

2019

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Prospectus

BS (Face to Face)

- Botany
- Environmental Sciences
- Computer Science
- Mathematics
- Statistics
- Physics

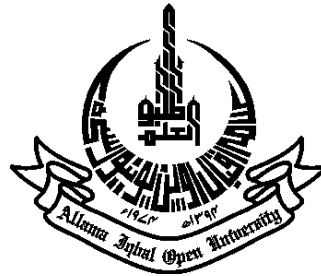


Allama Iqbal Open University, Islamabad

www.aiou.edu.pk

Help Line: (051) 111-112-468

PROSPECTUS
OF
BS (face to face) Programmes
For
SEMESTER: AUTUMN, 2019



Allama Iqbal Open University, Islamabad

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Vice-Chancellor's Message

Dear Student,

السلام عليكم

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 undergraduate degrees.

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

Admission Process

- Visit Website <https://online.aiou.edu.pk>
- From “Fresh Admission” list, select “BS, MS, PhD”
- Click on “Step 1: Apply Now” Button
- Fill complete form, specially all mandatory fields marked with “*”
- Print Challan Form
- Visit MCB Bank or Allied Bank to submit the Processing Fee of Rs.500 as given in challan.

Selected candidates will be contacted via SMS/Email after shortlisting for payment of First Semester Fee. You can also check the status at: <https://online.aiou.edu.pk> by going to “Admission Status” section. If you are shortlisted for admission, follow the given process for submission of fee and send the printed admission form:

- Visit Website <https://online.aiou.edu.pk>
- From “Fresh Admission” list, select “BS, MS, PhD”
- Click on Step 2 “Already applied” button
- Enter fee payment detail and print Admission Form along with Fee Challan.
- Attach all required documents and send to AIOU according to the addresses given in following table:

Programme	Address
<ul style="list-style-type: none"> • BS Botany • BS Environmental Sciences 	The Chairperson, Department of Biology & Environmental Science, Allama Iqbal Open University, H-8, Islamabad
<ul style="list-style-type: none"> • BS Computer Science 	Coordinator BS Programme, Computer Science Department, Block 24, Allama Iqbal Open University, H-8, Islamabad
<ul style="list-style-type: none"> • BS Mathematics 	Department of Mathematics, Block No. 7, Room No. 11, Allama Iqbal Open University, H-8, Islamabad
<ul style="list-style-type: none"> • BS Physics 	Department of Physics, Research Complex/Science Block, First Floor, Allama Iqbal Open University, H-8, Islamabad
<ul style="list-style-type: none"> • BS Statistics 	Chairman, Department of Statistics, Ground Floor, Block No. 7, Allama Iqbal Open University, H-8, Islamabad

Faculty of Science

Faculty of Sciences forms an important and integral part of the university. Since its establishment in 1982 with five teaching departments, it has undergone major development changes. It now comprises nine teaching and research departments which are offering courses at the undergraduate and postgraduate levels to more than ten thousands students. The Faculty operates under the basic guidelines of the University Act and on “Education for All as Convenient” basis so that maximum students get benefit from its academic programmes and educational facilities. This principle has necessitated some structural changes in the non- formal mode, particularly at the postgraduate level, in the offering of theory courses and practical lab work. This conceptual adjustment has been quite successful and many of its in-service students are benefiting from the postgraduate study programmes. Improvement in qualifications for a better life is a right of everyone and the Faculty’s programmes meet this challenge by offering opportunities to all. In particular a significant number of beneficiaries are those who cannot afford education in formal institutions due to a variety of reasons.

Realizing the importance of science education and growing needs of the Faculty of Sciences, the University has completed a building, the Research Complex, at a cost of Rs 35 million.

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

Two Model labs have been developed in the Research Complex with the assistance of the Higher Education Commission to meet the training needs of science teachers. This development is significant for training of teachers since under the new educational policy four-year BS programme has started in undergraduate educational institutions.

More than fifty highly qualified full-time faculty members are on the roll of the Faculty of Sciences. Their role in the planning, designing and development of courses to meet student’s needs is vital. Faculty members also engage in imparting and supervising of instructions so that high standards are maintained. In addition highly qualified and experienced professors are also engaged on contractual basis or as part time

instructors for postgraduate study programmes. The Faculty is also offering academic positions under the tenure-track system to attract the best minds in scientific and technological fields.

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

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

DEPARTMENT OF BIOLOGY AND ENVIRONMENTAL SCIENCE

The approval for the establishment of the Departments of Biology & Environmental Science was granted by the Executive Council in February 1998. The objective of its establishment is to provide human resources/skilled personnel in various areas of Biology and Environmental Science. Furthermore, the purpose is to educate future generation and improvement of quality of life and welfare of

human being through research for the environmentally sustainable and socially equitable use of the natural resources. The Department is unique in imparting distance-learning and face-to-face education in Pakistan in the field of Environmental Science and Biological Sciences.

The mission of Department of Biology and Environmental Science is to educate students in various disciplines of Life Sciences including those who could not continue their education due to economic or job constraints. The purpose of its establishment is to educate future generation and improvement of quality of life and welfare of human being through research and self-sufficiency.

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

The Department is offering following programs

1. BS Botany
2. BS Microbiology
3. BS Environmental Science
4. M. Sc Botany
5. M. Sc. Microbiology
6. M. Sc. Environmental Science

The department is all set to launch BS Biochemistry as of Spring 2020 semester. The available facilities include qualified regular faculty to fulfill teaching and research requirements in

addition to well-equipped labs of Microbiology, Botany and Environmental Science to cater practical and research requirements.

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 Program

This program 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 program 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.

Launching Scheme

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

Admission procedure

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

The Incharge
Department of Biology and Environmental
Science
Allama Iqbal Open University
Sector H-8, Islamabad

4. Selection of candidates will be made strictly on the basis of merit.
5. Only selected candidates will be informed about their admission

6. The selected candidates will be required to pay the dues.

Note

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

The Incharge
Department of Biology and Environmental Science
Allama Iqbal Open University
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

F.Sc (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 126 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 3 Years in maximum, after completion of initial period.

