M.Phil Scholar (Pak)

Careers for Psychology/Job opportunity

Students can pursue career in any of following fields:

- Academia
- Research
- Clinical setup
- Counseling
- Organizational setups
- Social sector
- Armed force
- Law enforcement

BS Psychology

The Department of Psychology offers 4 years BS Program in Psychology. The Program includes compulsory courses, optional courses and workshop courses. A thesis/Research project of 6 credit, practical training (internship) and comprehensive written are oral or oral examination is also compulsory.

BS psychology (4 year)

Scheme of Studies for BS Psychology

Eligibility Criteria

The eligibility criterion for admission in BS psychology is F.A/F.Sc with at least 2nd division.

Duration:	8 semesters
Credit hours:	133
Research project:	6 credit hour

1st Semester

Course Code	Name of Subject	Credit Hrs
Eng-3101	English-I	03
ISD-3102	Islamic Studies	02
SOC-3103	Sociology-I	02
KST-3104	Kashmir Studies	03
STAT-3105	Statistics-I	03
PSY-3106	Introduction to Psychology	03+1
	Total	**17**

2nd Semester

Course Code	Name of Subject	Credit Hrs
ENG-3201	English-II	03
PSD-3202	Pakistan Studies	02
LAW-3203	Introduction to Law	03
BIO-3204	Biology-I	03
ECO-3205	Economics-I	03
PSY-3206	History and Schools of Psychology	03
	Total	**17**

3rd Semester

Course Code	Name of Subject	Credit Hrs
ENG-4301	English-III	03
COM-4302	Introduction to Compute	02
SAT-4303	Statistics-II	03
ARB-4304	Arabic	03
PSY-4305	Experimental Psychology	03+01
PSY-4306	Personality Theories-I	03
	Total	**18**

4th Semester

Course Code	Name of Subject	Credit Hrs
ENG-4401	English-IV (Communication Skills)	03
ECO-4402	Economics-II	03
DMT-4403	Disaster Management	03
PSY-4404	Neurological Basis of Behavior	03
PSY-4405	Personality Theories-II	03
	Total	**15**

5th Semester

Course Code	Name of Subject	Credit Hrs
RSM-5501	Research Methods-I	03
PSY-5502	Introduction to Social Psychology	03
PSY-5503	Psychological Testing-I	03
PSY-5504	Mental Health and Psycho-Pathology-I	03
PSY-5505	Organizational Behavior	03
	Total	**15**

6th Semester

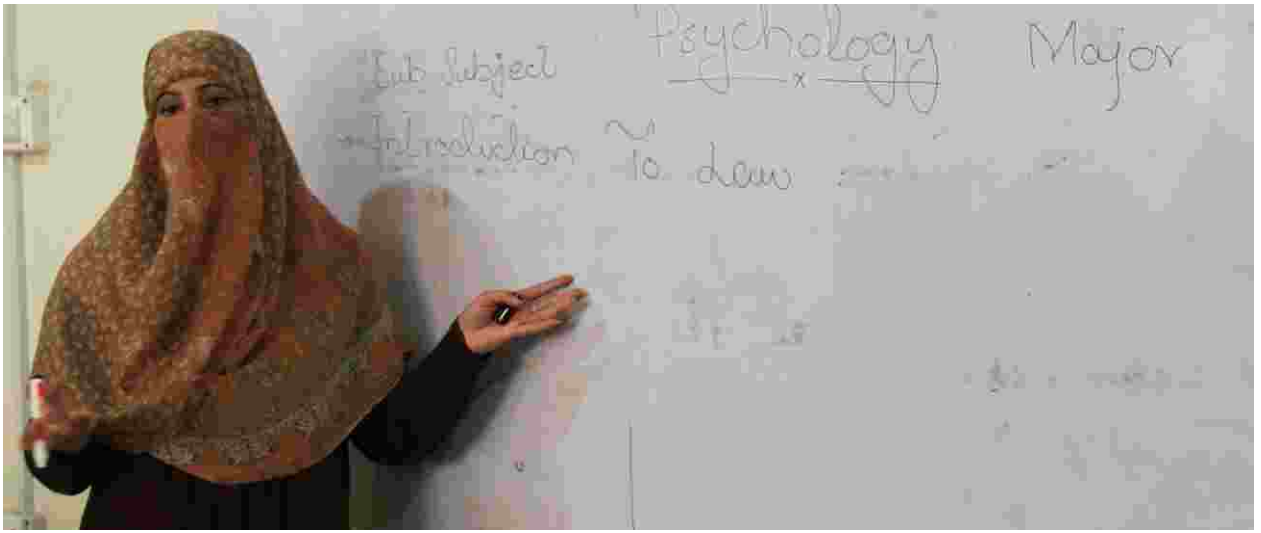
Course Code	Name of Subject	Credit Hrs
RSM-5601	Research Methods-III	03
PSY-5602	Mental Health and Psycho-Pathology-II	03
PSY-5603	Developmental Psychology	03
PSY-5604	Psychological Testing-II	03
PSY-5605	Counseling Psychology	03
PSY-5606	Advance Social Psychology	03
	Total	**18**

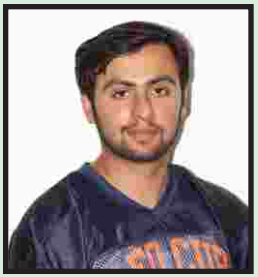
7th Semester

Course Code	Name of Subject	Credit Hrs
PSY-6701	Positive Psychology	03
PSY-6702	Educational Psychology	03
PSY-6703	Environmental Psychology	03
PSY-6704	Therapeutic Intervention	03
PSY-6705	Internship	03
	Total	**15**

8th Semester

Course Code	Name of Subject	Credit Hrs
PSY-6801	Cross Cultural Psychology	03
PSY-6802	Cognitive Psychology	03
PSY-6803	Forensic Psychology	03
PSY-6804	Gender Psychology	03
PSY-6805	Research Project	06
	Total	**18**





My academic and career goals are socially enumerated, I being a person wanted to alleviate the sufferings of the most vulnerable by mobilizing the power of humanity. My personal will and experience of working for society motivated me to study humans' behaviors, recognize their true potentials and bring reforms in their personal, social and community spheres. I am pursuing Master's degree in Applied Psychology in University of Azad Jammu & Kashmir because it provides me one of the best academic, social and cultural experience due to its modernity, diversity and plurality respectively. The main theme behind opting this academic institution & subject was to understand and highlight the basic human needs along with its long term association with the community. I am always challenged to think independently, try out new activities and make the most of time while at the campus.

Mohsin Bin Iqbal
(MSc Psychology)

I believe in sharing, as it increases the experience and molds learning. As Charles Darwin had said, "It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change." So, when living your last days, you should never say “I could have”, “I should have”, or “I would have”. At the end of the day you should always say “I did”. The department has molded our personalities with the beauty of education and knowing. This has personally helped us being the better individuals for the serving of humanity.

Summaia Hassan
(MSc Psychology)

BS program fascinate me with new peaks of achievements, the unique way to perceive the world and with of perks of juvenility. I recognize that it's the opportunity which build up person's notion to achieve what one wants to be! The University of Azad Jammu & Kashmir provided me with better opportunities to polish my personality.
I pray for the prosperity and excellence of the Department of Psychology, and also the institution.

Syeda Noor Fatima
(BS Psychology)

Department of Sociology & Rural Development

Introduction

Sociology is the scientific study of society. It covers all aspects of society like human behavior, social institutions, social action, social change and social problems. Sociologists investigate structure of groups, organizations and societies and the way people interact within these contexts. Since human behavior is shaped by social factors, subject matter of sociology ranges from intimate family to a hostile mob, from the division of society on the basis of race, gender and social class to shared beliefs of a common culture and from sociology of social work to that of sports. In fact, few fields have such relevance and scope for research, theory and application of knowledge.

Sociology provides many distinctive perspectives on the world, generating new ideas and criticizing old ones. It also offers a number of research techniques that can be applied virtually to all aspects of social life like emotions, family, education, street crimes, delinquency, war and peace, etc.

Sociology is gaining more and more importance with the passage of time because society is becoming more complex and new social problems are emerging. Trained sociologists are the need of the hour for maintaining the smooth functioning of social systems, social life and society.

Program Mission

The Department of Sociology and Rural Development seeks to equip the students with sociological knowledge to think critically about social world and prepare them for advanced education and research.

CHAIRMAN
Dr. Ghulam Yahya Khan
Ph.D. (UK)
Ph. No. Office: 05822-960473

FACULTY

Mrs. Nazneen Habib,
PhD Scholar (Pak) (On Study leave)
Mrs. Sheeba Arooj, M.Phil. Sociology (Pak)
Mr. Kamran Tanveer, M.Phil. Sociology (Pak

VISITING FACULTY

Mr. Saqib Hameed, M.Phil. Sociology (Pak)
Mrs.Amama Aashiq, M.Phil. Sociology (Pak)
Mr. Farooq Abdullah, M.Phil. Sociology (Pak)
Mr. Ahmed Bashir, M.Phil. Sociology (Pak)
Ms. Nazish Javid, M.Phil. Scholar (Pak)
Mr. Ahsan Tahir, M.Phil. Scholar (Pak)
Ms. Urooj Azmat, M.Phil. Scholar (Pak)
Ms. Ayesha Habib, M.Phil. Scholar (Pak)
Mr. Waheed Qureshi, M.Phil. Scholar (Pak)
Mr. Prince Adnan, M.Sc. (Pak)
Mr. Ijaz ul Haq, M.Sc. (Pak)

Program Objectives

1. To provide students a broad and solid foundation to explain key sociological concepts.
2. To equip students with the knowledge about social phenomena and social world to achieve academic superiority and develop their critical and analytical skills.
3. To enable the students to conduct social research to highlight the social issues regarding how this social world works.
4. To enable the graduates to share knowledge and information with various segments of society and find career paths in a wide numbers of possible fields.

Scope/Job Opportunities

Sociology is not merely an intellectual discipline; it is also a vast profession. Students who study sociology can join both government and private sectors in a variety of occupations like administration, education, social welfare, public health, law, journalism, etc. Sociologists can play a rich and diversified role in modern society. They can serve in a number of capacities such as teacher, researcher, administrator, policy maker, planner, consultant, social worker, programme evaluator, coordinator, clinical counselor, personal manager, etc. They can work in areas as broad and diverse as the discipline they have chosen.

M.Sc. (Sociology) Eligibility Criteria

- General rules of HEC are followed to determine the eligibility of the Candidate.
- The candidates must have BA/BSc from any recognized University with at least 2nd Division (45% aggregate in annual system or CGPA 2.50 in semester system).
- Overall merit comprise of academic record.

Scheme of Studies M.Sc. Sociology

Curriculum

Course Work:	63 Credit Hours
Project/Thesis:	06 Credit Hours
Total:	69 Credit Hours

The courses for M.Sc. Sociology are selected from the list of, major and elective courses.

Semester Wise Course Breakdown

1st Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-5101	Principle of Sociology	3	0	3
SOC-5102	Social Thought and Classical Theories	3	0	3
SOC-5103	Social Psychology Social	3	0	3
SOC-5104	Anthropology Social	3	0	3
SOC-5105	Statistics-I Introduction	3	0	3
SOC-5106	to Computer	2	3	3
				18

2ndSemester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-5201	Contemporary Sociological Theories	3	0	3
SOC-5202	Sociology of Religions	3	0	3
SOC-5203	Social Research Methods	3	0	3
SOC-5204	Sociology of Development	3	0	3
SOC-5205	Social Statistics-II	3	0	3
SOC-5206	Criminology	3	0	3
				18

3rdSemester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-6101	Medical Sociology	3	0	3
SOC-6102	Sociology of Gender Issues	3	0	3
SOC-6103	Rural Sociology	3	0	3
SOC-6104	Project Planning (Field Work)	3	0	3
—	Elective Course	--	0	3
—	Elective Course	--	0	3
				18

4th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-6201	Community Development	3	0	3
SOC-6202	Social Demography	3	0	3
----------	Elective Course	3	0	3
SOC-6207	Project and theses	--	--	6
SOC-6208	Internship/Practical Training	--	--	S/U Basis
SOC-6209	Oral Comprehensive Exam.	--	--	S/U Basis
				15

BS (Sociology)

Eligibility Criteria

- General rules of HEC are followed to determine the eligibility of the candidate.
- The candidates must have intermediate or equivalent certificate with minimum 2nd Division (45%)
- Overall merit comprise of academic record.

BS Curriculum

Course Work: 130 Credit Hours
Project/Thesis: 06 Credit Hours
Total: 136 Credit Hours
The following is distribution of total credit hours.

1st Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
ENG-3101	English-I (Compulsory-I)	3	0	3
ISD-3102	Islamic Studies (Compulsory-II)	2	0	2
EDU-3103	Education (General-I)	3	0	3
KSD-3104	Kashmir Studies (General-II)	3	0	3
SOC-3105	Introduction To Sociology (Foundation-I)	3	0	3
STA-3106	Statistics-I (Compulsory-III)	3	0	3
				17

2nd Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
ENG-3201	English-II (Compulsory-IV)	3	0	3
PSD-3202	Pakistan Studies (Compulsory-V)	2	0	2
ARB-3203	Arabic For Understanding Quran (General-III)	3	0	3
LAW-3204	Introduction to Law (General-IV)	3	0	3
SOC-3205	Social Anthropology (Foundation-II)	3	0	3
STA-3206	Statistics-II (Compulsory-VI)	3	0	3
				17

3rd Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
ENG-4101	English-III (Compulsory-VII)	3	0	3
COM-4102	Introduction To Computer (Compulsory-VIII)	3	0	3
—	General-V	2	3	3
—	General-VI	3	0	3
SOC-4105	Development of Social Thought (Foundation- III)	3	0	3
SOC-4106	Social Psychology (Foundation-IV)	3	0	3
				18

4th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
ARB-4201	Arabic (Compulsory-IX)	3	0	3
—	General-VII	3	0	3
—	General-VIII	3	0	3
SOC-4204	Classical Sociological Theories (Foundation-V)	3	0	3
SOC-4205	Pakistani Society & Culture (Foundation- VI)	3	0	3
SOC-4206	Sociology of Gender Issues (Foundation- VII)	3	0	3
				18

5th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-5101	Contemporary Sociological Theories (Foundations-VIII)	3	0	3
SOC-5102	Sociology of Aging (Foundation-IX) Sociology	3	0	3
SOC-5103	Of Development (Major-I) Project Planning &	4	0	4
SOC-5104	Management (Major- II)	3	3	4
SOC-5105	Community Development (Major-III)	3	0	3
				17

6th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-5201	Social Research Methodology	3	3	4
SOC-5202	(Foundation-X)	3	0	3
SOC-5203	Rural Sociology (Major-IV) Urban	3	0	3
SOC-5204	Sociology (Major-V) Medical	3	0	3
—	Sociology (Major-VI) Elective-I	3	0	3
				16

7th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-6101	Population Studies (Major-VII)	3	3	4
SOC-6102	Advance Research Methodology (Major- VIII)	4	0	4
SOC-6103	Social Change & Development (Major- IX)	4	0	4
—	Elective-II	3	0	3
—	Elective-III	3	0	3
				18

8th Semester

Course Code	Course title	Lec. Hrs	Lab. Hrs	Credit Hrs
SOC-6201	Sociology of Religion (Major-X)	3	0	3
SOC-6202	Sociology of Education (Major-XI)	3	0	3
—	Elective-IV	3	0	3
SOC-6207	Research Project and Theses (Major-XII)	–	–	6
SOC-6208	Internship	–	–	S/U Basis
SOC-6209	Oral Comprehensive Exam	--	--	S/U Basis
				15

List of Major and Elective courses

Major courses including research project/internship (43 Credit Hours)			
Course Code	**Course title**	**Credit Hrs**	**Proposed Semester**
SOC-5103	Sociology of Development	4(3-0)	5
SOC-5104	Project Planning & Management	4(3-3)	5
SOC-5105	Community Development	3(3-0)	5
SOC-5202	Rural Sociology	3(3-0)	6
SOC-5203	Urban Sociology	3(3-0)	6
SOC-5204	Comparative Social Institutions	3(3-0)	6
SOC-6101	Population Studies	4(3-3)	7
SOC-6102	Medical Sociology	4(3-0)	7
SOC-6103	Social Change & Development	3(3-0)	7
SOC-6201	Sociology of Religion	3(3-0)	8
SOC-6202	Sociology of Education	3(3-0)	8
SOC-6207	Research Project & Thesis	6(3-0)	8
SOC-6208	Internship	S/U	8
SOC-6209	Oral Comprehension	S/U	8
General Courses to be Chosen from other departments (24 Credit Hours)			
EDU-3103	Education	3(3-0)	1
KSD-3104	Kashmir Studies	3(3-0)	1
GIS-3107	Geographical Information System	3(3-0)	1
AUQ-3203	Arabic for Understanding Quran	3(3-0)	2
LAW-3204	Introduction to Law	3(3-0)	2
ENV-3207	Introduction to Environment	3(3-0)	2
ESC-4103	Everyday Science	3(3-0)	3
PSY-4104	Psychology	3(3-0)	3
BAD-4107	Introduction to management	3(3-0)	3
ECO-4202	Introduction to Economics	3(3-0)	4
IR-4203	International Relations	3(3-0)	4
MPH-4207	Public Health	3(3-0)	4

Elective Courses within the major (24 Credit Hours)			
Course Code	**Course title**	**Credit Hrs**	**Proposed Semester**
SOC-5205	Industrial Sociology	3(3-0)	6
SOC-5206	Peace and Conflict Resolution	3(3-0)	6
SOC-5207	Sociology of Social Work	3(3-0)	6
SOC-6104	Human Resource Development	3(3-0)	7
SOC-6105	Sociology of Human Rights	3(3-0)	7
SOC-6106	Governance and Social Policy	3(3-0)	7
SOC-6107	Corporate Social Responsibilities	3(3-0)	7
SOC-6108	Electronic Media & Virtual Society	3(3-0)	7
SOC-6203	Criminology	3(3-0)	8
SOC-6204	Sociology of Family	3(3-0)	8
SOC-6205	Social Informatics	3(3-0)	8
SOC-6206	NGO Management	3(3-0)	8

I feel honored to be a part of AJK University. It offers the students to become educated and skillful members of the society. My learning skills got improved over here. My capacities to learn and get educated groomed over here. I found means to explore my hidden skills in this praiseworthy institute.

Adnan,
MSc Sociology,
2nd Semester,

After getting enrolled in the department of Sociology and Rural Development, University of Azad Jammu and Kashmir, I got a chance to groom my educational and social skills. I learned to be a diligent and dedicated student under the administration of such a talented faculty.
I appreciate the hard work and efforts of the department, administration, faculty and students.

Laila Khadim,
BS Sociology,
7th Semester,

My journey to materialize my dreams is proceeding under the guidance of highly qualified and learned faculty at Department of Sociology & Rural Development UAJK. The University is providing exceptional quality education for a brilliant future. The day is not so far, when the University and Department of Sociology & Rural Development will lead the universities not only in Pakistan but also at international level.

