

Autumn 2020 PROSPECTUS

AIOU

BS (Face to Face)

- Physics
- Mathematics
- Statistics
- Computer Sciences
- Chemistry
- Microbiology

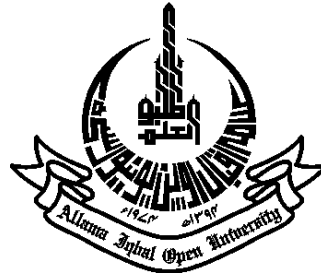


Allama Iqbal Open University, Islamabad

www.aiou.edu.pk

Help Line: (051) 111-112-468

PROSPECTUS
OF
BS (face to face) Programmes
For
SEMESTER: AUTUMN, 2020



Allama Iqbal Open University, Islamabad

Price Rs.500/-

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Vice-Chancellor's Message

Dear Student,

السلام عليكم

Allama Iqbal Open University (AIOU) is one of the mega universities of the world and it occupies a unique position in the education sector of Pakistan. Because of its affordability and high quality distance and online academic programs. AIOU has now turned into the most favorite university of the country with high international of repute. The university made a landmark progress by ensuring access to quality education rural areas under-privileged students for the people of all ages particularly the females can now select and join the programs of their choice while sitting at their residence and along with continuing their jobs. After assessing the success of many degree programs in Pakistan, AIOU is now going to offer a ranges programs for the students in UAE, Saudi Arabia, Kuwait, Qatar, Bahrain, Oman, USA and many other countries currently. More than 1.3 million students are getting benefits from the high quality educational services of AIOU in all regions of the country through more than fifty regional offices of the university. It offers-suggests many undergraduate and Post Graduate programs at rural and remote areas providing an unparalleled opportunity to all the poor and deprived sections of the society at an affordable cost. The university has recently digitalized all its student-support services for facilitating its students on priority basis. This digitization of the system, it is hoped, will enable AIOU students to get all kinds of educational using their Learning Management system (LMS) portal support online.



Committed for your bright future

Prof. Dr. Zia-Ul-Qayyum
Vice Chancellor, AIOU

ALLAMA IQBAL OPEN UNIVERSITY

Allama Iqbal Open University, a mega university was established in 1974 under an Act of Parliament. The main campus of the university is situated in sector H-8, Islamabad. It was the second open university of the world and the first of its kind in Asia and Africa. The aim of establishing AIOU was to provide affordable and accessible education through distance learning at the door-steps to those people who could not continue their education journey through formal system of education. The University (AIOU) operates on semester system and admits students in Autumn and Spring semesters. Under graduate admissions are offered in both the semesters where-as post graduates are offered once a year. The enrolled students are given course books specially prepared by the university on self instructional principles. However at post graduate level reprints of foreign books alongwith allied material and university prepared study guides help students to polish their skills.

At present, the AIOU is offering programmes from Matric to PhD level in diverse disciplines comprised of four faculties. The university has established study centres across the country where distance education students are provided necessary guidance by their respective tutors. Moreover, the university has established full-time study centres wherein the students of MBA (IT), MBA (Banking and Finance), BS (CS), MSc/BS Chemistry, MSc/BS Microbiology etc. are being provided instruction, guidance and counselling through face-to-face education. AIOU is also offering four years undergraduate degrees.

Apart from curricular and extra-curricular activities during the academic year, the AIOU and its regional centres actively participate in the co-curricular activities by arranging educational and literary seminars, workshops and conferences, attended not only by the students and faculties of the university but also by the renowned dignitaries and scholars. For the science students and the research scholars, a science complex has been built where they use the latest equipment of international standard for experiments and research. To meet the present day challenges, internet facility is also available in the student hostel and the Central Library where computers have been provided to enable students to access latest information available through open source databases.

Faculty of Science

Faculty of Sciences forms an important and integral part of the university. Since its establishment in 1982 with five teaching departments, it has undergone major development changes. It now comprises nine teaching and research departments which are offering courses at the undergraduate and postgraduate levels to more than ten thousands students. The Faculty operates under the basic guidelines of the University Act and on “Education for All as Convenient” basis so that maximum students get benefit from its academic programmes and educational facilities. This principle has necessitated some structural changes in the non- formal mode, particularly at the postgraduate level, in the offering of theory courses and

practical lab work. This conceptual adjustment has been quite successful and many of its in-service students are benefiting from the postgraduate study programmes. Improvement in qualifications for a better life is a right of everyone and the Faculty's programmes meet this challenge by offering opportunities to all. In particular a significant number of beneficiaries are those who cannot afford education in formal institutions due to a variety of reasons.

Realizing the importance of science education and growing needs of the Faculty of Sciences, the University has completed a building, the Research Complex, at a cost of Rs 35 million. The Research Complex now accommodates departments of Agricultural Sciences, Biology, Chemistry, Environmental Sciences, Home & Health Sciences, Mathematics, Statistics and Physics. These departments are running a variety of postgraduate technical, scientific and professional programmes successfully. The Research Complex also has a Computer Lab with Internet and On-line Library Facility for literature survey, Seminar Room, Lecture Hall and Library. In addition, there are many labs for practical work, teaching and research, and instrumentation labs for analysis. The University is developing these labs through its own resources. The Faculty of Sciences is fortunate to have Prof. Dr. Zia-Ul-Qayyum as the University's Vice-chancellor, who has given personal attention to the development of the Faculty of Sciences by providing generous amount of funds and valuable guidance.

Two Model labs have been developed in the Research Complex with the assistance of the Higher Education

Commission to meet the training needs of science teachers. This development is significant for training of teachers since under the new educational policy four-year BS programme has started in undergraduate educational institutions.

More than fifty highly qualified full-time faculty members are on the roll of the Faculty of Sciences. Their role in the planning, designing and development of courses to meet student's needs is vital. Faculty members also engage in imparting and supervising of instructions so that high standards are maintained. In addition highly qualified and experienced professors are also engaged on contractual basis or as part time instructors for postgraduate study programmes. The Faculty is also offering academic positions under the tenure-track system to attract the best minds in scientific and technological fields.

Research is an integral part of the postgraduate study programmes leading to MSc, MPhil and PhD degrees in Agricultural Sciences, Chemistry, Computer Sciences, Home and Health Sciences, Physics, Mathematics and Statistics. Rules and regulations governing the postgraduate study programmes are those approved by the Higher Education Commission (HEC).

The Faculty has launched BS programme in Chemistry and Microbiology from semester Spring 2009. The four-year BS programme is structured according to the recent policies of the Higher Education Commission for the improvement of the standard of education so as to bring it at par with the international standards.

DEPARTMENT OF BIOLOGY AND ENVIRONMENTAL SCIENCES

The Department of Biology was established in 1998 with a mission to serve those who could not continue their formal education in various disciplines of Biological Sciences due to economic or job constraints and the production of well-trained manpower to serve various sectors of the country like education and research for the attainment of the goal of self-sufficiency.

According to its vision the Department of Biology and Environmental Sciences is striving hard to uplift the teaching standards and provide a congenial environment for research in the field of Biology and Environment. The Department always seeks to introduce more disciplines at graduate and postgraduate levels as per demand of the society, so as to keep its graduates well informed with the recent advances in Biological Sciences. This will help to produce well-trained manpower meant to serve science both at national and International levels.

Currently the Department is offering MSc and BS Microbiology, Botany and Environmental Sciences Programmes. The four years BS Programme in Microbiology has been launched from the semester Spring 2009 and from Spring 2015 the Department is also offering MSc Programme in Microbiology. From Spring 2016 the department is also offering BS Environmental Sciences programme.

The Department started MSc Botany and MSc Environmental Science from Spring 2017 and BS Botany programme from Spring 2018. In addition to that, Department is offering some courses from basic to post graduate levels for main pool of AIOU's general programmes.

The Department of Biology and Environmental Sciences has collaboration with members of other Universities of Pakistan and Post Graduate institutions for its Biological Science courses/programmes. One multidisciplinary laboratory in block No. 4 for FSc students was established in 1999 and two labs in Science Block were established for students of BS Microbiology during 2008 to cater for their Practical/Research needs. There are also labs in the Science Block for BS/MSc Environmental Sciences and Botany programmes

BS in Microbiology (4 Years)

a) Introduction

The Department of Biology is well aware of the fact that this is the era of scientific revolutions. Microbiology, which is parallel to molecular biology as well as biotechnology, is an emerging scientific field. Lots of work is being done at international level but Pakistan is still behind in this field. The trained manpower well versed with laboratory techniques and disease diagnostic facilities is limited in the country.

Keeping this thing in view, the Department of Biology has launched four years BS Programme in Microbiology from the semester Spring, 2009.

This Programme is Designed to:

- Provide skilled laboratory personnel for catering general public needs.
- Provide research atmosphere for the support of laboratory facilities.

b) Objectives:

After completing this Programme, students will acquire the necessary knowledge based in the area of Bio-medical sciences, which is very important to diagnose the infectious diseases as well as epidemics.

The overall objective of this programme is **to promote education of Applied/Life Sciences in the country.**

The Specific Objectives are:

1. To provide human resources/skilled Microbiological technologists for catering the needs of medical laboratories in hospitals and research institutes.
2. To provide foundation for higher studies in Microbiological Sciences.
3. To create awareness about the importance of this science for general public health.

Target Groups

FSc (Pre-Medical) OR Equivalent A level qualification with biology as major subject.

Launching Scheme

In the pilot phase this programme is being offered in Islamabad/Rawalpindi regions only. Face to face classes will be scheduled at the main campus. After that this programme may be launched at other regional campuses depending on the availability of laboratory facilities.

c) Admission Procedure

1. Admission to fresh students will be offered once a year, in Spring Semester only.
2. Applications for admission will be invited through National press.
3. Applications on prescribed admission form will be submitted to:-

**The Chairperson,
Department of Biology & Environmental Sciences,
AIOU, Sector H-8, Islamabad**

4. Selection of candidates will be made strictly on the basis of merit.
5. Only selected candidates will be informed about their admission.
6. The selected candidates will be required to pay the dues.

Note:

Only selected candidates will be asked to deposit the prescribed fee. The fee should not be submitted before the confirmation of the admission. The deposited fee will not be refundable or

adjustable for future admission. The document showing fee deposit must be provided in the office of

**Chairperson,
Department of Biology,
Allama Iqbal Open University,
H-8 Sector, Islamabad.**

In case of noncompliance, it would be assumed that fee has not been deposited and the student is not any more interested in getting admission. The department may invite a candidate in waiting list for admission against the vacant seat.

d) Eligibility/Selection Criterion

FSc (Pre-Medical) OR Equivalent A level qualification with biology as major subject.