Scheme of Studies

Semester-1

Sr. No.	Course	Credit Hours	Course code
1	Cell Biology, Genetics and 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

Sr. No.	Course	Credit Hours	Course code
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* (ODL)	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	Molecular Biology	4(3+1)	4419
4	Plant Biochemistry	3(3+0)	7407
5	Mycology and Plant Pathology	3 (2+1)	7408
6	Scientific Research	4(3+1)	7413
Total Credits		20	

Semester-7

1	Plant Ecology -II	3(2+1)	7409
2	Plant Systematics	3(2+1)	7410
3	Plant Physiology - II	3 (2+1)	7411
4	Genetics - I	3(3+0)	7412
5	Biostatistics	3(3+0)	4482
Total Credits		15	

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+20+15+16=128

FEE TARIFF FOR 1st SEMESTER

#	Item	Rates
1.	Registration Fee (Once at time of admission)	Rs.500/-
2.	Admission Fee (Once at time of 1 st admission)	Rs.500/-
3	Technology Fee	Rs.135/-
3.	Per 4 Credit hours course fee: Rs. 7075	Rs. 21225/-
4.	Per 3 Credit hours course fee: Rs. 3555	Rs.3555/-
5.	English-I (ODL)	Rs.510/-
	Total	Rs. 26425/-

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

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 at any time during the study period. All such changes shall be applicable to all students.

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. F.Sc (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. Only the prescribed printed admission forms duly filled along with the attested copies of academic documents, certificates and DMCs are required to be sent to the Chairperson, Department of Environmental Science, AIOU, H-8, Islamabad.

MERIT DETERMINATION

Merit will be determined as per following weightage

Matriculation	20%
F. Sc.	60%
Marks in Science Subjects	20%

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.

The Grading System

In BS Environmental Science program student have to secure at least 50% marks in Lab and field assignment or class test and final examination each individually and 50% marks in aggregate to pass the program.

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 3 Years in maximum, after completion of initial period.

SEMESTER WISE DISTRIBUTION OF COURSE

Semester 1

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

Semester 2

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

Semester 3

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

Semester 4

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

Semester 5

* For Non-Muslims Only

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

Semester 6

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

Semester 7

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

Semester 8

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

Total Credit = 18+18+14+18+14+17+18+13 = 130

FEE TARIFF FOR 1st SEMESTER

#	Item	Rates
1.	Registration Fee (Once at time of admission)	Rs.500/-
2.	Admission Fee (Once at time of 1 st admission)	Rs.500/-
3	Technology Fee	Rs.135/-
3.	Per 4 credit hours course fee: Rs. 7075 Rs. 7075× 3 = Rs. 21225/-	Rs.21225/-
4.	Per 3 credit hours course fee: Rs. 3555	Rs.3555/-
5.	Course on Open Distance Learning (English)	Rs.510/-
	Total	Rs.26425/-

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

Submit your application on the prescribed admission form to:

The Chairperson
Department of Biology and Environmental Science
Allama Iqbal Open University
Sector H-8, Islamabad

FACULTY MEMBERS

1. **Dr. Hina Fatima**
In Charge
Department of Biology & Environmental Science,
Research Complex, AIOU, Sector H-8, Islamabad
Ph: 051-9057279
2. **Dr. Muhammad Waseem**
Assistant Professor
Ph: 051-9057267
3. **Dr. Zahid Ullah**
Assistant Professor. & Coordinator F. Sc.
Ph: 051-9057735
4. **Dr. Rizwana Kousar**
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 COMPUTER SCIENCE

Introduction:

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

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

Science) programme like English, Pakistan Studies, and Islamic Studies etc.

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

BS (Computer Science) Programme

a) Introduction:

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

Recommendations Committee. They will also be eligible to get admission in the MS (CS) Programme of AIOU.

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

Note:

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

b) Objectives:-

To develop the professionals in the field of Computer Science.

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

c) Eligibility

The Candidates having intermediate or equivalent qualification from any recognized institution with at least 45% marks.

d) Offering of BS (CS) Programme at Rawalpindi, Islamabad & Lahore

The Department of Computer Science is offering BS (CS) Programme at **Rawalpindi, Islamabad & Lahore**. The classes shall be conducted at Approved Study Centers.

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

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

Selection Criteria

Admission will be given to **all candidates** satisfying the eligibility requirements, subject to viable group of students at the selected Approved Study centers in Lahore, Islamabad, Rawalpindi and selected regions such as Dera Ghazi Khan, Rahim Yar Khan, Multan and Bahawalpur.

f) Scheme of Study

Semester 1

Code	Title	Credit Hours	Fee (Rs.)
9407	English-I+	3(3+0)	510/-
9402	Pakistan Studies+	3(3+0)	510/-
9401/418	Islamic Studies/Ethics+	3(3+0)	510/-
9421	Introduction to ICT	3(2+1)	5620/-
9423	Mathematics for Computing-I	3(3+0)	5620/-
9422	Basic Electronics	3(2+1)	5620/-

Semester 2

Code	Title	Credit Hours	Fee (Rs.)
9413/0112	Foreign Language (Arabic+) / (French*)	3(3+0)	Rs.510/- with Arabic and Rs.3770/- with French Online
3454	Linear Algebra	3(3+0)	5620/-
3409	Digital Logic Design	4(3+1)	7510/-
3407	Programming Language-I	4(3+1)	7510/-
3403	Mathematics for Computing-II	4(3+1)	7510/-

Semester 3

Code	Title	Credit Hours	Fee (Rs.)
3406	Discrete Mathematics	4(4+0)	7510/-
3438	Computer Communications & Networks	4(3+1)	7510/-
3411	Programming Language-II	4(3+1)	7510/-
3456	Business Communication	3(3+0)	5620/-
3453	Computer Organization & Assembly	3(2+1)	5620/-