Komal Abbas Qadri,
BS Sociology,
7th Semester,

شعبہ اُردو

سربراہ:

ڈاکٹر عبدالکریم:

پی ایچ ڈی، اردو (پاکستان)

تدریسی عملہ:

میر یوسف میر: پی ایچ ڈی (اُردو)، ریسرچ اسکالر

عاصمہ کبیر: پی ایچ ڈی (اُردو)، ریسرچ اسکالر

جز وقتی:

صداقت حسین شاہ: ایم فل (اُردو)

فرہاد احمد فگار: ایم فل (ریسرچ اسکالر)

تعارف:

اُردو پاکستان کی قومی اور آزاد کشمیر کی قومی کے علاوہ دفتری زبان بھی ہے۔ اسے حکومت آزاد کشمیر نے ۱۴ اپریل ۱۹۶۷ء کو ایک حکم نامے کے تحت نافذ کیا۔ ہماری مختصر تاریخ میں اس پر اتار چڑھاؤ آتے رہے لیکن بہر حال اردو اس ریاست کے دونوں حصوں میں رابطے کی زبان بھی ہے۔ اس کی تدریس ایف اے/ ایف ایس سی/ آئی کام/ آئی سی ایس کی سطح تک لازمی مضمون کے طور پر ہے۔ جب کہ بی اے کی سطح پر اسے اختیاری مضمون کے طور پر پڑھایا جاتا ہے۔ آزاد کشمیر یونی ورسٹی میں شعبہ اردو کا قیام ۲۹ دسمبر ۲۰۱۴ء کو عمل میں لایا گیا اور تدریس ۲۳ فروری ۲۰۱۵ء کو شروع ہوئی۔ شعبہ کا پہلی ہی بار ۴۲ طلبہ نے انتخاب کیا جن میں ۳۳ طالبات اور ۹ طلبہ شامل تھے۔ اس شعبہ کو ایک اچھی فیکلٹی میسر آئی۔ جس میں سب اساتذہ ایم فل یا پی ایچ ڈی ہیں۔ کلاسوں کا اجرا ابتدائی طور پر کشمیر اسٹڈیز چہلہ کیمپس کی عمارت میں کیا گیا ہے اور کلاسوں کے اوقات صبح کے ہیں۔ شعبہ اردو سے ایک کلاس فارغ التحصیل ہو چکی ہے اور ان شاء اللہ شعبہ اردو کی نیک نامی کا باعث بنے گی۔

مقاصد:

۱) طلبہ وطالبات کو اردو زبان وادب کی معیاری تدریس کروانا۔

۲) طلبہ وطالبات کو سیمیناروں، ادبی نشستوں، تحقیقی مقالوں، مضامین اور نامور ادبا وشعرا کی تخلیقات سے تعارف کے ذریعے اردو زبان وادب کی تاریخ سے متعارف کروانا اور ان کو موجودہ دور کے لسانی وادبی مسائل کا ادراک بہم پہنچانا۔

۳) جدید رسمیات تحقیق کے لیے طلبہ وطالبات کا رابطہ اردو دنیا سے کروانا اور اردو میں ہونے والی جدید تحقیق سے ان کو متعارف کروانا۔

۴) طلبہ وطالبات کو جدید دور کے تقاضوں سے اردو ادب کے ذریعے ہم آہنگ کرنا نیز فرقہ وارانہ فضا میں اردو زبان اور اس کے روادار ماحول کو پروان چڑھانے کی کوشش کرنا۔

۵) مستقبل میں شعبہ اردو کو ایم فل اور پی ایچ ڈی کی سطح تک لے جانے کی کاوش کرنا۔

۶) طلبہ کو ہر سطح کے تعلیمی مقابلے کے لیے تیار کرنا۔

روزگار کے مواقع:

انگریزی کے چلن نے اردو زبان سے نئی نسل کو دور کر دیا ہے۔ وہ روزگار کی زبان اب انگریزی کو سمجھتے ہیں۔ سرکاری اور نجی دونوں شعبہ ہا میں اردو وقت کی ضرورت اور پکار ہے۔ اب بھی مقابلے کے امتحانات سے لے کر اخبارات اور اشتہارات کی صنعت تک اردو کا چلن ہے۔ کسی بھی مقابلے کے امتحان میں اردو کے مضمون میں مقابلے کا تناسب کم ہے اور اس کی وجہ اردو گریجویٹ اور پوسٹ گریجویٹ کا کم ہونا ہے اور جو ہیں ان میں بھی معیار کے مسائل ہیں۔ آج بھی اردو میں روزگار کی بڑی مارکیٹ موجود ہے۔ یہ مارکیٹ اردو اساتذہ سے لے کر کالم نگاروں اور پروفیسروں سے لے کر مقابلے کے امتحان کے ذریعے اعلیٰ حکومتی عہدوں تک پھیلی ہوئی ہے۔ ضرورت صرف اس امر کی ہے کہ طلبہ وطالبات کو انگریزی، کمپیوٹر اور سائنس کے سحر سے نکال کر حقیقت کی دنیا میں لایا جائے۔ معاشرے کو سماجی سائنس دانوں کی بھی اتنی ہی ضرورت ہے جتنی سائنس کے باقی شعبوں کے سائنس دانوں کی، بلکہ لسانیات اور ادب سے متعلق پیشہ ورانہ ماہرین کی ضرورت سب سے زیادہ ہے کہ زبان ہی کلیدی کردار ادا کرتی ہے۔ طلبہ وطالبات میں اس سوچ کو بدلنے کی کوشش جاری رہے گی۔

پروگرام:

آزاد کشمیر یونی ورسٹی نے ابتدائی طور پر صرف ایم اے (اردو) کی کلاسوں کا اجرا کیا ہے۔ جس کا دورانیہ دو سال چار سے چھ سمسٹر ہوگا۔

تعلیمی استعداد:

ایم اے اردو میں داخلے کے لیے طلبہ وطالبات کا بی اے، بی ایس سی، بی کام، بی بی اے، بی سی ایس درجہ دوم میں پاس ہونا ضروری شرط ہے۔

نصاب:

ایم اے (اردو): (ہائر ایجوکیشن کمیشن کے مجوزہ نصاب کے مطابق)

سمسٹر:	۴
کل کریڈٹ آورز:	۶۰
کل کورسز:	۲۰
لازمی کورسز:	۱۶
اختیاری کورسز:	۴

میقات اول:

نمبر شمار	کورس کوڈ	عنوان	کریڈٹ آورز
۱	URD-5101	کلاسیکی شاعری۔ا	۳
۲	URD-5102	افسانوی نثر۔ا	۳
۳	URD-5103	میر کا خصوصی مطالعہ	۳
۴	URD-5104	تاریخ اردو ادب۔ا	۳
۵	URD-5105	اسالیب نثر۔ا	۳

میقات دوم:

نمبر شمار	کورس کوڈ	عنوان	کریڈٹ آورز
۱	URD-5201	کلاسیکی شاعری۔۲	۳
۲	URD-5202	افسانوی نثر۔۲	۳
۳	URD-5203	غالب کا خصوصی مطالعہ	۳
۴	URD-5204	تاریخ اردو ادب۔۲	۳
۵	URD-5205	اسالیب نثر۔۲	۳

میقات سوم:

نمبر شمار	کورس کوڈ	عنوان	کریڈٹ آورز
۱	URD-6301	اردو ادب بیسویں صدی میں۔۱	۳
۲	URD-6302	تنقید۔۱	۳
۳	URD-6303	اقبال بحیثیت شاعر	۳
۴	URD-6304	اصول تحقیق یا	۳
۵	URD-6305	اصول تدوین یا	۳
		لسانیات۔۱ یا	
		عالمی کلاسک۔۱ یا	
		قواعد۔۱ یا	
		حالی کی شاعری کا خصوصی مطالعہ یا	
		ادب اور سماجی علوم یا	
		اردو ادب کے معروف اور اہم کردار	

میقات چہارم:

نمبر شمار	کورس کوڈ	عنوان	کریڈٹ آورز
۱	URD-6401	اردو ادب بیسویں صدی میں۔II	۳
۲	URD-6402	تنقید۔II	۳
۳	URD-6403	اقبالیات۔II	۳
۴	URD-6404	اکبر کی شاعری کا خصوصی مطالعہ یا	۳
۵	URD-6405	لسانیات۔II یا	۳
		عالمی کلاسیک۔II یا	
		قواعد۔II یا	
		تحقیقی مقالہ یا	
		کشمیر میں اردو شاعری یا	
		کشمیر میں اردو نثر	

نوٹ: تحقیقی مقالہ ایک اختیاری کورس کے برابر ہوگا اور چوتھے سمسٹر میں اختیار کیا جا سکے گا۔اس کے لیے طلبہ کو تیسرے سمسٹر میں 'اصول تحقیق' اور 'اصولِ تدوین' کے مضامین اختیار کرنا ہوں گے۔

افضال عالم

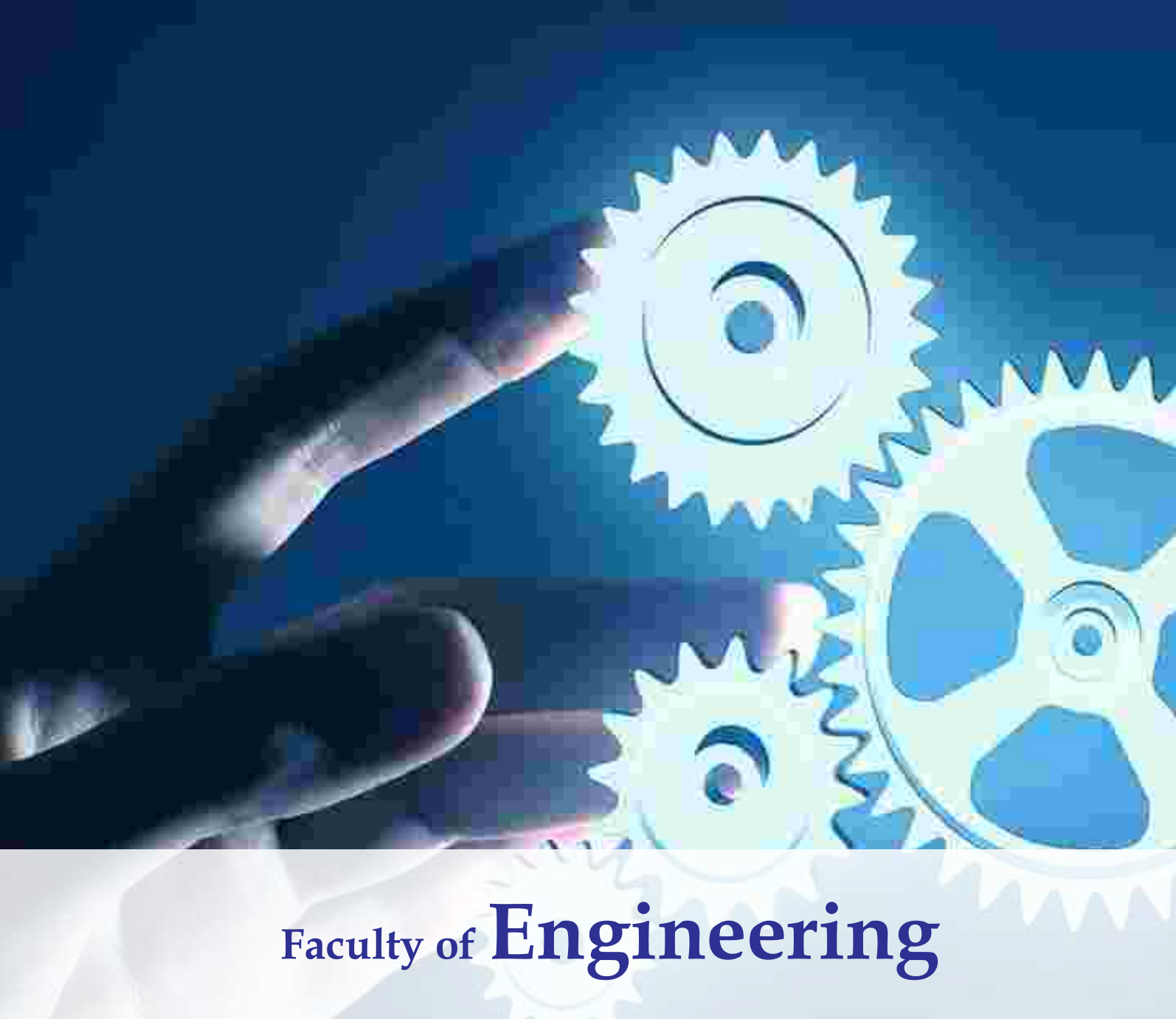
ایم اے اردو (میقات سوم)

اگر یہ کہا جائے کہ مملکت خداداد پاکستان کا قیام اسلام اوراردو زبان کی بنیاد پر عمل میں آیا ہے تو بے جا نہ ہوگا۔اُردو زبان جو پاکستان اورآزاد کشمیر کی قومی زبان ہے، دنیا بھر میں ہماری پہچان ہے۔ملک کے اندر موجود افراتفری، علاقائی اور گروہی تعصّبات میں کمی اردو زبان کے ذریعے ہی ممکن ہے۔مگر بدقسمتی سے ہم نے اپنی ترجیحات کو بدل دیا ہوا ہے۔ایسے میں آزاد جموں وکشمیر یونیورسٹی شعبہ اُردو کا طالب علم ہونا میرے لیے کسی اعزاز سے کم نہیں۔اگرچہ یہ شعبہ ابھی کمسنی کے دور سے گزر رہا ہے مگر قابل اساتذہ کرام کی موجودگی اس کو بہت جلد ایک فعال شعبہ بنا دے گی۔اساتذہ کرام کے پرخلوص جذبہ نے طلبہ کے اندر تحقیق وتدقیق کی نئی جوت جگائی ہے۔مجھے فخر ہے کہ میں اس شعبہ کا حصہ ہوں جس کی بنیادوں میں قوم کی فکری تربیت کرنے والے احباب کا حصہ ہے۔یہ بھی حقیقت ہے کہ قوم کی فکری تربیت سے ہی انقلاباتِ زمانہ ظہور پذیر ہوتے ہیں۔امید ہے کہ جامعہ کے ارباب اختیار کے تعاون اور توجہ سے یہ شعبہ جامعہ کا سب سے موثر شعبہ بنے گا (ان شاءاللہ)۔

ماہ رخ جواد

ایم اے اردو (میقات دوم)

آزاد جموں وکشمیر یونیورسٹی میں شعبہ اُردو کا قیام میرے لیے ایک خوش گوار تبدیلی لایا کہ مجھے اپنی زبان کو سیکھنے اور اس کے ادب پر عبور رکھنے کا بہت شوق ہے۔اردو بے چاری نہیں رہی اور بہت جلد یہ بھی انگریزی کی طرح روزگار اور مقابلے کی زبان ہوگی اور اردو پڑھنا شرم کی بات نہیں ہوگی۔میں امید رکھتی ہوں کہ شعبہ اردو اس ذہنی غلامی کے خلاف تحریک جاری رکھے گا۔ہم سب اس شعبہ کے سپاہی ہیں اور اس پر ہمیں فخر ہے۔اردو زبان کے نفاذ کی تحریک میں شعبہ اردو اور ہم اپنی سی کوششیں جاری رکھیں گے۔



Faculty of Engineering

Department of Electrical Engineering

Introduction

The University of Azad Jammu and Kashmir (UAJK) Muzaffarabad has established the Department of Electrical Engineering on semester system basis in accordance with the regulations and guidelines of Higher Education Commission (HEC) and Pakistan Engineering Council (PEC).

Vision

The Department of Electrical Engineering of the University of Azad Jammu and Kashmir, Muzaffarabad is committed to innovation and excellence in teaching, research and service to the masses at large, in general, and the people of the State of Azad Jammu and Kashmir and Pakistan, in particular. The vision is achieved by recruiting high caliber faculty and students, and continuous improvement in the curriculum and teaching methods, in line with national and international standards. The department provides the atmosphere conducive to intellectual and scholarly pursuits of faculty and students.

Mission

The mission of the Department of Electrical Engineering is completely aligned with that of the University, through teaching, research and motivation to the service of mankind. The Department is committed to provide the best possible undergraduate electrical engineering education to the students and upholds the promise to equip the students with a strong theoretical foundation, practical engineering skills, experience in interpersonal communication and teamwork. Ethics, professional conduct and critical thinking are special emphasis areas. The graduates are prepared for successful engagement in commercial and industrial enterprise, research

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FACULTY

Engr. Faisal Mehmood Butt, MS (Pak)
Engr. Umair Ahmad Salaria, M.Sc.(Pak)
Engr. Sheeraz Iqbal, M.S (Pak)
Engr. Momina Asghar, M.S (Pak)
Engr. Muhammad Ali, M.Sc (Pak)
Engr. Muhammad Nouman, M.Sc (Pak)
Engr. Ausnain Naveed, M.S (Pak)
Engr. Atta Ul Munim Zaki, M.Sc (Pak)
Engr. Raja Tahir, M.Sc (Pak)
Engr. Syed Qasim Gilani, B.Sc (Pak)
Engr. Danish Ali, B.Sc (Pak)
Engr. Amina Riaz, MS (Pak)
Engr. Rimsha Sajjad, MS (Pak)
Engr. Asad Mumtaz, MS (Pak)
Engr. Mansoor Qadri, MS (Pak)

and development, and to continue higher education. Emphasis is placed on training necessary for practice as professional engineers, through seminars, workshops, extensive laboratory work and internship programs.

Admission Policy

Students desirous of seeking admission to Bachelors of Sciences in Electrical Engineering should have at least 60% Marks in F.Sc. (Pre-Engineering/ A-Level-Mathematics, Physics & Chemistry) as well in Matric (Science) and have to appear in an Entry Test conducted by The University of Azad Jammu & Kashmir. The student having 50% marks in test will be considered pass. Admissions are made purely on merit and the final merit list will be prepared using following criteria:
Final Merit=10% Matric marks + 60% F.Sc. marks + 30% Entry test marks.

Seats Allocation

There are forty seats in the department and their division is given below:

AJK Nationals		25
Refugees		06
Gilgit Baltistan		02
Pak Nationals		03
S/D University Teachers		01
S/D University Non Teachers		01
Sports		01
Disable		01
Total	**=**	**40**

Semester wise break up of courses

1st Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
NS-120	Applied Physics	3 + 1	6	None
HM-100	Islamiat	2 + 0	2	None
CM-140	Introduction to computing	2 + 1	5	None
HM-101	Functional English	3 + 0	3	None
EE-150	Electronic Workshop	0+1	3	None
NS-121	Linear Algebra	3+0	3	None
	Total	**16**	**22**	

2nd Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
HM-102	Pakistan Studies	2 + 0	2	None
NS-122	Calculus and Analytical Geometry	3 + 0	3	None
EE-151	Digital Logic Design	3 + 1	6	None
EE-152	Linear Circuit Analysis	3+1	6	None
CM-141	Programming Fundamentals	2+ 1	5	Intro to Computing
HM-103	Communication Skills	2+ 0	2	Functional English
	Total	**18**	**24**	

3rd Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
ME-X8X	IDEE I	3 + 0	3	None
NS-223	Differential Equations	=3 +0	3	Calculus and Analytical Geometry
EE-253	Engineering Drawing	0+ 1	3	None
NS-X3X	Natural Sciences Elective I	3 + 0	3	None
CM-242	Data structure and Algorithm	2 + 1	5	Programming Fundamentals
EE-254	Electronic Devices and Circuit	3+1	6	None
	Total	**17**	**23**	

4th Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
EE-255	Signals and Systems	3 + 1	6	Complex Variable and Transform
EE-260	Electromagnetic Field & Theory	3 + 0	3	None
EE-256	Micro Processor architecture	3 + 1	6	DLD
HM-204	Organizational Behavior	3 + 0	3	None
EE-257	Electrical Network Analysis	3 + 1	6	Linear Circuit Analysis
	Total	**18**	**24**	

5th Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
EE-361	Electrical Machines	3+1	6	Linear Circuit Analysis
EE-362	Communication Systems	3+1	6	Signal and system
EE-358	Probability Methods in Engineering	3 + 0	3	None
EE-363	Electronic Circuit Design	3+ 1	6	Electronic Devices and Circuit
HM-305	Critical Thinking	2 + 0	2	None
	Total	**17**	**23**	

6th Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
HM-306	Technical Report writing	3 + 0	3	Communication skills
ME-X8X	IDEE II	3 + 0	3	None
EE-364	Linear Control Engineering	3 + 1	6	Signals and System
NS-X3X	Natural Sciences Elective II	3 + 0	3	None
EE-365	Electrical Measurement and Instrumentation	3 + 1	6	
HM-307	Arabic language	1+0	1	None
	Total	**18**	**22**	

7th Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
MS-410	Entrepreneurship	3 + 0	3	None
EE-47X	Depth core I	3 + 1	6	
EE-47X	Depth Core II	3 + 1	6	
EE-47X	Depth core III	3 + 1	6	
EE-490	Senior Design Project I	0 + 3	9	
	Total	**18**	**30**	

8th Semester

Course Code	Course Title	Credit Hrs	Contact Hrs	Pre-Requisite
MS-411	Engineering Economics and Management	3 + 0	3	None
EE-47X	Depth core IV	3 + 1	6	
EE-47X	Depth core V	3 + 0	3	
EE-491	Senior Design Project II	0 + 3	9	
	Total	13	21	
	Grand Total	**135**	**189**	

List of Electives

Electrical Engineering Specialization Base Depth Elective

Code	Electronics	Telecommunication
EE470	Digital Signal Processing	Digital Signal Processing
EE471	Computer Communication	Network Computer Communication Network
EE472	Mobile and Wireless Communication	Mobile and Wireless Communication
EE473	VLSI Design	Radar & Satellite Engineering
EE474	Antenna and Microwave Engineering	Antenna and Microwave Engineering
EE475	Digital Image Processing	Digital Image Processing
EE476	Opto-Electronics	Information Theory and Coding
EE477	Introduction to Nano Technology	Digital Communications
EE478	Digital Control System	Optical Communication
Ee479	Solid State Devices	Transmission and Switching Systems

Inter Disciplinary Engineering Elective

Natural Sciences Elective

Code	Course
NS230	Complex variable & Transform
NS331	Numerical Analysis
NS232	Multi Variable Calculus
Ns333	Discrete Mathematics

Code	Course
ME280/ME180	Engineering Mechanics
ME381	Thermodynamics
Me382	Engineering Materials
Me383	Geotech Engineering

Dress code of University/Department must be followed by the students.

It is an honour for me to be a part of Electrical Engineering department of University of Azad Jammu and Kashmir. The teachers are highly qualified and cooperative. The Chairman and other staff members are working very hard to provide us all the facilities which a reputed department should have. I pray for the betterment and prosperity of my department and University.

