

PROSPECTUS

OF

BS Face to Face (4 Years) Programmes

For

SEMESTER: SPRING, 2020



Allama Iqbal Open University, Islamabad

Price Rs.500/-

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Merit Based Programmes:

- i. BS Microbiology
- ii. BS Environmental Sciences
- iii. BS Botany
- iv. BS Chemistry
- v. BS Mathematics
- vi. BS Statistics
- vii. BS Physics

Schedule for Merit Based Admission:

Applicants of the above mentioned programmes are required to apply online. All the details of admission and fee is as per procedure given in the prospectus. Admission schedule for these programmes is also given in the advertisement and available on AIOU website too.

All applicants are advised to write their mobile numbers in admission forms. All intimations will be sent through SMS and website **www.aiou.edu.pk**. For further information please contact the department concerned.

You can contact the department concerned for further information.

Vice-Chancellor's Message

Dear Student,



Welcome to Allama Iqbal Open University, the first distance education university in South Asia that provides cost effective

education to 1.3 million students not only in Pakistan but also in Middle East. This university has the unique privilege of blurring temporal and spatial boundaries by providing education at the thresholds of the students. The university offers a diverse range of educational facilities, starting from basic literacy programs to the PhD level. The courses are regularly revised to bring them at par with international standards. The university offers maximum number of specializations at postgraduate level through four faculties, i.e. Faculty of Arabic and Islamic Studies, Faculty of Education, Faculty of Sciences, and Faculty of Social Sciences and Humanities. The university has a huge network of faculty members, tutors, resource persons, specialists and experts who strive hard to ensure that the programs offered by the university enable the students to become independent learners and critical thinkers. The university takes special measures to establish and strengthen research culture and prepare those individuals who can play an instrumental role in the process of progress and development of the country.

I welcome you to the postgraduate studies at AIOU and wish you a challenging yet successful journey ahead.



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 under-graduate 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 SCIENCES

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 thousand 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)

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.

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 Micro-Biological 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.

GUIDELINES FOR ONLINE ADMISSION

1. The online application form can be accessed from university official website www.aiou.edu.pk
2. Applicants are required to fill all the desired fields on online application form.
3. Applicants are desired to deposit application fee on the prescribed challan form in specified banks.
4. The challan number after fee submission should be entered in online application form for successful completion.
5. Incomplete forms shall not be entertained.
6. Selected candidates will be made strictly on the basis of merit.

7. Only selected candidates will be informed about their admission.
8. The selected candidates will be required to pay the dues.

Note:

Only selected candidates will be asked to deposit prescribed fee. The fee should not be submitted before the confirmation of the admission. The deposited fee will not be refundable or adjustable for further admission. The document showing fee deposit must be provided in the office of

**Chairman
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 anymore interested in getting admission. The department may invite a candidate in waiting list for admission against the vacant seat.

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 **129** credit hours including six credit hours for research project. Minimum duration of the programme is 4 years, extendable maximum up to 6 years.

c) Scheme of Studies:

Semester Wise Breakup of Courses BS in Microbiology

Semester-1

Sr. No.	Course Code	Course	Credit Hours
1.	4401	Cell Biology, Genetics & Evolution	4(3+1)
2.	4403	Fundamentals of Microbiology	4(3+1)
3.	4421	Inorganic Chemistry	4(3+1)
4.	4431	Pre-Calculus	3
5.	9407	English-I (ODL)	3
		Total credits	18

Semester-2

1	4445	Environmental Microbiology	4(3+1)
2.	4402	Diversity of Plants	4(3+1)
3	4422	Organic Chemistry	4(3+1)
4	4432	Calculus-I	3
5	9408	English-II (ODL)	3
		Total credits	18

Semester-3

Sr. No.	Course Code	Course	Credit Hours
1	4441	Introduction to Environmental Sciences	4(3+1)
2	4469	Diversity of Animals	4(3+1)
3	9402	Pakistan Studies (ODL)	3
4	9409	English-III (ODL)	3
		Total credits	14

Semester-4

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

Semester-5

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

Semester-6

1	4405	Microbial Anatomy and Physiology	4(3+1)
2	4411	Food and Dairy Microbiology	4(3+1)
3	4416	Molecular Mechanism of Antimicrobial Drugs	4(3+1)
4	4419	Molecular Biology	4(3+1)
5	7413	Scientific Research	3(3+0)
		Total credits	19

Semester-7

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

Semester-8

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

Total Credit Hours: 18+18+14+14+15+19+16+15 = 129

Fee Structure:

Registration fee	Rs.500/-
Admission fee	Rs.500/-
Technology fee (per semester)	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/-

BS IN ENVIRONMENTAL SCIENCE (4 YEARS)

The 4 years' degree program will enable the students to apply interdisciplinary skills, systems approaches and perspectives to understand and analyze environmental issues and policies of global and local concerns. It aims at producing dynamic young environmentalists by developing academic foundation, technical skills, communication abilities and professionalism enabling them to compete in both the governmental and non-governmental sectors.

On accomplishing the course, the students will be able to:

1. Deal with local and global environmental challenges, both academically and practically
2. Contribute in informed decision making, strategic planning and leadership in the society through interdisciplinary understanding and problem solving abilities

CRITERIA FOR ADMISSION

Criteria for admission in first semester of the 4-year program

- a. FSc (pre medical or pre-engineering) / DAE or equivalent qualification with minimum second division (at least 45% marks) is the pre-requisite for admission in BS Environmental Science.
- b. Foreign certificate/ degree holders will need to produce equivalence certificate from IBCC to seek admission in semester 1 and from HEC for admission in semester V.
- c. Candidates can apply only through online application form available at: aiou.edu.pk

Guideline for ONLINE APPLICATION

1. The online application form can be accessed from university official website www.aiou.edu.pk
2. Applicants are required to fill all the desired fields on online application form.
3. Applicants are desired to deposit application fee on the prescribed challan form in specified banks.
4. The challan number after fee submission should be entered in online application form for successful completion.
5. Incomplete forms shall not be entertained.

Note: Admission is Merit Based. Only selected candidates will be informed to deposit the fee on the prescribed challan form issued by the Department after interview.

MEDIUM OF INSTRUCTION

The Medium of Instructions for BS Environmental Science is English for all the courses except Islamic Studies/Ethics and Pakistan Studies which will be offered in Urdu for this program.

STUDY SYSTEM

In 4-year BS Environmental Science 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, Islamic studies and English will be offered on distance learning mode.

- **Teaching Material:** class lectures and other reading materials will be provided by the course instructor. In addition, the student will be advised to consult other reference books for further reading.