Semester 4

3496	Ordinary Differential Equations	3(3+0)	5620/-
3447	Statistics & Probability	3(3+0)	5620/-
3416	Computer Architecture	3(3+0)	5620/-
3408	Data Structure	3(2+1)	5620/-
3415	Programming Languages-III	3(2+1)	5620/-
3457	Management Theory & Practice	3(3+0)	5620/-

Semester 5

3414	Software Engineering-1	4(4+0)	7510/-
3452	Theory of Automata	3(3+0)	5620/-
3466	Analysis & Design of Algorithms	3(3+0)	5620/-
3410	Database-1	4(3+1)	7510/-
3439	Operating System	4(4+0)	7510/-
4470	**BS Internship Seminar	0	0

Semester 6

3449	Human Computer Interaction	3(2+1)	5620/-
3412	Research Methods	3(3+0)	5620/-
3451	Artificial Intelligence	3(3+0)	5620/-
3461	Management Information System	3(3+0)	5620/-
3497	Information Security	3(3+0)	5620/-
3468	Compiler Construction	3(3+0)	5620/-

Semester 7

Code	Title	Credit Hours	Fee (Rs.)
3498	Software House Practices	3(3+0)	5620/-
3499	Mobile Application Development	3(2+1)	5620/-
-	CS Major-I	-	
-	CS Major-II	-	
-	CS Major-III	-	

Semester 8

-	CS Major-IV	-	
-	CS Major-V	-	
-	CS Major-VI	-	
3475	Project	6(0+6)	13025/-

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

+ These courses are offered in distance learning mode.

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

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

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

Major Areas of Specialization (BS (CS) Electives)

Software Engineering

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

Information Technology

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

Networking

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

Multimedia

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

General

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

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

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

may add other specialized areas or may add elective courses to any specialized defined area.

g) Assessment

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

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

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

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

h) Fee Structure

Also keeping in line with the tradition of low cost educational services, the fees of BS (CS) programme courses is affordable. The details of the fee payable are given below:

First Semester Fee for BS (CS) Programme

Item	Rate	Total
Registration Fee: (at the time of 1 st admission)	Rs.500/-	Rs.500/-
Admission Fee: (at the time of 1 st admission)	Rs.500/-	Rs.500/-
Tuition Fee: Distance Courses: per course	Rs.510/-	3×510/- = Rs.1530/-
Face to Face Course Fee: Per Course	Rs.5620/-	3×5620/- = Rs.16865/-
Technology Fee (each semester)	Rs.100/-	Rs.100/-
Courier Charges (each semester)	Rs.35/-	Rs.35/-
Total Fee for First Semester		Rs.19530/-

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

i) Programme Coordinator:

For further information, please feel free to contact:

Chaudhary Muhammad Shahbaz Anjum

Email: dcs@aiou.edu.pk

Phone No: 051-9057780, 051-9057809

j) Faculty Members

Prof. Dr. Syed Zafar Ilyas
Dean, Faculty of Sciences
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4. Chaudhary Muhammad Shahbaz Anjum
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5. Ms. Sana Naseem Karam
Lecturer, DCS, AIOU
Contact #: 9057158
6. Mr. Tahir Javed
Lecturer, DCS, AIOU
Contact #: 051-9057440

DEPARTMENT OF MATHEMATIC

Introduction:

The Department of Mathematics has been established in June 2014. In June 2014, the Department of Mathematics & Statistics has been bifurcated as two independent departments. The newly established Department of Mathematics has been shifted from Research Complex, Science Block to Block No.07 and has started functioning over there. Presently the Department is offering courses of Mathematics at Secondary School Certificate (SSC), Higher Secondary School Certificate (HSSC) and Bachelor levels. The Department is running the following programs

- i) M.Sc. Mathematics**
- ii) M.phil Mathematics**
- iii) BS Mathematics**

In future the Department intends to start Ph.D Mathematics Program. BS Mathematics has been designed after consulting syllabi of national and international universities. It will strengthen the mathematical concepts of the candidates and

will enhance their logical thinking. This program will also cater the needs of Information Technology and other sciences disciplines.

BS Mathematics Program

Introduction:

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

Objectives:

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

- To produce quality teacher/researchers of Mathematics at all levels.

Summary of the Program:

Duration : 8 semesters (4 years)

Total Credit Hours : 134.

Eligibility:

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

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:

Course Title	Code	Credit Hrs
Semester I		
English-I (ODL)	9407	3(3+0)
Calculus-I	4432	3(3+0)
Pakistan Studies (ODL)	9402	3(3+0)
Fundamentals of Compt.	3400	4(3+1)
Introductory Statistics	4434	3(3+0)
Set Theory and Logic	4471	<u>3(3+0)</u>
		19

Course Title	Code	Credit Hrs
Semester II		
English-II (ODL)	9408	3(3+0)
Calculus-II	4433	3(3+0)
Pakistani Adab-I (ODL)	9403	3(3+0)
Discrete Mathematics-I	1549	3(3+0)
Intro. to Env. Sciences	4441	4(3+1)
Introduction to Sociology: Culture and Society (ODL)	9410	<u>3(3+0)</u>
		19
Course Title	Code	Credit Hrs
Semester III		
English-III (ODL)	9409	3(3+0)
Islamiat (ODL)	9401	3(3+0)
Waves and Oscillations	5459	3(3+0)
Algebra-I	4472	3(3+0)
Analytical Geometry	4473	3(3+0)
Vector and Tensor Analysis	4474	<u>3(3+0)</u>
		18

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

Course Title	Code	Credit Hrs
Semester V		
Computer and Scientific Applications C++	1520	3(3+0)
Topology	1521	3(3+0)
Linear Algebra	1522	3(3+0)
Real Analysis-I	1523	3(3+0)
Ordinary Differential Equations	1525	<u>3(3+0)</u>
		15

Course Title	Code	Credit Hrs
Semester VI		
Differential Geometry	1524	3(3+0)
Complex Analysis	1527	3(3+0)
Group Theory	1528	3(3+0)
Analytical Mechanics	1529	3(3+0)
Real Analysis-II	1530	<u>3(3+0)</u>
		15