Syed Qulb-e-Haider Kazmi
BS Electrical Engineering,
3rd Semester

I would simply convey my message to all that the University of Azad Jammu and Kashmir (UAJK) is the Institution where I am learning to be punctual, proactive and a true professional. I found means to explore my hidden skills in this praiseworthy Institute. I feel honored to be a part of Electrical Engineering, UAJK.

Vaneeza Ayaz
BS Electrical Engineering,
3rd Semester

Department of Software Engineering

Engr. Dr. Sajjid Anwar,
PhD in Electrical Engr. & Computer Science, (South Korea)
Engr. Qazi Arbab Ahmed,
MS Computer System Engineering (Pak) (Study Leave)
Engr. Muhammad Zaman Fakhar,
MS Software Engineering (Pak) (Study Leave)
Engr. Ghulam Rabbani Butt,
MS Software Engr. (Pak)
Engr. Saad Mujahid Khan,
MS Software Engr. (Pak)
Engr. Syed Waqas Ali,
MS Software Engineering (Pak)
Engr.Qazi Awais Ahmed,
BS Computer Systems Engr. (Pak)
Engr. Saba Zaib,
MS Electronics Engineering (Pak)
Engr. Sadaqat Hussain,
MS Computer Systems Engr. (Pak)
Engr. Zeeshan Rasheed,
MS Computer Systems Engr. (Pak)
Engr. Sidra Rafique,
BS Computer Systems Engr.(Pak)
Engr. Awais Rathore,
BS Computer Systems Engr. (Pak)

CHAIRPERSON
Dr. Rabia Riaz
PhD (South Korea)
Phone: +92-5822-960510
Email: rabiaiqbal8@gmail.com

Introduction

In order to bridge the gap between supply and demand of Software Engineers, the University of Azad Jammu and Kashmir Muzaffarabad has established the department of Software Engineering in 2009. Its aim is to prepare Software Engineers having a strong sense of civic, professional and ethical responsibility with ability to apply engineering principles, practices and processes to develop, deploy and maintain software systems. The Department of Software Engineering has been preparing students not only for exciting and challenging careers in Pakistan particularly but also for regional and global markets. We have developed an outstanding reputation, locally and internationally, for the quality of our teaching and research. The program at the Faculty of Engineering involves combination of research, learning and practice. Alongside 'research-led teaching', there is the theme of theory and practice.

BSSE degree program of Software Engineering Department is approved and accredited by the National Computing Education Accreditation Council (NCEAC) in X Category. University is planning to have its accreditation from PEC as well.

Currently department houses following computer labs:

1. Computer Programming Lab
2. Software Engineering Lab

3. Hardware & System Lab

In all these Labs, networking facilities have been deployed for twenty-five computers in each. The entire computer Labs have been fully equipped with latest Core i-7 computers. Forty Eight MB dedicated PERN connectivity has been deployed and internet facilities are provided.

Department of Software Engineering also arrange different sort of events in order to encourage students to take part in those events and groom their technical as well as non-technical skills. The events that have been arranged so far are; Cloud'15 Olympiad, Cloud'14 Olympiad programming Competitions (in C++, Asp. Net etc.), Project exhibition (Semester & final Year Projects), Literary and Sports. Workshops are being held on different software development tools like C#, as well as Freelancing and Deep learning.

Moreover a departmental website has been developed by the students of Software Engineering with the guidance of faculty, which makes everything so effective and easy, the time table, and result display and lectures as well as notes. It also provides access to the student data and previous records.

The Department of Software Engineering also have its active IEEE Chapter and a student's society named as "Software Engineering Society". IEEE Chapter arrange the seminars and workshops on emerging topics on regular basis. Software Engineering Society provides a platform to the students to take an active part in the social activities.

The UAJK envisaged growing as a major modern center of excellence for engineering education and research in state of AJK. We have already been placed among the most dynamic, fastest growing and excelled faculties in engineering sciences in the state. The faculty endeavours to venture into new programs like other engineering disciplines. Over the next few years we will continue the process of self-evaluation, renewal and growth.

Mission Statement

Our mission is to produce graduates well-versed with the latest engineering, technological and managerial skills so as to cope up with the latest advances and technical demands in the practical field of Software Engineering research and development.

The department will also strive to generate and disseminate state-of-the-art knowledge. The graduates who pass out from department of Software Engineering will be well equipped with both theoretical knowledge and practical experience in their areas. They will be ready to accept any kind of challenge in the field.

Vision of the Department of Software Engineering

Department of Software Engineering will be known as a

leading human resource and knowledge provider to software industry and other research and development organizations at national and global level.

Objectives of Software Engineering Program

Objectives of BSSE Program are.

1. To enable graduates to competently apply principles and practices of software engineering in their work.
2. To prepare students for graduate school or employment in Information Technology or Software Engineering industry by enabling them to make effective and efficient use of computers to solve problems relating to the disciplined development, implementation, and maintenance of quality software.
3. To enable students to make effective and efficient use of Software Engineering methodologies, whether as builders of powerful and easy-to-use tools, as researchers, or as educators.
4. To make the graduates capable to demonstrate effective management of technical projects in multi disciplinary teams.

Educational Outcomes for the Software Engineering Programme

The curriculum of BSSE is designed based on the standard guidelines and benchmarks set by the prestigious national institutions; HEC and PEC. The prime goal is to enable our graduate students to satisfy local, national and international needs. The student works as an expert proxy on behalf of society/industry with the computing machine. Our curriculum is therefore designed in such a way that our student can both effectively use the machine and also communicate effectively with the industry. Graduates of the AJK University BSSE program achieve the following outcomes:

- The ability to think and communicate critically.
- An understanding of ethical and professional aspects of engineering and science.
- The ability to work effectively in multidisciplinary teams.
- The ability to devise computational solutions of complex problems
- The ability to apply the principles of abstraction and structural design
- The ability to reason about program correctness, complexity, and apply formal methods and models.
- The ability to develop robust software by means of a variety of programming paradigms and languages.

Job Opportunities for Graduates

Students graduating from the Department of Software Engineering are well prepared for employment in a wide range of high-tech companies. The major employers of

Software Engineering Graduates are: Telecom Companies, PTCL, Kahuta Research Laboratories', Pakistan Navy, Pakistan International Airline, National Administration and Database Registration Authority, Passport Offices, Pakistan Air Force, Stock Exchanges, Atomic Energy Commission, Software development industry, Banks and various other organizations at National Level. The graduates with their skills in this modern technology era can enhance the position of AJ & K's in global scenario.

Our batches graduated from the department, most of our graduates got good positions at various well reputed organizations within AJK, Pakistan and international level.

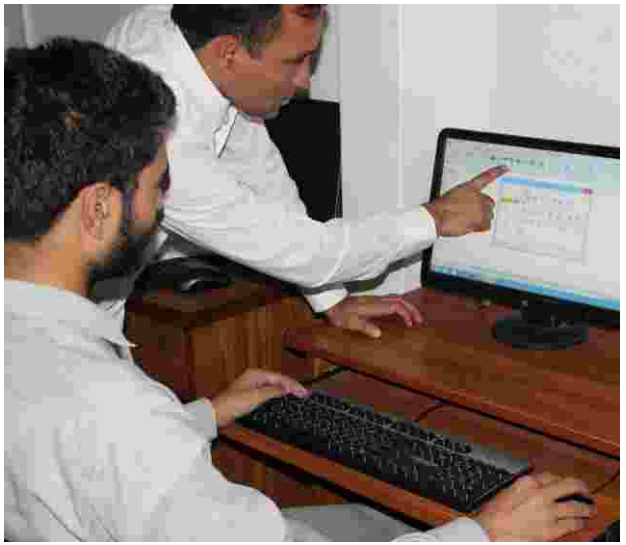
BS (SE) Eligibility Criteria

- General rules of HEC are followed to determine the eligibility of the candidate.
- The candidates must have Pre-Engineering/ICS with 60% marks in HSSC.
- No third division in academic career.
- Entrance test is mandatory for admission in BS (SE).
- Overall merit will comprise marks in academics and Entrance result as per the following formula.

Final Merit=10% SSC Marks + 60% HSSC Marks + 30% Entry Test Marks.

Scheme of Study for BS (SE):

Duration:	8-10 Semesters
Course:	131 Credits
Oral Comprehensive Examination:	S/U Basis
Internship/ Practical Training:	S/U Basis
Project:	06 Credits
Total Credit Hours:	**137 Credits**



Category	Credit Hours	
	HEC	Proposed
Computing-Core Courses (CC)	46	47
Computing Supporting Area Courses (CSA)	12	12
General Education Courses (CGE)	15	16
University Electives (UE)	12	12
Software Engineering Core Courses (SEC)	16	16
Computing Software Engineering Elective Courses (CSEE)	21	19
Computing Requirements - Supporting Sciences (CRSS)	9	9
Software Engineering - Elective Courses Domain Specific (SEDS)	6	6
Total Credit Hours	**137**	**137**

Computing Courses

Course Code	Course Title	Credit Hrs	Proposed Semester
Computing - Core Courses (CC) (47 Credit Hours)			
CS-1101	Introduction to Computing	4(3-3)	1
CS-1102	Introduction to Programming	4(3-3)	1
CS-1201	Object Oriented Programming	4(3-3)	2
CS-1202	Discrete Structures	3(3-0)	2
CS-2101	Data Structures and Algorithms	4(3-3)	3
CS-2103	Digital Logic and Design	4(3-3)	3
CS-2104	Introduction to Software Engineering	3(3-0)	3
CS-2204	Database Systems	4(3-3)	4
CS-3102	Operating Systems	4(3-3)	5
CS-3103	Computer Communications and Networks	4(3-3)	5
CS-3202	Human Computer Interaction	3(3-0)	6
CS-4101	Thesis/Project Part-I	3	7
CS-4201	Thesis/Project Part-II	3	8

Computing - Supporting Area Courses (CSA) (12 Credit Hours)			
MT-1103	Calculus and Analytical Geometry	3(3-0)	1
PH-1105	Basic Electronics	3(2-3)	1
SS-2102	Statistics and Probability	3(3-0)	3
MT-2106	Differential Equations	3(3-0)	3
General Education Courses (CGE) (16 Credit Hours)			
EG-1104	English Comprehension and Composition	3(3-0)	1
SS-1106	Pakistan Studies	2(2-0)	1
EG-1204	Communication Skills	3(3-0)	2
SS-1205	Islamic Studies	2(2-0)	2
EG-2105	Technical and Business Report Writing	3(3-0)	3
SS-4202	Arabic	3(3-0)	8
SS-4205	International Relations	3(3-0)	8
SS-2107	Introduction to Law		3
University Elective Courses (UE) (12 Credit Hours)			
MG-1206	Financial Accounting	3(3-0)	2
MG-1208	Principles of Management	3(3-0)	2
MG-3108	Human Resource Management	3(3-0)	5
MG-3205	Professional Ethics	3(3-0)	6
MG-4203	Marketing and Entrepreneurship	3(3-0)	8
PS-4204	Psychology	3(3-0)	8

Software Engineering Courses

Course Code	Course Title	Credit Hrs	Proposed Semester
Software Engineering – Core Courses (SEC) (16 Credit Hours)			
SE-2205	Object Oriented Software Engineering	4(3-3)	4
SE-2206	Software Requirements and Specifications	3(3-0)	4
SE-3101	Software Design and Architecture	3(3-0)	5
SE-3201	Software Verification and Validation	3(3-0)	6
SE-4102	Software Project Management	3(3-0)	7
Computing Software Engineering - Elective Courses (CSEE) (19 Credit Hours) *This is not an exhaustive list, more courses may be included as required			
CS-2201	Computer Organization and Architecture	4(3-3)	4
CS-2208	Theory of Automata and Formal Languages	3(3-0)	4
CS-3104	Digital Signal Processing	3(2-3)	5
CS-3105	Compiler Construction	3(2-3)	5
SE-3106	Formal Methods in Software Engineering	3(3-0)	5
CS-3107	Web Design and Development	3(2-3)	5
CS-3109	Computer Graphics	3(2-3)	5
CS-3110	Design and Analysis of Algorithms	3(3-0)	5
CS-3203	Microprocessors and Embedded Systems	3(2-3)	6
CS-3204	Digital Image Processing	3(2-3)	6
SE-3205	Real Time Systems	3(2-3)	6
CS-3206	Visual Programming	3(2-3)	6
CS-3209	Introduction to Bioinformatics	3(3-0)	6
SE-3210	Secure Software Development	3(2-3)	6
SE-3211	Mobile Computing	3(2-3)	6
MG-3212	Information System Audit	3(2-3)	6
CS-3213	Event Driven Programming	3(2-3)	6

CS-4103	Artificial Intelligence	3(2-3)	7
SE-4104	Introduction to Complex Networks	3(2-3)	7
SE-4105	Design Patterns	3(2-3)	7
CS-4106	Computer Forensics	3(2-3)	7
SE-4107	Distributed Computing	3(3-0)	7
CS-4108	Data Mining and Machine Learning	3(2-3)	7
CS-4109	Data Security and Encryption	3(3-0)	7
CS-4110	Artificial Neural Networks	3(2-3)	7
CS-4111	Advance Database Management Systems	3(2-3)	7
CS-4112	Data Warehousing	3(2-3)	7
SE-4113	Agent Based Computing	3(2-3)	7
SE-4114	Cloud Computing	3(2-3)	7
SE-4115	Social Networks	3(3-0)	7
SE-4116	Software Testing	3(3-0)	7
Computing Requirements – Supporting Sciences Courses (CRSS) (9 Credit Hours)			
MT-1203	Linear Algebra	3(3-0)	2
CS-2202	Signals & Systems	3(3-0)	4
CS-2203	Numerical Analysis	3(3-0)	4
SC-2207	Software Engineering Economics	3(3-0)	4
EE-2208	Digital Electronics	4(3-3)	4
MT-2209	Stochastic Processes	3(3-0)	4
SC-2210	Biology/Genetics	3(3-0)	4
MT-2211	Mathematical tools for Software Engineering	3(3-0)	4
MT-3207	Simulation and Modeling	3(3-0)	6
MT-3208	Operations Research	3(3-0)	6
CS-3214	Data Mining	3(2-3)	6
CS-3215	Natural Language Processing	3(3-0)	6

Software Engineering - Elective Courses Domain Specific (SEDS) (06 Credit Hours)

Course Code	Course Title	Credit Hrs	Proposed Semester
(This is not an exhaustive list, more courses may be included as required)			
IS-4117 & IS-4207	Enterprise Systems Engineering (I & II)	3+3	7,8
NS-4118 & NS-4208	Net-Centric Systems (I & II)	3+3	7,8
IS-4119 & IS-4209	Enterprise Security Architecture (I & II)	3+3	7,8
IS-4120 & IS-4210	Information Systems and Data Processing (I & II)	3+3	7,8
IS-4121 & IS-4211	Financial and E-commerce Systems (I & II)	3+3	7,8
CE-4122 & CE-4212	Fault Tolerant and Survivable Systems (I & II)	3+3	7,8
CE-4123 & CE-4213	Safety Critical Systems (I & II)	3+3	7,8
CE-4124 & CE-4214	Embedded & Real time Systems (I & II)	3+3	7,8
BI-4125 & BI-4215	Bio-medical Systems (I & II)	3+3	7,8
SS-4126 & SS-4216	Scientific Systems (I & II)	3+3	7,8
TE-4127 & TE-4217	Telecommunication Systems (I & II)	3+3	7,8
AS-4128 & AS-4218	Avionic & Vehicular Systems (I & II)	3+3	7,8
IE-4129 & IE-4219	Industrial Process Systems (I & II)	3+3	7,8
ES-4130 & ES-4220	Multimedia, Game and Entertainment Systems (I & II)	3+3	7,8
WN-4131 & WN-4221	System for Small & mobile Platforms (I & II)	3+3	7,8
AI-4132 & AI-4222	Agent based Systems (I & II)	3+3	7,8
MT-4133 & MT-4223	Modeling and Simulations (I & II)	3+3	7,8
CS-4134 & CS-4224	Gene Expression based Data Mining and	3+3	7,8
	Machine Learning (I & II)		
CS-4135 & CS-4225	Signal and Image Processing of	3+3	7,8
	Physiological Systems (I & II)		
CS-4136 & CS-4226	Advance Artificial Intelligence (I & II)	3+3	7,8

Approved Scheme of Studies for session 2015-19 onwards

1st Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-1101	Introduction to Programming(C/C++)	3	1	4
CS-1102	Introduction to Computing	3	1	4
MT-1103	Calculus and Analytical geometry	3	0	3
PH-1105	Basic Electronics	2	1	3
EG-1104	English Comprehension and Composition	3	0	3
SS-1106	Pakistan Studies	2	0	2

2nd Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-1201Object	Oriented Programming (C++)	3	1	4
CS-1202	Discrete Structures	3	0	3
EG-1204	Communication Skills	3	0	3
SS-1205	Islamic Studies	2	0	2
MT-1203	Linear Algebra	3	0	3
MG-1206	Financial Accounting	3	0	3

3rd Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-2101	Data Structure & Algorithm	3	1	4
CS-2103	Digital Logic Design	3	1	4
CS-2104	Introduction to Software Engineering	3	0	3
SS-2102	Statistics & Probability	3	0	3
MT-2106	Differential Equations	3	0	3
EG-2104	Technical and Business Report Writing	3	0	3

4th Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-2204	Introduction to Database Systems	3	1	4
SE-2205	Object Oriented Software Engineering	3	1	4
SE-2206	Software Requirements and Specifications	3	0	3
CS-2203	Numerical Analysis	3	0	3
—	Computing Software Engineering	3	1	4
	Elective Course I			

5th Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-3102	Operating Systems	3	1	4
CS-3103	Computer Communication & Networks	3	1	4
SE-3101	Software Design and Architecture	3	0	3
MG-3108	Human Resource Management	3	0	3
—	Computing Software Engineering Elective Course II	3	0	3

6th Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-3202	Human Computer Interaction	3	0	3
SE-3201	Software Verification and Validation	3	0	3
CS-3215	Natural Language Processing	3	0	3
MG-3205	Professional Ethics	3	0	3
—	Computing Software Engineering Elective Course III	3	0	3
—	Computing Software Engineering Elective Course IV	3	0	3

7th Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-4101	Thesis/ Project Part I	0	3	3
SE-4102	Software Project Management	3	0	3
—	Computing Software Engineering	3	0	3
	Elective Course V			
—	Computing Software Engineering	3	0	3
	Elective Course VI			
—	Software Engineering Elective Courses	3	0	3
	Domain Specific Part I			

8th Semester

Course Code	Course Title	Lac. Hrs.	Lab. Hrs.	Credit Hrs.
CS-4201	Thesis / Project Part - II	0	3	3
SS-4202	Arabic	3	0	3
MG-4203	Marketing and Entrepreneurship	3	0	3
—	Software Engineering Elective Courses	3	0	3
	Domain Specific Part I			
---	Oral Comprehensive Examination	---	---	S/U Basis
—	Internship and Practical Training	---	---	S/U Basis

I have spent glorious 2 years of my life in Department of Software Engineering. Department of Software Engineering made me so proud to be the part of it. A place where you can learn as well as make practical implementations under the supervision of professional, co-operative and committed Engineering Faculty blended with the colors of extra curriculum activities. The student-teacher interaction is worth praising. I reckon life at UAJK has been the most thrilling experience of life. We the students at Department of Software Engineering are like family & this university seems like another home. I couldn't have found a better institution to study software engineering from. If you're thinking about joining the department of Software Engineering at UAJK then you're definitely making the right choice

Amina Junaid,
BS Software Engineering, 4th Semester,

"Taking admission at University of AJK was one of the best decisions that I've made. University of AJK did not only help me believe in my dreams but also provided me with an opportunity to achieve them. The department of Software Engineering is undoubtedly one of the finest departments here. From well-equipped labs to highly qualified engineers and doctors as faculty members, everything is perfect. The teachers don't only enhance your skill and make you a great professional they also shape your personality with their own good conduct and support. My insight on life is more real now all thanks to my teachers. The sole object of the faculty members and the Head of Department is to produce highly qualified professionals.

Mehar Ali,
BS Software Engineering,
4th Semester,

Faculty of Health and Medical Sciences

Dear Prospective Students,

Welcome to the Faculty of Health and Medical sciences at the UAJK. Are you interested in pursuing a career in health care? Congratulation! You have made the right decision. We appreciate your interest and will help you get through. The need for qualified health professionals is enormous in Azad Jammu & Kashmir. After the devastating 2005 earthquake, healthcare infrastructure has largely been reconstructed and renovated. Now, Azad Kashmir enjoys an extensive network of modern hospitals and primary health care facilities, perhaps the best nationwide. For operating these facilities motivated and enthusiastic people like you are required. Through joining our educational Programs, you definitely make the right step towards ensuring a respectful job. However, working for health is more than a job. It is a mission and passion. It will offer you with the self-esteem and satisfaction you are searching for. Healthcare career offers numerous rewards including making a difference in the lives of patients and populations, intellectual challenge and continuous learning, attractive compensation and benefits, security and the ability to work anywhere in the country. Our educational Programs cover a wide spectrum of professions that constitute the backbone of any health facility and the key for its success. We have designed our courses in a way that offers you the most interactive, informal and encouraging environment conducive to learning. You will be encouraged to think critically, to seek knowledge yourself and to translate theory into practice. Our curricula are based on the art and science of helping you learn. The principles of our educational philosophy are that you are self-directed learners, have rich experiences and knowledge on which to draw, desire to learn to better handle real-life situations, and see education as a process that increases competence and leads to achievement of your full potential. I am confident that you will excel in our Programs and wish you all the best.