- **Class Work:** Three-hour class work/lectures per week for a (3+0) credit hour course will be compulsory for sixteen weeks. The credit hours are specified against each course in the Layout of Program.
- **Lab Work:** Three-hour lab (laboratory) work/practical per week for a (3+1) credit hour course will be compulsory for sixteen weeks. The practical work will consist of lab oriented practicals, field visits and or any other activity as per requirement.

THE ASSESSMENT SYSTEM

As per AIOU practice 30% weightage will be given to continuous assessment (class assignments, class tests, lab work, field visit and practical examination) whereas, 70% weightage to the final examination.

- **Continuous Assessment:** continuous assessment will be based on class test and lab work. The pass percentage in the lab assignments/field visit/class test will be 50%. The weightage of continuous assessment in the final result will be 30%.
- **Final Examination:** Final examination of 100 marks for each 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.

Degree Requirement and Duration

In order to maintain the equivalence of duration of study at international level, the Bachelors degree programme will comprise of 4-year (8 Semester). For award of degree of BS in

ES, the candidate will have to successfully pass all the courses (130 Credit hours including 6 Credit Hour Research Project) within a minimum period of 4 years (8 semesters). Failing which, a student can be given an extension of 2 Years in maximum, after completion of initial period.

SEMESTER WISE DISTRIBUTION OF COURSE

Semester-1

S.#	Code	Course	CH
1	4401	Cell Biology, Genetics and Evolution	4(3+1)
2	4421	Inorganic Chemistry	4(3+1)
3	4441	Introduction to Environmental Sciences	4(3+1)
4	4431	Pre-Calculus	3
5	9407	English I (ODL)	3
			18

Semester-2

S.#	Code	Course	CH
1	4402	Diversity of Plants	4(3+1)
2	4422	Organic Chemistry	4(3+1)
3	4442	Environmental Pollution	4(3+1)
4	4432	Calculus I	3
5	9408	English II (ODL)	3
			18

Semester-3

S.#	Code	Course	CH
1	4469	Diversity of Animals	4(3+1)
2	4403	Fundamentals of Microbiology	4(3+1)
4	9402	Pakistan Studies (ODL)	3
5	9409	English III	3
			14

Semester-4

#	Code	Course	CH
1	4412	Biotechnology	4(3+1)
2	4445	Environmental Microbiology	4(3+1)
3	3400	Fundamentals of Computer	4(3+1)
4	9404	Public Relations	3
5	9401/ 0418*	Islamiyat / Ethics* (ODL)	3
			18

* For Non-Muslims Only

Semester-5

#	Code	Course	CH
1	4467	Physics of the Environment	4(3+1)
2	4443	Environmental Chemistry	4(3+1)
3	4482	Biostatistics	3
4	4458	Environmental Policies and Regulations	3
			14

Semester-6

#	Code	Course	CH
1	4446	Environmental Biology	4(3+1)
2	4448	Energy and Environment	3
3	4444	Intro of Environmental Economics	3
4	4438	Natural Resource Management	3
5	7413	Scientific Research	3
			17

Semester-7

#	Code	Course	CH
1	4452	Biodiversity and Conservation	4(3+1)
2	4455	Health, Safety & Environmental Management Systems	4(3+1)
3	4450	Environmental Impact Assessment	4(3+1)
4	4453	Sustainable Development	3
5	4456	Environmental Toxicology	3
			18

Semester-8

#	Code	Course	CH
1	4418	Research Project	6
2	4460	Project Management	3
3	4483	GIS and Remote Sensing	4(3+1)
			13

Total Credit Hours: 18+18+14+18+14+17+18+13 = 130**Fee Structure**

1.	Registration Fee:	Rs.500/-
2.	Admission Fee:	Rs.500/-
3.	Technology Fee (per semester)	Rs.200/-
3.	First Semester Fee	Rs.33510/-
4.	Second Semester Fee	Rs.33510/-
5.	Third Semester Fee	Rs.20020/-
6.	Fourth Semester Fee	Rs.28020/-
7.	Fifth Semester Fee	Rs.30000/-
8.	Sixth Semester Fee	Rs.36000/-
9.	Seventh Semester Fee	Rs.38000/-
10.	Eight Semester Fee	Rs.34000/-

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

BS IN BOTANY (4 YEARS)

Introduction

The study of plants is vital because they underpin almost all life forms on Earth by generating a large proportion of oxygen and food that allow humans and other organisms to subsist. Plants are one of the major groups of organisms that carry out photosynthesis, a process that absorbs carbon dioxide, a greenhouse gas that is a small but important variable that influences global climate. As a by-product of photosynthesis, they release oxygen into the atmosphere, a gas that is required by nearly all living things to carry out cellular respiration. Additionally, they are influential in the global carbon and water cycles and plant roots bind and stabilize soils, preventing soil erosion. Plants are crucial to the future of human society as they provide food, oxygen, medicine, and products for people, as well as creating and preserving soil.

Scope of the Programme

This programme has an interdisciplinary and multidisciplinary scope enabling students to understand the significance and concepts of Botany. It aims at producing dynamic young graduates in the field of Botany by developing strong skill, academic foundation, and professionalism enabling them to compete in governmental and non-governmental sectors. Botany covers a wide range of scientific disciplines including

the study of plant structure, growth, reproduction, metabolism, development, diseases, chemical properties, evolutionary relationships and plant taxonomy.

Graduates with in Botany can progress to a wide range of careers. They can work in national and international organization in either public or private sectors as Biodiversity Researchers, Environmental Scientists, Nature Reserve Managers, Research Scientists, Wildlife Management Advisors, Project Officers, Ecological Consultants and Conservation Officers, Quality Control Officers, Salesperson etc.

Aim

The programme aims at developing human resources in the field of Botany through appropriate education and research.

Objectives

On accomplishing the course, the students will be able to:

1. Demonstrate comprehensive understanding of Botany as an interdisciplinary and multidisciplinary subject.
2. Achieve awareness about the evolutionary trends, plants systematics, and environmental considerations in pursuit of nature conservation.
3. Understand the relationship between economic growth and importance of indigenous plant resources.
4. Acquire skills, knowledge and competencies to take up research projects for nature conservation and exploration.

GUIDELINE FOR ONLINE APPLICATION

1. The online application form can be accessed from university official website www.aiou.edu.pk.
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3. Applicants are desired to deposit application fee on the prescribed challan form in specified banks.

4. The challan number after fee submission should be entered in online application form for successful completion.
5. Incomplete forms shall not be entertained.