Course Title	Code	Credit Hrs
Semester VII		
Numerical Methods	1531	3(3+0)
Partial Differential Equations	1532	3(3+0)
Functional Analysis	1533	3(3+0)
Theory of Rings	1534	3(3+0)
Mathematical Statistics-I	1538	<u>3(3+0)</u>
		15

Course Title	Code	Credit Hrs
Semester VIII		
Optional-I		3(3+0)
Optional-II		3(3+0)
Optional-III		3(3+0)
Optional-IV		3(3+0)
Optional-V		<u>3(3+0)</u>
		15

Optional

Sr. No.	Title of the Course	Code	Credit Hrs.
1.	Mathematical Finance-I	4478	3(3+0)
2.	Theory of Racks and Quandles	4479	3(3+0)
3.	Research Project	4480	3(3+0)
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 TARIFF FOR Ist SEMESTER:

Registration Fee (Once at time of I st admission)	Rs.500/-
Technology Fee + Courier Charges	Rs.135/-
Admission Fee:	Rs1000/-
Fee for per 3 credit hour course Rs. 5,710/-	Rs. 5,710×3= Rs. 17,130/-
Course Code (3400) Fee: Rs. 7,550/-	Rs.7550/-
Fee for per Open distance learning course Rs. 510/-	Rs. 510× 2 = Rs. 1,020/-
Total Fee for Ist Semester	Rs. 27,335/-

Instructional Methodology:**Study material:**

Books 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, the 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 final schedule of the lectures will be distributed to the students at the start of the classes during

each semester at AIOU, Islamabad. Minimum 70% attendance is necessary in all subjects as per AIOU rules.

Assignments/ Test:

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

Final Examination:

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

Minimum Passing Marks:

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

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

FACULTY MEMBERS

1. **Dr. Nasir Rehman**
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2. **Dr. Naqeeb-ur-Rehman**
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051-9057339
3. **Mr. Muhammad Faisal Iqbal**
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Phone: 051-9057380
4. **Mr. Muhammad Aatif**
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Phone: 051-9057197
5. **Dr. Irfan Mustafa**
Lecturer (M.Phil Math Coordinator)
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6. **Dr. Muhammad Nazam**
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7. **Ms. Fouzia Rehman**
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8. **Staff:**
Department of Mathematics
Phone: 051-9057734

DEPARTMENT OF PHYSICS

Introduction:

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

The Department is presently running BS 4 years, MSc, MPhil & PhD degree program with specialization in various disciplines. New fields of specialization and programme of studies are approved and be operational from the next academic year. Apart from capacity development activities Department of Physics has been involved in several international, national and regional research projects. Physics Deptt has developed research linkage with other National and International Universities and research organizations of repute to ensure two-way flow of knowledge.

Vision:

The Department of Physics carries out Physics and provides teaching and research programmes that will contribute significantly to the development of human capacity, science and technology in Pakistan. Our vision is to see our graduates and postgraduates to be equipped with the fundamental

knowledge of Physics, problem solving, life and communication skills. This will be achieved by reviewing and developing relevant academic programmes and research and research projects to address Pakistan technological needs in areas like Energy, Renewable energy, Hydrogen Energy, Environment, Astronomy, Nanotechnology, Materials science, Plasma, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and Nuclear Physics. Our vision is to be a locally and internationally recognized Physics Department that exposes its successes in public awareness campaign and through established knowledge dissemination channels.

Mission:

The Department of Physics at AIOU becomes a nationally and internationally recognized research and educational unit. Our faculty strives to push the boundaries of our understanding in a wide variety of fundamental and applied Physics areas while providing the best research opportunities for our majors. The blending of classroom learning with training in XXI Century front-edge research facilities allows our graduates post graduates to become successful researchers, teachers and applied scientists in nowadays-competitive marketplace. At the same time, we are fully committed, as the physics department of the major research university in our border region, to contribute to the general

public appreciation and respect for the scientific work and knowledge.

Core Values:

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

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

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

BS Physics

Objectives of the Programme:

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

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

10. To provide an in-depth understanding of some specialized area of Physics through the option of elective courses.
11. To equip students with the necessary skill set for pursuing careers in Physics education, research and industry in government or private organizations

Eligibility Requirements:

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

Scheme of Studies: *Semester wise course offering:*

Semester – 1st

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

Semester – 2nd

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

Semester – 3rd

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

Semester – 4th

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

Semester – 5th

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

Semester – 6th

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

Semester – 7th

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

Semester – 8th

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

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

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

Registration fee: (at 1 st time in University)	Rs. 500/-
Admission fee: (at 1 st time in programme)	Rs.700/-
Technology fee + Courier Charges:	Rs.135/-
English Composition & Comprehension	Rs.5350/-
Pakistan Studies	Rs.3565/-
Basic Calculus-I	Rs.5350/-
Introduction to Computers	Rs.5350/-
Mechanics	Rs.7130/-
Laboratory for Mechanics & fluids	Rs.1780/-
Sociology	Rs.5350/-
Total Fee	Rs.35210/-

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

Instructional Methodology:

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

i) Study Material:

The University will provide reprinted and compiled course books.

ii) Tutorial Support and Workshops:

Face to Face lectures will be a support for this programme by resource persons in the lecture sessions. A minimum, 48 hours of face to face teaching for each 03 credit hour course, will be provided in these sessions. Attendance in these sessions is compulsory. Students failing to attain 70% attendance in theory

courses will not be eligible to appear in the final examination. Laboratory course and its practical work will be supervised and assessed by the laboratory course supervisors. 80% attendance is compulsory for all the students in the laboratory course. AIOU will not bear any cost regarding TA/DA or boarding/lodging facilities during the classes.

iii) Schedule of classes:

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

iv) Assessment:

Student performance is evaluated / assessed as under:

Class assignment through quiz/sessional test/assignment weightage

= 20%

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

= 10%

Final Paper

= 70%

Aggregate

= 50%

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

Admission will be finalized after test and interview.