Dr. Bashir ur Rehman

ASSOCIATE DEAN
Dr. Bashir-ur-Rehman
MBBS, MD, MCPS, FCPS
Ph: 5822 960436
drbashirurrehman@gmail.com

TECHNOLOGY / PROGRAM

Anesthesia & Critical Care Sciences
Cardiovascular Technology
Dialysis & Critical Care Sciences
Emergency & Intensive Care Sciences
Clinical Laboratory Sciences
Physiotherapy & Rehabilitation Sciences
Diagnostic Radiology & Imaging Sciences
Surgical & Operation Theatre Sciences
Optometry and Vision Sciences
Doctor of Physical Therapy (DPT)

Mission

The Faculty of Health and Medical Sciences at the University of Azad Jammu and Kashmir dedicated to education, search for knowledge, academic excellence, and service to the profession and to the people of the Azad Kashmir and Pakistan.

Our Mission is to shape a learning environment where students and teachers respect each other and work with devotion, sincerity and fairness to achieve the highest level of morality and creativity through shared stimulating experiences.

Vision

To train available Human Resource (youth) to become competent health & Allied Health professionals, needed in state / country and also who can compete in the regional and Global market.

Values

The work of the Faculty of Health and Medical Sciences at UAJK rests on core values and commitments that include:

- **Relevance:**

We believe that health sciences are pertinent and connected to improving health and development, and serve as a means to achieving that purpose.

- **Academic Excellence:**

We strive to excel and grow as an academic institution with excellent learning environment and world class performance in teaching, research and services.

- **Commitment to Ethics:**

We are committed to the Principles of the ethical practice of healthcare and strive to adhere to the highest ethical standards in the conduct of all components of our mission.

- **Community Orientation:**

In all our activities, we are oriented towards the community we serve. Community orientation involves the organization, wide generation, dissemination and use of community intelligence to understand and respond to the community's health care needs.

- **Student-centrism:**

We believe in centralizing the entire learning process around the needs of our students. We strive to put students first and move away from teacher centred lecturing and careerism. Student centered learning is focused on the student's needs, abilities, interests, and learning styles with the teacher as a facilitator of learning. This classroom teaching method acknowledges student voice as central to the learning experience for every learner.

- **Inter Disciplinarity:**

We very much value and strive to seek knowledge with interdisciplinary approaches that cross traditional boundaries between academic disciplines or schools of thought.

- **Social Justice and Equal Opportunity:**

We believe in social justice and strive to establish within our school and in the community we serve a culture of equal opportunity and eliminated discrimination based on gender, age, social, economic or ethnic back ground.

BS Allied Health Sciences

BS Anesthesia & Critical Care Sciences

Introduction

The Anesthesia Technology Programme at the Faculty of Health Sciences is a four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any

surgical setting, hospital operating room or free standing healthcare facility, as a member of the anesthesia team.

The goal of the Programme is to prepare anesthesia technologists who are highly competent in the knowledge, skills and professional demeanor consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce anesthesia technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in an anesthesia technologist role
- Undertake efficiently preoperative anesthetic procedures, including:
- Assessing patient health status,
- Checking and setting up the anesthetic machine
- Preparing intravenous drugs
- Preparing intravenous therapy administration equipment
- Preparing a range of devices to maintain the patient's airway (e.g. laryngeal masks, endotracheal tube)
- Preparing anesthetic monitoring equipment
- Undertake efficiently intra-operative anesthetic procedures, including:
- inducing and maintaining adequate anesthesia
- establishing and securing an airway
- making sure that patients are positioned in such a way
  NOT to cause discomfort during their procedure
- monitoring patients' vital signs and anesthesia depth
- temperature monitoring and regulation
- collection and analysis of patient (blood) samples
- acquiring transfusion fluids and equipment
- Undertake efficiently postoperative anesthetic procedures, including:
- Post-operative examination
- Transferring the patient to PACU
- removing airway devices
- Demonstrate ability to safely and effectively perform:
- Basic Life Support
- Advanced Cardiac Life Support
- Apply aseptic techniques in preparing equipment and supplies
- Clean, sterilize, disinfect, stock, order and maintain routine anesthesia equipment and supplies
- Demonstrate an understanding of pharmacology, local, regional and general anesthesia
- Demonstrate patient care skills, including transferring, positioning, monitoring and transporting patients
- Identify patient and occupational hazards, including electrical, radiation, chemical and biological
- Demonstrate critical thinking skills to priorities, anticipate and analyse problems and evaluate solutions
- Demonstrate ability to use medical terminology, acronyms, symbols and abbreviations
- Practice within the professional and legal parameters of the occupation, including ethical issues concerning patient and employment relationships
- Demonstrate good communication skills using appropriate medical terminology with patients, peers and physicians
- Presents a professional demean our with patients, peers and physicians
- Display professionalism in their appearance, job performance, and ability to work as a team member

- Identify and access professional organizations and continuing education resources

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified anesthetic technologist. In this regard, the curriculum meets international standards in anesthesia technology certification and ensures that students masters world-class performance competencies.

Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in anesthesia technology is awarded when the student accumulates a total of 130 credits.

In the fourth study year students are required to complete an eight weeks practicum of anesthesia technology in an accredited institution, attend particular honours seminars, undertake independent research and write an honours thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (2 + 1)
BMT-4302	Pharmacology - I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (2 + 1)
BMT-4402	Critical Care - II	3 (2 + 1)
BMT-4403	Emergency Care-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5521	Metabolic and Endocrine Disorders	3 (2 + 1)
BMT-5522	Cardiopulmonary Resuscitation (CPR)	3 (2 + 1)
BMT-5523	Hepatic and Cardiovascular Medicine	3 (2 + 1)
BMT-5524	Anesthesia Apparatus	3 (2 + 1)
BMT-5525	Clinical Nutrition and Diet Therapy	3 (2 + 1)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5621	Invasive Techniques	3 (2 + 1)
BMT-5622	Hazards in Anesthesia and Critical Care	3 (2 + 1)
BMT-5623	Renal Failure and its Management	3 (2 + 1)
BMT-5624	Fundamental of Infection Diseases	3 (2 + 1)
BMT-5625	Monitoring in ICU and Anesthesia	3 (2 + 1)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6721	Trauma and Burns	3 (2 + 1)
BMT-6722	Neuromuscular Disorders	3 (2 + 1)
BMT-6723	Respiratory Medicine, Oxygen Therapy and Airway Management	3 (2 + 1)
BMT-6725	Body Fluids and Transfusion of Blood Products	3 (2 + 1)
BMT-6726	Introduction to Biomedical Ethics	3 (3 + 0)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6821	Sedation, Pain Management & Muscle Relaxation in ICU	3 (2 + 1)
BMT-6822	Clinical Toxicology: Diagnosis and Management in ICU	3 (3 + 0)
BMT-6823	Organization and General Principles of ICU	3 (2 + 1)
BMT-6824	Research Project (Thesis)	3 (0 + 3)
BMT-6825	Research Methodology	4 (3 + 1)
	Total	**16**

BS Cardiovascular Technology

Introduction

The Cardiovascular Technology Programme at the Faculty of Health and Medical Sciences is a four year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any medical facility as a member of the cardiovascular care team.

The goal of the course is to prepare Cardiovascular Technologists who are highly competent in the knowledge, skills and professional demeanor consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce Cardiovascular Technologists with the capabilities to:

- Function effectively and efficiently and exhibit ethical behavior in an Cardiovascular Technologist role,
- Complete all work in accordance with legal and ethical requirements of the field, using accepted safety practices, and appropriate terminology specific to the occupation and the industry.
- Operate sophisticated medical equipment to assist physicians in the diagnosis and treatment of cardiovascular disorders.
- Prepare accurate test reports such as Electrocardiograms, Holter Scans and Exercise tests for the interpreting cardiologist.
- Critically evaluate the patient's cardiac status using the relevant test procedure and results.
- Apply scientific principles in the operation and evaluation of laboratory equipment and implanted cardiac rhythm management devices, and assist with obtaining measurements and monitoring of the patient's hemodynamic parameters.
- Provide competent cardiovascular testing by applying comprehensive knowledge of cardiology and related disciplines.
- Identify emergency equipment, cardiovascular drugs, their use and the role of each member of the cardiac diagnostic team during a cardiac emergency.
- Provide quality patient care through all interactions with patients, their parents and families, co-workers, and the community.

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified Cardiovascular Technologists.

In this regard, the curriculum meets international standards in certification and ensures that students master world-class performance competencies. Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in cardiovascular Technology is awarded when the student accumulates a total of 111credits.

In the fourth study year students are required to complete an eight weeks practicum in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (2 + 1)
BMT-4302	Pharmacology - I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (2 + 1)
BMT-4402	Critical Care - II	3 (2 + 1)
BMT-4403	Emergency Care-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5531	Electro Cardiography - I	4 (3 + 1)
BMT-5532	Cardiac Sonography - I	4 (3 + 1)
BMT-5533	Vascular Sonography - I	4 (3 + 1)
MBT-5534	Clinical Practicum	3 (0 + 3)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5631	Electro Cardiography - II	4 (3 + 1)
BMT-5632	Cardiac Sonography - II	4 (3 + 1)
BMT-5633	Vascular Sonography - II	4 (3 + 1)
MBT-5634	Clinical Practicum	3 (0 + 3)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6731	Common Cardiac Diseases	4 (3 + 1)
BMT-6732	Common Cardiac Interventions	4 (3 + 1)
BMT-6733	Recent Advances in Cardiology-I	4 (3 + 1)
BMT-6734	Basic & Advance Cardiac Life Support	3 (2 + 1)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6831	Introduction to Biomedical Ethics	3 (2 + 1)
BMT-6832	Research Methodology	3 (0 + 3)
BMT-6833	Research Project (Thesis)	3 (0 + 3)
BMT-6834	Recent Advances in Cardiology-II	4 (3 + 1)
BMT-6835	Clinical Practicum	3 (3 + 0)
	Total Credit Hours	**16**

BS Dialysis & Critical Care Sciences

Introduction

The renal dialysis technology Programme at the Faculty of Health and Medical Sciences is a Four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any medical facility as dialysis technologist.

The goal of the course is to prepare dialysis technologists who are highly competent in the knowledge, skills and professional demeanour consistent with local employer expectations and professional standards. The objective of the Programme is to produce dialysis technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in an Emergency Medical Technologist role,
- Possess the background and Knowledge necessary for practice
- Identify Renal functions
- Explore dialysis therapies
- Work with a multidisciplinary team
- Competency 1.4 Interpret technical procedures
- Identify need for water treatment
- Examine the history and theory of dialysis access
- Demonstrate ability to perform preparations for dialysis
- Wear appropriate Personal Protective Equipment
- Prepare dialysate
- Assemble the extracorporeal circuit
- Test the functional status of monitors and alarms
- Recirculate the extracorporeal circuit per unit protocol
- Read and check treatment plan related to the dialysis treatment
- Demonstrate ability to obtain and record patient information
- Assess patient according to unit policy
- Evaluate pre-dialysis
- Evaluate the patient's general state of health pre-dialysis
- Demonstrate ability to manage internal vascular access
- Evaluate the access
- Access preparation/cannulation
- Insert fistula needles per unit procedure
- Draw blood samples per unit procedure if needed
- Administer prescribed Heparin dose per unit protocol
- Demonstrate ability to initiate hemodialysis
- Prepare for dialysis
- Start blood flow at 200 ml/min
- Set all monitors and alarms
- Increase blood flow rate to prescribed setting
- Finalize prescribed machine settings per unit protocol
- Check the entire extracorporeal circuit
- Demonstrate ability to Monitor patient during dialysis
- Evaluate patient throughout the course of treatment
- Monitor technical parameters dictated by the dialyzer and delivery system used
- Demonstrate ability to appropriately discontinue treatment
- Prepare for discontinuation
- Discontinue treatment per unit policy and procedure
- Demonstrate ability to appropriately perform post

dialysis Protocols
- Evaluate treatment
- Measure and record patient's information
- Disassemble and clean equipment
- Demonstrate ability to appropriately respond to dialysis emergencies
- Describe the appropriate responses to dialysis related emergencies in the patient
- Describe the appropriate responses to dialysis related emergencies in the equipment
- Respond to a chloramine emergency
- Describe appropriate response to an emergency situation
- Follow OSHA Exposure control plan
- Perform other miscellaneous duties
- Monitor blood glucose
- Calibrate Phoenix Meter
- Demonstrate Professionalism
- Ensure professional conduct
- Follow professional protocol according to unit policy and procedures
- Work with team members in a professional manner

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified dialysis technologist. In this regard, the curriculum meets international standards in dialysis technology certification and ensures that students master world class performance competencies.

Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in dialysis technology is awarded when the student accumulates a total of 136 credits.

In the fourth study year students are required to complete an eight weeks practicum in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (2 + 1)
BMT-4302	Pharmacology - I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (2 + 1)
BMT-4402	Critical Care - II	3 (2 + 1)
BMT-4403	Emergency Care-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5571	Anatomy & Physiology of Kidney	3 (2 + 1)
BMT-5572	Diseases of Kidney & Kidney failure	3 (2 + 1)
BMT-5573	Organization and General Principles of ICU	3 (2 + 1)
BMT-5574	Principles of Dialysis	3 (2 + 1)
BMT-5525	Clinical Nutrition and Diet Therapy	3 (2 + 1)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5671	Vascular Access and Hemodialysis Procedure	3 (2 + 1)
BMT-5672	Body Fluids and Transfusion of Blood Products	3 (2 + 1)
BMT-5673	Renal Pharmacology	3 (2 + 1)
BMT-5624	Fundamental of Infectious Diseases	3 (2 + 1)
BMT-5625	Monitoring in ICU and Anesthesia	3 (2 + 1)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6771	Peritoneal Dialysis & Dialysis Adequacy	3 (2 + 1)
BMT-6772	Acute and Chronic Complications during Dialysis	3 (2 + 1)
BMT-6723	Respiratory Medicine & Oxygen Therapy and Airway Management	3 (2 + 1)
BMT-6774	Blood Products transfusion in Dialysis Patient	3 (2 + 1)
BMT-6725	Introduction to Biomedical Ethics	3 (3 + 0)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6871	Specialized Dialysis	3 (2 + 1)
BMT-6872	Dialysis in Children and elderly	3 (2 + 1)
BMT-6873	Research Project (Thesis)	3 (2 + 1)
BMT-6874	Clinical Practicum	3 (1 + 2)
BMT-6875	Research Methodology	4 (3 + 1)
	Total	**16**

BS Emergency & Intensive Care Sciences

Introduction

The Emergency Medical Technology Programme at the Faculty of Health and Medical Sciences is a four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any medical facility for emergency and trauma management, including hospitals, specialized trauma centre and mobile emergency teams.

The goal of the course is to prepare Emergency Medical Technologists who are highly competent in the knowledge, skills and professional demeanour consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce Emergency Medical Technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in an Emergency Medical Technologist role,
- Drive ambulance vehicles safely and efficiently to the emergency scene.
- Apply basic scientific principles related to anatomy, physiology, pathophysiology and pharmacology for safe management of medical and surgical emergencies at prehospital care level.
- Apply procedures for basic and advanced life support.
- Administer drugs and fluids orally and parentally following strict protocols for life saving of patients in life threatening situations.
- Apply effectively and safely procedures for hemorrhage control and fracture and Spinal Immobilization/ Management.
- Transport patients to hospital safely and quickly.
- Use mobile equipment for monitoring of patient's vital signs and electrocardiography during transportation,
- Carry out critical care procedures during transportation out under the step-by-step direction of medical personnel by radio contact.
- Apply knowledge of interpersonal communication when working with patients, patients' significant others, colleagues and other members of the healthcare team,

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified Emergency Medical Technologist. In this regard, the curriculum meets international standards in ETMT certification and ensures that students master world-class performance competencies.

Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in Emergency Medical
Technology is awarded when the student accumulates a total of 127 credits.

In the fourth study year students are required to complete an eight weeks practicum in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (2 + 1)
BMT-4302	Pharmacology - I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (2 + 1)
BMT-4402	Critical Care - II	3 (2 + 1)
BMT-4403	Emergency Care-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5511	General Outlines of Emergency Management	4 (3 + 1)
BMT-5512	Trauma	4 (3 + 1)
BMT-5513	Resuscitation	4 (3 + 1)
BMT-5514	Clinical Practicum	3 (0 + 3)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5611	Common Emergencies	4 (3 + 1)
BMT-5612	Emergency Skills in special disease	4 (3 + 1)
BMT-5613	Shock	4 (3 + 1)
BMT-5614	Clinical Practicum	3 (0 + 3)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6711	Obstetrical Emergencies & Intensive Care	3 (2 + 1)
BMT-6712	Procedures and Therapeutic Interventions	3 (2 + 1)
BMT-6713	Advance Principals and Techniques	3 (2 + 1)
BMT-6714	Introduction to Biomedical Ethics	3 (3 + 0)
BMT-6715	Clinical Practicum	3 (0 + 3)
	Total Credit Hours	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6811	Cardiac Life Support	4 (3 + 1)
BMT-6812	Paediatric Emergencies & Intensive Care	4 (3 + 1)
BMT-6813	Research Methodology	4 (3 + 1)
BMT-6814	Research Product (Thesis)	4 (0 + 4)
	Total	**16**

BS Clinical Laboratory Sciences

Introduction

The Laboratory Medical Technology Programme at the Faculty of Health and Medical Sciences is a four-year Bachelor of Sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any healthcare facility, as a laboratory medical technologist.

The goal of the course is to prepare Medical Laboratory Technologists who are highly competent in the knowledge, skills and professional demeanor consistent with local employer expectations and professional standards. The specific objectives of the Programme is to produce Medical Laboratory Technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in Medical laboratory Technologist role.
- Perform competently the tests routinely performed in clinical laboratories.
- Collect, label, identify, and log in specimens accurately,
- Master a working knowledge of the principles of the tests they are performing,
- Keep accurate and legible records and communicate reports clearly to fellow medical personnel,
- Correlate test results in order to confirm them.
- Maintain accuracy in the performance of tests and eliminate error through recognizing irregularities and making corrections
- Demonstrate and explain routine procedures to others,
- Take responsibility for their own work and organize their work to make the most efficient use of time,
- Adapt well to various work situations,
- Maintain the confidentiality of patient results,
- Cooperate with their coworkers and all members of the medical team.
- Perform efficiently under stress,
- Participate in professional organizations in their specialty,

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified Medical Lab Technologist. In this regard, the curriculum meets international standards for certification and ensures that students masters world-class performance competencies.

Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in Medical Laboratory

Technology is awarded when the student accumulates a total of 130 credits. In the fourth study year students are required to complete an eight weeks practicum of Medical Laboratory technology in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (2 + 1)
BMT-4302	Pharmacology - I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (2 + 1)
BMT-4402	Critical Care - II	3 (2 + 1)
BMT-4403	Emergency Care-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5581	Cytology & Cytopathology	3 (2 + 1)
BMT-5582	Blood Transfusion	3 (2 + 1)
BMT-5583	Clinical Virology & Immunology	3 (2 + 1)
BMT-5584	Essentials of Hematology-I	3 (2 + 1)
BMT-5585	Clinical Biochemistry - I	3 (2 + 1)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5681	Cell and Molecular Biology Techniques	2 (2 + 0)
BMT-5682	Molecular Biology Laboratory Course	3 (2 + 1)
BMT-5683	Essentials of Hematology-II	3 (2 + 1)
BMT-5684	Clinical Biochemistry - II	3 (2 + 1)
BMT-5685	Fundamentals of Infectious Diseases	2 (2 + 0)
BMT-5686	Principles of Genetics	2 (2 + 0)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6781	Clinical Endocrinology	3 (2 + 1)
BMT-6782	Laboratory Methods in Immunology and Virology	3 (2 + 1)
BMT-6783	Research Methodology	3 (2 + 1)
BMT-6785	Introduction to Bio Medical Ethics	3 (3 + 0)
BMT-6786	Laboratory Sciences Standards & Quality Assurance	3 (2 + 1)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6881	Clinical Laboratory Management	3 (2 + 1)
BMT-6882	Forensic Toxicology and Forensic Molecular Biology	4 (3 + 1)
BMT-6883	Clinical Practicum	3 (0 + 3)
BMT-6884	Body Fluids Analysis	3 (2 + 1)
BMT-6885	Project	3 (0 + 3)
	Total	**16**

BS Physiotherapy & Rehabilitation Sciences

Introduction

The Physical Therapy Technology Programme at the Faculty of Health and Medical Sciences is a four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any health care setting, hospital, specialized centre or free standing facility, as a member of the physical therapy team.