Medium of Instruction

The medium of instruction shall be English

Study Material

Class lectures and handouts will be provided by respective teachers. However, the students are advised to consult other reference books recommended by the department.

Mode of Teaching

- University will provide face to face teaching to the students.

- The schedule of classes and dates of submission of assignments will be handed over along with study material.

Assessment and Evaluation

For each course, the registered students will be assessed on the basis of the followings:

- a) Continuous assessment through written assignments/tests or Workshop or practical activities.
 - i) For each discipline specific face to face course the marks obtained by each student in the two written assignments will constitute 2/3 part of the continuous assessment. A student has to obtain a minimum of 50% marks in the two assignments collectively in order to pass this component.
 - ii) For each discipline specific face to face course the marks obtained by each student in the practical workshop will constitute 1/3 part of the continuous assessment. A student has to obtain a minimum of 50% marks in the practical workshop individually in order to pass this component.
- b) Final examinations: three hours written examination for each course with 50% passing marks.

Note:-

- *The continuous assessment and final examination will contribute 30% and 70% to the student's final course grade, respectively.*
- *For successful completion of each course the student will be required to qualify each of the two above components separately.*

Assignments/Tests

Handwritten Assignments to be submitted by the students shall be of literature and activity based nature. The students will submit the assignments to their teacher who will return the same after assessment with necessary academic guidance.

Degree requirement:

In order to become eligible for the award of Degree in BS Microbiology, the students will have to earn a total of **130** credit hours including six credit hours for research project. Minimum duration of the programme is 4 years, extendable maximum up to 7 years.

d) Scheme of Studies:

Semester Wise Breakup of Courses BS in Microbiology

Semester-1

Sr. No.	Course	Credit Hours	Course Code	Installments
1.	Admission Fee			Rs.500
2.	Registration Fee			Rs.500
3.	Technology Fee			Rs.200
4.	Fundamentals of Microbiology	4(3+1)	4403	Rs.8000
5.	Cell Biology, Genetics and	4(3+1)	4401	Rs.8000

	Evolution			
6.	Inorganic chemistry	4(3+1)	4421	Rs.8000
7.	Pre-Calculus	3	4431	Rs.6000
8.	English-I (ODL)	3	9407	Rs.510
9.	Lab Fee			Rs.3000
Total Credits			18	

Semester-2

1	Environmental Microbiology	4(3+1)	4445	Rs.8000
2.	Diversity of Plants	4(3+1)	4402	Rs.8000
3	Organic Chemistry	4(3+1)	4422	Rs.8000
4	Calculus-I	3(3+0)	4432	Rs.6000
5	English-II (ODL)	3(3+0)	9408	Rs.510
6	Lab Fee			Rs.3000
7.	Technology Fee			Rs.200
Total Credits			18	

Semester-3

1	Diversity of Animals	4(3+1)	4469	
2	Introduction to Environmental Sci.	4(3+1)	4441	
3	Pakistan Studies (ODL)	3(3+0)	9402	
4	English-III (ODL)	3(3+0)	9409	
Total Credits			14	

Semester-4

1	Biotechnology	4(3+1)	4412	
2	Public Relations	3(3+0)	9404	
3	Islamic Studies / Ethics	3(3+0)	9401	
4	Fundamentals of Computer	4(3+1)	3400	
Total Credits			14	

Semester-5

1	Introductory Biochemistry	4(3+1)	4481
2	Biostatistics	3	4482
3	Microbial Genetics	4(3+1)	4407
4	Virology	4(3+1)	4408
Total Credits			15

Semester-6

1	Molecular Biology	4(3+1)	4419
2	Molecular Mechanism of Antimicrobial Drugs	4(3+1)	4416
3	Food and Dairy Microbiology	4(3+1)	4411
4	Microbial Anatomy and Physiology	4(3+1)	4405
5	Scientific Research	3	7413
Total Credits			19

Semester-7

1	Immunology	4(3+1)	4415
2	Medical Microbiology	4(3+1)	4413
3	Industrial Microbiology	4(3+1)	4420
4	Soil microbiology	4(3+1)	4410
Total Credits			16

Semester-8

1	Epidemiology	4(3+1)	4417
2	Research Project	6	4418
3	Genetic Engineering	4(3+1)	4414
4	Seminar	1	4400
Total Credits			15

Total Credits=18+18+14+14+15+19+16+15=129

Fee Tariff:

Item	Rate
Registration fee:	Rs.500/-
Admission fee:	Rs.500/-
Technology fee+ Courier Charges	Rs.200/-
First Semester Fee	Rs.33510/-
Second Semester Fee	Rs.33510/-
Third Semester Fee	Rs.20020/-
Fourth Semester Fee	Rs.28210/-
Fifth Semester Fee	Rs.33000/-
Sixth Semester Fee	Rs.35000/-
Seventh Semester Fee	Rs.35000/-
Eight Semester Fee	Rs.39000/-

DEPARTMENT OF COMPUTER SCIENCE

Introduction:

The Department of Computer Science was established in the year 2000. The Department has received recognition nationwide due to its quality education. The department had developed curricula of the academic programmes at various levels to meet the national and international standards as defined by Higher Education Commission. The curricula include PhD (computer Science), MS (Computer Science), BS (Computer Science) and Postgraduate Diploma (PGD) in Computer Science.

The department is equipped with latest computers and services including a digital class room and multimedia courseware development lab. The department has its own library in addition to central library of the university. The department practices the multi-method teaching methodology i.e. face-to-face regular classes for BS (Computer Science) and MS (Computer Science). *The online methodology is practiced for PGD (Computer Science) AND Foreign Language (French). The facilities of Video/Teleconferencing are also in use for lectures/consultations in research oriented degree of MS/PhD (Computer Science).* In addition, the department also has a flavor of distance teaching in selected courses of BS (Computer Science) programme like English, Pakistan Studies, and Islamic Studies etc.

Besides graduate and undergraduate teaching, the department is actively involved in research and development. For this purpose Multimedia Centre and Open Learning Institute of Virtual Education (OLIVE) have been established at AIOU. In addition to research activities in the area of software engineering communication, networking, and multimedia, the department focuses on the e-learning research in instruction design, communication, course management, e-assessment, and other related areas of e-learning.

BS (Computer Science) Programme

a) Introduction:

BS (Computer Science) programme provides a good mix of courses in computer science, social science, basic sciences, management, and humanities. The BS (Computer Science) courses are aimed at core computer science field and include theoretical foundation and skills in computing and programming. The BS (CS) graduates will be eligible to apply for admission in postgraduate studies in many international universities, since the BS (CS) curriculum meets the requirements of IEEE/ACM Curriculum Recommendations Committee. They will also be eligible to get admission in the MS (CS) Programme of AIOU.

The BS (CS) is 140 credit hours programme and may be completed in minimum four years (eight semesters). Two semesters are offered in a year as Spring and Autumn. The duration of each semester is 18 weeks.

Note:

The maximum time limit to complete the BS (CS) Programme is Seven Years from the date of first registration of the student in this programme.

b) Objectives:-

To develop the professionals in the field of Computer Science.

- To provide high quality education at low cost.
- To provide knowledge to individuals seeking computer skills to increase their job opportunities in their current careers or to pursue new careers.
- To learn in-depth knowledge of computer languages, Software Engineering, computer architecture, large-scale system software and multimedia in the design.
- To provide outreach for rural areas.
- To provide sufficient conceptual and skill based know how so that successful graduates could initiate IT career in industry and academia.

c) Eligibility

The minimum requirements for admission in a Bachelor degree program in Computer Science is at least 50% marks in Intermediate (HSSC) examination with mathematics or equivalent qualification with mathematics certified by IBCC.

d) Offering of BS (CS) Program at Selected Approved Study Centers/Regional Offices (See Advertisement)

The Department of Computer Science is offering BS (CS) Program at Selected Approved Study Centers/Regional Offices (See Advertisement).

e) Offering of BS (CS) Programme at Dera Ghazi Khan, Rahim Yar Khan, Multan and Bahawalpur

The Department of computer Science is also offering BS (CS) Programme at Dera Ghazi Khan, Rahim Yar Khan, Multan and Bahawalpur using modern technologies. Under this programme, the course work will be conducted through video-conferencing /internet. Distance Education will be delivered by faculty members from Department of Computer Science. A local faculty member/staff will be provided to assist in administrative and teaching assignments. All assessments will be performed as per rules of the University.

1. Applying/Admission Procedure

It may please be based on Open Merit. The instructions should be verified through directorate of ICT and Admission Department.

2. Selection Criteria

Admission will be given to **all candidates** satisfying the eligibility requirements, subject to viable group of students at the selected Approved Study/Regional Offices.

f) Scheme of Study

Semester 1

	Code	Title	Credit Hours	Fee (Rs.)
1.	9407	English-I+ (ODL)	3(3+0)	510/-
2.	9402	Pakistan Studies+ (ODL)	3(3+0)	510/-
3.	9401/ 418	Islamic Studies/Ethics+(ODL)	3(3+0)	510/-
4.	9421	Introduction to ICT	3(2+1)	6000/-
5.	9423	Mathematics for Computing-I	3(3+0)	6000/-
6.	9422	Basic Electronics	3(2+1)	6000/-

Semester 2

	Code	Title	Credit Hours	Fee (Rs.)
1.	9413/ 0112	Foreign Language (Arabic+) / (French*)	3(3+0)	Rs.510/- with Arabic and Rs.3770/- with French Online
2.	3403	Mathematics for Computing-II	4(3+1)	8000/-
3.	3407	Programming Language-I	4(3+1)	8000/-
4.	3409	Digital Logic Design	4(3+1)	8000/-
5.	3454	Linear Algebra	3(3+0)	6000/-

Semester 3

	Code	Title	Credit Hours	Fee (Rs.)
1.	3406	Discrete Mathematics	4(4+0)	8000/-
2.	3411	Programming Language-II	4(3+1)	8000/-
3.	3438	Computer Communications & Networks	4(3+1)	8000/-
4.	3453	Computer Organization & Assembly	3(2+1)	6000/-
5.	3456	Business Communication	3(3+0)	6000/-