Faculty Members:

Prof. Dr. Syed Zafar Ilyas,

Chairman

Department of Physics,

Phone # 051-9057728

Mr. Ather Hassan

Assistant Professor,

Phone # 051-9057214

Dr. Surayya Mukhtar

Assistant Professor,

Phone # 051-9057184

Dr. Tariq Jan

Assistant Professor,

Phone# 051-9057214

Ms. Hareem Mufti

Lecturer,

Phone # 051-9057727

Mr. Abdul Jalil

Lecturer,

Phone # 051-9057214

Ms. Uzma Nosheen

Lecturer,

Phone # 051-9057727

Ms. Tayyba Aftab

Lecturer

Phone # 051-9057728

Mr. Hussain Ahmed

Research Associate,

Phone # 051-9057214

Muhammad Imran

Laboratory Assistant

Phone # 051-7728

Ms. Zeba Sultana

UDC

Phone # 051-9057728

Amjad Satti

Laboratory Assistant

Phone # 051-9057728

Muhammad Aman

Laboratory Assistant

Phone # 051-9057728

DEPARTMENT OF STATISTICS

Introduction:

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

Academic Programmes

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

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

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

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

BS Statistics Programme

Introduction

With the passage of time in the new era of globalization, significant changes have been made in almost all walks of life to keep in pace with the growing world. Among many other fields, improvement in existing education system has become the top most priority of many nations across the globe. Therefore, it is the need of time to modify our current education system in order to meet the international standards. Having a vision of brighter future with compatible educated youth, the Department of Statistics is launching BS Statistics programme from Spring 2017. The BS Statistics would be sixteen years education equivalent to MSc Statistics and fulfilling the international standards of graduate degree.

Aims and Objectives:

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

Eligibility:

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

Merit Criteria:

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

Degree Requirements:

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

Payment of fee:

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

Hostel and Cafeteria Facilities:

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

Library and Internet Facilities:

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

Scheme of Studies:

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

1st Semester

Sr.#	Course Title	Code	Credit Hours
1.	Fundamentals of Computer	3400	4(3+1)
2.	Calculus-I	4432	3(3+0)
3.	Introductory Statistics	4434	3(3+0)
4.	Pakistan Studies (ODL)	9402	3(3+0)
5.	English-I (ODL)	9407	3(3+0)
6.	Business Communications (ODL)	9412	3(3+0)
Sub Total			19

2nd Semester

Sr.#	Course Title	Code	Cr.Hrs
1.	Calculus-II	4433	3(3+0)
2.	Introduction to Environment Sciences	4441	4(3+1)
3.	Introduction to regression analysis and experimental designs	4486	3(3+0)
4.	Pakistani Adab-I (ODL)	9403	3(3+0)
5.	English-II (ODL)	9408	3(3+0)
6.	Introduction to Sociology: Culture & Society (ODL)	9410	3(3+0)
Sub Total			19

3rd Semester

Sr.#	Course Title	Code	Credit Hours
1.	Algebra-I	4472	3(3+0)
2.	Introduction to Probability & Probability Distributions	4488	3(3+0)
3.	Islamiat/Ethics (For Non-Muslim Students only) (ODL)	9401	3(3+0)
4.	Principles of Marketing (ODL)	9405	3(3+0)
5.	English-III (ODL)	9409	3(3+0)
6.	Population Studies (ODL)	9411	3(3+0)
Sub Total			18

ODL* (Open Distance Learning)

4th Semester

Sr. #	Course Title	Code	Credit Hours
1.	Computing Tools	4477	3(2+1)
2.	Probability Theory and Statistics	4489	3(3+0)
3.	Basic Statistical Inference	4491	3(3+0)
4.	Official Statistics	4492	3(3+0)
5.	Human Resource Management (ODL)	9406	3(3+0)
6.	Arabic Language (ODL)	9413	3(3+0)
Sub Total			18

5th Semester

Sr. #	Course Title	Code	Credit Hours
1	Statistical Methods	1551	3(3+0)
2	Sampling Techniques-I	1552	3(3+0)
3	Design & Analysis of Experiments-I	1553	3(3+0)
4	Probability & Probability Distributions-I	1554	3(3+0)
5	Advanced Calculus	1555	3(3+0)
Sub Total			15

6th Semester

Sr. No.	Course Title	Code	Credit Hours
1	Non Parametric 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

7th Semester

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

8th Semester

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

Total BS Statistics Programme Credit Hours = 134

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

Sr.#	Course Title	Code	Credit Hours
1.	Reliability Analysis	1571	3(3+0)
2.	Data Mining	1572	3(3+0)
3.	Bayesian Statistics	1573	3(3+0)
4.	Biostatistics	1574	3(3+0)
5.	Operations Research	1568	3(3+0)
6	Research Report	1570	3(3+0)

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

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

Course Title	Code	Credit Hours	Course Wise
Fundamentals of Computer	3400	4(3+1)	Rs.7,550/-
Calculus-I	4432	3(3+0)	Rs.6,000/-
Introductory Statistics	4434	3(3+0)	Rs.6,000/-
Pakistan Studies (ODL)	9402	3(3+0)	Rs.510/-
English-I (ODL)	9407	3(3+0)	Rs.510/-
Business Communications (ODL)	9412	3(3+0)	Rs.510/-
Registration Fee (at the time of 1 st admission)			Rs.500/-
Admission Fee (at the time of 1 st admission)			Rs.700/-
Technology Fee + Courier Charges:			Rs.135/-
Total fee for 1st Semester			Rs.,22415/-

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

Instructional Methodology:

Study Material:

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

Face to Face teaching (Tutorials):

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

Weekend Classes/Workshops:

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

Continuous Assessment:

- Two home-assignments for each course will be given to the students.
- Two sessional exams for each course will be conducted and 50% marks in sessional exam is mandatory to appear in final examination.
- A student having less than 50% marks in continuous assessment component would not be eligible to appear in final exam. However, he/she can enroll himself /herself in the same course on the next offering as per AIOU rule.