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

The Incharge
Department of Biology and Environmental Science
AIOU, Sector H-8, Islamabad

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

Eligibility/ Selection Criterion

FSc (Pre-medical) OR Equivalent A Level qualification with Biology as major subject.

Medium of Instruction

The Medium of Instructions for BS Botany will be English.

Study Material

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 student progress 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.

Degree Requirement and Duration

In order to be eligible for the award of BS in Botany, the student will have to earn a total of 127 credit hours including six credit hours for research within a minimum period of 4 years (8 semesters). Failing which, a student can be given an extension of 2 Years in maximum, after completion of initial period.

Scheme of Studies

Semester-1

Sr. No.	Course	Credit Hours	Course Code
1	Cell Biology, Genetics & Evolution	4(3+1)	4401
2	Inorganic Chemistry	4(3+1)	4421
3	Fundamentals of Microbiology	4(3+1)	4403
4	Pre-Calculus	3	4431
5	English I (ODL)	3	9407
Total Credits		18	

Semester-2

1	Diversity of Plants	4(3+1)	4402
2	Organic Chemistry	4(3+1)	4422
3	Calculus-I	3	4432
4	English II (ODL)	3	9408
Total Credits		14	

Semester-3

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

Semester-4

1	Biotechnology	4(3+1)	4412
2	Fundamentals of Computer	4(3+1)	3400
3	Islamic Studies / Ethics	3	9401/0418
4	Public Relations	3	9404
Total Credits		14	

Semester-5

1	Biodiversity and Conservation	4(3+1)	4452
2	Diversity of Vascular Plants	3(2+1)	7401
3	Plant Anatomy	3(2+1)	7402
4	Introductory Biochemistry	4(3+1)	4481
5	Phycology and Bryology	3(3+0)	7403
Total Credits		17	

Semester-6

1	Plant Ecology -I	3(2+1)	7405
2	Plant Physiology – I	3(2+1)	7406
3	Plant Systematic	3(2+1)	7410
4	Plant Biochemistry	3(3+0)	7407
5	Mycology and Plant Pathology	3(2+1)	7408
Total Credits		15	

Semester-7

1	Plant Ecology -II	3(2+1)	7409
2	Molecular Biology	4(3+1)	4419
3	Plant Physiology - II	3 (2+1)	7411
4	Genetics - I	3(3+0)	7412
5	Biostatistics	3(3+0)	4482
6	Scientific Research	3	7413
Total Credits		19	

Semester-8

1	Research Project	6	4418
2	Genetics-II	3(3+0)	7414
3	Ethnobotany	3	4439
4	Environmental Biology	4(3+1)	4446
Total Credits		16	

Total Credits: 18+14+14+14+17+15+19+16=127

Fee Structure

Registration fee	Rs.500/-
Admission fee	Rs.500/-
Technology fee (per semester)	Rs.200/-
First Semester Fee	Rs.33510/-
Second Semester Fee	Rs.25510/-
Third Semester Fee	Rs.20020/-
Fourth Semester Fee	Rs.20020/-
Fifth Semester Fee	Rs.37000/-
Sixth Semester Fee	Rs.43000/-
Seventh Semester Fee	Rs.33000/-
Eight Semester Fee	Rs.41000/-

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

FACULTY MEMBERS

1. Dr. Hina Fatimah

In Charge

Department of Biology and Environmental Science,

Ph. 051-9057279

2. Dr. Muhammad Waseem

Assistant Professor

Ph. 051-9057267

3. Dr. Zahid Ullah

Assistant Professor

Ph. 051-9057735

4. Dr. Rizwana Kausar

Assistant Professor

Ph. 051-9057293

5. Ms. Saba Farooq

Lecturer

Ph. 051-9057730

6. Ms. Samar Naseer

Lecturer

Ph. 051-9057185

7. Ms. Zaib un Nisa

Research Associate

Ph: 051-9057688

8. Ms. Sadia Latif

Research Associate

Ph: 051-9057185

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

Prof. Dr. Naghmana Rashid

Chairperson

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

Dr. Uzma Yunus

Associate Professor

Ph: 051-9057755

Dr. Moazzam H. Bhatti

Associate Professor

Ph: 051-9057262

Dr. Muhammad Sher

Associate Professor

Ph: 051-9057198

Dr. Nasima Arshad

Associate Professor

Ph: 051-9057756

Dr. Muhammad Zaman Ashraf

Assistant Professor

Ph: 051-9057182

Ms. Mehwash Zia

Lecturer

Ph: 051-9057252

Dr. Farzana Shaheen

Lecturer

Ph: 051-9057198

Dr. Iqbal Ahmed

Lecturer

Ph: 051-9057874

Dr. Erum Jabeen

Lecturer

Ph: 051-9057414

DEPARTMENT OF MATHEMATICS

Introduction:

The Department of Mathematics has been established in June 2014. In June 2014, the Department of Mathematics & Statistics has been bifurcated as two independent departments. Presently the Department is offering courses of Mathematics at Secondary School Certificate (SSC), Higher Secondary School Certificate (HSSC) and Bachelor levels. The Department is offering the following programmes:

- MSc Mathematics
- MPhil Mathematics
- BS Mathematics

In future the Department intends to start PhD Mathematics programme. BS Mathematics has been designed after consulting syllabi of national and international universities. BS Mathematics programmes will strengthen the mathematical concepts of the candidates and will enhance their logical thinking. These programmes cater the needs of information Technology and other sciences disciplines.

BS MATHEMATICS PROGRAMME

Introduction:

To meet the challenging requirements of today's fast growing world, the Department of Mathematics has planned to launch BS Mathematics Programme. The BS degree is deemed equivalent to MSc Mathematics. BS degree holders are being preferred throughout the world as their knowledge is more focused on Mathematics. Our BS Mathematics programme will produce well trained, highly numerate and computer literate graduates.

Objectives:

- To enhance the qualification of those who could not continue their education after FSc 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 Programme:

Duration: 8 semesters (4 years)
Total Credit Hours: 134.