The goal of the Programme is to prepare physical therapy technologists who are highly competent in the knowledge, skills and professional demeanour consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce physical therapy technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in an physical therapy technologist role,
- Perform and document an initial exam, evaluating data to identify problems and assist in determining a diagnosis prior to intervention.
- Prepare and carry out individually designed Programs of physical treatment to maintain, improve or restore physical functioning, alleviate pain and prevent physical dysfunction in patients.
- Record prognosis, treatment, response, and progress in patient's chart or enter information into computer.
- Identify and document goals, anticipated progress and plans for reevaluation.
- Administer manual exercises, massage or traction to help relieve pain, increase patient strength, or decrease or prevent deformity or crippling.
- Evaluate effects of treatment at various stages and adjust treatments to achieve maximum benefit.
- Test and measure patient's strength, motor development and function, sensory perception, functional capacity, and respiratory and circulatory efficiency and record data.
- Educate patient and family in treatment procedures to be continued at home.
- Confer with the patient, medical practitioners and appropriate others to explain, implement and assess the intervention Programme.
- Obtain patients' informed consent to proposed interventions.
- Demonstrate basic understanding of physical therapy policies and procedures.
- Perform goniometric measurements in head, neck, trunk, pelvis, hip and extremities.
- Perform or assist with any type of transfers while practicing good body mechanics.
- Perform and observe sterile techniques
- Conduct therapeutic exercise including stroke rehabilitation, spinal cord injury rehabilitation, scoliosis, and amputee rehabilitation techniques.
- Perform and practice stroke rehabilitation technique.
- Perform and practice NDT techniques. Perform and practice PNF techniques.
- Perform spinal cord injury rehabilitation.
- Perform physical therapy management of an amputee patient.
- Identify architectural barriers and modifications to minimize/alleviate barriers
- Apply TENS unit.

- Identify postural abnormalities.
- Apply the peripheral vascular compression unit, using appropriate pressure and time parameters.
- Administer therapeutic electrical stimulation, using appropriate parameters, mode of stimulation, and electrode placement.
- Perform cardiac rehabilitation techniques.
- Perform NDT techniques designed for pediatric patients.
- Discharge patient from physical therapy when the physical therapist certifies that goals or projected outcomes have been attained and provide for appropriate follow-up care.
- Provide information to the patient about the proposed intervention, its material risks and expected benefits and any reasonable alternatives.
- Inform patients when diagnosis reveals findings outside physical therapy and refer to appropriate practitioners.
- Provide educational information about physical therapy and physical therapists, injury prevention, ergonomics and ways to promote health.
- Refer clients to community resources and services.
- Administer treatment involving application of physical agents, using equipment, moist packs, ultraviolet and infrared lamps, and ultrasound machines.
- Evaluate, fit, and adjust prosthetic and orthotic devices and recommend modification to orthotist.
- Coordinate group rehabilitation activities.
- Construct, maintain and repair medical supportive devices.

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified physical therapy technologist.

In this regard, the curriculum meets international standards in physical therapy technology certification and ensures that students masters world-class performance competencies.

Subjects are taught over six semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in Physical Therapy
Technology is awarded when the student accumulates a total of 118 credits.

In the fourth study year students are required to complete an eight weeks practicum of physical therapy technology in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (3 + 0)
BMT-4302	Pharmacology - I	3 (3 + 0)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (3 + 0)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (3 + 0)
BMT-4402	Critical Care - II	3 (3 + 0)
BMT-4403	Emergency Care-II	3 (2 + 1)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5661	Advanced Anatomy	4 (3 + 1)
BMT-5662	Medicaine-I	4 (3 + 1)
BMT-5663	Basic Human Biomechanics	4 (3 + 1)
BMT-5664	Introduction to Biomedical Ethics	3 (3 + 0)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5661	Electro Therapy & Actinotherapy	4 (3 + 1)
BMT-5662	Therapeutic Exercises & Techniques	4 (3 + 1)
BMT-5663	Special Education & Sociology	4 (3 + 1)
BMT-5664	Clinical Practicum	3 (0 + 3)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6761	Surgery-I	4 (3 + 1)
BMT-6762	Physiotherapy Treatment-I	4 (3 + 1)
BMT-6763	Medicaine-II	4 (3 + 1)
BMT-6764	Research Methodology	3 (3 + 0)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6871	Surgery-II	4 (3 + 1)
BMT-6872	Physiotherapy Treatment-II	4 (3 + 1)
BMT-6873	Kinesiology & Muscular Testing	4 (3 + 1)
BMT-6874	Research Project (Thesis)	4 (0 + 4)
	Total	**16**

BS Diagnostic Radiology & Imaging Sciences

Introduction

The Radiographic Technology at the Faculty of Health and Medical Sciences is a four-year Bachelor of Sciences degree Programme that prepares students to practice as entry-level radiographers in the field of medical imaging. Concurrent clinical experience is provided in major teaching hospitals of the faculty. Graduates may continue their education in pursuit of a bachelor's degree in imaging technology.

The goal of the course is to prepare radiologic technicians who are highly competent in the knowledge, skills and professional demean our consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce radiology technicians with professional competencies in five main areas: 1) imaging procedures; 2) Radiation health and safety; 3) patient care; 4) maintenance of radiographic and processing; and 5) professional practice. These competencies are described in details elsewhere in this document.

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified radiologic technicians.

The curriculum includes the sciences of human anatomy and physiology as well as applied health care fundamentals of patients that all health technicians must know. It also fosters the students' skills of communication, interpersonal relation, team work and adaptability to working environment. Further, the curriculum places special emphasis on improving knowledge in English language and computer literacy necessary for further self-guided learning, knowledge acquisition and use of modern technology.

With respect to radiological sciences, the curriculum covers the basic sciences of radiology, imaging equipment, imaging procedures and safety and protection from ionized radiation. The curriculum incorporates also seven clinical radiology modules to ensure that students master the practical skills necessary for applying theoretical knowledge in practice.

The curriculum meets international standards in imaging technology certification and ensures that students masters world-class performance competencies.

Subjects are taught over six semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in radiographic technology is awarded when the student accumulates a total of 136 credits. In the fourth study year students are required to complete an 8 weeks practicum of radiography in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (3 + 0)
BMT-4302	Pharmacology - I	3 (3 + 0)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (3 + 0)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (3 + 0)
BMT-4402	Critical Care - II	3 (3 + 0)
BMT-4403	Emergency Care-II	3 (2 + 1)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5541	Diagnostic Procedures in Nuclear Medicine	3 (2 + 1)
BMT-5542	Fluoroscopy Procedures	3 (2 + 1)
BMT-5543	Ultrasonography	3 (2 + 1)
BMT-5544	Mammography	3 (2 + 1)
BMT-5545	Radiation Physics & Radiation Safety	3 (2 + 1)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5641	Radiation Oncology Techniques & Radiation Technology Procedures	3 (2 + 1)
BMT-5642	PACS in Radiology	3 (2 + 1)
BMT-5643	Fundamentals of Infectious Disease	3 (2 + 1)
BMT-5644	Radiographic Instruments	3 (2 + 1)
BMT-5645	Radiation Technology Procedures	3 (2 + 1)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6741	Computerized Tomography	3 (2 + 1)
BMT-6742	Magnetic Resonance Imaging	3 (2 + 1)
BMT-6743	X-Ray Technique and Contrast Media	3 (2 + 1)
BMT-6744	Image Intensifier & Fluroscopy	3 (2 + 1)
BMT-6745	Introduction to Biomedical Ethics	3 (3 + 0)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6841	Angiography	3 (2 + 1)
BMT-6842	Management of Diagnostic Imaging	3 (2 + 1)
BMT-6844	Imaging Processing & Film Critique	3 (2 + 1)
BMT-6845	Research Project	3 (1 + 2)
BMT-6846	Research Methodology	4 (3 + 1)
	Total	**16**

BS Surgical & Operation Theatre Sciences

Introduction

The Surgical Technology Programme at the Faculty of Health and Medical Sciences is a Four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any surgical setting, hospital operating room or free standing healthcare facility, as a member of the surgical team.

The goal of the course is to prepare surgical technologists who are highly competent in the knowledge, skills and professional demeanour consistent with local employer expectations and professional standards. The specific objective of the Programme is to produce surgical technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in a surgical technologist role,
- Apply basic scientific principles related to anatomy, physiology and pathophysiology for safe transfer, positioning, prepping and draping of surgical patients,
- Describe actions and uses of anesthetic and pharmacological agents in the care of surgical patients,
- Apply knowledge of interpersonal skills and communications relative to procedures and protocols from a surgical technologist's perspective when working with patients, patients' significant others, colleagues and other members of a healthcare team, as well as other members of the community,
- Apply principles of asepsis in an operating room setting and
- Demonstrate appropriate use and care of basic and specialty instruments and supplies

The curriculum is designed to prepare students to work anywhere in Pakistan as highly qualified radiologic technicians. In this regard, the curriculum meets international standards in surgical technology certification and ensures that students masters world-class performance competencies.

Subjects are taught over eight semesters, the duration of each semester is 20 weeks. A maximum of 18 credits can be obtained in a single semester. The Bachelor of Science in surgical technology is awarded when the student accumulates a total of 127 credits.

In the fourth study year students are required to complete an eight weeks practicum of surgical technology in an accredited institution, attend particular honors seminars, undertake independent research and write an honors thesis in a major subject.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pathology - II	3 (3 + 0)
BMT-4302	Pharmacology - I	3 (3 + 0)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care - I	3 (3 + 0)
BMT-4305	Arabic	3 (3 + 0)
	Total	**15**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (3 + 0)
BMT-4402	Critical Care - II	3 (3 + 0)
BMT-4403	Emergency Care-II	3 (2 + 1)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
	Total	**16**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5551	Sterilization and Disinfection	4 (3 + 1)
BMT-5552	Operation Theatre Equipment & Instruments-I	3 (2 + 1)
BMT-5553	Instruments for Emergency Procedures	4 (3 + 1)
BMT-5554	Operation Theatre Technology-I	4 (3 + 1)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5651	Instruments for Elective Procedure	3 (2 + 1)
BMT-5652	Operation Theatre Equipment & Instruments-II	3 (2 + 1)
BMT-5654	Suture Materials	3 (2 + 1)
BMT-5655	Fluids	3 (2 + 1)
BMT-5656	Infection Control	3 (2 + 1)
	Total	**15**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6751	Operation Theatre Technology-II	4 (3 + 1)
BMT-6752	Medical & Surgical Emergencies in OT	4 (3 + 1)
BMT-5653	Antiseptic Solutions	4 (3 + 1)
BMT-5654	Clinical Practicum	3 (0 + 3)
	Total	**15**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6851	Medical Statistics & Research Methods	3 (2 + 1)
BMT-6852	Research Project (Thesis)	3 (0 + 3)
BMT-6853	Clinical Practicum	3 (0 + 3)
BMT-6854	Pre & Post-operative Assessment and Management	4 (3 + 1)
BMT-6855	Introduction to Biomedical Ethics	3 (3 + 0)
	Total	**16**

BS Optometery and Vision Sciences

General Information

Becoming An Optometrist

The BS Optometry and Vision Sciences Programme at the Faculty of Health and Medical Sciences is a four-year bachelor of sciences degree Programme that offers the student an opportunity to develop the technical ability, knowledge and skills required for entry level employment in any favorable working conditions, regular hours, and a minimum of emergency calls, optometry offers many career options and great freedom in choosing a location to live and practice. Optometrists have the satisfaction of helping their patients care for the most highly valued human sense-sight. All optometrists provide general eye and vision care. With favorable working conditions, regular hours, and a minimum of emergency calls, optometry offers many career options and great freedom in choosing a location to live and practice. Today, the profession of optometry involves much more than just prescribing and fitting glasses and contact lenses. BS Optometry is trained to evaluate any patient's visual condition and to determine the best treatment for that condition. They are viewed more and more as primary care providers for patients seeking ocular or visual care.
What Optometrists do Conditions typically cared for by Doctors of Optometry are:

- Corneal abrasions, ulcers, or infections; glaucoma; and other eye diseases that require treatment with pharmaceutical agents, management and referral when necessary
- visual skill problems such as the inability to move, align, fixate and focus the ocular mechanism in such tasks as reading, driving, computer use, and in tasks related to hobbies and employment
- The inability to properly process and interpret information requiring perception, visualization, and retention, such as that needed for most learning tasks
- Poor vision-body coordination as one interacts with the environment as in sports, occupations, and other everyday activities requiring spatial judgments
- Clarity problems such as simple near- or far-sightedness or complications due to the aging process, disease, accident or malfunction.

Additionally, optometrists diagnose, manage, and refer systemic diseases such as hypertension, diabetes, and others that are often first detected in the eye; provide pre- and post-surgical care for cataracts, refractive laser treatment, retinal problems, and other conditions that require pre- and post-surgical care, and encourage preventative measures such as monitoring infants' and children's visual development, evaluating job/school/hobby related tasks, and promoting nutrition and hygiene education.
The day-to-day tasks of most Doctors of Optometry can be quite varied and challenging. Patient interaction can

range from performing routine visual examinations, removing a foreign body from the cornea, evaluating a child who is not performing well in school, fitting a contact lens patient, prescribing medication for glaucoma, providing follow-up care after refractive surgery, and fitting a legally blind patient with a magnifying device that will enable the patient to read.

Career Options

Most optometrists are in general practice, while others are involved in specialty practice such as cornea and contact lenses, geriatrics, low vision services, environmental and occupational vision, pediatrics, sports vision, vision therapy, and ocular disease and special testing. Still others choose to enter optometric education and/or perform scientific research. Optometrists practice in rural communities, suburban areas, and large metropolitan cities. Some practice alone while others are in group practices. Some optometrists practice with other health care professionals in multidisciplinary settings. Other optometrists choose a career in the military, public health, or other government service. Opportunities also exist to practice in hospitals, clinics, teaching institutions, community health centers, the ophthalmic industry, HMOs and retail optical settings.

1st Semester

Course Code	Course Title	Credit Hrs
BMT-3101	Anatomy- I	3 (2 + 1)
BMT-3102	Physiology - I	3 (2 + 1)
BMT-3103	Biochemistry - I	3 (2 + 1)
BMT-3104	Microbiology - I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
	Total	**18**

2nd Semester

Course Code	Course Title	Credit Hrs
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy- II	3 (2 + 1)
BMT-3203	Physiology - II	3 (2 + 1)
BMT-3204	Biochemistry - II	3 (2 + 1)
BMT-3205	Microbiology - II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
	Total	**18**

3rd Semester

Course Code	Course Title	Credit Hrs
BMT-4301	Pharmacology	3 (3 + 0)
BMT-4391	Ocular Anatomy	3 (2 + 1)
BMT-4392	Ocular Physiology	3 (2 + 1)
BMT-4393	Ocular Pathology	3 (2 + 1)
BMT-4394	Public and preventive health	2 (2 + 0)
BMT-4395	Basic clinical functions and skills	2 (2 + 0)
	Total	**16**

4th Semester

Course Code	Course Title	Credit Hrs
BMT-4401	Pharmacology - II	3 (3 + 0)
BMT-4491	Basic Optics and Refraction	2 (2 + 0)
BMT-4492	Geometrical Optics	2 (2 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (3 + 0)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
BMT-4493	Basic Dispensing Optics	2 (2 + 0)
BMT-4494	Physical Optics	2 (2 + 0)
	Total	**18**

5th Semester

Course Code	Course Title	Credit Hrs
BMT-5591	Primary Health Care & Primary Eye Care	2 (2 + 0)
BMT-5592	Overview of Blindness and National Program for Prevention & Control of Blindness in Pakistan	1 (1 + 0)
BMT-5593	Advanced Refraction & Retinoscopy	2 (2 + 0)
BMT-5594	Practical Retinoscopy	2 (2 + 0)
BMT-5595	Ophthalmic Instruments & their Maintenance	2 (2 + 0)
BMT-5596	Low Vision	2 (2 + 0)
BMT-5597	Advance Visual Optics	2 (2 + 0)
BMT-5598	Advance Visual Functions	2 (2 + 0)
	Total	**15**

6th Semester

Course Code	Course Title	Credit Hrs
BMT-5691	Orthoptics Techniques	2 (2 + 0)
BMT-5692	Application of Advanced Visual Functions	2 (2 + 0)
BMT-5693	Clinical Optometry	2 (2 + 0)
BMT-5694	Dispensing Optics	2 (2 + 0)
BMT-5695	Avoidable & Unavoidable Causes of Blindness	2 (2 + 0)
BMT-5696	Ocular Motility & Binocular Single Vision	2 (2 + 0)
BMT-5697	Contact Lenses	2 (2 + 0)
BMT-5698	OPD Training in Optometry	2 (2 + 0)
	Total	**16**

7th Semester

Course Code	Course Title	Credit Hrs
BMT-6791	Advanced Diseases of Eye & Their Management	2 (2 + 0)
BMT-6792	Visual Sciences 1,2,3,4	2 (2 + 0)
BMT-6793	Contact Lenses	2 (2 + 0)
BMT-6794	Clinical Orthoptics	2 (2 + 0)
BMT-6795	Dispensing Optics	2 (2 + 0)
BMT-6796	Applied Statistics, Research Methodology & Project	3 (3 + 0)
BMT-6797	Introduction to Bio Medical Ethics	3 (3 + 0)
BMT-6798	OPD Training in Orthoptics	2 (2 + 0)
	Total	**18**

8th Semester

Course Code	Course Title	Credit Hrs
BMT-6891	Review of Basics of Vision and Optics	2 (2 + 0)
BMT-6892	Visual Sciences 1,2,3,4	2 (2 + 0)
BMT-6893	Binocular Vision & its Clinical Application	2 (2 + 0)
BMT-6894	Clinical Orthoptics	2 (2 + 0)
BMT-6895	Dispensing Optics	2 (2 + 0)
BMT-6896	OPD Training in Orthoptics	2 (2 + 0)
BMT-6897	Bachelor Thesis	3 (3 + 0)
	Total	**15**

Admission

To ensure and maintain the quality of the learning process, the faculty of health and medical sciences has limited the total intake of students to 51 seats per year, including reserved seats as per rules in University of AJK. Therefore, admission is very competitive.

Applicants-whose application files are complete-are evaluated by the Admission Committee through an objective process encompassing:

- Merit assessment matrix combining educational attainment, work experience and personal qualities,
- Entry test assessing background knowledge, skills and attitude of applicants,
- Personal interview with the admission committee.

If applicants obtain equal scores, the following categories shall be preferred:

- Candidates with special needs,
- Women applicants,
- Younger applicants.
- Residents of AJK or holders of Kashmir refugee certificate.

The Admissions Committee reviews every completed application, including:

- Evidence of interest and intent in the form a letter of application, describing motivation , interests and personal directions;
- Evidence of past academic performance achieved at a properly accredited institution. For this course, applicants must hold Higher Secondary School Certificate (HSSC) (at least second division). Candidates holding Secondary School Certificate (SSC) in science (at least second division) plus a technician diploma and two years of professional experience may be considered for admission.
- Evidence of academic potential in the form of standardized test scores taken at the Faculty of Health Sciences within two weeks from the deadline for application to the course.
- Evidence of external evaluation of the candidate in the form of letters of reference at least one of which must comment on the applicant's potential as a student and health professional.
- Evidence of fluency in English in the form of an English proficiency test taken at the faculty of health and medical sciences within two weeks after the deadline for application. ILTES and TOEFL certificates shall be considered.
- Evidence of computer literacy in the form of standardized test taken within two weeks after the deadline for application.
- Other evidence is welcome including information about the applicant's professional and life experience and potential contribution to diversity; and compatibility with faculty expertise and Programme directions.

Criminal background check: This means that applicants for admission may need to go through a criminal background.

Doctor of Physical Therapy (DPT)

Introduction

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 evaluation, assessment and treatment of musculoskeletal, Neurological, Cardio-Vascular and Respiratory systems' functional disorders including symptoms of pain, edema, physiological, structural and psychosomatic ailments. It also 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.

Goals of the Program

The purpose of the Doctor of Physical Therapy Program (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.

Objectives of the Program

Graduates of the Doctor of Physical Therapy Program 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.
2. 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.
3. 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.
4. Engage in reflective practice through sound clinical decision making, critical self-assessment and commitment to lifelong learning.
5. 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.

6. 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.
7. Demonstrate leadership, management, and communication skills to effectively participate in physical therapy practice and the health care team.
8. Incorporate and demonstrate positive attitudes and behaviors to all persons.
9. Demonstrate the professional and social skills to adapt to changing health care environments to effectively provide physical therapy care.