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

Final Examination:

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

Passing percentage:

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

Note:

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

Chairman,
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GENERAL INFORMATION

- i. The certificates/degrees of AIOU are equivalent to any other recognized Board/University.
- ii. A candidate who has passed BA/BSc degrees (Level-5 Qualification i.e. 14 years education) can be admitted in Third Year (5th Semester) of BS (four years) degree programme upon successful completion of 15-18 credit hours bridging courses to be decided by admitting University.
- iii. A candidate is required to send complete admission form along with attested copies of all educational and experience certificates to Department as mentioned in the prospectus before or on the closing date.
- iv. If an applicant of post-graduate/research level programme does not receive any information regarding admission within three months from submission of application, he/she should presume non-selected.
- v. A course taken by any student cannot be change during the semester. However in real hardship cases, the change in courses will be allowed within fifteen days after receipt of books and deposit of prescribed fee.
- vi. The address of a student will not be changed during the semester.
- vii. **Admission to courses for both the Spring and Autumn semesters are generally offered in the months of February and August, respectively, whereas, examinations commenced in November and May respectively. The continuing students are sent computerized admission forms. However if for any**

reason, the student could not get the said form, he/she may purchase admission form from any Regional Office of the university or download from AIOU website and send it to the University within due date.

- viii. Fee cannot be refunded once paid for admission nor can it be adjusted for any other programme
- ix. On payment of the registration fee, each student will be issued a registration number. This number must be quoted in all the future correspondence along with the roll number, course(s), code numbers and semester.
- x. Study material shall be mailed to the students at their given addresses.
- xi. After receipt of the study package, students are usually intimated about the part time tutors for each course for tutorial guidance within fifteen days. If you do not get information about tutors, you are required to send your assignment by registered post to the concerned Regional Director, Assistant Regional Director without delay; you are also required to retain a photocopy of all your assignments.
- xii. Rules and regulations framed, enhanced and changed from time to time by the authorities, bodies of the university will be effective as deemed necessary. The

student will have to abide by all such rules and regulations from the date of their implementation.

- xiii. A student who fails in continuous assessment component is not eligible to reappear but will be allowed to re-register for the same course at its next offering semester by the university.
- xiv. It is the responsibility of the student to remain in touch with the department regarding the selected programme.
- xv. A student already admitted to a programme or a specialization of a programme shall not be allowed to transfer or to get admission to another programme unless he/she formally postpones it till the completion of the new programme or withdraws from the previous programme.
- xvi. After completion of a programme successfully, a student has to apply to Controller of Examinations for issuance of certificate/degree.
- xvii. The university reserves the right to change contents of this prospectus without any prior notice as per university policy.
- xviii. The student must inform the Admission Department in writing within the period of 15 days after receipt of study material parcel, *if found any wrong/short of material/ books which is not according to the admission form/ check list or mistake in name and address.* No

request for any change will be entertained after the stipulated period.

- xix. Check the books and tally with the course codes mentioned on the address label pasted on the registered packet. If there is any discrepancy, write immediately to Admission Deptt for correction/ supply of requisite books.
- xx. Admission forms incomplete in any respect will not be entertained and will be returned after close of semester to the students indicating the deficiency in clear terms with advise to request for refund of fee.
- xxi. Admission form received without prescribed fee less fee or fee deposited after due date will not be considered.
- xxii. In case of discrepancies in the name of student/ Father's name of the student or difference in name mentioned in his/her other educational certificates, the name on the Matric certificate of the student will be considered as correct name. The Examination Department shall also issue certificate/ degree on the said name.
- xxiii. In case provision of forged documents for admission, not only the admission will be refused to the applicant but the fee deposited by him/her will also be forfeited. The university may proceed further in the matter.

PROCEDURE FOR DEPOSITING FEE

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

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

REGULATIONS FOR REFUND OF ADMISSION FEE

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

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

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

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

IMPORTANT TELEPHONE NUMBERS

Sr. No.	Name	Telephone Nos.
1.	Director Admissions	051-9250043 051-9250162 (Fax)
2.	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. Muhammad Waheed Anjum, Regional Coordinator, Allama Iqbal Open University, SSS, Govt. Higher Secondary School, Sheikh Fazal, Burewala. 0331-7956198	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.	Dr. Mukhtar Ahmad Awan, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Boys High School No.2, Hassanabdal. 0312-5609715	6.	Mr. Zafar Mahmood Khakwani, Regional Coordinator, Allama Iqbal Open University, Dy.Headmaster(Rtd)Al.Mahmood Medical Store, Kachahry Road, Ahmad Pur East. 0300-6807969
7.	Mr. Muhammad Aslam, Regional Coordinator, Allama Iqbal Open University, SST, House No. 552, Khadim Abad Colony, Bahawalnagar. 0300-7923295	8.	Mr. Muhammad Arshad, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary School, 207/Murad, Chishtian. 0300-7546099	9.	Mr. Muhammad Naeem Qaisar, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. High School, Gagan Hatta, Lodhran.
10.	Ch. Muhammad Sarwar, Regional Coordinator, Allama Iqbal Open University, Principal (Rtd) Surgical Hospital, Bahawalpur Road, Hasil Pur. 0300-2934131	11.	Raja Muhammad Akhtar Khan, Regional Coordinator, Allama Iqbal Open University, Principal, Allama Iqbal Junior Public School, Choa Saidan Shah. 0346-5783355	12.	Mr. Muhammad Arif Khan, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Boys High School, No.2, Talagang. 0331-4855113