Semester 4

1.	3408	Data Structure	3(2+1)	6000/-
2.	3415	Programming Languages-III	3(2+1)	6000/-
3.	3416	Computer Architecture	3(3+0)	6000/-
4.	3447	Statistics & Probability	3(3+0)	6000/-
5.	3457	Management Theory & Practice	3(3+0)	6000/-
6.	3496	Ordinary Differential Equations	3(3+0)	6000/-

Semester 5

1.	3410	Database-1	4(3+1)	8000/-
2.	3414	Software Engineering-1	4(4+0)	8000/-
3.	3439	Operating System	4(4+0)	8000/-
4.	3452	Theory of Automata	3(3+0)	8000/-
5.	3466	Analysis & Design of Algorithms	3(3+0)	6000/-
6.	4470	**BS Internship Seminar	0	0

Semester 6

1.	3412	Research Methods	3(3+0)	6000/-
2.	3449	Human Computer Interaction	3(2+1)	6000/-
3.	3451	Artificial Intelligence	3(3+0)	6000/-
4.	3461	Management Information System	3(3+0)	6000/-
5.	3468	Compiler Construction	3(3+0)	6000/-
6.	3497	Information Security	3(3+0)	6000/-

Semester 7

	Code	Title	Credit Hours	Fee (Rs.)
1.	3498	Software House Practices	3(3+0)	6000/-
2.	3499	Mobile Application Development	3(2+1)	6000/-
3.	-	CS Major-I	-	
4.	-	CS Major-II	-	
5.	-	CS Major-III	-	

Semester 8

1.	-	CS Major-IV	-	
2.	-	CS Major-V	-	
3.	-	CS Major-VI	-	
4.	3475	Project	6(0+6)	13025/-

* The course is offered in online mode in collaboration with Government of France.

+ These courses are offered in distance learning mode.

**BS Internship Seminar: The student will be assigned an internship task that he/she should complete in 4-6 weeks and give a seminar.

Note: 3 (3 + 0) means 3 hours lecture per week,
 3 (2 + 1) means 2 hours lecture and 3 hours lab per week,
 4 (3 + 1) means 3 hours lecture and 3 hours lab per week,
 4 (4 + 0) means 4 hours lecture per week.

The 3475 project course (6 credit hours) is compulsory. In addition the student may take 20 credit hours from the Computer Science Major list. University may add major area or may add courses to a major area.

Major Areas of Specialization (BS (CS) Electives)**Software Engineering**

Code	Title	Cr. Hrs.
3465	Software Engineering-II	3(3+0)
3467	Database-II	3(3+0)
3464	Object-Oriented Analysis & Design	3(3+0)
3481	Design Patterns	3(3+0)
3482	Software Architecture	4(4+0)
3483	Software Quality & Testing	4(4+0)
3475	Project	6(0+6)

Information Technology

3442	IT Marketing Concepts	3(3+0)
3445	Database Administration	3(2+1)
3444	Network & System Administration	4(3+1)
3471	Introduction to E-Business	4(3+1)
3472	IT Services Management	3(3+0)
3473	Computer Law	3(3+0)
3475	Project	6(0+6)

Networking

3476	Networking Strategy	3(3+0)
3444	Network & System Administration	4(3+1)
3484	Data & Network Security	3(3+0)
3485	Distributed Computing	4(4+0)
3486	Wireless Networks	3(3+0)
3487	Network Programming	3(2+1)
3475	Project	6(0+6)

Multimedia

Code	Title	Credit Hours
3446	Web Design Tools	4(3+1)
3478	Multimedia Script Writing	3(2+1)
3462	Multimedia Systems	3(3+0)
3479	Multimedia Design	3(2+1)
3480	Audio & Video Production	3(2+1)
3469	Computer Graphics	4(4+0)
3475	Project	6(0+6)

General

3465	Software Engineering–II	3(3+0)
3467	Database-II	3(3+0)
3464	Object-Oriented Analysis & Design	3(3+0)
3481	Design Patterns	3(3+0)
3482	Software Architecture	4(4+0)
3483	Software Quality & Testing	4(4+0)
3442	IT Marketing Concepts	3(3+0)
3445	Database Administration	3(2+1)
3444	Network & System Administration	4(3+1)
3471	Introduction to E-business	4(3+1)
3472	IT Services Management	3(3+0)

3473	Computer Law	3(3+0)
3476	Networking Strategy	3(3+0)
3484	Data & Network Security	3(3+0)
3485	Distributed Computing	4(4+0)
3486	Wireless Networks	3(3+0)
3487	Network Programming	3(2+1)
3446	Web Design Tools	4(3+1)
3478	Multimedia Script Writing	3(2+1)
3462	Multimedia Systems	3(3+0)
3479	Multimedia Design	3(2+1)
3480	Audio & Video Production	3(2+1)
3469	Computer Graphics	4(4+0)
3404	Physics	4(4+0)
3402	Programming Concepts	4(3+1)
3413	Data Communication	4(4+0)
3477	Design Fundamentals	3(3+0)
3418	Networking Design	3(3+0)
3417	Numerical Analysis	3(2+1)
3475	Project	6(0+6)

The Department of Computer Science reserves the right to offer or may not offer listed specialization area or a particular course depending upon the available faculty/laboratory resources and viable student's enrollment. The department may add other specialized areas or may add elective courses to any specialized defined area.

g) Assessment

Course Work: The following assessment criteria are applied to BS (Computer Science) programme:

ASSESSMENT TYPE		COURSE TYPE							
		Face to Face		Distance Learning		French Online		Project	
		Qty	Wt (%)	Qty	Wt (%)	Qty	Wt (%)	Qty	Wt (%)
Continuous	Assignments	2	10	2	30	2	10	-	-
	Midterm Test or Lab	1	20	-	-	1	20	-	-
	Presentation	-	-	-	-	-	-	4	30
Final	Written Paper	1	70	1	70	1	70	-	-
	Viva Voce	-	-	-	-	-	-	1	70
Total Marks (%)		100		100		100		100	

The passing of a course requires aggregate scoring in continuous assessment and final examination as per AIOU rules. There is laboratory test for laboratory oriented courses and written midterm test for courses without laboratory work.

1. The detail about the project is available at the Study Centers.

h) Fee Structure

Also keeping in line with the tradition of low cost

educational services, the fees of BS (CS) programme courses is affordable. The details of the fee payable are given below:

First Semester Fee for BS (CS) Programme

Item	Rate	Total
Registration Fee: (at the time of 1 st admission)	Rs.500/-	Rs.500/-
Admission Fee: (at the time of 1 st admission)	Rs.500/-	Rs.500/-
Tuition Fee: Distance Courses: per course	Rs.510/-	3×510/- = Rs.1530/-
Face to Face Course Fee: Per Course	Rs.6000/-	3×6000/- = Rs.18000/-
Technology Fee (each semester)	Rs.200/-	Rs.200/-
Lab Fee	Rs.5000	Rs.5000/-
Total Fee for First Semester		Rs.25730/-

All students are required to pay full fees as prescribed at the beginning of each semester. The university reserves the right to revise the fee structure as deemed or to add any fee considered appropriate at any time during the study period. All such changes will be applicable to all students.

i) Programme Coordinator:

For further information, please feel free to contact:

Chaudhary Muhammad Shahbaz Anjum

Email: dcs@aiou.edu.pk

Phone No: 051-9057780, 051-9057809

j) Faculty Members

Prof. Dr. Syed Zafar Ilyas
Dean, Faculty of Sciences
Contact: 051-9057729

1. Dr. Moiz Uddin Ahmed
In-Charge, DCS/
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3. Dr. Muhammad Arshad Awan
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4. Chaudhary Muhammad Shahbaz Anjum
Lecturer, DCS, AIOU
Contact #: 9057780
5. Ms. Sana Naseem Karam
Lecturer, DCS, AIOU
Contact #: 9057158
6. Mr. Tahir Javed
Lecturer, DCS, AIOU
Contact #: 051-9057440

DEPARTMENT OF MATHEMATIC

Introduction:

The Department of mathematics was established in 2014 under the faculty of Sciences. Since then the Department has been growing in strength. Presently the Department is offering courses of Mathematics at Secondary School Certificate (SSC), Higher Secondary School Certificate (HSSC) and Bachelor levels. The Department is running the following programs.

i) M.Phil. Mathematics

ii) M.Sc Mathematics

iii) BS Mathematics

In future the Department intends to start Ph.D Mathematics Program. Our mission is to produce mathematicians who can contribute to the needs of the society.

BS Mathematics Program

Introduction:

To meet the challenging requirements of the fast growing world, the Department of Mathematics has planned to launch BS Mathematics Program. Our BS mathematics has been designed after consulting syllabi of national and international universities. The BS degree is deemed equivalent to M.Sc mathematics. BS degree holders are being preferred throughout the world as their knowledge is more focused on mathematics. Our BS mathematics program will produce well trained, highly numerate and computer literate graduages.

Objectives:

- To enhance the qualification of those who could not continue their education after F.A/ F.Sc through formal universities.
- To provide an opportunity to in service persons to improve their qualification and get promotion in their respective departments.
- To provide in-depth understanding of Mathematics and apply them in real life projects.
- To produce quality teacher/researchers of Mathematics at all levels.

Summary of the Program:**Duration:** 8 Semesters (4 years)**Total Credit Hours:** 134.**Eligibility:**

Candidates having HSSC (Math as major subject) or equivalent with minimum 2nd division.

Admission Procedure:

- Selection of the candidates will be made strictly on merit basis/criteria laid down by the Department and University.
- There will be a departmental admission committee to conduct admission test and interview to finalize the admission.

Payment of Fee:

Only selected candidates should deposit the fee after receiving the admission letter from the Math Department, AIOU, Islamabad.

Hostel Facility:

The hostel facility is available for both male and female students of AIOU. Separate fee has to be paid for attaining the hostel facility and this facility is subject to availability.