Eligibility:

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

Merit Criteria:

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

Payment of Fee:

Only selected candidates should deposit the fee after receiving the admission letter from the Admission Section, 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-1

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

Semester-2

1	English-II (ODL)	9408	3(3+0)
2	Calculus-II	4433	3(3+0)
3	Pakistani Adab-I (ODL)	9403	3(3+0)
4	Discrete Mathematics-I	1549	3(3+0)
5	Introduction to Environmental Sciences	4441	4(3+1)
6	Introduction to Sociology: Culture and Society (ODL)	9410	3(3+0)

Semester-3

1	English-III (ODL)	9409	3(3+0)
2	Islamiat (ODL)	9401	3(3+0)
3	Waves & Oscillations	5459	3(3+0)
4	Algebra-I	4472	3(3+0)
5	Analytical Geometry	4473	3(3+0)
6	Vector and Tensor Analysis	4474	3(3+0)

Semester-4

1	Probability Theory and Statistics	4489	3(3+0)
2	Heat & Thermodynamics	5461	3(3+0)
3	Algebra-II	4475	3(3+0)
4	Mathematical Methods	4476	3(3+0)
5	Language Arabic / French (ODL)	9413 / 9414	3(3+0)
6	Computing Tools	4477	3(2+1)

Semester-5

1	Computer and Scientific Application C++	1520	3(3+0)
2	Topology	1521	3(3+0)
3	Linear Algebra	1522	3(3+0)
4	Real Analysis-I	1523	3(3+0)
5	Ordinary Differential equations	1525	3(3+0)

Semester-6

1	Differential Geometry	1524	3(3+0)
2	Complex Analysis	1527	3(3+0)
3	Group Theory	1528	3(3+0)
4	Analytical Mechanics	1529	3(3+0)
5	Real Analysis-II	1530	3(3+0)

Semester-7

1	Numerical Methods (Matlab & Mathematics)	1531	3(3+0)
2	Partial Differential Equations	1532	3(3+0)
3	Functional Analysis	1533	3(3+0)
4	Theory of Rings	1534	3(3+0)
5	Mathematical Statistics-I	1538	3(3+0)

Semester-8

1	Optional-I		3(3+0)
2	Optional-II		3(3+0)
3	Optional-III		3(3+0)
4	Optional-IV		3(3+0)
5	Optional-V		3(3+0)

Optional Courses

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

Fee Structure:

Registration Fee:	Rs.500/-
Admission Fee:	Rs.500/-
Technology Fee (per semester):	Rs.200/-
First Semester Fee	Rs. 27770/-
Second Semester Fee	Rs. 22280/-
Third Semester Fee	Rs. 25770/-
Fourth Semester Fee	Rs. 31260/-
Fifth Semester Fee	Rs. 30750/-
Sixth Semester Fee	Rs. 30750/-
Seventh Semester Fee	Rs. 30750/-
Eight Semester Fee	Rs. 30750/-

Applying For Admission Procedure:

Please send prescribed 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, Allama Iqbal Open University
Sector H-8, Islamabad

Instructional Methodology:***Study material:***

Books (soft copies) will be provided to the students, 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, classes will be arranged by the Department at AIOU main campus Islamabad on weekend basis (Friday, Saturday, Sunday) from 3:pm onward including around 10-15 days workshop at the beginning and about 10-15 days at the end of each semester if required. The schedule of the lectures will be distributed to students at the start of classes during each semester at AIOU, Islamabad. Minimum 70% attendance is necessary in all subjects as per AIOU rules.

Assignment/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
Ph: 051-9057191, 9250056
- 2. Dr. Naqeeb-ur-Rehman**
Assistant Professor
Ph: 051-9057339
- 3. Mr. M. Faisal Iqbal**
Lecturer
Ph: 051-9057380
- 4. Mr. Muhammad Aatif**
Lecturer (M.Sc Math Coordinator)
Ph: 051-9057197
- 5. Dr. Irfan Mustafa**
Lecturer, (M.Phil Math Coordinator)
Ph: 051-9057155
- 6. Mr. M. Nazam**
Lecturer
Ph: 051-9057734
- 7. Ms. Fouzia Rehman**
Research Associate (BS Math Coordinator)
Ph: 051-9057393
- 8. Staff:**

Department of Mathematics

Ph: 051-9057334

Visiting Faculty Members:

The Department also takes the services of well known Mathematicians from the different Universities of Pakistan.

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

The following degree programmes are being offered in the Department of Statistics. All these programmes are approved by Higher Education Commission, Islamabad.

- PhD Statistics

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

All the courses and contents of these 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 these degree programmes at main 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 for B.S Statistics 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 semesters (7 years).

Payment of fee:

Only the selected candidates will be asked through SMS/email to deposit the required fee after download challan from AIOU website.

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.

Semester-1

Sr.#	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

Semester-2

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

Semester-3

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)	9401/0418	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)

Semester-4

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

Semester-5

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

Semester-6

1	Non Parametric Methods	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

Semester-7

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	

Semester-8

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	Operations Research	1568	3(3+0)
5	Research Report	1570	3(3+0)
Sub Total		15	

Total BS Statistics Programme Credit Hours = 134

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

Fee Structure

Registration Fee:	Rs.500/-
Admission Fee:	Rs.500/-
Technology Fee (per semester):	Rs.200/-
First Semester Fee	Rs. 22280/-
Second Semester Fee	Rs. 22280/-
Third Semester Fee	Rs. 14790/-

Fourth Semester Fee	Rs. 25770/-
Fifth Semester Fee	Rs. 30750/-
Sixth Semester Fee	Rs. 30750/-
Seventh Semester Fee	Rs. 30750/-
Eight Semester Fee	Rs. 30750/-

Instructional Methodology:**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, if he/she fails.
- 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

- ❖ **Step-1:** First of all register yourself on AIOU website and remember user name and password for future contact to AIOU.
- ❖ **Step-2:** Select your programme & semester and generate a dully filled admission form and challan form for fee deposit in and mentioned banks.
- ❖ **Step-3:** Post/Submit by hand the stamped Bank fee receipt and admission form on the following address.

Chairman

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

FACULTY MEMBERS

- 1. Prof. Dr. Irshad Ahmad Arshad**
Chairman
Ph: 051-9057163, 9250062
Email: irshad.ahmad@aiou.edu.pk
- 2. Dr. Muhammad Zakria**
Associate Professor Ph: 051-9057372
Email: zakria@aiou.edu.pk
- 3. Dr. Zahid Iqbal** Associate Professor Ph: 051-9057446
Email: zahid.iqbal@aiou.edu.pk
- 4. Dr. Tauqir Ahmed Mughal**
Assistant Professor Ph: 051-9057209
Email: tauqirahmed1@outlook.com
- 5. Dr. Muhammad Yameen Danish**
Lecturer
Ph: 051-9057266
Email: yameen.danish@aiou.edu.pk
- 6. Mr. Muhammad Sadil Ali**
Research Assistant
Email: sadil.ali@aiou.edu.pk
- 7. Staff Phone:**
Ph: 051-9057266

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 Physics, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and Nuclear fields. A major emphasis of current research activities is on promotion in renewable energy and related areas in which the Department has led to innovations.