*Scheme of Studies For 5 Years
Doctor of Physical Therapy (DPT) Program

Semester/year	Name of Subject	Credits
	FIRST PROFESSIONAL YEAR	
FIRST	ANATOMY -I	4(3-1)
	PHYSIOLOGY-I	3(2-1)
	KINESIOLOGY-I	3(2-1)
	ENGLISH-I	3(3-0)
	PAKISTAN STUDIES	2(2-0)
	BIOSTATISTICS-I	3(3-0)
		18
SECOND	ANATOMY -II	4(3-1)
	PHYSIOLOGY-II	3(2-1)
	KINESIOLOGY-II	3(2-1)

Semester/year	Name of Subject	Credits
	ENGLISH-II	3(3-0)
	ISLAMIC STUDIES / ETHICS	2(2-0)
	BIOSTATISTICS-II/ UNIVERSITY OPTIONAL	3(3-0)
		18
SECOND PROFESSIONAL YEAR		
THIRD	ENGLISH-III	3(3-0)
	INTRODUCTION TO COMPUTER	3(2-1)
	ANATOMY -III	3(2-1)
	PHYSIOLOGY-III	3(2-1)
	BIOMECHANICS & ERGONOMICS-I	3(3-0)
	BIOCHEMISTRY & GENETICS I	2(2-0)
		17
FOURTH	ANATOMY -IV	3(2-1)
	BIOMECHANICS & ERGONOMICS-II	3(2-1)
	BEHAVIORAL SCIENCES (Psychiatry & Psychology)	3(3-0)
	BIOCHEMISTRY& GENETICS II	2(2-0)
	EXERCISE PHYSIOLOGY-	3(3-0)
	MEDICAL PHYSICS	3(2-1)
		17
THIRD PROFESSIONAL YEAR		
FIFTH	PATHOLOGY & MICROBIOLOGY I	2(2-0)
	PHARMACOLOGY I	3(3-0)
	PHYSICAL AGENTS & ELECTROTHERAPY -I	3(2-1)
	THERAPEUTIC EXERCISES & TECHNIQUES	3(2-1)
	SOCIOLOGY	2(2-0)
	HEALTH & WELLNESS	2(2-0)
	SUPERVISED CLINICAL PRACTICE I	3(0-3)
		18

Semester/year	Name of Subject	Credits
SIXTH	PATHOLOGY & MICROBIOLOGY II	3(2-1)
	PHARMACOLOGY II	2(2-0)
	PHYSICAL AGENTS & ELECTROTHERAPY -II	3(2-1)
	MANUAL THERAPY	3(2-1)
	TEACHING METHODOLOGY & COMMUNITY MEDICINE	3(3-0)
	SUPERVISED CLINICAL PRACTICE II	3(0-3)
		17
FOURTH PROFESSIONAL YEAR		
SEVENTH	MEDICINE I	3(3-0)
	SURGERY I	3(3-0)
	RADIOLOGY & DIAGNOSTIC IMAGING -	3(2-1)
	MUSCULOSKELETAL PHYSICAL THERAPY	3(2-1)
	HUMAN GROWTH, DEVELOPMENT &	2(2-0)
	COMMUNITY BASED REHABILITATION	
	SUPERVISED CLINICAL PRACTICE III	3(0-3)
		17
EIGHT	MEDICINE II	3(3-0)
	SURGERY II	3(3-0)
	NEUROLOGICAL PHYSICAL THERAPY	3(2-1)
	EVIDENCE BASED PRACTICE	3(2-1)
	PROSTHETICS & ORTHOTICS	2(2-0)
	SUPERVISED CLINICAL PRACTICE IV	3(0-3)
		17
FIFTH PROFESSIONAL YEAR		
NINTH	CARDIOPULMONARY PHYSICAL THERAPY	3(2-1)
	EMERGENCY PROCEDURES AND PRIMARY CARE	2(2-0)
	CLINICAL DECISION MAKING & DIFFERENTIAL DIAGNOSIS	3(3-0)
	SCIENTIFIC INQUIRY & RESEARCH METHODOLOGY	3(2-1)

Semester/year	Name of Subject	Credits
	PROFESSIONAL PRACTICE (LAWS , ETHICS, ADMINISTRATION)	2(2-0)
	INTEGUMENTRY PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE V	3(0-3)
		18
TENTH	GYNAECOLOGY & OBSTETRICS PHYSICAL THERAPY	2(2-0)
	PAEDIATRIC PHYSICAL THERAPY	2(2-0)
	GERONTOLOGY AND GERIATRIC PHYSICAL THERAPY	2(2-0)
	SPORTS PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE VI	4(0-4)
	RESEARCH PROJECT	6
		18
	TOTAL CREDITS	**175**

Note *

This scheme of curriculum is also applicable to annual system; in which two consecutive semesters will be considered as one professional year.

After getting enrolled in the Institute of Allied Health Sciences, University of Azad Jammu and Kashmir, I got a chance to groom my educational and social skills. I learned to be a diligent and dedicated student under the administration of such a talented faculty. I appreciate the hard work and efforts of the Institute, administration, faculty and students.

Shakeel Khan Durani,
BS PT, 7th Semester,

I would simply convey my message to all, that AJK University is the Institute where I learnt to be punctual, participative and noble person. My learning skills got improved over here. My capacities to learn and get educated groomed over here. I found means to explore my hidden skills in this praiseworthy institute. I feel
honor to be a part of AJK University. It offers the students to become educated and skillful members of the society.

Rubab Anjum Rathore,
BS E M, 5th Semester

Being a student of Allied Health Sciences, I feel great satisfaction and pride for this opportunity. Our qualified teachers are very kind, helpful and determined towards academic uplift of the students. We have almost all the required facilities, which a well-equipped department should have. Beside academic excellence, a rich variety of co-curricular activities are regularly arranged to enhance our potential. I am really proud of my University and enjoying my time here.

Umair Khan,
BS Emergency Medical Technology, 5th Semester,

Institute of Allied Health Sciences is a good institute of UAJK with cooperative faculty having a broad vision, sharing their knowledge expertly. Studying at UAJK is a great pleasure for me. The disciplined and conducive environment enhanced my learning capability. I have no words to express my love towards my University. This whole time that I have spent in the University is the golden phase of my life.

Ayesha Pervaiz,
BS Optometry, 7th Semester,

Department of Public Health

Dear Students

I welcome you whole heartedly to the Faculty of Health and Medical Sciences at the University of Azad Jammu and Kashmir. Public Health is concerned with generating knowledge about preventing disease, promoting health and prolonging life. Faculty of Health and Medical Sciences is the first ever public sector effort of the state of Jammu and Kashmir to offer and launch two year MPH program.

Our two years MPH program is designed to provide excellence in teaching of various subjects regarding preventive health sciences, environmental and occupational health hazards, planning and policy making and statistical methods and concepts with special emphasis on practical application of the knowledge and methods in Public Health and clinical settings. It is oriented towards enabling the student to meet a set of international technical competencies and employability criteria. Our graduates can compete for jobs nationally and internationally. In doing so, we shifted the emphasis in the curriculum design from general theoretical inputs to place it on competency and outcome based programming.

We have designed the program in a way that offers you the most interactive, informal and encouraging environment conducive to learning. You will be encouraged to think critically, to seek knowledge yourself and to translate theory into practice. Our curriculum is based on the art and science of helping you learn. The principles of our educational philosophy are that you are self-directed learners, have rich experiences and knowledge on which to draw, desire to learn to better handle real-life situations, and see education as a process that increases competence and leads to achievement of you full potential. Last but not least, every facility that makes you enjoy learning shall be at your disposal. I am confident that you will excel in this program and wish you all the best.

CHAIRMAN
Dr. Bashir-ur-Rehman
MBBS, MD, MCPS, FCPS
Ph: +92-5822 960436
E-mail: drbashirurrehman@gmail.com

Goal of the MPH Programme

The MPH programme offered by UAJK aims to improve the health status of the population, which is to be achieved by providing public health and health care professionals with a high quality postgraduate training programme in public health sciences.

Objectives of the MPH Programme

The graduates of the MPH programme are prepared to:

1. Solve health-related problems within the financial, sociocultural, environmental and political framework of Pakistan and its surrounding region.
2. Design, conduct, analyze and interpret the results of relevant studies, projects and programmes.
3. Initiate, plan, manage, monitor and evaluate interventions in the field of public health.
4. Communicate public health messages to diverse audience effectively.
5. Advocate sound public health policies and practices.

The Master of Science programme at UAJK provide experienced professionals with a thorough grounding in population-based approaches to health sector problem identification, investigation, analysis and managed response.

MPH Course

1. MPH Program Structure

1.1 Program Duration

The duration of MPH Program will be two years. The program will be having total of four (04) semesters. Each year there will be two semesters namely the Fall Semester (September to January) and the Spring Semester (February to June).

Each semester will be of 18 weeks duration that will be arranged as follows:

Week 1 - Week 8: Teaching and training
Week 9: Mid-term Exam
Week 10 - Week17: Teaching and Training
Week 18: Final Exam

1.2 Credit Hours

The MPH Program has 60 credit hours. A total of 54 credit hours are accumulated in three semesters and the fourth (final) encompassing six credit hours of thesis. Each module in 1-3 semesters will be of three (03) credit hours each culminating in a total of 18 credit hours. The fourth (final) semester encompassing thesis work will be of six (06) credit hours.

1.3 Medium of Instruction

The medium of instruction for all courses in the MPH program will be English.

1.4 Instructional Strategies

The instructional strategies include lectures, group discussions, tutorials, seminars, problem based learning, self-study, field work etc.

2. Semester Wise Distribution of Courses

The distribution of the courses in the four semesters is given in the following tables.

1st Semester

Course Code	Course Title	Credit Hrs
MPH 7101	Epidemiology Introduction to theory and practice	03
MPH 7102	Statistical Methods in Public Health	03
MPH 7103	Communicable & Non-Communicable Disease Control	03
MPH 7104	Technical Report Writing & Basic Communication Skills	03
MPH 7105	Computer Applications in Public Health	03
MPH 7106	Graduate Seminar	02
MPH 7107	Field Visit	01

2nd Semester

Course Code	Course Title	Credit Hrs
MPH 7201	Epidemiology - Application of theory & practice	03
MPH 7202	Nutrition	03
MPH 7203	Public Health Management and Policy	03
MPH 7204	Health Education & Promotion	03
MPH 7205	Occupational Health & Environmental Hazards	03
MPH 7206	Graduate Seminar	01
MPH 7207	Field Visit	02

3rd Semester

Course Code	Course Title	Credit Hrs
MPH 7301	Hospital Management	03
MPH 7302	Community Interventions in Reproductive Health	03
MPH 7303	Primary Health Care	03
MPH 7304	Research & Ethics	03
MPH 7305	Project Management	03
MPH 7306	Health Economics	03

4th Semester

Course Code	Course Title	Credit Hrs
MPH 7401	MPH Thesis	06
	Total	**60**

3. Admission Criteria

3.1 Eligibility Criteria:

a. Sixteen years (16 years) of education in the following fields; MBBS, MD, BDS or equivalent qualification (Recognized by PMDC), BSc Nursing (Recognized by PNC), BSc Paramedics, BSc Vision Sciences, BSc Physiotherapy, BSc Human Nutrition, Pharmacy (Pharm-B, Pharm-D).

b. In service candidates must apply through proper channel with NOC from their respective departments/ institutions.

3.2 Allocation of Seats

Total seats: 25 seats

a. Open Merit (AJK, Punjab, Khyber Pakhtunkhwa/ FATA/ PATA): 22 seats

b. Gilgit Baltistan : 02 seats

c. Disables (Special Seat): 01 seat

If the candidates from Gilgit Baltistan and Disables do not fill their respective reserved seats, these remaining vacant seats will be converted to open merit seats.

The UAJK is blessing for us. I love my University. Department of Public Health is emerging department of UAJK. It is stimulating and thoughts provoking environment draws out the hidden abilities of the learners.
We the Public Health professionals initiate, plan, manage, monitor and evaluate the interventions in the field of Public Health to raise the health status of the community.

Sadaf Baig, MPH, 3rd Semester

The Public Health program aims to improve the health status of the population by providing health care professionals with high quality Postgraduate training in Public Health sciences.
It helps to solve health related programs within financial, Socio-cultural and environmental framework of Pakistan's region. I love department of Public Health, because it made my life and personality worthwhile.

Zahid Wali, MPH, 3rd Semester

NEELUM CAMPUS

NEELUM VALLEY: A Brief Overview

About 240 kilometers long picturesque Neelum Valley is situated to the North and North East of Muzaffarabad. Running parallel to the Kaghan Valley, it is separated from it by snow covered peaks, over 4000 meters above sea level. The district Neelum happens to be the largest district of AJK with an area of 3621 sq. kms; spread from Noseri to the Gurez valley in Taobut. Excellent scenic beauty, panoramic view, towering hills on both sides of the noisy Neelum river, flourishing green forests, streams, high altitude lakes and attractive surroundings make the valley an ideal tourist resort. The area is also suitable for mountain tourism. A part of Nanga Parbat Massif falls in this area which is dominated by the "Sarvali Peak" (6326 meters) the highest mountain in Azad Kashmir. Moreover like the Kaghan Valley in the Khyber Pakhtunkhwa, Neelum is famous for fishing and angling activities in the river Neelum and the Jaghran Nullah which are stocked with trout fish. A fair weather road opens the valley for tourists up to Kel (155 Kilometers from Muzaffarabad). Buses ply daily on this route and accommodation facilities are also available at places of tourist attraction.

Athmuqam

Athmuqam is situated at a height of 1371 meters above sea level and is the district headquarter of the Neelum district. It is an attractive place known for its variety of fruits. All necessary basic facilities viz. bazaars and markets, post offices, banks, hospitals, hotels and telephone exchanges are available in the town. Athmuqam leads further to greater sites of tourist attraction such as Keran/Neelum, Dowarian, Lawat, Sharda, Surgan, Kel, Shunter, Aran Kel, Helmet, Gurez and Taobut.

Keran & Neelum

Neelum is located at a distance of about 9 km from Athmuqam town on the right bank of the river Neelum at the altitude of 1524 meters above sea level. With its fascinating sceneries the panoramic lush green valley abounds in fruit and wildlife. The picturesque village facing the Line of Control (LoC) offers a captivating view to the beholder.

Dawarian

Dawarian is about 22 kms from Athmuqam. This lush hilly village also leads to a well-known lake at the boundary of Dawarian and Kaghan Valley. This village has high literacy rate of around 80%. The panoramic lush green valley is rich in fruit and wildlife.

Sharda

Sharda is a splendid green valley spread around the river Neelum at an elevation of 1981meters above sea level. Shardi and Nardi are two mountain peaks overlooking the valley, reputedly named after a legendary princess Sharda. It has a captivating landscape with numerous springs and hillsides covered with trees. Sharda is also famous for centuries old (5000 B.C) ruins of Buddhist University offering great prospects to historians and archaeologists.

Kel

Kel is a small town at a height of 2097meters. This is another picturesque place in the Neelum Valley. It further leads to other marvelous sites such as, Aran Kel, Shounter Pass, Helmet, Gurez Valley and Taobut. It also borders the region of Gilgit-Baltistan (G&B).

The Neelum Campus at Athmuqam

The Neelum campus was established in July 2013. The establishment of the Campus is directed at providing higher education to the people of the Neelum Valley, so as to bring them into the main stream through education, to inculcate in them the spirit of global citizenship and to prepare them to harmonize under global socio-cultural diversity. The Campus provides ample opportunities of higher education to the students of Neelum Valley in particular. It aims at equipping the students with teachings and research in the fields of sciences, technologies and humanities. The campus envisions to make the Neelum Valley an educational hub besides its being a tourists destination of choice and to revive the old monumental tradition of old (5000 B.C) great Buddhist University at Sharda as it had been famous for centuries. The Campus has a well-furnished building with a computer laboratory, library, and a conference hall. The campus has the hostel facility for non-local students. A spacious play ground is available for sports besides an indoor hall for indoor games. It is hoped that the Neelum campus of UAJK will prove to be a great contributing factor in the socio-economic uplift of the area.

Dear Students

My warmest welcome to you all to the Neelum Campus, University of Azad Jammu and Kashmir Athmuqam - where "Innovation meets application". You are all destined to do amazing things here.

Our motto is "To learn and to apply, for the benefit of mankind". We emphasize high value-added education with a balanced approach, leading to the development of professionally competent all-round students.

The campus was established in July 2013 and is directed at providing higher education to the people of the Neelum Valley, bringing them into main stream education so as to inculcate in them the spirit of global citizen and prepare them to accept others points of view, convince others to accommodate their views.

At present, the Neelum campus offers undergraduate programmes in Computer Sciences & Information Technology, Geology and English. In future, we hope that more courses will be started in the campus according to the requirement of the area.

Being Director, I extend my all possible felicitations to the new comers undergraduate students. Together, our topmost priority is to provide you with the necessary resources and support services to complement and supplement what you will learn in the classroom. We aim to help you realize your strength, fulfill your aspiration, and achieve your full potentials by providing academic support and non-academic development opportunities outside your academic curriculum.

Education is a lifelong process. A good education is more than just academic successes. We urge you to find out more about our services, participate in the programmes we offer and experience, first-hand for yourselves, an "education outside the classroom"!

Again, I would like to take this opportunity to welcome you all to Neelum Campus. I wish you every success in your years here at the university!

Sincerely,

Director Neelum Campus

DIRECTOR
Muhammad Saleem
M.Sc. (Pak)
Phone: +92 5821 960005
Fax: +92 5821 960006
Email: dir.neelum@ajku.edu.pk

FACULTY

Mr. Saqib Khushhal, M.Phil. (Pak)
Mr. Anees Ahmed Awan, Ph.D. (Pak)

VISITING FACULTY

Mr. Toseef Ahmed Abbasi, M.Phil. (Pak)
Mr. Adeel Ashraf, M.Phil. (Pak)
Mr. Khawaja Ghulam Rasool, MA (Pak)
Mr. Saqib Iqbal, M.Phil. (Pak)
Mr. Muhammad Zubair, M.Sc. (Pak)
Mr. Mubashir Gillani, M.Sc.(Pak)
Mr. Rizwan-ul-hussan, MA (Pak)
Mr. Zia Sheikh, M.Phil.(Pak)

Computer Science & Information Technology

Introduction of DCS & IT

The Department of Computer Sciences and Information Technology at Neelum campus was started in 2013 with the start of this new campus. For Computer Scientists the current era is full of excitement and challenges as the discipline is now widely recognized to be an essential source of tools and techniques for advancements in nearly all spheres of human endeavor. Computer Science is a fascinating subject, and one that is now indispensable in our lives.

Almost every aspect of modern life involves computing - from mobile phones, TVs, planes, trains and cars, to gaming, security and medicine. Every organization's payroll, customer records and finances are held electronically, sometimes containing millions and millions of records. The digital world is really upon us. Looking to the future, initiatives such as cloud computing will connect us all through small portable devices, enhancing social networking and allowing us to exchange audio and video data from our daily lives.

Keeping in mind the absolute dependence of the contemporary world requirements over Information technology the program offered by the department is tailored towards producing computer scientists capable of achieving new heights in innovation and enhancement of technology to provide the world an even better tomorrow. Our program is accredited by the Higher Education commission and to achieve excellence we strictly follow the standard curriculum guidelines as laid down by the HEC.

The department has a well-equipped computer laboratory with high speed internet facilities. A well-stocked library with more than 400 books is providing services to the students and faculty. An Automated Library system is being used in the campus.

Program Offered in Computer Sciences

Overview

The program in computer science prepare professionals who will adapt to constant changes in technology and who will be leaders in developing the new technologies of the Information Age. The multidisciplinary nature of our curricula offers students a high degree of flexibility to design a program of study tailored to their interests and professional aspirations.

Computer science focuses on programming, algorithms, large-scale software development, and the principles of computing that underlie these areas. Computer Sciences programs emphasis on fundamental principles with new developments in computing, producing graduates prepared either to begin careers or to pursue advanced studies in the field.

The mission of the computer science program is to assist students to be ready for work and ready for change. This means preparing students to make professional contributions to computer and information science immediately upon graduation and throughout their professional careers, and to adapt to technological and societal changes.

Educational Outcomes for the Computer Sciences programmes

Graduates of the AJK University BSCS programme achieves the following outcomes:

- The ability to think critically
- The ability to communicate critically
- An understanding of ethical and professional aspects of engineering and science
- The ability to work effectively in multidisciplinary teams
- The ability to devise computational solutions of complex problems
- The ability to apply the principles of abstraction and structural design
- The ability to reason about program correctness, complexity, and apply formal methods and models
- The ability to develop robust software by means of a variety of programming paradigms and languages.

Job Opportunities for Graduates

Students graduating from the Department are well prepared for employment in a wide range of high-tech companies and able to help maintain and enhance the AJ & K's position in this important and expanding area. The Higher Education Commission recommended BS, BIT, MCS & MIT programs are aimed at a closely related set of technologies in order to provide its graduates which with up-to-date technical knowledge,

development and research skills and together with an appreciation of industrial perspectives.
Qualified faculty and leading researchers to produce high quality, highly employable graduates lecture the programs. The programmes combines advance taught material and a significant project, many of which may be completed in conjunction with industry

Offered Program

BS (CS)
Objective After completing undergraduate degree in computer Science, students are expected to possess robust problem-solving skills, substantial knowledge of a broad class of problem-solving techniques e.g., Algorithms, heuristics, and design techniques, extensive understanding of the fundamentals of Computer Science, ability to clearly communicate technical concepts both orally and in writing and most importantly, aptitude to readily work with other disciplines. In sum, the ultimate aim of the program is preparing quality professionals to gratify the growing needs of Computer Science industry.