Scheme of Studies:**Semester I**

Sr. No	Course Code	Course Title	Credit Hrs
1.	9407	English-I (ODL)	3(3+0)
2.	4432	Calculus-I	3(3+0)
3.	9402	Pakistan Studies (ODL)	3(3+0)
4.	3400	Fundamentals of Compt.	4(3+1)
5.	4434	Introductory Statistics	3(3+0)
6.	4471	Set Theory and Logic	3(3+0)
			19

Semester II

	Course Code	Course Title	Credit Hrs
1.	9408	English-II (ODL)	3(3+0)
2.	4433	Calculus-II	3(3+0)
3.	9403	Pakistani Adab-I (ODL)	3(3+0)
4.	1549	Discrete Mathematics-I	3(3+0)
5.	4441	Intro. to Env. Sciences	3(3+0)
6.	9410	Introduction to Sociology: Culture and Society (ODL)	4(3+1) 3(3+0)
			19

Semester III

Sr. No.	Course Code	Course Title	Credit Hrs
1.	9409	English-III (ODL)	3(3+0)
2.	9401	Islamiat (ODL)	3(3+0)
3.	5459	Waves and Oscillations	3(3+0)
4.	4472	Algebra-I	3(3+0)
5.	4473	Analytical Geometry	3(3+0)
6.	4474	Vector and Tensor Analysis	3(3+0)
			18

Semester IV

	Code	Course Title	Credit Hrs
1.	4489	Probab. Theory & Stats.	3(3+0)
2.	5461	Heat and Thermodynamics	3(3+0)
3.	4475	Algebra-II	3(3+0)
4.	4476	Mathematical Methods	3(3+0)
5.	9413/9414	Language Arabic/French(ODL)	3(3+0)
6.	4477	Computing Tools	3(2+1)
			18

Semester V

Sr. No.	Course Code	Course Title	Credit Hrs
1.	1520	Computer and Scientific Applications C++	3(3+0)
2.	1521	Topology	3(3+0)

3.	1522	Linear Algebra	3(3+0)
4.	1523	Real Analysis-I	3(3+0)
5.	1525	Ordinary Differential Equations	3(3+0)
			15

Semester VI

	Course Code	Course Title	Credit Hrs
1.	1524	Differential Geometry	3(3+0)
2.	1527	Complex Analysis	3(3+0)
3.	1528	Group Theory	3(3+0)
4.	1529	Analytical Mechanics	3(3+0)
5.	1530	Real Analysis-II	3(3+0)
			15

Semester VII

	Course Code	Course Title	Credit Hrs
1.	1531	Numerical methods	3(3+0)
2.	1532	Partial Differential Equations	3(3+0)
3.	1533	Functional Analysis	3(3+0)
4.	1534	Theory of Rigns	3(3+0)
5.	1538	Mathematical Statistics-I	3(3+0)
			15

Optional

Sr. No.	Course Code	Title of the Course	Credit Hrs.
1.	4478	Mathematical Finance-I	3(3+0)
2.	4479	Theory of Racks and Quandles	3(3+0)
3.	4480	Research Project	3(3+0)
4.	1535	Fluid Mechanics	3(3+0)
5.	1540	Applied Number Theory	3(3+0)
6.	1542	Mathematical Statistics-II	3(3+0)
7.	1544	Optimization	3(3+0)
8.	1545	Analytical Dynamics	3(3+0)
9.	1546	Mathematical Modeling	3(3+0)
10.	1547	Graph Theory	3(3+0)
11.	1550	Research Report	3(3+0)
12.	1537	Operation Research	3(3+0)
13.	1539	Combinatorics	3(3+0)
14.	1541	Galois Theory	3(3+0)
15.	1548	Algebraic Topology	3(3+0)
16.	1536	Relativistic Mechanics	3(3+0)
17.	9415	History of Mathematics	3(3+0)

FEE TARIFF FOR Ist SEMESTER:

Registration Fee (Once at time of I st admission)	Rs.500/-
Technology Fee	Rs.200/-
Admission Fee:	Rs.500/-
Fee for per 3 credit hour course Rs. 6000/-	Rs. 6000×3= Rs. 18000/-
Course Code (3400) Fee: Rs. 8000/-	Rs.8000/-
Fee for per Open distance learning course	Rs. 510× 2 =

Rs. 510/-	Rs. 1,020/-
Lab Fee	Rs.750/-
Total Fee for Ist Semester	Rs. 28,970/-

Applying For Admission**Procedure:**

Please send prescribed printed admission forms (duly filled in) along with the attested copies of testimonials/marks sheet before or on the closing date to:

Department of Mathematics
Block # 07, Room No. 11,
Allama Iqbal Open University, H-8, Islamabad.

Instructional Methodology:**Study material:**

Books will be provided to the students in soft form, along with the list of recommended books for further readings. Two assignments for each course will be given.

Mode of Teaching:

For each course, 45 hours face to face teaching at main campus Islamabad will be required. In this regard, the classes will be arranged by the Department at AIU main campus, Islamabad on regular basis including around 10-15 days workshop at the beginning and about 10-15 days at the end of each semester if required. The final schedule of the lectures will be distributed to the students at the start of the classes during each semester at AIU, Islamabad. Minimum 70% attendance is necessary in all subjects as per AIU rules.

Assignments/ Test:

Two assignments for each course will be given in a semester for practice only, having no weightage. 30% weightage of the aggregate marks will be given to the sessional tests.

Final Examination:

Final examination will be held at Main Campus, AIOU, Islamabad at the end of each semester, 70% weightage of the aggregate marks will be given to the final exam.

Minimum Passing Marks:

Assignments/ Class test(s)	50%
Final Examination	50%
Aggregate	50%

Note: The student has to qualify each component of a course separately

FACULTY MEMBERS

- 1. Dr. Nasir Rehman**
Associate Professor/Chairman
Phone: 051-9250056 051-9057191
- 2. Dr. Naqeeb-ur-Rehman**
Assistant Professor
051-9057339
- 3. Mr. Muhammad Faisal Iqbal**
Lecturer
Phone: 051-9057380
- 4. Mr. Muhammad Aatif**
Lecturer (M.Sc Math Coordinator)
Phone: 051-9057197

5. Dr. Irfan Mustafa

Lecturer (M.Phil Math Coordinator)
Phone: 051-9057155

6. Dr. Muhammad Nazam

Lecturer
Phone: 051-9057734

7. Ms. Fouzia Rehman

Research Associate (BS Math Coordinator)
Phone: 051-9057393

8. Staff:

Department of Mathematics

Phone: 051-9057734

DEPARTMENT OF PHYSICS

Introduction:

Realizing the need of technology and scientific education in Pakistan Department of Physics at AIOU began in 1998 with technological needs in areas like Energy, Energy Efficiency, Climate, Energy for Sustainable Development, Renewable energy, Hydrogen Energy, Environment, astronomy, nanotechnology, materials science, Plasma, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and nuclear fields. A major emphasis of current research activities are on promotion in renewable energy and related areas in which the Department have led to innovations.

The Department is presently running BS 4 years, MSc, MPhil & PhD degree program with specialization in various disciplines. New fields of specialization and programme of studies are

approved and be operational from the next academic year. Apart from capacity development activities Department of Physics has been involved in several international, national and regional research projects. Physics Deptt has developed research linkage with other National and International Universities and research organizations of repute to ensure two-way flow of knowledge.

Vision:

The Department of Physics carries out Physics and provides teaching and research programmes that will contribute significantly to the development of human capacity, science and technology in Pakistan. Our vision is to see our graduates and postgraduates to be equipped with the fundamental knowledge of Physics, problem solving, life and communication skills. This will be achieved by reviewing and developing relevant academic programmes and research and research projects to address Pakistan technological needs in areas like Energy, Renewable energy, Hydrogen Energy, Environment, Astronomy, Nanotechnology, Materials science, Plasma, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and Nuclear Physics. Our vision is to be a locally and internationally recognized Physics Department that exposes its successes in public awareness campaign and through established knowledge dissemination channels.

Mission:

The Department of Physics at AIOU becomes a nationally and internationally recognized research and educational unit. Our faculty strives to push the boundaries of our understanding in a wide variety of fundamental and applied Physics areas while

providing the best research opportunities for our majors. The blending of classroom learning with training in XXI Century front-edge research facilities allows our graduates post graduates to become successful researchers, teachers and applied scientists in nowadays-competitive marketplace. At the same time, we are fully committed, as the physics department of the major research university in our border region, to contribute to the general public appreciation and respect for the scientific work and knowledge.

Core Values:

To perform the highest levels of competence and professionalism in research and training, acting with utmost honesty and integrity. To sensitivity to staff and student welfare while instituting measures that meet the need of all stake holders Advance knowledge and technologies Generate, preserve and disseminate knowledge and be involved in the development of innovative products Cherish academic freedom, nurture and reward talent. The Department aspires to be an effective agent of change and a model for the other Department in the field of research so as to meet the grooming demands of the new millennium.

The focus on area of specialization in DOP at AIOU in on the following areas:

Energy, Energy Efficiency, Energy Conservation, Energy for Sustainable Development, Electric power system Management, Energy Economics and Planning Renewable energy, Hydrogen Energy, Environment, Climate change, Astronomy, Nanotechnology, Materials science, Plasma, Medical Physics, Laser and Optics, Cosmology, Geo Physics, Density Functional Theory (DFT), Modeling and Simulation and Nuclear fields.

BS Physics

Objectives of the Programme:

The main educational objectives of BS (4-year) degree programme are:

1. To impart students with a conceptual understanding of the fundamental principles of Physics, natural laws and their interpretation, as well as mathematical formulation of the physical phenomena in nature.
2. To develop critical skills necessary for solving unknown problems from our physical surroundings.
3. To develop the capability of analyzing, addressing and posing solutions to problems of natural importance and to instill a deep appreciation of the need for optimum utilization of natural resources and environment.
4. To instill in students the habit of independent thinking, deep inquiry, and motivation for self-education.
5. To sharpen our students' mathematical prowess making them capable of modeling, analyzing and predicting the behaviour of physical processes.
6. To enhance our students skills in scientific communication and the ability to clearly present physics and science in simple and clear language.
7. To introduce to students the spirit of working in interactive groups with the necessary requirements of scientific and professional ethics.
8. To develop hands-on experience in different laboratory techniques, modern instrumentation.
9. To enhance student competence in the design and conduct of experiments and analysis and presentation of experimental data and results.
10. To provide an in-depth understanding of some specialized area of Physics through the option of elective courses.
11. To equip students with the necessary skill set for pursuing careers in Physics education, research and industry in government or private organizations

Eligibility Requirements:

- FSc / I.Cs (Physics, Mathematics combination) / DAE with 45% marks or 2nd division.
- Admissions will be strictly on merit on number of seats available.
- Interview will be conducted in the Department for selection of students.
- Students passing the test will be called for interview.