The Department is presently running BS, MSc, MPhil and PhD degree programme 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 Department 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 wide range of 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 and communication skills. This will be achieved by reviewing and developing relevant academic programmes 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 and postgraduates 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 to the highest levels of competence and professionalism in research and training, acting with utmost honesty and integrity 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.

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 / ICs (Physics, Mathematics combination) / DAE with 45% marks or 2nd division.

Admissions will be merit based and on number of seats available.

Interview will be conducted in the Department for selection of students.

Scheme of Studies: Semester wise course offering:

Semester-1

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

Semester-2

1.	5454	English-II: Technical & Business Writing	3+0
2.	5466 5467	Islamic Studies or Ethics (for non-Muslim students only)	2+0
3.	5476	Basic Calculus-II	3+0
4.	5455	Electricity & Magnetism	4(3+1)
5.	5456	Laboratory for Electricity & Magnetism	1+0
6.	5459	Waves & Oscillations	3+0
7.	754	Laboratory Techniques and Error Propagation	3+0

Semester-3

1.	5458	Communication Skills	3+0
2.	5477	Algebra in Physics	3+0
3.	5461	Heat & Thermodynamics	3+0
4.	5460	Laboratory for Thermodynamics	1+0
5.	5470	Fundamentals of Statistics	3+0
6.	5471	Mass Communication	3+0

Semester-4

1.	5457	Modern Physics	3+0
2.	5472	Differential Equations	3+0
3.	5473	Probability & Statistics	3+0
4.	5462	Optics	3+0
5.	5463	Laboratory for Optics & Spectroscopy	1+0
6.	5474	Fundamentals of Environmental Sciences	3+0

Semester-5

1.	751	Mathematical Methods in Physics-I	3+0
2.	752	Classical Mechanics & Relativity	3+0
3.	2564	Electronics	3+0
4.	2551	Atomic & Molecular Physics	3+0
5.	766	Laboratory for General & Nuclear Physics	2+0

Semester-6

1.	755	Mathematical Methods in Physics-II	3+0
2.	756	Quantum Mechanics-I	3+0
3.	765	Electromagnetic Theory – I	3+0
4.	2566	Thermal & Statistical Physics	3+0
5.	769	Computational Physics	3+0
6.	762	Laboratory for Electronics	2+0

Semester-7

1.	2565	Electromagnetic Theory – II	3+0
2.	759	Quantum Mechanics-II	3+0
3.	761	Solid State Physics-I	3+0
4.	758	Lasers & Optics	3+0
5.	2553	Digital & Computer Hardware Electronic	3+0
6.	2556	Laboratory for Digital & Computer Hardware Electronics	3+0

Semester-8

1.	5464	Research Techniques	3+0
2.	760	Nuclear Physics	3+0
3.	2560	Advanced Digital & Computer Hardware Electronics	3+0
4.	2561	Laboratory for Advanced Digital & Computer Hardware Electronics	4+0
5.	2559	Electronic Communication System	3+0
6.	761	Solid State Physics	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.

Fee Structure:

Registration fee:	Rs. 500/-
Admission fee:	Rs.500/-
Technology fee (per semester)	Rs.200/-
First Semester Fee	Rs. 38000/-
Second Semester Fee	Rs. 38000/-
Third Semester Fee	Rs. 32000/-
Fourth Semester Fee	Rs. 32000/-
Fifth Semester Fee	Rs. 28000/-
Sixth Semester Fee	Rs.34000/-
Seventh Semester Fee	Rs.36000/-
Eight Semester Fee	Rs. 32000/-

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, 45 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
(New Building) Research Complex / Science Block
Ground Floor, Allama Iqbal Open University
Sector H-8, Islamabad.

Admission will be finalized after test and interview.

Faculty Members:

1. **Prof. Dr. Syed Zafar Ilyas, Chairman**
Department of Physics,
Phone # 051-9057728
2. **Mr. Ather Hassan**
Assistant Professor,
Phone # 051-9057214
3. **Dr. Surayya Mukhtar**
Assistant Professor,
Phone # 051-9057184
4. **Dr. Tariq Jan**
Assistant Professor,
Phone# 051-9057214

5. **Ms. Hareem Mufti**
Lecturer,
Phone # 051-9057727
6. **Dr. Abdul Jalil**
Lecturer,
Phone # 051-9057214
7. **Ms. Uzma Nosheen**
Lecturer,
Phone # 051-9057727
8. **Ms. Tayyba Aftab**
Lecturer
Phone # 051-9057728
9. **Mr. Hussain Ahmed**
Research Associate,
Phone # 051-9057214
10. **Mr. Muhammad Imran**
Laboratory Assistant
Phone # 051-9057728
11. **Ms. Zeba Sultana**
UDC
Phone # 051-9057728
12. **Mr. M. Rashid**
Laboratory Assistant
Phone # 051-9057728
13. **Mr. Amjad Satti**
Laboratory Assistant
Phone # 051-9057728
14. **Mr. Muhammad Aman**
Laboratory Assistant
Phone # 051-9057728

GENERAL INFORMATION

- i. The certificates/degrees of AIOU are equivalent to any other recognized Board/University.
- ii. 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.
- iii. 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.
- iv. 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.
- v. The address of a student will not be changed during the semester.
- vi. **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.**
- vii. Fee cannot be refunded once paid for admission nor can it be adjusted for any other programme
- viii. 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.
- ix. Study material shall be mailed to the students at their given addresses.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. It is the responsibility of the student to remain in touch with the department regarding the selected programme.

- xiv. 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.
- xv. After completion of a programme successfully, a student has to apply to Controller of Examinations for issuance of certificate/degree.
- xvi. The university reserves the right to change the contents of this prospectus without any prior notice as per university policy.
- xvii. 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.
- xviii. 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 Department for correction/ supply of requisite books.
- xix. 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.
- xx. Admission form received without prescribed fee less fee or fee deposited after due date will not be considered.
- xxi. 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.
- xxii. 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.