13.	Mr. Muhammad Javid Regional Coordinator, Allama Iqbal Open University, SSS, Govt. Higher Secondary School, Kallar Kahar. 0333-5904962	14.	Mr. Muhammad Saeed, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Boys Higher Secondary School Danda Shah Belawal, Lawa. 0333-5928107	15.	Mr. Arshad Mahmood Shahid, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Boys Degree College, Sara-e-Alamghir. 0333-5841544
16.	Ch. Muhammad Ashraf, Regional Coordinator, Allama Iqbal Open University, Street No. 10, Mohallah Mission Compound, Mehmada Raod, Gujrat. 0332-7144828	17.	Mr. Munwar Abbas, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary, School Bhowana. 0346-6417040	18.	Mr. Muhammad Sharif, Regional Coordinator, Allama Iqbal Open University, SST (R), Ward No.16, Street No.4, Nowan Sher, Shorkot City. 0301-7205704
19.	Mr. Mahmood Iqbal, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary School, Lalian. 0333-6575750	20.	Mr. Muhammad Noor Zaman, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School, Wasu Astana, 18-Hazari Jhang. 0332-6264432	21.	Dr. Tariq Majeed, Regional Coordinator, Allama Iqbal Open University, Professor, Govt. Islamia College, Chiniot. 0333- 6715262
22.	Mr. Hafeez ur Rehman, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. High School, Ahmed Pur Sial. 0333-6767108	23.	Syed Mukhtar Hussain Bukhari, Regional Coordinator, Allama Iqbal Open University, Assistant Professor, Govt. College, Bhakkar. 0333-8909805	24.	Mr. Faiz-ul-Hassan Khan, Regional Coordinator, Allama Iqbal Open University, SS (R), Near Jamia Masjid Firdaus, Darya Khan, District Bhakkar. 0301-4938528

25.	Mr. Muhammad Aslam Farooqi, Regional Coordinator, Allama Iqbal Open University, Assistant Prof. Govt. Degree College Jalalpu Pirwala. 0301-5227173	26.	Mr. Sikandar Hayat, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. Muslim Union High School Mian Channu. 0301-3017686, 0333-6248587	27.	Mr. Khalil Ahmad, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Postgraduate College Khanewal. 0301-7817130
28.	Ch. Basharat Ali, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Christian Higher Secondary School Rawalpindi City. 0333-5191799	29.	Dr. Muhammad Anwar, Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. Boys School, Bhabra, Wah Cantt. 0300-5363883	30.	Mr. Saqib Imam Rizvi Regional Coordinator, Allama Iqbal Open University, Headmaster, Govt. Elementary School Bhai Khan, Gujar Khan. 0300-5199749
31.	Mr. Muhammad Raza Vaince, Regional Coordinator, Allama Iqbal Open University, Senior Headmaster, Govt. High School Phalina, Tehsil Kallar Syedan, Distt. Rawalpindi.	32.	Syed Zamir Hussain Shah, Regional Coordinator, Allama Iqbal Open University, SSS, Govt. Higher Secondary School, Nara, Kahuta. 0301-5151911	33.	Mr. Sabeer Ahmad Abbasi, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. College, Jhika Gali Murree. 0300-5585228
34.	Mr. Muhammad, Regional Coordinator, Allama Iqbal Open University, Lecturer, Govt. College Depalpur. 0301-6390414	35.	Hafiz Muhammad Shafiq, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. High School Pakpattan Sharif. 0322-7858622	36.	Mr. Muhammad Iqbal, Regional Coordinator, Allama Iqbal Open University, SS. (Retd.), 157/C, Housing Scheme, Renala Khurd. 0308-7523947, 0345-7523947

37.	Mr. Muhammad Rafiq Saqee, Regional Coordinator, Allama Iqbal Open University, Sr. Headmaster, Govt. High School 37/EB, Arifwala. 0303-7782782	38.	Rana Abid Ali Khan, Regional Coordinator, Allama Iqbal Open University, Dy. Headmaster, Govt. MC Model High School Chichawatni. 0301-6925775	39.	Mr. Zafar Ali Tipu, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Postgraduate College for Boys Okara. 0333-6972392
40.	Mr. Abdul Ghafoor Zahid, Regional Coordinator, Allama Iqbal Open University, Senior Headmaster (Retired), House No.111, Madina Colony, Pir Shah, Kamalia. 0321-6550499	41.	Mr. Abdul Razzaq, Regional Coordinator, Allama Iqbal Open University, Dy. Headmaster, Govt. High School No. 1, Pir Mahal. 0312-6560889, 0331-8675175	42.	Mr. Muhammad Siddique Regional Coordinator, Allama Iqbal Open University, Assistant Professor ® Chak No. 298 JB, Tehsil, Gojra. 0301-7055350
43.	Mr. Muhammad Rafiqe, Regional Coordinator, Allama Iqbal Open University, Senior Headmaster, Govt. Model High School, Mailsi. 0302-7324215	44.	Dr. Muhammad Javed Asghar, Regional Coordinator, Allama Iqbal Open University, Associate Prof. Govt. Degree College Jahanian. 0322-8870199	45.	Mr. Mumtaz-ul-Hassan, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Higher Secondary School Chak Jhumra, District Faisalabad. 0334-6645225
46.	Mr. Muhammad Javed Bashir, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Islamia High School Jaranwala, District Faisalabad. 0321-7951897	47.	Mrs. Khalida Perveen, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Girls High School No.01, Samundari, District Faisalabad.	48.	Mrs. Ruqia Kousar, Mr. Muhammad Javed Bashir, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. College for Women Tandlianwala. District Faisalabad. 0335-7769371

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
4.	Mr. Muhammad Suleman Chahwan Regional Coordinator, Allama Iqbal Open University, SPE, Office of the Assistant District Education Officer (Male) Moro, District Nausheroferoz. 0300-3229979	5.	Mr. Anwar-ud-Din Pirzada, Regional Coordinator, Allama Iqbal Open University, HST, Govt. Boys High School, Kandiario, District Nausheroferoz 0301-2127574	6.	Mr. Riaz Roshan Paul, Regional Coordinator, Allama Iqbal Open University, HST, Govt. HM Khoja High School No. 1, Nawabshah City. 0300-3227785

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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, Principal, Govt. Centennial Model High School, Turangzai, 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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19.	Mr. Zia ul Haq, Regional Coordinator, Allama Iqbal Open University, Asstt. Prof. GPGC Khar, Bajour Agency. 0307-8566671,0345-9155616				