Scheme of Studies: *Semester wise course offering:*

Semester – 1st

S. No.	Course Title	Code	Credit Hours
1.	English Composition & Comprehension	5451	3(3+0)
2.	Pak Studies	5465	2(2+0)
3.	Basic Calculus -I	5475	3(3+0)
4.	Introduction to Computers	5468	3(3+0)
5.	Mechanics	5452	4(3+1)
6.	Laboratory for mechanics & fluids	5453	1(1+0)
7.	Sociology	5469	3(3+0)

Semester – 2nd

S. No.	Course Title	Code	Credit Hours
1.	Technical & Business Writing	5454	3(3+0)
2.	Islamic Studies or Ethics (for non-Muslim students only)	5466 5467	2(2+0)
3.	Basic Calculus-II	5476	3(3+0)
4.	Electricity & Magnetism	5455	4(3+1)
5.	Laboratory for Electricity & Magnetism	5456	1(1+0)
6.	Waves & Oscillations	5459	3(3+0)
7.	Laboratory Techniques and Error Propagation	754	3(3+0)

Semester – 3rd

S. No.	Course Title	Code	Credit Hours
1.	Communication Skills	5458	3(3+0)
2.	Algebra in Physics	5477	3(3+0)
3.	Heat & Thermodynamics	5461	3(3+0)
4.	Laboratory for Thermodynamics	5460	1(1+0)
5.	Fundamentals of Statistics	5470	3(3+0)
6.	Mass Communication	5471	3(3+0)

Semester – 4th

S. No.	Course Title	Code	Credit Hours
1.	Modern Physics	5457	3(3+0)
2.	Differential Equations	5472	3(3+0)
3.	Probability & Statistics	5473	3(3+0)
4.	Optics	5462	3(3+0)
5.	Laboratory for Optics & Spectroscopy	5463	1(1+0)
6.	Fundamentals of Environmental Sciences	5474	3(3+0)

Semester – 5th

S. No.	Course Title	Code	Credit Hours
1.	Mathematical Methods in Physics-1	751	3(3+0)
2.	Classical Mechanics & Relativity	752	3(3+0)
3.	Electronics	2564	3(3+0)
4.	Atomic & Molecular Physics	2551	3(3+0)
5.	Laboratory for General & Nuclear Physics	766	2(2+0)

Semester – 6th

S. No.	Course Title	Code	Credit Hours
1.	Mathematical Methods in Physics-II	755	3(3+0)
2.	Quantum Mechanics-I	756	3(3+0)
3.	Electromagnetic Theory – I	765	3(3+0)
4.	Thermal & Statistical Physics	2566	3(3+0)
5.	Computational Physics	769	3(3+0)
6.	Laboratory for Electronics	762	2(2+0)

Semester – 7th

S. No.	Course Title	Code	Credit Hours
1.	Electromagnetic Theory – II	2565	3(3+0)
2.	Quantum Mechanics-II	759	3(3+0)
3.	Solid State Physics-I	761	3(3+0)
4.	Lasers & Optics	758	3(3+0)
5.	Digital & Computer Hardware Electronic	2553	3(3+0)
6.	Laboratory for Digital & Computer Hardware Electronics	2556	3(3+0)

Semester – 8th

S. No.	Course Title	Code	Credit Hours
1.	Research Techniques	5464	3(3+0)
2.	Nuclear Physics	760	3(3+0)
3.	Advanced Digital & Computer Hardware Electronics	2560	3(3+0)
4.	Laboratory for Advanced Digital & Computer Hardware Electronics	2561	4(4+0)
5.	Electronic Communication System	2559	3(3+0)

Total Credit Hours: 135**Degree Requirement:**

For the award of BS (Physics) degree, the students will have to complete the courses offered equivalent to 135 credit hours within a minimum period of eight semesters.

Registration fee: (at 1 st time in University)	Rs. 500/-
Admission fee: (at 1 st time in programme)	Rs.500/-
Technology fee	Rs.200/-
English Composition & Comprehension	Rs.6000/-
Pakistan Studies	Rs.4000/-
Basic Calculus-I	Rs.6000/-
Introduction to Computers	Rs.6000/-
Mechanics	Rs.8000/-
Laboratory for Mechanics & fluids	Rs.2000/-
Sociology	Rs.6000/-
Total Fee	Rs.39200/-

Note: Only selected candidates will be informed individually to deposit the prescribed fee in the AIOU main campus branches on same date.

Instructional Methodology:

Allama Iqbal Open University employs media mix as methodology of instruction in which printed material, audiovisual support, and face-to-face tutorial support are mixed in accordance with the requirement of the discipline and the level of course. In view of special requirements of post-graduate studies in physics the following methodology of instruction will be followed:

i) Study Material:

The University will provide reprinted and compiled course books.

ii) Tutorial Support and Workshops:

Face to Face lectures will be a support for this programme by resource persons in the lecture sessions. A minimum, 48 hours

of face to face teaching for each 03 credit hour course, will be provided in these sessions. Attendance in these sessions is compulsory. Students failing to attain 70% attendance in theory courses will not be eligible to appear in the final examination. Laboratory course and its practical work will be supervised and assessed by the laboratory course supervisors. 80% attendance is compulsory for all the students in the laboratory course. AIOU will not bear any cost regarding TA/DA or boarding/lodging facilities during the classes.

iii) Schedule of classes:

The schedule of the classes will be communicated to the students through mail and message. During any workshop AIOU reserves the right to change/alter the schedule at any time.

iv) Assessment:

Student performance is evaluated / assessed as under:

Class assignment through quiz/sessional test/assignment weightage

= 20%

Theory Course with 70% compulsory attendance & Laboratory course with 80% compulsory attendance

= 10%

Final Paper

= 70%

Aggregate

= 50%

At the end of each semester, the university will arrange final examination. The Roll number slips and other relevant information related to examination centers will be provided to the students before the examination. The students who fail in the final examination will be allowed two more chances to

reappear in immediate subsequent semester examinations on payment of examination fee.

Admission Procedure:

Only the prescribed admission forms will be entertained. Admission forms (duly filled in) along with the required documents/testimonials/marks sheets should be sent to:

BS Physics Programme Coordinator

Department of Physics,
Research Complex / Science Block, 1st Floor,
Allama Iqbal Open University,
Sector H-8, Islamabad.

Admission will be finalized after test and interview.

Faculty Members:

Prof. Dr. Syed Zafar Ilyas,

Chairman

Department of Physics,

Phone # 051-9057728

Mr. Ather Hassan

Assistant Professor,

Phone # 051-9057214

Dr. Surayya Mukhtar

Assistant Professor,

Phone # 051-9057184

Dr. Tariq Jan

Assistant Professor,

Phone# 051-9057214

Ms. Hareem Mufti

Lecturer,

Phone # 051-9057727

Mr. Abdul Jalil

Lecturer,

Phone # 051-9057214

Ms. Uzma Nosheen

Lecturer,

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Ms. Tayyba Aftab

Lecturer

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Research Associate,

Phone # 051-9057214

Ms. Zeba Sultana

UDC

Phone # 051-9057728

Amjad Satti

Laboratory Assistant

Phone # 051-9057728

Muhammad Aman

Laboratory Assistant

Phone # 051-9057728

DEPARTMENT OF STATISTICS

Introduction:

The Department of Statistics was established in 1988 in the faculty of Sciences, Allama Iqbal Open University. Since then, the faculty and students have shared a common goal of maturing the Department with sheer hard work and constant struggle. Statistical sciences have significant impact on our lives and are a key to discoveries and innovation. Over the time, with concerted efforts, the Department has grown to its full potential and is vigorously involved in participating towards global efforts of driving a new era of growth, development and productivity. Since, our world is becoming more quantitative and data-focused, job opportunities in statistics are plentiful and projected to increase worldwide. Therefore, the alumni of the department of statistics have been working in various government departments and private sector. The vision of Department is to impart quality education that focuses on collaborative learning through innovative teaching and research methodologies. It aims to create an environment that enables students to effectively engage in making lasting contributions in diverse fields according to rapidly changing demands of not only the home country but the entire globe. The Department is determined to further develop a state of the art model of learning and research, which will benefit the masses across the board.

Academic Programmes

Department of Statistics offers the following degree programmes. All these programmes are approved by Higher Education Commission, Islamabad.

- PhD Statistics
- MPhil Statistics
- MSc Statistics
- BS (4 years) Statistics

All the courses and programmes are designed to meet the challenging statistical needs in life sciences, information technology, social sciences and other allied disciplines. The course outlines of all level courses have been designed and updated recently after consulting syllabi of national and international universities. It helps to strengthen the statistical concepts and logical thinking among our students.

Presently, these degree programmes are offered at main campus only. However, in near future, the Department also intends to offer degree programmes at regional headquarters.

BS Statistics Programme

Introduction

With the passage of time in the new era of globalization, significant changes have been made in almost all walks of life to keep in pace with the growing world. Among many other fields, improvement in existing education system has become the top most priority of many nations across the globe. Therefore, it is the need of time to modify our current education system in order to meet the international standards. Having a vision of brighter future with compatible educated

youth, the Department of Statistics is launching BS Statistics programme from Spring 2017. The BS Statistics would be sixteen years education equivalent to MSc Statistics and fulfilling the international standards of graduate degree.

Aims and Objectives:

1. To enhance and upgradation of qualification of those potential candidates who do not have sufficient resources to continue their studies after intermediate.
2. To enable the students to get a better insight into in depth knowledge of Statistics.
3. To produce quality teacher/researchers of Statistics at all levels.
4. To prepare well trained and skilled graduates to cater the needs of future in the field of Statistics.
5. To produce young and energetic minds in the field of Statistics in order to promote innovative research and critical thinking.

Eligibility:

Candidate must have at least 2nd division or 45% marks in HSSC or equivalent exams approved/verified by Inter Board Committee of Chairmen (IBCC).

Merit Criteria:

After scrutinize the eligible candidates, the department will call the eligible applicants for interview and admission committee will recommend the suitable candidates on merit basis.

Degree Requirements:

For the award of BS Statistics degree, the student will have to qualify the 134 credit hours consisting 44 courses within a minimum period of eight semesters (4 years) and maximum period of 14 semester (7 years).

Payment of fee:

Only the selected candidates will be asked to deposit the required after receiving the provisional offer letter of admission from the Admission Department, AIOU, Islamabad.

Hostel and Cafeteria Facilities:

The said facilities are available for the students of AIOU only. Separate fee has to be paid subject to the availability of food and space in Hostels.

Library and Internet Facilities:

The Library and internet facilities are also available at main Campus, AIOU. The Central Library is enriched with latest text & recommended books, e-books & free internet facilities. The library also has an accessible centre for blind students. The Department of Statistics also has its own computer laboratory equipped with latest software's of Statistics & internet facilities.