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 fee, in such cases, fee will be refunded after the 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.	Additional Registrar (Mailing)	051-9250185
3.	Controller of Examinations	051-9250012
4.	Director Students Affairs	051-9250174
5.	Assistant Registrar (Postgraduate)	051-9057422

ADDRESS OF PART-TIME REGIONAL COORDINATORS

PUNJAB

1.	Mr. Mukhtar Ahmad Awan, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Boys Higher Secondary School, Hassanabdal. 0312-5609715	2.	Mr. Muhammad Miskeen, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Boys High School No.2, Fateh Jang. 0300-5273227	3.	Mr. Safdar Khan, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. Boys Degree College Hazro. 0300-5609260
4.	Hafiz Abdul Ghaffar, Regional Coordinator, Allama Iqbal Open University, Asstt. Prof. Govt. Boys Degree College, Pindi Gheb. 0333-9535710	5.	Mr. Muhammad Saeed, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Boys Higher Secondary School Danda Shah Belawal, Lawa. 0333-5928107	6.	Raja Muhammad Akhtar Khan, Regional Coordinator, Allama Iqbal Open University, Principal, Allama Iqbal Junior Public School, Choa Saidan Shah. 0346-5783355
7.	Mr. Muhammad Javid Regional Coordinator, Allama Iqbal Open University, SSS, Govt. Higher Secondary School, Kallar Kahar. 0333-5904962	8.	Mr. Muhammad Arif Khan, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Boys High School, No.2, Talagang. 0331-4855113	9.	Mr. Ghulam Murtaza Satti, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary School Malot Sattian, Tehsil Kotli Satian, Distract Rawalpindi. 0346-5429130
10.	Ch. Muhammad Ashraf, Regional Coordinator, Allama Iqbal Open University, Street No. 10, Mohallah Mission Compound, Mehmada Raod, Gujrat. 0332-7144828	11.	Mr. Arshad Mahmood Shahid, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Boys Degree College, Sara-e-Alamghir. 0333-5841544	12.	Syed Mukhtar Hussain Bukhari, Regional Coordinator, Allama Iqbal Open University, Assistant Professor, Govt. College, Bhakkar. 0333-8909805
13.	Dr. Tariq Majeed, Regional Coordinator, Allama Iqbal Open University, Professor, Govt. Islamia College, Chiniot. 0333-6715262	14.	Mr. Muhammad Sharif, Regional Coordinator, Allama Iqbal Open University, SST (R), Ward No.16, Street No.4, Nowan Sher, Shorkot City. 0301-7205704	15.	Mr. Khalil Ahmad, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Postgraduate College Khanewal. 0301-7817130

16.	Mr. Muhammad Aslam Farooqi, Regional Coordinator, Allama Iqbal Open University, Assistant Prof. Govt. Degree College Jalalpu Pirwala. 0301-5227173	17.	Mr. Sikandar Hayat, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Muslim Union High School Mian Channu. 0301-3017686	18.	Mr. Sabeer Ahmad Abbasi, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. College, Jhika Gali Murree. 0300-5585228
19.	Ch. Basharat Ali, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Christian Higher Secondary School Rawalpindi City. 0333-5191799	20.	Dr. Muhammad Anwar, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. Boys School, Bhabra, Wah Cantt. 0300-5363883	21.	Mr. Saqib Imam Rizvi Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. Elementary School Bhai Khan, Gujar Khan. 0300-5199749
22.	Mr. Muhammad Raza Vaince, Regional Coordinator, Allama Iqbal Open University, Senior Headmaster, Govt. High School Phalina, Tehsil Kallar Syedan, Distt. Rawalpindi.	23.	Syed Zamir Hussain Shah, Regional Coordinator, Allama Iqbal Open University, SSS, Govt. Higher Secondary School, Nara, Kahuta. 0301-5151911	24.	Rana Abid Ali Khan, Regional Coordinator, Allama Iqbal Open University, Dy. Headmaster, Govt. MC Model High School Chichawatni. 0301-6925775
25.	Mr. Muhammad, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. College Depalpur. 0301-6390414	26.	Hafiz Muhammad Shafiq, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School Pakpattan Sharif. 0322-7858622	27.	Mr. Muhammad Iqbal, Regional Coordinator, Allama Iqbal Open University, SS. (Retd.), 157/C, Housing Scheme, Renala Khurd. 0308-7523947, 0345-7523947
28.	Mrs. Ruqia Kousar, Mr. Muhammad Javed Bashir, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. College for Women Tandlianwala. District Faisalabad. 0335-7769371	29.	Mr. Abdul Ghafoor Zahid, Regional Coordinator, Allama Iqbal Open University, Senior Headmaster (Retired), House No.111, Madina Colony, Pir Shah, Kamalia. 0321-6550499	30.	Mr. Abdul Razzaq, Regional Coordinator, Allama Iqbal Open University, Dy. Headmaster, Govt. High School No. 1, Pir Mahal. 0312-6560889, 0331-8675175

31.	Mr. Muhammad Siddique Regional Coordinator, Allama Iqbal Open University, Assistant Professor @ Chak No. 298 JB, Tehsil, Gojra. 0301-7055350	32.	Dr. Muhammad Javed Asghar, Regional Coordinator, Allama Iqbal Open University, Associate Prof. Govt. Degree College Jahanian. 0322-8870199	33.	Mr. Mumtaz-ul-Hassan, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary School Chak Jhumra, District Faisalabad. 0334-6645225
34.	Mr. Muhammad Javed Bashir, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Islamia High School Jaranwala, District Faisalabad. 0321-7951897	35.	Mrs. Khalida Perveen, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Girls High School No.01, Samundari, District Faisalabad.	36.	Mr. Muhammad Nawaz Zafar, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. Degree College Pindi Bhattian, District Hafizabad. 0333-6711578
37.	Mr. Muhammad Naqeeb, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Muslim High School Hafizabad. 0321-6212931, 0331-6212931	38.	Mr. Naeem Akhtar, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys High School, Sohawa, District Jhelum. 0333-5759601	39.	Mr. Farooq Ahmad, Regional Coordinator, Allama Iqbal Open University, Assistant Professor, Govt. Degree College Malikwal, District Mandi Bahauddin. 0345-5763246
40.	Mr. Adeel Abbas, Regional Coordinator, Allama Iqbal Open University, Dy. D.E.O, Govt. Boys High School Pind Dadan Khan, District Jhelum. 0345-9216000				

SINDH

1.	Mr. Ghulam Qadir Jamali, Regional Coordinator, Allama Iqbal Open University, HST, Govt. Boys High School, Khair Pur Nathan Shah. 0300-3256369	2.	Mr. Dildar Hussain Rahu, Regional Coordinator, Allama Iqbal Open University, Headmaster (R) Principal, Allied Public School Sakrand, District Nawabshah. 0306-8292318	3.	Mr. Pir Muhammad Rind, Regional Coordinator, Allama Iqbal Open University, HST, Govt. Boys High School, Sehwan Sharif District Jamshoro. 0300-5457029
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4.	Mr. Riaz Roshan Paul, Regional Coordinator, Allama Iqbal Open University, HST, Govt. HM Khoja High School No. 1, Nawabshah City. 0300-3227785	5.	Mr. Anwar-ud-Din Pirzada, Regional Coordinator, Allama Iqbal Open University, HST, Govt. Boys High School, Kandiario, District Nausheroferoz 0301-2127574		
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KHYBER PAKHTOON KHWA