Program Length

- 4-5 years
- 8-10 semesters
- Thesis in 7th & 8th semesters

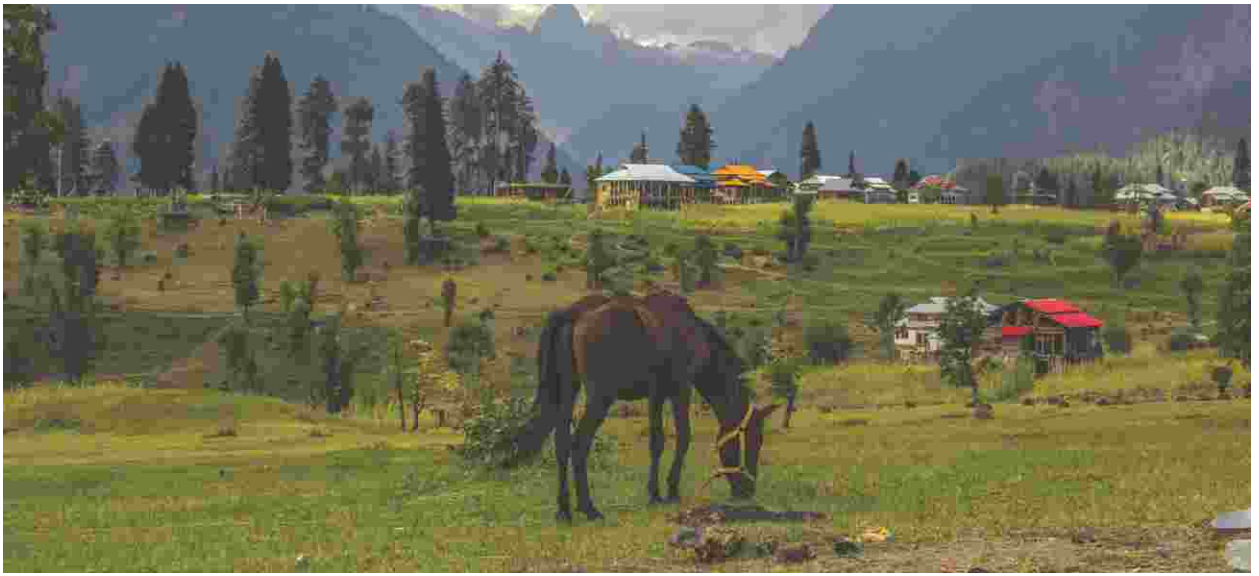
Entry Requirements

- General rules of HEC are followed to determine the eligibility of the candidate.
- The candidates must have Intermediate or equivalent certificate with minimum second division (45%) in F.Sc.
- Entrance test is mandatory for admission in BSCS.
- Overall merit comprise of academic record and Entrance test result.

Scheme of study for BS (CS):

Duration:	8-10 Semesters
Course:	130 Credits
Oral Comprehensive Examination	S/U Basis
Internship/ Practical Training	S/U Basis
Project:	06 Credits
Total Credit Hours:	**136 Credits**

(For course outlines please see page No. 130-32)



My first semester in this department has been very pleasant. So far the department has remarkable standard of education which help us to build confidence skills and groom our personality. I found faculty members very cooperative and committed in all perspectives. Computer Science is not only an intellectual discipline, it is also a profession. I am very thankful to the department, faculty and administration for providing us professional environment.

Jamshaid Bashir,
BS (CS), 2nd Semester

Being a student of BSCS, I feel great satisfaction and pride of the opportunity. It is a platform where I explore myself to enlighten my skills and knowledge. I found faculty members very sympathetic, highly qualified, experienced & cooperative. My message to all new comers is "give your enthusiasm to Neelum Campus UAJK because it focus on mission that is 'Come to learn and leave to serve'"

Maryam Jamil,
BS (CS), 6th semester

Department of Geology

Introduction

Geology is the science comprising the study of solid Earth, the rocks of which it is composed, and the processes by which they change. Geology can also refer generally to the study of the solid features of any celestial body. Neelum is full of natural resources. Excellent scenic beauty, panoramic view, towering hills on both sides of the noisy Neelum River, flourishing green forests, streams, high altitud e lakes and attractive surroundings make the valley a dream come true. The area is also ideal for mountain tourism. Different types of minerals and precious stones are available in this valley. Keeping in view of the importance of the area, BS Program in Applied Geology will be started in this session. The departmentwill be unearthing and exploiting the natural resources of the country is blessed with and by doing so, it will be playing an important role in socio-economic uplift of the country.

FACULTY

Mr. Amir Shahzad, PhD. Scholar (Pak)

Mr. Rameez Ahmed Gardazi, M.Phil. (Pak)

Mr. Sibtain Altaf, M.Phil (Pak)

Mr. Rafiq Samad, M.Phil (Pak)

VISITING FACULTY

Mr. Adeel Ashraf, M.Phil (Pak)

Mr. Muhammad Imran, MA (Pak)

Mr. Muhammad Zubair, MSC (Pak)

Mr. Sultan Mehmood Awan, M.A (Pak)

Job Opportunities

The department will produce Applied Professional Degree holders in the field of Geology to meet national and international requirements. The graduates are getting employment in Universities, Colleges, Research Institutes, Oil Companies, Geotechnical Organizations, WAPDA, Atomic Energy Commission, Highways, Geological Survey, FWO, OGDCL, PAGE, PPL, POL, British Oil, Geo-services Companies, Hydrocarbon Institutes and many more National and International Organizations.

Internship

The internship facilities will be provided for final year graduates. Students will be sent to Oil and Gas companies, Geotechnical Organizations, WAPDA, Geological Survey, FWO, OGDC, PPL, POL and other industrial organizations.

Offered Program

BS Applied Geology (4 Years)

Program Length

- 4-5 years
- 8-10 semesters
- Thesis in 8th semester.

Entry Requirements

- FSc Science Group
- Pre-Medical, Pre-Engineering ,General Science (excluding Economics and Psychology subjects)
- FSc with Geology.
- Three-year diploma after matric in Mining, Civil, Electronics, Electrical and Mechanical Engineering from Govt. Polytechnic Institutes.
- The candidate must have at least second division.

Scheme of Study BS Applied Geology

Duration:	8-10 semesters
Course Work:	117 credits
Field Work Reports:	09 credits
Thesis (8th Semester):	06 credits
Comprehensive Oral Examination:	S/U basis
Internship/Practical Training:	S/U basis
Total:	**132 credits**

(For course outlines please see page No. 159-65)

I have no words to express my love towards university, especially to the Neelum campus. Being student of Neelum campus, I feel great satisfaction & pride for this opportunity. Our teachers are very helpful, kind and determined towards academic uplift of students. My message to the new comers is that they will see the difference in their selves. I hope in the future my university will be amongst the best universities of Asia.

Ahmed Raza,
BS Geology, 2nd Semester

The UAJK is providing me a clear-cut roadmap before I start my journey of professional life. I fell blessed being the part of Neelum campus UAJK. Faculty members educate us by modern techniques of leering. They are very cooperative & compatible. They not only educate us to devote ourselves for education & study but also brig reforms to our social, moral and spiritual behavior.

Syed Zeeshan Zaheer,
BS Geology, 6th Semester,

Department of English

Introduction

BS (Hons) in English is a four year program. The program aims to provide the students of Neelum Valley particularly & generally to all a base of learning. It also aims to produce young energetic professional imbued with the passion to serve their country. The program has normal duration of four years and eight semester intends to polish and equip students with solid skills. The program covers areas from both Linguistics and Literature and the focus is on to make the learners aware of core Linguistics and Literary concepts about English Language and Literature. For the first two years, the students are introduced to some foundation and interdisciplinary courses, in the third year the students are offered elective courses of both disciplines and in the final year of study, the students are offered specialization in Linguistics or Literature.

Objectives

The program aims to:

- Make students aware of core Linguistics & Literary concepts enabling them to apply them in their own social and psychological context.
- Produce professionals employable in various fields.
- Serve as a nursery for M. Phil/ MS programs.

Duration of the Program

Total semesters:	08
Total Duration:	4 years
Total credit hours	133
Duration of each semester	16- 18 weeks

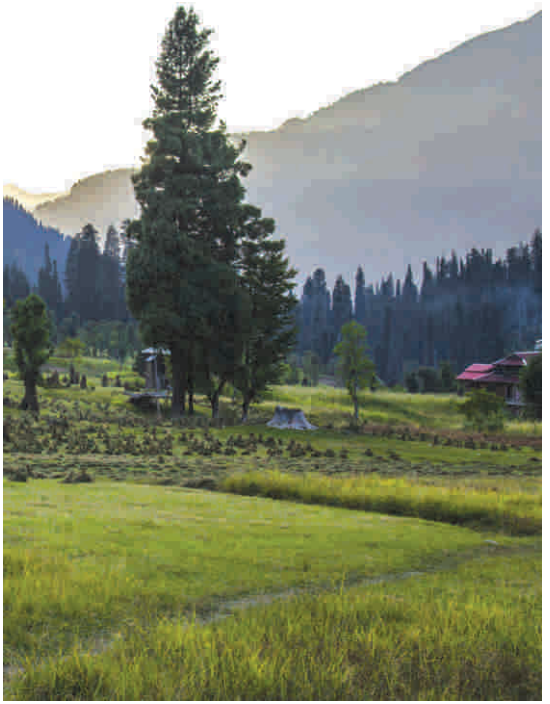
Admission Criteria

The criterion for admission to BS is Intermediate or equivalent qualification with at least 2nd division. Age limit for admission is 23 years. The merit will be determined by the following formula: %age= %age of SSC marks+ HSSC marks X 100/ 1200

FACULTY

Muhammad Ilyas,
MA, (PAK)

Ruqia Ali Akbar,
MA, (PAK)



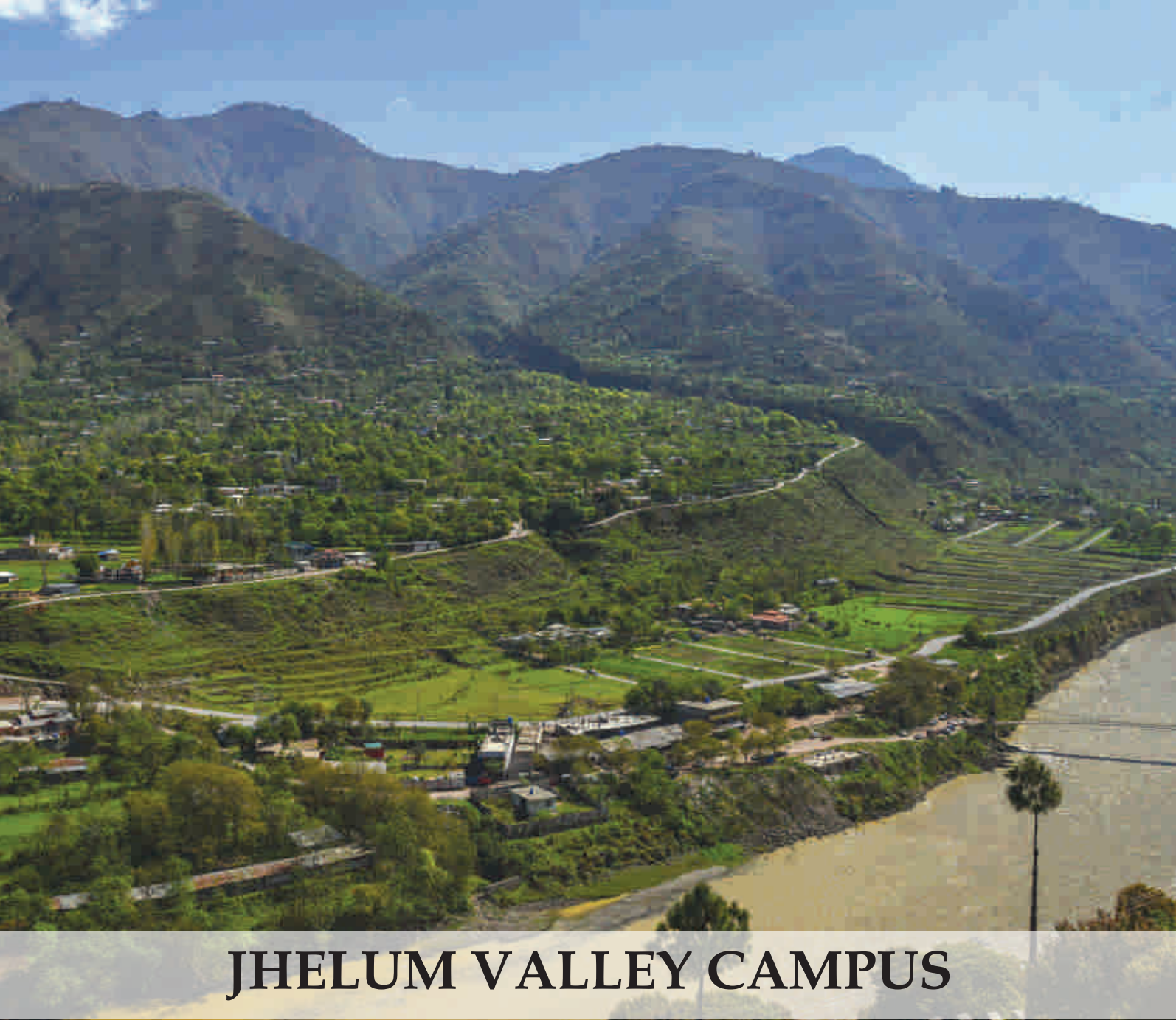
Program Structure

The program strictly follows the HEC guidelines and specification for the BS English program. It has 10 compulsory courses of 28 Credit Hours, 7 General Courses of 21 Credit Hours, 08 Foundation courses of 24 Credit Hours, 10 Major courses of 30 Credits Hours, 2 Elective Courses and 08 Core Courses of 30 credit Hours. Total 133 Credit Hours.

(For course outlines please see page No. 230-34)

University of Azad Jammu and Kashmir is an institution where we get access to the high quality education and knowledge. As the ultimate desire of human, as directed by Almighty Allah is to seek knowledge so this institutions is a blessing for us. I am truly elated to be a part of this Department. The highly competent faculty of the Education motivated and encourage the students to the best of their abilities and capabilities by providing all the opportunities to actualize their potential.

Fakhara Rehman,
BS English, 2nd semester



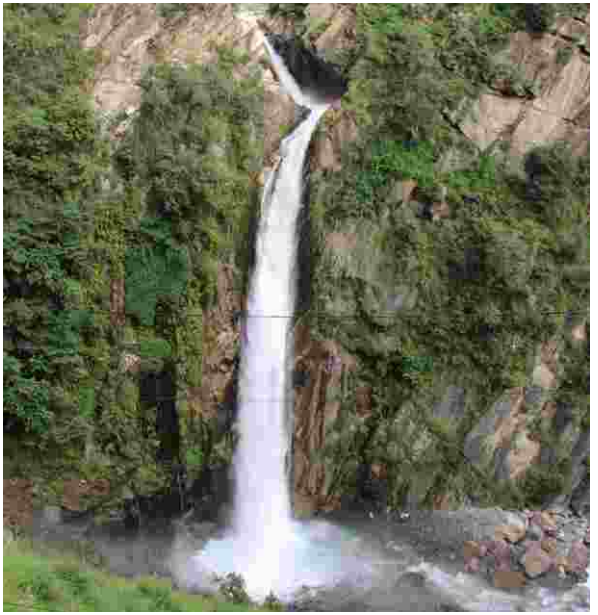
JHELUM VALLEY CAMPUS

The Jhelum Valley: A Brief Over View

The tenth district of Azad Kashmir is known as Hattian Bala. The head quarter of the district is situated at Hattian Bala. Its administrative units or sub-divisions are; Chikar, Hattian Bala and Leepa. Before 1948, it was a sub-division of district Baramula, Tehsil Uri of the former state of Jammu & Kashmir. After the establishment of the State of Azad Jammu & Kashmir, Hattian Bala became a part of the district Muzaffarabad in AJK. However, in July 2009, it was declared as a district by the Azad Government of the State of Jammu & Kashmir (GoAJK). It is an entry point towards Srinagar with a population of about 0.3 million and situated on the bank of river Jhelum. The people of Hattian Bala enjoy a very high rate of literacy. Hattian Bala has many hill stations which present the natural beauty of AJK. The district has many tourist attraction sites such as; the Leepa Valley, Dao Khan, Nokot, Noon Bagla, Chikar. The rural to urban ratio of population in the area is about 90:10. For livelihood, major population depends on forestry, livestock and agriculture. The district holds immense potential to generate hydropower mainly owing to the fast flowing streams. Kathi, Sharian and Leepa are the hydro power stations of the district. This district is surrounded by spectacular sceneries. Because of high peak glaciers and bottom valleys, the area provides excellent environment for scientific research on climate change and biodiversity in the mighty Himalayas.

The Hattian Bala Campus in the Jhelum Valley

The Hattian Campus in the Jhelum valley was established on August 01, 2015 and inaugurated by the Chancellor UAJK/ President of the State of Azad Jammu & Kashmir, Sardar Muhammad Yaqoob Khan. It has been established so as to give people of this area an easy access to higher education at their door steps. The main centre of the Jhelum Campus is at Hattian Bala, a beautiful town with junction of important areas of district Bagh, Chinari, Leepa, Chakothi, Gari Dopatha and Muzaffarabad. The campus is along the site of Srinagar-Muzaffarabad Highway which remained a historical trade route between the Indian Held Kashmir (IHK) and the liberated part of Azad Jammu & Kashmir (AJK). The university campus at Hattian Bala will provide the opportunities of higher education facilities to the youth at their doorsteps as envisaged in the vision 2025 of the Government of Pakistan. In the first phase, three Undergraduate BS degree programs of 4 years each have been launched in the disciplines of English, Education and Computer Sciences. Based on the needs of the adjoining population, further expansion will take place with the passage of time.



Jhelum Valley Campus

Adding to the sphere of UAJK's operation and in view of the educational needs of the inhabitants of the Jehlum Valley, Jhelum Valley Campus has been established on August 01, 2015 at Hattian Bala. The campus has been initially housed in the building of Boys Inter College Hattian Bala along the Srinagar-Muzaffarabad Highway. In the first phase, three undergraduate degree programs have been launched in the disciplines of English, Education and Computer Sciences.

The cultural norms of the area and lack of resources limit the higher education opportunities for the youth especially females who are unable to join higher education institutions in big cities. The university campus at Jhelum Valley is providing the higher education facilities to the youth at their doorsteps and enables them to take part in national development.

The Director

I would like to take this opportunity to welcome you all to the Jhelum Valley Campus, University of Azad Jammu & Kashmir. Since the University strives allow its students to have an access to the field of learning of their interests by introducing new disciplines, faculties & campuses, Jhelum Valley Campus has been estabilished at Hattian Bala Jhelum Valley-a beautiful junction of important areas of Bagh, Chanari, Leepa, Chokothi, Ghari Dopatta and Muzaffarabad so as to give people of this area an easy access to higher education at their door steps.

Being Director Campus, I extend my all possible support to the undergraduate students during their stay at the campus. I wish you every success in your academic career here at the university campus. I'm confident that the graduates of this Campus will positively contribute their acquired knowledge for betterment of society and prove themselves as role models in their respective professional careers.

Programs Offered

Initially, three undergraduate programs are offered based on the needs of the adjoining population:

- BS English
- BS Education (B. Ed Hons)
- BS Computer Science

Further expansion will take place with the passage of time as per requirements and scope.

Administration

- Mr. Altaf Hussain Awan (Asst. Director)
- Mr. Qudratullah (Assistant/ Accountant)
- Mr. Syed Ahsin Ali Shah (Incharge Student Affairs)
- Mr. Muhammad Hammad Waseem (In charge Sports

DIRECTOR

Mr. Imtiaz Ahmad Awan
Phone: +92-5822-962606
imtiaz.awan@ajku.edu.pk

FACULTY

Mr. Muhammad Hammad Waseem, M.Phil (Pak)
Mr. Syed Ahsin Ali Shah, M.Phil (Pak)
Ms. Samia Waheed, MA M.Phil (Pak)

VISITING FACULTY

Mr. Bilal Ahmed Jhangeri
Mr. Ali Rafique Ahmed
Mr. Atif Altaf Awan
Ms. Hareem Mueed
Ms. Bushra Naqvi
Mr. Zameer Ahmed
Mr. Fakhar Zaman
Mr. Rashid
Ms. Kiran Qayyum
Ms. Quratulain
Ms. Najma Zahoor
Ms. Fareena Qureshi
Mr. Abid Hussain Kiani

Department of Education

As teacher-educator plays a very important role in shaping up the life and competence of prospective teachers, it is, therefore, essential for them to be adequately equipped with the required skills that will enable them to present themselves as a perfect role model for the prospective teachers. This indicates the importance of effective teaching learning systems in teacher education Programs. The Department of Education is one of the pioneering Department of Pakistan and AJK which offered four years Degree Program designed in the light of HEC guidelines and also keeping in view the New Education Policy 2009, the National Professional Standards for Teachers in Pakistan and Accreditation Standards for Degree Programs. The courses and activities are designed in such a way that practical skills for teaching and research are maximized. Now you believe or not but drastic changes in content, pedagogy and learning environments have taken place around the world. Changing process can't be stopped. However, education sector can excel through professional teachers, competent educational managers and visionary policy makers, by responding these changes Department of Education providing opportunity to join our new degree Programs and other courses designed in view of the national policy, professional standards and emerging needs.