Scheme of Studies:

The full programme of BS Statistics comprises eight semesters. The all courses are compulsory to qualify for the award of BS Statistics degree. The semester wise course offering is as under:

1st Semester

Sr. No.	Course Title	Code	Credit Hours
1.	Fundamentals of Computer	3400	4(3+1)
2.	Calculus-I	4432	3(3+0)
3.	Introductory Statistics	4434	3(3+0)
4.	Pakistan Studies (ODL)	9402	3(3+0)
5.	English-I (ODL)	9407	3(3+0)

6.	Business Communications (ODL)	9412	3(3+0)
Sub Total			19

2nd Semester

Sr. No.	Course Title	Code	Cr.Hrs
1.	Calculus-II	4433	3(3+0)
2.	Introduction to Environment Sciences	4441	4(3+1)
3.	Introduction to Regression Analysis and Experimental Designs	4486	3(3+0)
4.	Pakistani Adab-I (ODL)	9403	3(3+0)
5.	English-II (ODL)	9408	3(3+0)
6.	Introduction to Sociology: Culture & Society (ODL)	9410	3(3+0)
Sub Total			19

3rd Semester

Sr. No.	Course Title	Code	Credit Hours
1.	Algebra-I	4472	3(3+0)
2.	Introduction to Probability & Probability Distributions	4488	3(3+0)
3.	Islamiat/Ethics (For Non-Muslim Students only) (ODL)	9401	3(3+0)
4.	Principles of Marketing (ODL)	9405	3(3+0)
5.	English-III (ODL)	9409	3(3+0)
6.	Population Studies (ODL)	9411	3(3+0)
Sub Total			18

ODL* (Open Distance Learning)

4th Semester

Sr. No.	Course Title	Code	Credit Hours
1.	Computing Tools	4477	3(2+1)
2.	Probability Theory and Statistics	4489	3(3+0)
3.	Basic Statistical Inference	4491	3(3+0)
4.	Official Statistics	4492	3(3+0)
5.	Human Resource Management (ODL)	9406	3(3+0)
6.	Arabic Language (ODL)	9413	3(3+0)
Sub Total			18

5th Semester

Sr. No.	Course Title	Code	Credit Hours
1	Statistical Methods	1551	3(3+0)
2	Sampling Techniques-I	1552	3(3+0)
3	Design & Analysis of Experiments-I	1553	3(3+0)
4	Probability & Probability Distributions-I	1554	3(3+0)
5	Advanced Calculus	1555	3(3+0)
Sub Total			15

6th Semester

Sr. No.	Course Title	Code	Credit Hours
1	Non Parametric Statistics	1513	3(3+0)
2	Probability & Probability Distributions-II	1556	3(3+0)
3	Regression Analysis	1557	3(3+0)
4	Sampling Techniques-II	1558	3(3+0)

5	Design & Analysis of Experiments-II	1559	3(3+0)
Sub Total			15

7th Semester

Sr. No.	Course Title	Code	Credit Hours
1	Mathematical Methods for Statistics	1514	3(3+0)
2	Statistical Inference-Estimation	1561	3(3+0)
3	Econometrics	1562	3(3+0)
4	Total Quality Management	1563	3(3+0)
5	Computer Programming (C & C++)	1564	3(3+0)
Sub Total			15

8th Semester

Sr. No.	Course Title	Code	Credit Hours
1	Statistical Inference-Testing of Hypotheses	1566	3(3+0)
2	Applied Multivariate Analysis	1567	3(3+0)
3	Data Analysis and Statistical Packages	1569	3(3+0)
4	Elective-I		3(3+0)
5	Elective-II		3(3+0)
Sub Total			15

Total BS Statistics Programme Credit Hours = 134

Following is the list of elective courses for BS Statistics programme:

Sr. No.	Course Title	Code	Credit Hours
1.	Reliability Analysis	1571	3(3+0)
2.	Data Mining	1572	3(3+0)
3.	Bayesian Statistics	1573	3(3+0)
4.	Biostatistics	1574	3(3+0)
5.	Operations Research	1568	3(3+0)
6.	Research Report	1570	3(3+0)

Note: Elective courses will be offered by the Department as per availability of resource persons.

Fee Tariff: (1st Semester) Total Credit Hours =19

Course Title	Code	Credit Hours	Course Wise
Fundamentals of Computer	3400	4(3+1)	Rs.8,000/-
Calculus-I	4432	3(3+0)	Rs.6,000/-
Introductory Statistics	4434	3(3+0)	Rs.6,000/-
Pakistan Studies (ODL)	9402	3(3+0)	Rs.510/-
English-I (ODL)	9407	3(3+0)	Rs.510/-
Business Communications (ODL)	9412	3(3+0)	Rs.510/-
Registration Fee (at the time of 1 st admission)			Rs.500/-
Admission Fee (at the time of 1 st admission)			Rs.500/-
Technology Fee			Rs.200/-
Lab Fee			Rs.750/-
Total fee for 1st Semester			Rs.23480/-

Fee structure for remaining semesters will be provided in due course of time.

Instructional Methodology:

Study Material:

A book for each course will be provided to the students by the university. A list of recommended books will also be given for further readings.

Face to Face teaching (Tutorials):

For each Non ODL course, there would be 45 hours face to face teaching support to the students. The distribution of the lectures will be provided to the students in classes/workshop after consultation with the teachers/resource persons. The classes will be supplemented by the computers where required. Over all 70%, attendance would be compulsory to appear in sessional tests.

Weekend Classes/Workshops:

The weekend classes/workshops will be arranged at Main Campus, AIOU, Islamabad only. The introductory workshop and end semester workshop may also be arranged at the beginning and at the end of each semester (if necessary).

Continuous Assessment:

- Two home-assignments for each course will be given to the students.
- Two sessional exams for each course will be conducted and 50% marks in sessional exam is mandatory to appear in final examination.
- A student having less than 50% marks in continuous assessment component would not be eligible to appear in

final exam. However, he/she can enroll himself/herself in the same course on the next offering as per AIOU rule.

- 30% weightage will be given to the assignments/sessional tests.

Final Examination:

Final Examination will be held at the end of each semester. 70% weightage will be given to the final examination.

Passing percentage:

Assignments/Sessional tests	50%
Final Examination	50%
Aggregate	50%

Note:

- The student will have to pass each component separately to pass a course. However, sessional tests must pass before to appear in the final examination.
- Please do not deposit/hand over any fee to any person along with admission form.

Applying Procedure for admission in BS Statistics

Please send the duly filled prescribed printed admission form along with testimonials from Matriculation to FA/FSc/ICom (twelve years education) level, CNIC and Domicile etc. particularly the detailed marks certificates (DMC) on the following address:

Chairman,
Department of Statistics,
Ground Floor, Block No.7, Sector H-8, AIOU, Islamabad Ph.
No. 051-9057266, 9250062
Email: statistics@aiou.edu.pk

FACULTY MEMBERS

- **Prof. Dr. Irshad Ahmad Arshad**
Chairman
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Email: irshad.ahmad@aiou.edu.pk
- **Dr. Muhammad Zakria**
Associate Professor
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- **Dr. Zahid Iqbal**
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- **Dr. Tauqir Ahmed Mughal**
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Research Associate
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- **Mr. Muhammad Sadil Ali**
Research Assistant
Email: sadil.ali@aiou.edu.pk
Staff Phone:
Ph: 051-9057266

DEPARTMENT OF CHEMISTRY

Introduction:

Department of Chemistry is a major department of the Faculty of Science. It was established in 1998 to offer postgraduate programmes in Chemistry. In the beginning only MSc programme was started, which was later extended to include MPhil and PhD programmes. These programmes have attracted teachers, employees of research organizations, industry and fresh graduates who found an opportunity to improve their qualifications. The faculty of the department comprises of one Professor, four Associate Professors, one Assistant Professor and four Lecturers. In addition the department also uses services of experienced professors as visiting faculty.

The department is situated in Research Complex on the main campus where it occupies the ground floor and a portion of the lower floor. With the expansion of lab facilities, the department has extended its academic activities by launching the BS programme from Spring, 2009. BS programme is visualized in the new scheme of higher education as a

fundamental step in improving the standard of graduate and postgraduate studies.

The study programmes in chemistry have been developed by the Faculty according to the guidelines provided by the Higher Education Commission (HEC). Necessary changes have been effected to suit our students, but without deviating fundamentally from the principles set by the HEC. The Committee of Courses of the department comprising distinguished professors and scientists of the country thoroughly screened the proposed syllabi.

Chemistry is an experimental science. Students learn basic techniques in the labs. Therefore, it is essential to provide best lab facilities to students of various levels. The chemistry department takes pride in offering the most modern lab facilities in the country to its students in all branches of chemistry. Its research labs are equipped with CHNS Analyzer, Thermal Analyzer, UV-Visible, Fluorescence and FTIR Spectrophotometer, GC-MS, Flash Column Chromatography and HPLC units, Atomic Absorption Spectrometer, and Electrochemical System. Teaching labs are well equipped with routine apparatus and basic instruments. These lab facilities make us one of the leading teaching and research departments of the country.

The department believes in the “Opportunity of Education to All”. Therefore, it has modeled its academic programmes to suit in- service teachers, employees of research organizations, industry and students who could not afford formal education for some reason. The department firmly believes in the promotion of chemistry as a science and in maintaining the highest standards.

Objectives:

- To promote chemistry as a science and to provide opportunity to those who could not educate themselves in formal system of education for one reason or another.
- To provide opportunities of professional growth to all those chemistry graduates who are working as technical staff in research organizations.
- To update the knowledge of in-service chemistry teachers.

BS Chemistry Programme**a) Introduction:**

There has been a continuous effort at the national level to upgrade the standard of college education. It is realized that our existing BSc programme does not meet international standards. The Higher Education Commission has recommended a four- year BS programme to be followed by a two-year MS programme. The BS degree is considered equivalent to MSc Chemistry. However, BS degree holders are given preference for the relevant job over MSc graduates as their knowledge is more focused on chemistry. It is a major structural change in our existing educational system. The country will enormously benefit from the fruits of this change in terms of improved and balanced knowledge and skill.