1.	Mr. Wali Dad, Regional Coordinator, Allama Iqbal Open University, ADEO, School & Literacy Dassu, Kohistan. 0315-4377788	2.	Mr. Sajjad Aziz, Regional Coordinator, Allama Iqbal Open University, Instructor, Regional Institute of Teacher Education, Haripur. 0301-5520529	3.	Mr. Muhammad Hammad Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School Oghi, District Mansehra. 0300-5627378, 0332-5627378
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7.	Mr. Johar Ali, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. High School, Labor Colony, Aman Garh, Nowshera. Mob: 0346-5648635	8.	Mr. Hayatullah, Regional Coordinator, Allama Iqbal Open University, Vice Principal, Govt. Shaheed Omar Hayat High School, Charsadda. 0313-9173884	9.	Mr. Inam Ullah, Regional Coordinator, Allama Iqbal Open University, Asstt. Prof., Govt. Degree College, Ekka Ghund, Mohmand Agency. 0301-8890889
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13.	Mr. Aurang Badshah, Regional Coordinator, Allama Iqbal Open University, SS, Village & P.O Piran, Batkhela Malakand. 0341-0503658, 0345-9354518	14.	Mr. Muhammad Ayaz Khan, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. Degree College, Puran, District Shangla. 0345-8530350	15.	Mr. Muhammad Arif, Regional Coordinator, Allama Iqbal Open University, SET, Govt. Middle High School, Daggay, Tehsil Kabal Swat. 0345-9528291
16.	Mr. Muhammad Qasim Khan, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School No.03, Bannu. 0333-9732541	17.	Mr. Ghulam Wahid, Regional Coordinator, Allama Iqbal Open University, Headmaster, GHS, Bibywar, Dir Upper. 0302-8335588	18.	Mr. Faiz Ali Khan, Regional Coordinator, Allama Iqbal Open University, SS, Govt. High School Sigband, Tehsil Matta, District Swat. 0346-9416144
19.	Mr. Zia ul Haq, Regional Coordinator, Allama Iqbal Open University, Asstt. Prof. GPGC Khar, Bajour Agency. 0307-8566671, 0345-9155616	20.	Mr. Asal Jan, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Higher Secondary School Mama Khel, Banochi, Bannu. 0332-8542734, 0346-8299980	21.	Mr. Abdul Qudoos, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. Degree College Wana, South Wasiristan. 0333-9313095
22.	Mr. Iqbal Badshah, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Higher Secondary School No.03, Lakki Marwat. 0346-9501419	23.	Mr. Muhammad Salim Khan, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School No.01, Tank. 0336-9445974	24.	Mr. Khurshid Khan, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School, Takht Bhai, District Mardan. 0300-9300588, 0315-9300077
25.	Mr. Iftikhar Ali, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. High School, Ghala, Tehsil Katlang, District Mardan. 0346-9354577	26.	Mr. Anwar Zaib, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. High School, Dhadher, Tehsil&District Swabi. 0314-9870444	27.	Mr. Ghaza Bacha, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Higher Secondary, School Kunda, Tehsil Lahor, District Swabi. 0336-5686975
28.	Mr. Muhammad Taufeeque Khan, Regional Coordinator, Allama Iqbal Open University, Principal (Rtd.), Mehtab Khurshid School & College Kotha, Swabi. 0346-5586218	29.	Mr. Muhammad Ayaz, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School, Asota Sharif, Tehsil Razar, District Swabi. 0313-6692788		

BALOCHISTAN

1.	Mr. Mohammad Yousaf, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. High School Mashkaf, Tehsil Dhadar, District Kachhi Bolan.	2.	Mr. Fazal Din Abro, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School, Sardar Sohbat Khan Gola, Tehsil Dera Allah Yar, District Jaffarabad. 0333-7858673	3.	Mr. Zahid Hussain, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School, Sohbat Pur. 0345-4821186
4.	Mr. Mohammad Ayaz, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys Model High School Sibi. 0333-7710714	5.	Mr. Mohammad Tariq, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys Middle School Kali Saleh Mohammad Tehsil Gandawah, District Jhal Magsi. 0333-2315891	6.	Mr. Sahib Jan, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys High School, Harnai. 0332-8099430
7.	Mr. Muhammad Asif, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School Mastung. 0334-3062311	8.	Mr. Muhammad Jumman, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Elementary College Uthal, District Lasbela. 0333-2875203, 0315-2555006	9.	Mr. Abdul Majeed, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School Akram Colony Hub, District Lasbela.

GILGIT BALTISTAN

1.	Mr. Ghulam Murtaza, Regional Coordinator, Allama Iqbal Open University, TGT, F. G. Boys High School Nagar-I. 0355-5550013	2.	Mr. Manzoor Hussain, Regional Coordinator, Allama Iqbal Open University, AEO, Deputy Director Education Office, District Nagar. 0310-0500714	3.	Mr. Adina Baig, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys High School, Taus, Yasine District Ghizar. 0312-9712256
4.	Mr. Mehfooz Ullah, Regional Coordinator, Allama Iqbal Open University, SST, Govt. High School Darel. 0355-5355009	5.	Mr. Piyar Ali, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys High School Aliabad, District Hunza. 0355-5231988		

AZAD KASHMIR

1.	Mr. Sajid Hussain Awan, Regional Coordinator, Allama Iqbal Open University, Principal, Read Foundation Inter Science College Hatian Bala, AK. 0346-5411240	2.	Mr. Khalid Manzoor Mufti, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Girls Degree College Aathmuqam, District Neelum, AK. 0355-8158556	3.	Mr. Bashir Ahmed Malik, Regional Coordinator, Allama Iqbal Open University, Principal (R) Village Parsacha, P/O Tehsil Pattika, Muzaffarabad, AK. 0342-0525164
4.	Malik Mushtaq Ahmed, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Girls Inter College Leepa, AK. 0355-8155551				



ALLAMA IQBAL OPEN UNIVERSITY

(DEPARTMENT OF EXAMINATIONS)