Benefits of joining at Department of Education, Jhelum Valley Campus.

Become efficient professionals in teaching subjects/ courses of specialization in line with established principles of learning and teaching Develop the essential skills and understanding of the discipline so the quality education could be imparted to the students Adequately equip yourselves as professional teachers with innovative teaching learning methods Enable them to understand psychological principles of growth for developing holistic role models Instill the ability for guiding and counseling to solve personal and academic problems of students in order to motivate them towards meaningful academic pursuits.

BA (Education)/B.Ed. Hons. (4-year)

Those who have a passion for teaching and are willing to take it as their profession, as career then this new B.Ed. Hons., degree would be their first choice. This is designed as 2+2 year Programme. During first two years, the students shall study the conventional Bachelor's level courses along with some courses in education and practical teaching. In the second two years, they will study pedagogy oriented content extensively. Hence, the students who, due to any compelling personal reasons, quit after completing initial two years shall be awarded Bachelor Degree in Education. They will be better educators especially for private sector that presently engages non trained teachers. The Scheme of studies for B.Ed. (4Year Programme) has been designed in accordance with the HEC guidelines and the national needs for well-trained teacher educators and education managers.

Why to Choose BA/B.Ed. Hons Programme?

- After passing Intermediate level exam, the candidates may apply for BA/ B.Ed. Hons. Programme due to the following reasons:
- According to New Education Policy (2009), teaching jobs shall be assigned to those holding 4-

years B.Ed Hons. or equivalent academic qualification

- Learning teacher-education process according to new Accreditation Standards for Education Degree Programs on Pakistan enforced in August 2009
- Developing teaching competencies according to new National Professional Standards for Teachers in Pakistan (NPTSs) enforced in February 2010
- Excellent resources, other benefits and job opportunities emerging rapidly for licensed teachers in Pakistan

Job Opportunities

Since the Programme has been modeled in accordance with national policy and national/ international standards, the successful candidates shall find ample job opportunities in both the public and private sectors. The Curriculum is designed in a way that they can switch over to other disciplines for pursuing higher degrees, thereby making their career interdisciplinary in nature. Thus the said degree Programme can open various avenues of diverse careers for the successful graduates.

Eligibility Criteria

- FA/FSc/ A levels with minimum 2nd Division
- FA/FSc/ A levels with school subjects
- Equivalent education form recognized madrasa system

Scheme of Studies

Compulsory Courses:	23
Professional/ Specialized Courses:	13
Foundation Courses:	12
Content Courses:	12
Teaching Practice:	06
Total Credit Hours:	**66**

(For course outlines please see page No. 281-83)

I would simple convey my message to all that Jhelum Valley Campus, University is the place where I learned to be punctual, attentive and a valuable addition to my society. My learning skills got improved a lot over here and I found the right means to explore my hidden skills in this praise worthy institute. I feel honored to be a part of Jhelum Valley AJK University. My message to all new comers is that "give your enthusiasm to Jhelum Valley AJK University because it focuses on the mission that is come to learn and leave to serve"

Nida Siddique Awan
B. Ed-II (2015-19)

Department of Education is a good institute of University of AJK, with cooperative Faculty having a broad vision. Studying at University of AJK, JVC is a great pleasure for me. The disciplined and conducive environment enhanced my learning capabilities. I have no words to express my gratitude towards my University.

Faizan Ahmed
B. Ed-II (2015-19)

Department of English

Preamble

BS English program aims to provide students with a broad base of learning and scholarship to suit their respective interests and aptitudes. The program, which has normal duration of four years and eight semesters, also intends to help the students in determining their future professional directions. For the first two years, the students are taught some foundation courses and some interdisciplinary courses from a wide range of fields of knowledge to hone their personality. In the third year of study, the students are offered elective courses of both linguistics and literature. In the final year of their study, the students are offered to choose a major from literature and linguistics. This BS English syllabus introduces certain new courses both in linguistics and literature to acquaint the students with the modern trends, research and scholarship around the world.

Objectives

- The BS English program aims to:
- Produce well-skilled young professionals with sound knowledge of linguistics and literature.
- Develop a deep understanding of the contemporary issues in literature and linguistics.
- Serve as a nursery for the M. Phil/MS programs across the country.

Duration of The Program

- Total Semesters: 08
- Total Duration: 4 Years
- Total Credit hours: 136
- Duration of each semester: 16- 18 weeks

(For course outlines please see page No. 230-34)

Admission Criteria

The criterion for admission to BS is Intermediate or equivalent qualification with at least 2nd division.

Age limit for admission is 23 years. The merit will be determined by the following formula:

$$\%age = \frac{\%age\ of\ SSC\ marks + HSSC\ marks \times 100}{1200}$$

Intermediate or equivalent qualification with at least 2nd division.

Program Structure

The program strictly follows the HEC guidelines and specifications for the BS English programs. It has 9 Compulsory Courses of 25 Credit Hours, 7 General Courses of 21 Credit Hours, 10 Foundation/ Core Courses of 30 Credit Hours, 5 Elective courses and 12 Major courses of 36 Credit Hours. Total 136 Credit Hours.

In the first two years of the program, the students will study compulsory, foundation, and general courses; whereas, in years two and three, the students take elective/major courses, and in the final year of their study, the students are offered specialization in Literature or Linguistics.

As a student of BS-English, I am spending a golden period of my life in this department. Here, we are provided with qualified teachers who are compassionate yet determined towards the academic uplifting of the students. I appreciate the hardwork and the efforts of the department, administration, faculty and students. My department gave me a lot of confidence, skills and helped me in grooming my personality. I feel honored to be a part of this university and wish me future students to bring in their vibrant colors to the fabric of this breathing community here in JVC.

Asifa Sayyab
BS English-II (2015-19)

I have no words to express my gratitude towards my university as it has shown a new horizon to me. The whole time that I spend here is imbed with laughter and learning. The faculty is qualified and I really feel a great change in my studies due to the productive environment of University. My message to the new comers is that this campus has the best to offer so better not miss the opportunity.

Haroon Nazir Awan
BS English-II (2015-19)

Department of Computer Sciences & Information Technology

Introduction

The Department of Computer Science and Information Technology (CS&IT) has been established in August, 2015, University of Azad Jammu and Kashmir, Jhelum Valley Campus.

The mission of the Department of Computer Science and Information Technology is to provide high quality education at undergraduate level, to prepare computer science professionals and experts for productive careers in academia, industry and Government, by providing the conducive learning and research environment in the theoretical and applied domains.

The Department has modern computing labs and class rooms with multimedia facility. The Department is connected through a LAN in order to provide modern teaching and learning environment and fast access to the Internet.

Job Opportunities for Graduates

Students graduating from the Department are well prepared for employment in a wide range of high-tech companies and able to help maintain and enhance the AJ & K's position in this important and expanding area. The Higher Education Commission recommended BS programs is aimed at a closely related set of technologies in order to provide its graduates with upto-date technical knowledge, development and research skills, together with an appreciation of industrial perspectives.

Undergraduate Computer Sciences Programs

The Department of CS&IT offers four years BS (CS) program at undergraduate level. The program in computer science prepares professionals who will adapt to constant changes in technology and who will be leaders in developing the new technologies of the Information Age. The multidisciplinary nature of our curricula offers students a high degree of flexibility to design a program of study tailored to their interests and professional aspirations.

Computer Sciences focuses on modeling, analysis, documenting and tracking the system requirements, designing, implementing, deployment, and maintaining software systems. Moreover, programming, algorithms, and the principles of computing that underlie these areas are addressed. Computer Sciences program also assures to produce graduates that are prepared either to begin careers or to pursue advanced studies in the field.

The mission of the Computer Sciences program is to assist students to make professional contributions to the field upon graduation and throughout their professional careers, and to adapt to technological and societal changes.

Educational Objectives for the Computer Sciences Programs

The educational objective of the Computer and Information Science programs is to graduate students who have acquired:

- Depth and breadth of knowledge in Computer Sciences as evidenced by an understanding of computing systems and science coupled with the capacity to produce feasible and responsible solutions to complex computing problems.

- Advances in responsibility and leadership and contribute as active partners in the economic growth and the sustainable development of the society;
- Critical thinking as evidenced by skills in interpretation, analysis, evaluation, inference, argumentation, and reflection.
- Life-long learning skills as evidenced by the ability, to adapt to innovation and change

Educational Outcomes for the Computer Sciences programme

Graduates of the AJK University BSCS programm achieves the following outcomes:

- 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 as 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 trade-offs involved in design choices.
- An ability to apply design and development principles in the construction of software systems of varying complexity.
- An ability to communicate effectively in English within a typical IT environment in ways appropriate to the discipline.

BS (CS)

Eligibility Criteria

- General rules of HEC will be followed to determine the eligibility of the candidate.The candidates must have Intermediate or equivalent certificate with minimum 45% marks.
- University entrance test is mandatory for admission in BSCS.
- Overall merit comprise of academic record and Entrance test result.

Scheme of Study:

Duration:	8-10 Semesters
Course:	130 Credits
Oral Comprehensive Examination	S/U Basis
Internship/ Practical Training	S/U Basis
Project:	06 Credits
Total Credit Hours:	**136 Credits**

(For course outlines please see page No. 130-32)

I am proud to be a student of BSCS at Department of Computer Sciences & IT, Jhelum Valley Campus that is a place where the vision is to prepare the individuals programs for having a strong sense of civic, professional and ethical responsibility. Computer Labs in the department provide students with latest computer based training to improve their professional and ITskills for modern technical environment. The faculty of Computer Sciences is skilled and provide the required guidance for students who are new to the field.

Farhan Khan
BSCS-II (2015-19)

Being a student of computer sciences in the University of AJK, JVC, I feel proud to be a part of it. Our university caters for our academic needs. Our qualified teachers put in all their efforts for our professional grooming yet leave no stone unturned for our moral uplifting. I like the education system here because this system focuses on developing research skills. The time that I spend here is and will surely be the golden period of my life.

Rubab Arif
BSCS-II (2015-19)

INFORMATION

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Principal, Govt. Postgraduate College (Girls), Mirpur

Principal, Govt. Postgraduate College (Girls), Muzaffarabad

Principal, Govt. Postgraduate College (Girls), Bagh

Principal, Govt. Postgraduate College (Girls), Rawalakot

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Secretary Education (or his nominee),
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Secretary Higher Education,
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Dr. Muhammad Siddique Awan,
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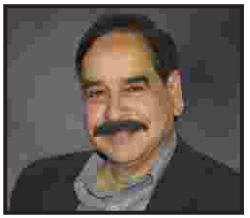
ADMINISTRATION

Dr. Muhammad Siddque Awan
Registrar



Syed Sabir Hussain Bukhari
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Controller of Examinations

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Engr. Faisal Mahmood Butt
Director BS 4 Year

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Mr. Imtiaz Ahmad Awan
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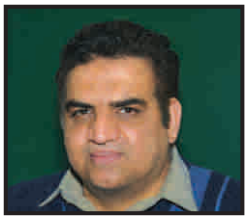
Director Planning



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Director BIC

Syed Zain-ul-Abedin
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Hafiz Roshan Din
Director Works

Mr. Arif Hussain Rathore
Director Estate

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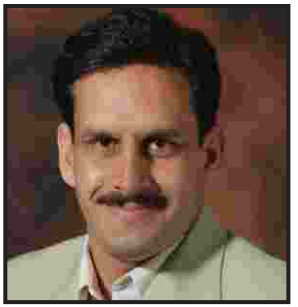
Prof. Dr. Ghulam Murtaza
Director AS&R

Dr. Rehana Kausar
Director Students' Affairs



Mr. Naveed Sarwar
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Engr. Faisal Mahmood Butt
Director BS 4 Year

Prof. Khawaja Abdul Aziz
University Advisor

Mr. Attique-ur-Rehman Abbasi
Lecture, Department of English

Qazi Zahoor Ahmed
Public Relations Officer

Syed Shujat Ali Kazmi
Assistant, Public Relations Office

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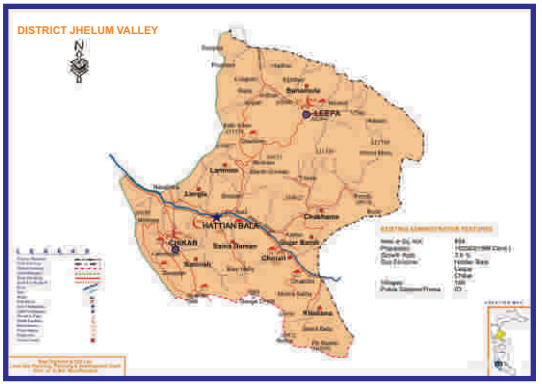
MUZAFFARABAD

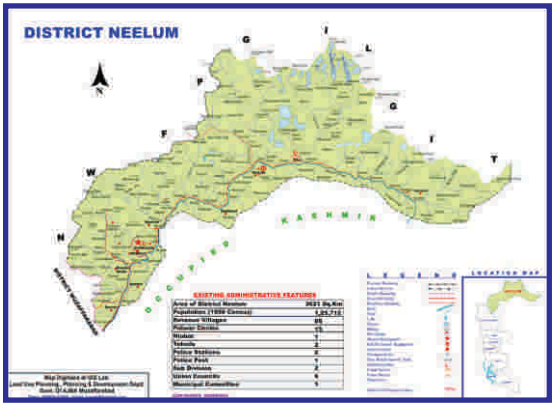
Starting from Islamabad, you should follow the Kashmir Road to Murree till you reach Kohala and Muzaffarabad. In Muzaffarabad take the Neelum Road to reach the Chehla Campus after crossing the Chehla Bridge over river Neelum.



HOW TO GET TO THE UAJK CAMPUSES

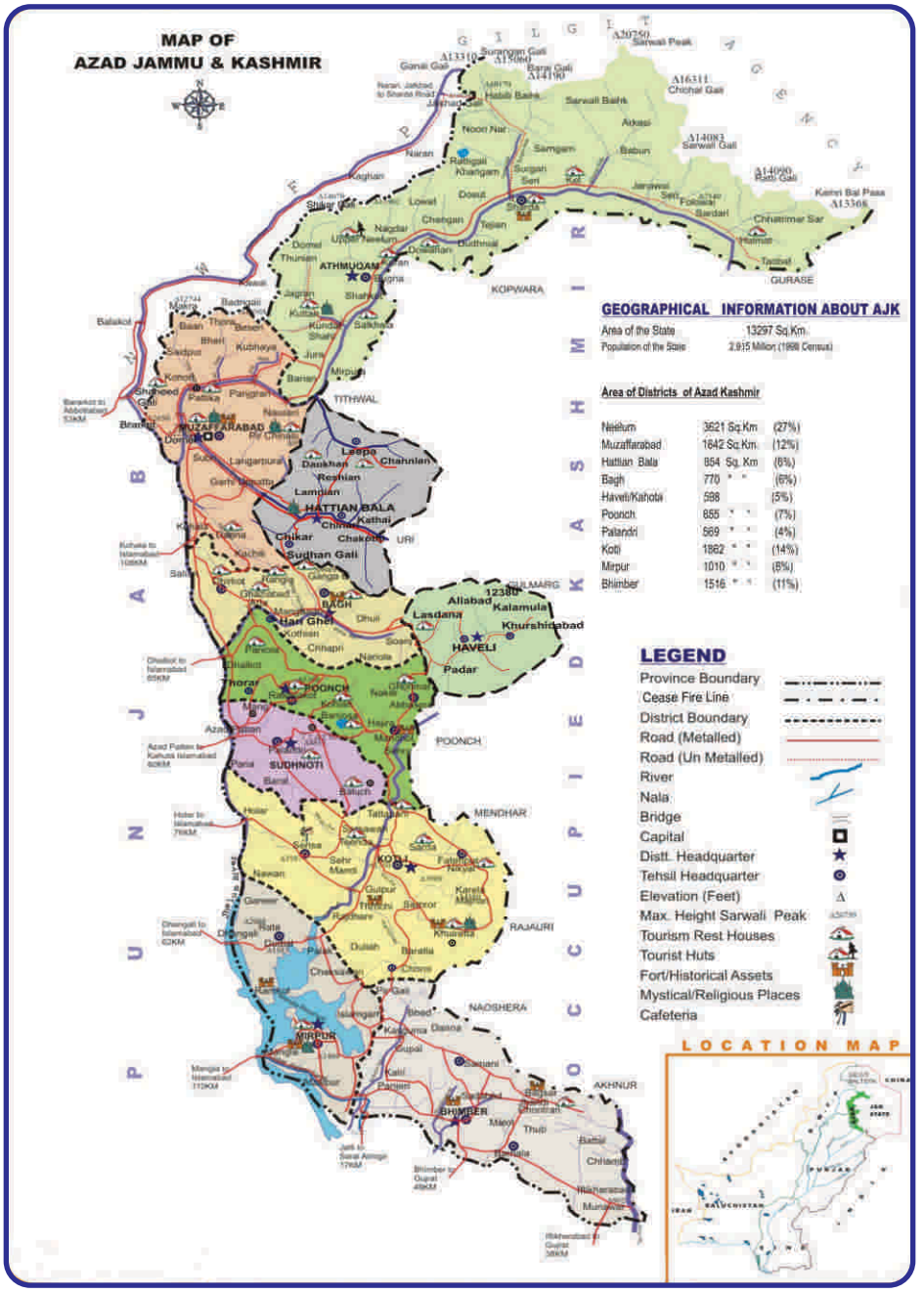
NEELUM VALLEY (ATHMUQAM)

About 200 kilometers long, the picturesque Neelum Valley is situated to the North & North East of Muzaffarabad. Running parallel to the Kaghan Valley, Neelum Valley is 155 kilometers from Muzaffarabad, of which about 150 kilometers road has been black topped while the remaining portion is being metaled.



JHELUM VALLEY (HATTIAN BALA)

This is an ideal valley to visit for both the domestic and international tourists. The curling river Jhelum passes through from east to west between the high green mountains of this valley and joins the river Neelum at Domel near Muzaffarabad city. A 59 Kilometers long metal road runs along the river Jhelum from Muzaffarabad to Chakothi, which is located adjacent to the Line of Control (LOC). Buses & wagons ply this route regularly while it is also used as Muzaffarabad Srinagar Trade, route.


MAP OF
AZAD JAMMU & KASHMIR
GEOGRAPHICAL INFORMATION ABOUT AJK
Area of the State 13297 Sq.Km.
Population of the State 2.915 Million (1998 Census)
Area of Districts of Azad Kashmir
Neelum 3621 Sq.Km (27%)
Muzaffarabad 1642 Sq.Km. (12%)
Hattian Bala 854 Sq. Km (6%)
Bagh 770 " " (6%)
Haveli/Kahota 598 (5%)
Poonch 655 " " (7%)
Palandri 569 " " (4%)
Kotli 1862 " " (14%)
Mirpur 1010 " " (8%)
Bhimber 1516 " " (11%)
LEGEND
Province Boundary
Cease Fire Line
District Boundary
Road (Metalled)
Road (Un Metalled)
River
Nala
Bridge
Capital
Distt. Headquarter
Tehsil Headquarter
Elevation (Feet)
Max. Height Sarwali Peak
Tourism Rest Houses
Tourist Huts
Fort/Historical Assets
Mystical/Religious Places
Cafeteria
LOCATION MAP
PUNJAB
OCCUPIED KASHMIR
ATHMUQAM
MUZAFFARABAD
HATTIAN BALA
BAGH
POONCH
SUDHNOTI
KOTLI
MIRPUR
BHIMBER
HAVELI
KOPWARA
TITHWAL
URI
GULMARG
MENDHAR
RAJAURI
NAOSHERA
AKHNUR
GURASE

Disclaimer

This prospectus has been developed with the intended purpose of general guidance for prospective students desirous of admissions at the University of Azad Jammu & Kashmir. It sets forth in general the manner in which the University intends to proceed with respect to the matters set herein.

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Prepared & Designed by: Syed Shujat Ali Kazmi
Printed by: Pakistan Post Foundation (Press Division)
Web: www.ajku.edu.pk