The department of chemistry offers the best facilities for this programme in the country. Its new labs and modern equipment together with qualified faculty makes it place to which students would like to be a part of it.

b) Objectives:

The main objectives of this programme are

- i. To offer training facilities of international standard.
- ii. To inculcate spirit of research to solve problems.
- iii. To unveil interesting finer points of chemistry and provide training facilities to all who desire to be educated.

c) Eligibility:

1. FSc (at least 2nd division with 45% marks) with Chemistry as one of the major subject.
2. DAE (Diploma Holders) in Chemical Engineering/ Chemical Technology from a Polytechnic Institute.
3. A-Level with Chemistry or Equivalent.

For further detail about admission please visit the University Website at: www.aiou.edu.pk

Or

Department of Chemistry

University Research Complex

Allama Iqbal Open University, H-8, Islamabad.

Contact ph: 051-9057262

(Please do not send any fee with the application form)

d) Scheme of Studies:

Currently this programme is being offered in Islamabad region only. Later on it will be opened for the entire country wherever the appropriate tutorial support and laboratories will be available.

The BS programme is minimum of four years duration, split into eight semesters. In the first four semesters, the main emphasis will be on basic chemistry, general and compulsory subjects. In the 5th and 6th semesters, Physical, Inorganic, Organic and Analytical chemistry will be offered as core courses. The specialized courses will be dealt in the seventh and eighth semester. Now, the Department is offering specialization in Organic, Inorganic/ Analytical and Physical Chemistry.

The maximum duration to complete BS Chemistry Programme is

Seven Years (14 Semesters)

SEMESTER WISE COURSE OFFERING

Semester-1

Course Title	Course Code	Credit Hours
Inorganic Chemistry	4421	4(3+1)
Cell Biology Genetics and Evolution	4401	4(3+1)
Pre-Calculus	4431	3(3+0)
Islamiyat (ODL)	9401	3(3+0)
English-I (ODL)	9407	3(3+0)

Semester-2

Organic Chemistry	4422	4(3+1)
Diversity of Plants	4402	4(3+1)
Calculus - I	4432	3(3+0)
Fundamentals of Computer	3400	4(3+1)
English-II (ODL)	9408	3(3+0)

Semester-3

Physical Chemistry	4423	4(3+1)
Basic Biochemistry	4425	4(3+1)
Environmental Chemistry	4443	4(3+1)
Pakistan Studies (ODL)	9402	3(3+0)
English III (ODL)	9409	3(3+0)

Semester-4

General Chemistry	4424	4(3+1)
Statistics for Chemists	4426	4(3+1)
Environmental Pollution	4442	4(3+1)
Public Relations (ODL)	9404	3(3+0)

Semester-5

Analytical Chemistry-I	2573	3 (3+0)
Physical Chemistry-I	2575	3 (3+0)
Organic Chemistry-I	2576	3 (3+0)
Inorganic Chemistry-I	2577	3 (3+0)
Mathematics for Chemists	2594	2 (2+0)
Chemistry Lab-I	2595	4 (0+4)

Semester-6

Analytical Chemistry-II	2574	3 (3+0)
Physical Chemistry-II	2580	3 (3+0)
Organic Chemistry-II	2581	3 (3+0)
Inorganic Chemistry-II	2582	3 (3+0)
Chemistry Lab-II	2596	4 (0+4)

SPECIALIZATION IN ORGANIC CHEMISTRY**Semester-7**

Heterocyclic Chemistry	2585	3 (3+0)
Stereochemistry of Organic Compounds	2586	3 (3+0)
Spectroscopic Methods in Organic Chemistry	2589	3 (3+0)
Advanced Organic Chemistry Lab-I	2597	3 (0+3)
Advanced Organic Chemistry Lab-II	2598	3 (0+3)

Semester-8

Chemistry of Natural Products	2587	3 (3+0)
Special Organic Reactions	2590	3 (3+0)
Organic Synthesis	2591	3 (3+0)
Advance Organic Chemistry Lab-III	2537	3 (0+3)
Advance Organic Chemistry Lab-IV	2538	3 (0+3)

SPECIALIAZATION IN INORGANIC/ANALYTICAL CHEMISTRY**Semester-7**

Course	Code	Credit
Coordination Chemistry	2539	3(3+0)
Non-Spectroscopic Instrumental Methods of Analysis	2540	3(3+0)
Basic Instrumental Methods of Analysis	2541	3(3+0)
Advance Inorganic Chemistry Lab-1	2542	3(0+3)
Advance Inorganic Chemistry Lab-II	2543	3(0+3)

Semester-8

Organometallic Chemistry	2544	3(3+0)
Group Theory for Chemist & its Applications	2545	3(3+0)
Advanced Environmental Chemistry	2547	3(3+0)
Advance Inorganic Chemistry Lab- III	3561	3(0+3)
Advance Inorganic Chemistry Lab-IV	3562	3(0+3)

SPECIALIAZATION IN PHYSICAL CHEMISTRY**Semester-7**

Chemical Kinetics	2548	3 (3+0)
Quantum Chemistry	2549	3 (3+0)
Electrochemistry	2550	3 (3+0)
Advance Physical Chemistry Lab-1	2568	3 (0+3)
Advance Physical Chemistry Lab-II	2569	3 (0+3)

Semester-8

Molecular Spectroscopy	2570	3 (3+0)
Chemical Thermodynamics	2571	3 (3+0)
Surface Chemistry	2599	3 (3+0)
Advanced Physical Chemistry Lab-III	3563	3 (0+3)
Advanced Physical Chemistry Lab-IV	3564	3 (0+3)

e) Fee Structure

Registration fee:	Rs.500/-
Admission fee	Rs.500/-
Technology fee (per semester)	Rs.200/-
First Semester Fee	Rs. 29020/-
Second Semester Fee	Rs. 36510/-
Third Semester Fee	Rs. 31020/-

Fourth Semester Fee	Rs. 30510/-
Fifth Semester Fee	Rs. 42000/-
Sixth Semester Fee	Rs. 38000/-
Seventh Semester Fee	Rs. 36000/- (with specialization: Organic Chemistry Inorganic/Analytical Chemistry Physical Chemistry)
Eight Semester Fee	Rs. 36000/- (with specialization: Organic Chemistry Inorganic/Analytical Chemistry Physical Chemistry)

f) Instructional Methodology:

Study Material:

Prescribed books/ study material/ reprinted or compiled course books will be provided by the University. However, the students are advised to consult other books from the list of recommended books for further reading.

Mode of Teaching:

In this programme, regular classes for all science courses and practical work will be conducted at AIOU Main Campus. Minimum 70% attendance is required in science subjects as per AIOU rules. However, compulsory courses i.e. Pakistan

Studies, Islamiyat, English, and a course from Social Sciences will be offered on distance learning mode. However the tutorial meetings of all ODL courses will be held at campus to facilitate the students and for smooth running of the programme.

Assessment System

Method of Assessment for Theory and Laboratory Courses

AIOU has adopted GPA/CGPA system from Spring Semester 2009 in all its four years Bachelor degree programmes.

Continuous Assessment:

Continuous assessment will be based on assignments and class tests. The pass percentage in assignment(s)/test(s) will be 50%. Assessment for all laboratory courses will be totally based on continuous assessment. A specific number of experiments will be conducted in each lab. Each experiment will be assessed separately. Minimum pass marks for each laboratory course will be 50%. The weightage of assignment/test & practical workshop in the final result will be 30%.

Final Examination:

Final examination of 100 marks for theory course will be conducted at the end of semester. The pass percentage in final examination will be 50% and its weightage in the final result will be 70%. Student will have to successfully complete each component independently to pass a course.

Method of Assessment for Laboratory Courses: Assessment for all laboratory courses will be totally based on continuous assessment. As already mentioned, the laboratory courses will be offered in the form of workshops. A specific number of

experiments will be conducted in each workshop. Each experiment will be assessed separately, and attendance in these workshops will be compulsory for every student. Minimum required marks to pass each laboratory course will be 50%.

Degree Requirements:

In order to become eligible for the award of degree of BS Chemistry, the student will have to successfully complete all the courses within a minimum period of four years (8 semesters).

FACULTY MEMBERS

1. Prof. Dr. Naghmana Rashid

Chairperson

Ph: 051-9250081, 051-9057818, 051-9057754

2. Dr. Uzma Yunus

Associate Professor

Ph: 051-9057755

3. Dr. Moazzam H. Bhatti

Associate Professor

Ph: 051-9057262

4. Dr. Muhammad Sher

Associate Professor

Ph: 051-9057198

5. Dr. Nasima Arshad

Associate Professor

Ph: 051-9057756

6. Dr. Muhammad Zaman Ashraf

Assistant Professor

Ph: 051-9057182

7. Ms. Mehwash Zia

Lecturer

Ph: 051-9057252

8. Dr. Farzana Shaheen

Lecturer

Ph: 051-9057198

9. Dr. Iqbal Ahmed

Lecturer

Ph: 051-9057874

10. Dr. Erum Jabeen

Lecturer

Ph: 051-9057414

GENERAL INFORMATION

- i. The certificates/degrees of AIOU are equivalent to any other recognized Board/University.
 - ii. A candidate who has passed BA/BSc degrees (Level-5 Qualification i.e. 14 years education) can be admitted in Third Year (5th Semester) of BS (four years) degree programme upon successful completion of 15-18 credit hours bridging courses to be decided by admitting University.
 - iii. A candidate is required to send complete admission form along with attested copies of all educational and experience certificates to Department as mentioned in the prospectus before or on the closing date.
 - iv. If an applicant of post-graduate/research level programme does not receive any information regarding admission within three months from submission of application, he/she should presume non-selected.
 - v. A course taken by any student cannot be change during the semester. However in real hardship cases, the change in courses will be allowed within fifteen days after receipt of books and deposit of prescribed fee.
 - vi. The address of a student will not be changed during the semester.
 - vii. **Admission to courses for both the Spring and Autumn semesters are generally offered in the months of February and August, respectively, whereas, examinations commenced in November and May respectively. The continuing students are sent computerized admission forms. However if for any reason, the student could not get the said form, he/she may purchase admission form from any Regional Office of the university or download from AIOU website and send it to the University within due date.**
- viii. Fee cannot be refunded once paid for admission nor can it be adjusted for any other programme
 - ix. On payment of the registration fee, each student will be issued a registration number. This number must be quoted in all the future correspondence along with the roll number, course(s), code numbers and semester.
 - x. Study material shall be mailed to the students at their given addresses.
 - xi. After receipt of the study package, students are usually intimated about the part time tutors for each course for tutorial guidance within fifteen days. If you do not get information about tutors, you are required to send your assignment by registered post to the concerned Regional Director, Assistant Regional Director without delay; you are also required to retain a photocopy of all your assignments.
 - xii. Rules and regulations framed, enhanced and changed from time to time by the authorities, bodies of the university will be effective as deemed necessary. The student will have to abide by all such rules and regulations from the date of their implementation.
 - xiii. A student who fails in continuous assessment component is not eligible to reappear but will be allowed to re-register