FEE TARIFF*

Sr.#	Programme	Fee Rates for		
		Ordinary	Urgent	Duplicate
1.	Course Certificate of SSC/HSSC/Bachelor Programme/ Elementary Arabic/Non-Credit	Rs.400/-	Rs.800/-	Rs.1600/-
2.	SSC(Matric)/HSSC(Intermediate)/PTC/CT/ATTC	Rs.500/-	Rs.1000/-	Rs.2000/-
3.	BA/B.Com/BBA(old)/BLIS/BCS/Associate Degree (2 years)/ Undergraduate Diploma/Certificate	Rs.800/-	Rs.1600/-	Rs.3200/-
4.	BS / BBA (4 years) Associate Degree (4 years) etc.	Rs.1200/-	Rs.2400/-	Rs.4800/-
5.	B. Ed. (old programme)	Rs.1000/-	Rs.2000/-	Rs.4000/-
6.	B.Ed. (1.5 years / 2.5 years / 4 years)	Rs.1200/-	Rs.2400/-	Rs.4800/-
7.	MA/M.Sc/M.Ed/MBA/M.Com/MBA & MPA Executive	Rs.1200/-	Rs.2400/-	Rs.4800/-
8.	Postgraduate Diploma / Certificate	Rs.1000/-	Rs.2000/-	Rs.4000/-
9.	M.Phil/MS/LLM/M.Sc (Honors)	Rs.2000/-	Rs.4000/-	Rs.8000/-
10.	Ph.D	Rs.3000/-	Rs.6000/-	Rs.12000/-
11.	Fee of Triplicate Certificate/Degree from Matric to Bachelor Programme			Rs.5000/-
	Fee of Triplicate Degree of B.Ed /BS (4years)/Master/MS/MPhil Programme			Rs.10000/-
12.	Change of Examination Center			Rs.600/-
13.	Duplicate Result Card Per Semester (Beyond Two Current Semesters)			Rs.100/-
14.	Rechecking of per Answer Script ATTC /CT/PTC/B.Ed / all Graduate Programme			Rs.700/-
	Rechecking of per Answer Script BS / MA / MSc / PGD & equivalent			Rs.800/-
	Rechecking of per Answer Script MS / MPhil / PhD & equivalent			Rs.1000/-
15.	Change in Name or any other Correction in Certificate/ Degree (made by Board/University or Court Decision)	Double Fee of Ordinary Prescribed for Programme		
16.	Verification of Certificate/Degree (By Students or Departments)	By Post Rs.600/-	By hand (same day) Rs.1000/-	
	Verification of Certificate/Degree from Foreign Organizations/Oversees Countries	USD 100* * including USD 25 for Courier Charges		
Sr. No.	Re-Appear Exams Fee for Programme	Fee Rate Per Course		
1.	SSC / PTC / Elementary Arabic	Rs.100/-		
2.	ATTC	Rs.180/-		
3.	HSSC / CT / Diploma 10 + 3	Rs.200/-		
4.	Bachelor / Associate Degree (2 years)	Rs.300/-		
5.	BS / BBA / Associate Degree (4 years)	Rs.400/-		
6.	B. Ed. (old) / B.Ed (1.5 years / 2.5 years / 4 years)	Rs.400/-		
7.	M.A / M.Sc / MBA / M.Ed/ PGD / MS / M.Phil	Rs.500/-		
8.	Ph.D	Rs.800/-		

*Applicable with effect from 1st January 2020.



علامہ اقبال اوپن یونیورسٹی، اسلام آباد
(شعبہ امتحانات، ریکارڈ سیکشن)

FOR OFFICE USE ONLY

DTS No	PC No

درخواست برائے حصول پرویزٹل (PRC) / سرٹیفکیٹ اسناد ڈگری / ڈپلومہ کے لیے مکمل کاغذات کے ساتھ فارم جمع کرانا ضروری ہے۔

Degree	<input checked="" type="checkbox"/>
Urgent	<input type="checkbox"/>
Normal	<input type="checkbox"/>

نوٹ: فیس جمع کرنے کے بعد بیٹک چالان (AIUO ڈیپارٹمنٹ کا پی) بمقام بیٹک میں جمع نہ کروائیں بلکہ تمام کنٹرولر امتحانات AIUO کے پتے پر ارسال کریں۔

پروگرام کا نام _____

رول نمبر	رجسٹریشن نمبر	گروپ کا نام (جنرل، کامرس، ورس، نظامی)

نام طالب علم (اردو میں) _____ ولدیت (اردو میں) _____

نام انگریزی حروف میں _____ (اپنا نام اور ولدیت وہی تحریر کریں جو میٹرک کی سند میں ہے)

Name	
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ولدیت انگریزی حروف میں _____

S/o, D/o	
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ڈاک کا مکمل پتہ (انگریزی حروف میں) _____

موبائل فون نمبر (لازمی) _____ ای میل: _____

سرٹیفکیٹ / ڈگری فیس _____ دوبارہ امتحانی فیس (RA) _____ کل فیس _____ بذریعہ بیٹک چالان نمبر _____ مورخہ _____ برانچ کا نام _____ ادا کردہ گی ہے۔

تاریخ پیدائش (صرف میٹرک کی پرویزٹل رزلٹ کارڈ PRC حاصل کرنے کے لیے) _____ قومی شناختی کارڈ کا نمبر (شناختی کارڈ کی فوٹو کا پی اف کریں) _____

پاس شدہ کورسز / مضامین کی تفصیل کا اندراج کریں

نمبر شمار	کورس کوڈ	سمسٹر	مائل کردہ نمبر	نمبر شمار	کورس کوڈ	سمسٹر	مائل کردہ نمبر	نمبر شمار	کورس کوڈ	سمسٹر	مائل کردہ نمبر
-1				-15				-1			
-2				-16				-2			
-3				-17				-3			
-4				-18				-4			
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(رزلٹ کارڈ سمسٹر وارزف کرتیں)

ایم بی اے / ایم بی اے / ایم ایل آئی ایس / ایم ایل بی ایچ ڈی کے طلبہ Viva Voce پاس کرنے کی تاریخ درج کریں۔

بیان حلفی: میں ملحق بیان کرتا ہوں کہ اوپر جو معلومات درج کی گئی ہیں وہ درست ہیں اور ان میں کسی قسم کی غلطی یا غلطی نہیں کی گئی ہے۔ جو تصدیق شدہ استاد / سرٹیفکیٹ / ڈگری اور رزلٹ کارڈز کی کاپیاں درخواست کے ساتھ منسلک کی ہیں وہ میرے اپنے ہیں۔ اگر کوئی قسم یا تبدیلی پائی گئی تو یہ خود بخود ہی غلطی یا غلطی ثابت ہوگی۔

دستخط طالب علم

پتہ برائے ترسیل (طالب علم خود پر کریں)

پتہ برائے ترسیل (طالب علم خود پر کریں)

سرٹیفکیٹ / ڈگری
نام (طالب علم):
ولدیت:
ڈاک کا مکمل پتہ:
تحصیل
فون / موبائل نمبر (لازمی)

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