- for the same course at its next offering semester by the university.
- xiv. It is the responsibility of the student to remain in touch with the department regarding the selected programme.
 - xv. A student already admitted to a programme or a specialization of a programme shall not be allowed to transfer or to get admission to another programme unless he/she formally postpones it till the completion of the new programme or withdraws from the previous programme.
 - xvi. After completion of a programme successfully, a student has to apply to Controller of Examinations for issuance of certificate/degree.
 - xvii. The university reserves the right to change contents of this prospectus without any prior notice as per university policy.
 - xviii. The student must inform the Admission Department in writing within the period of 15 days after receipt of study material parcel, *if found any wrong/short of material/ books which is not according to the admission form/ check list or mistake in name and address*. No request for any change will be entertained after the stipulated period.
 - xix. Check the books and tally with the course codes mentioned on the address label pasted on the registered packet. If there is any discrepancy, write immediately to Admission Deptt for correction/ supply of requisite books.
 - xx. Admission forms incomplete in any respect will not be entertained and will be returned after close of semester to the students indicating the deficiency in clear terms with advise to request for refund of fee.
 - xxi. Admission form received without prescribed fee less fee or fee deposited after due date will not be considered.
 - xxii. In case of discrepancies in the name of student/ Father's name of the student or difference in name mentioned in his/her other educational certificates, the name on the Matric certificate of the student will be considered as correct name. The Examination Department shall also issue certificate/ degree on the said name.
 - xxiii. In case provision of forged documents for admission, not only the admission will be refused to the applicant but the fee deposited by him/her will also be forfeited. The university may proceed further in the matter.

PROCEDURE FOR DEPOSITING FEE

- Eligible candidates for (OPEN MERIT PROGRAMMES) are required to deposit fee along with admission forms in any branch of the following banks:
 - (1) **UBL**
 - (2) **MCB Bank**
 - (3) **First Women Bank**
 - (4) **Allied Bank Limited**
- The applicant can deposit fee through bank challan, attached with admission form, to any branch. The bank will issue a receipt of depositing admission form and fee.

Note: Beware that University has not authorized any person or private institute to collect payment/forms. All the students are instructed to deposit fee by themselves in designated bank branches. In case of any discrepancy in admission fee/admission form the University will not be responsible and the student will have to face the consequences.

REGULATIONS FOR REFUND OF ADMISSION FEE

Admission fee once deposited by the candidates/ students in the university account will neither be refunded nor converted/adjusted as a matter of right. However fee paid by the candidates/students will be settled in the following cases:

- i) The candidates/ students who deposit the fee for a programme and later on change their mind to apply in another programme and communicate their decision in black and white to the admission section before dispatch of study material in such cases, fee will be refunded to them after deduction of 10% of the total amount deposited.
- ii) The candidates/ students who discontinue the programme/ courses(s) after dispatch of books, neither their admission will be cancelled nor fee will be refunded to them.
- iii) The candidates/ students who are not allowed admission to a programme offered by the university due to less enrolment/ non formation of viable group/ non offering of courses, full fee will be refunded to them.
- iv) The candidates/students who know that they are ineligible for admission to a programme and even then

they deposit the fee, in such cases, fee will be refunded after deduction of 25% as services charges from the total amount.

- v) The amount deposited by the candidates/ student in excess (more than the prescribed fee) will be refunded/ adjusted within a year.
- vi) Cases of refund of admission fee will be processed after finalization/ completion of admission of the semester and only on the production of original Bank Challan/Receipt No. 3 & 4.
- vii) If candidates/ students deceive the university and get admission in two different programmes simultaneously in a semester admission will be cancelled in both the programmes and the fee deposited for both the programmes will be forfeited.

IMPORTANT TELEPHONE NUMBERS

Sr. No.	Name	Telephone Nos.
1.	Director Admissions	051-9250043 051-9250162 (Fax)
2.	Assistant Registrar (Mailing)	051-9250185
3.	Controller of Examinations	051-9250012
4.	Director Students Affairs	051-9250174
5.	Deputy Registrar (Postgraduate)	051-9057422 051-9057401

AIOU WEBSITE: <https://www.aiou.edu.pk>



ALLAMA IQBAL OPEN UNIVERSITY

“Education for All”

Admission

Examination

Mailing

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Department

Programme

Education for All



Admissions

Admission Confirmation
Admission Objectionable Forms
Books Dispatch Status
Admissions Amendments
Admission Refund of Fee
Tutors Information
Workshop Schedule
More....

Examinations

Result
Result Rechecking Application
Date Sheet
Roll Number Slip
Assignment Marks
Degree Tracking System
Assignments Schedule
Assignments

ALLAMA IQBAL OPEN UNINVERSTY, REGIONAL NETWORK

KHYBER PAKHTOON KHWA

DRD, Regional Campus, AIOU
Plot No. 14, Sector A-3, Phase V,
Hayatabad

PESHAWAR

Ph: (091) 9217603

Email:rd_peshawar@aiou.edu.pk

DRD, Regional Centre, AIOU

Haji sharzaman Khan Plaza

Opposite Govt. Primary School,

G.T Road Post Office Rahimabad.

ARD, Regional Centre, AIOU

Near D.C. Office, Jang Bazar,

CHITRAL

Ph: (0943) 413419-413811

Email:rd_chitral@aiou.edu.pk

RD, Regional Centre, AIOU

House No.CB-301, Adjacent

United Bank Main Building Branch,

Mansehra Road,

ABBOTTABAD

PH: (0992) 9310119-9310379

Email:red_abbottabad@aiou.edd.pk

DRD, Regional Campus, AIOU

Neli Kothi, behind District

Auditorium, District Courts

DERA ISMAIL KHAN

Ph: (0966) 9280168-928178

BALOCHISTAN

DRD, Regional Campus, AIOU

Eastern By Pass Takhtani Road,

QUETTA

Phone: 081-2674429-2674398

Email:rd_quetta@aiou.edu.pk

ARD, Regional Centre, AIOU

Commissionary Road,

TURBAT

Ph: 0852-412511

Email: rd_turbat@aiou.edu.pk

ARD, Regional Centre, AIOU

Near B & R Rest House,

KALAT

Ph: 0844-210569

Email: rd_kalat@aiou.edu.pk

ARD, Regional Centre, AIOU

Bus Stand Road, Near Ghazali

Public School, Gola Chowk,

DERA MURAD JAMALI

Ph: 0838-710375

Email: rd_dmjamali@aiou.edu.pk

ARD, Regional Centre, AIOU

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House, Khawaja Khail Mohallah,

ZOHB

Ph: 0822-413018

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Ph: (021)99246099-101

Email: rd_karachi@aiou.edu.pk

RD, Regional Campus,AIOU

H. No. 26/2 Sy No. 142/41

Defense Housing Society,

HYDERABAD

Ph: (022)9200155

Email: rd_hyderabad@aiou.edu.pk

Incharge,

Noor Model Study Centre, AIOU

Old Girls College Hostel, Opp:

DCO Office, **UMER KOT**

(0238) 571245-6

ARD, Regional Centre, AIOU

Survey No.2, Ameer Khani Mohallah,

Near ShahJehani Mosque,

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Ph: (0298) 550028

Email: rd_thatta@aiou.edu.pk

ARD, Regional Centre, AIOU

Para Colony, Main Road,

MITHI

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Email: rd_mithi@aiou.edu.pk

ARD, Regional Centre, AIOU

Sachal Colony, Banglow No. 67,

Near City Hospital (Bakhtiar Park),

LARKANA CITY.

Ph:(074)9239044

Email:rd_larkana@aiou.edu.pk

ARD, Regional Centre, AIOU

Banglow No.2, Gulshan-e-Ali Colony,

Near Erum Bright School, Daro Road,

DADU

Ph: (025)9200238

Email:rd_dadu@aiou.edu.pk

ARD, Regional Centre, AIOU

House No.41, Block-B, Muslim

Cooperative Housing Society,

Military Road,

SUKKUR

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Email:rd_sukkur@aiou.edu.pk

PUNJAB

RD, Regional Centre, AIOU

Chak No. 12-A/BC

Near Airport Hasilpur By Pass Road,

BAHAWALPUR

Ph: (062) 9239294-6

Email: rd_bahawalpur@aiou.edu.pk

RD, Regional Campus, AIOU

CF-7, Shah Rukn-e-Alam Colony,

Near Thana Stop,

MULTAN

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DRD, Regional Centre, AIOU

31-A, Business Man Colony,

RAHIM YAR KHAN

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DRD, Regional Centre, AIOU

Railway Road, Near Veterinary

Hospital,

DERA GHAZI KHAN

Ph: (064)9260386-7

Email:rd_dgkhan@aiou.edu.pk

RD, Regional Campus, AIOU

346 - Raza Block,

Allama Iqbal Town,

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Email:rd_lahore@aiou.edu.pk

RD, Regional Centre, AIOU

House No. 88,

Main Road Bilal Colony,

SAHIWAL

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DRD, Regional Centre, AIOU

H/No. A-20, Zeeshan Colony,

Nearby China Chowk, Kashmir Road,

SIALKOT

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RD, Regional Campus, AIOU

1--X Block, Peoples Colony,

GUJRANWALA

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RD, Regional Campus, AIOU

F-Block, Near STN Tower,

Millat Town,

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ARD, Regional Centre, AIOU

Street No.1 (Gulshan Street), Near

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ARD, Regional Centre, AIOU

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MIANWALI

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ARD, Regional Centre, AIOU

Mohallah Basti Allah Wali,

Near Govt. Girls College,

CHAKWAL

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RD, Regional Centre, AIOU

Gate Way Block, Sector H-8,

ISLAMABAD

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AJK / NORTHERN AREAS

RD, Regional Campus, AIOU

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Kotli Road,

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DRD, Regional Centre, AIOU

Zero Point, Jalalabad,

MUZAFFARABAD (AJK)

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DRD, Regional Centre, AIOU

Shahra-i-Quaid-i-Azam, Near Army

Public School & College, Khumer

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ARD, Regional Centre, AIOU

Mohib Road, **SKARDU**

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