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19.	Malik Mushtaq Ahmed, Regional Coordinator, Allama Iqbal Open University, Principal, Govt. Girls Inter College Leepa, AK. 0355-8155551	20.	Mr. Javed Iqbal, Regional Coordinator, Allama Iqbal Open University, SST, Govt. Boys Inter Colege Khurshidabad, District Haveli, AK. 0355-8137518	21.	Mr. Qaiser Sultan Kiani, Regional Coordinator, Allama Iqbal Open University, SS, Govt. Boys Higher Secondary School Harighel Distt. Bagh, AK. 0342-5929126
22.	Mr. Mahmood Ahmed, Regional Coordinator, Allama Iqbal Open University, Asstt. Prof. Govt. Boys Degree College Hajira, District Poonch, AK. 0344-5144600	23.	Mr. Muhammad Shafiq, Regional Coordinator, Allama Iqbal Open University, Headmaser, Govt. High School Abbaspur, District Poonch, AK. 0345-4453210		

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(شعبہ امتحانات سرٹیفکیٹ / ڈگری سیکشن)

فارم برائے حصول سرٹیفکیٹ / ڈگری

ارجنٹ
آرڈنری

پروگرام کا نام _____ گروپ کا نام (میٹرک، ایف اے، بی اے کے لیے) _____
نام (اردو میں) _____ ولدیت _____

نام انگریزی میں

میٹرک کی سند کے مطابق

ولدیت انگریزی میں

میٹرک کی سند کے مطابق

رول نمبر	رجسٹریشن نمبر
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مکمل پتہ: _____

فیس مبلغ _____ بذریعہ بینک چالان نمبر _____ مورخہ _____ براؤچ کا نام _____ ادا کردی گئی ہے۔

پاس شدہ مضامین کی تفصیل

نمبر شمار	کورس کوڈ	رول نمبر	سمسٹر	حاصل کردہ نمبر	نمبر شمار	کورس کوڈ	رول نمبر	سمسٹر	حاصل کردہ نمبر
-1					-16				
-2					-17				
-3					-18				
-4					-19				
-5					-20				
-6					-21				
-7					-22				
-8					-23				
-9					-24				
-10					-25				
-11					-26				
-12					-27				
-13					-28				
-14					-29				
-15					-30				

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

بیان حتمی: میں حفا عیان 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 کارڈ کی کاپیاں اور درخواست کے ساتھ منسلک کی ہیں وہ میری اپنی ہیں۔ ان میں سے کسی میں بھی کوئی ترمیم یا تبدیلی پائی گئی تو پھر پھر سے خلاف ضابطہ قانونی کارروائی کرنے کی مجاز ہوگی۔

پتہ برائے ترسیل سرٹیفکیٹ / ڈگری (طالب علم خود پُر کریں) دتتخظ طالب علم

پتہ برائے ترسیل سرٹیفکیٹ / ڈگری (طالب علم خود پُر کریں)

سرٹیفکیٹ / ڈگری نمبر	
نام (طالب علم):	
ولدیت:	
مکمل پتہ:	

سرٹیفکیٹ / ڈگری نمبر	
نام (طالب علم):	
ولدیت:	
مکمل پتہ:	

سرٹیفکیٹ / ڈپلومہ اور ڈگری کے حصول کے لیے فیس شیڈول اور ضروری دستاویزات / شرائط کی تفصیل حسب ذیل ہے۔

نمبر شمار	کورس / پروگرام کا نام	ضروری دستاویزات اور تفصیل	فیس (روپے)	ارجنٹ فیس (روپے)	ڈپلیکیٹ فیس (روپے)
1-	ابتدائی عربی / اوپن بک کورس	اوپن یونیورسٹی کے رزلٹ کارڈ کی تصدیق شدہ فوٹو کا پنی (نام اور ولدیت کا ثبوت اور اوپن بک کورس کے لیے تجربے کا سرٹیفکیٹ لف کرنا ضروری ہے)۔	300/-	600/-	1200/-
2	کورس سرٹیفکیٹ	میٹرک ایف اے بی اے ڈگری کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	100/-	200/-	400/-
3-	سینڈری سکول سرٹیفکیٹ (میٹرک) سینڈری سکول سرٹیفکیٹ (درس نظامی)	ڈپلومہ پاس اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	300/-	600/-	1200/-
4-	ہائر سینڈری سکول / ڈپلومہ ایجوکیشن	میٹرک پاس اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	300/-	600/-	1200/-
5-	اے ٹی ٹی سی سرٹیفکیٹ	میٹرک اور ایف اے بعد عربی / میٹرک فاضل عربی اور شہادۃ العالمیہ کی اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	300/-	600/-	1200/-
6-	پنی ٹی سی سرٹیفکیٹ	میٹرک پاس اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	300/-	600/-	1200/-
7-	سی ٹی سرٹیفکیٹ	میٹرک ایف اے پاس اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	300/-	600/-	1200/-
8-	بیچلرز ڈگری / پنی	میٹرک ایف اے اصل سرٹیفکیٹ کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	500/-	1000/-	2000/-
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12-	ایم ایڈ / ڈگری / پنی	میٹرک ایف اے اور بی اے (ڈگری) کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	700/-	1400/-	2800/-
13-	ایم اے ایم بی اے ایم ایس سی ڈگری / پنی	میٹرک ایف اے اور بی اے (ڈگری) کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	700/-	1400/-	2800/-
14-	پوسٹ گریجویٹ ڈپلومہ	میٹرک ایف اے پنی اے (ڈگری) کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	600/-	1200/-	2400/-
15-	ایم فل / ایم ایس سی آئمز ڈگری	میٹرک ایف اے اور ایم اے (ڈگری) کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	1000/-	2000/-	4000/-
16-	پنی ایچ ڈی ڈگری	میٹرک ایف اے اور بی اے ایم اے (ڈگری) کی اصل اسناد کی تصدیق شدہ فوٹو کا پنی اور اوپن یونیورسٹی کے پاس شدہ رزلٹ کارڈ کی فوٹو کا پنی	2000/-	4000/-	6000/-
17-	متنی (Duplicate) سرٹیفکیٹ / ڈپلومہ / ڈگری / مارک شیٹ / پرو پزل سرٹیفکیٹ	گم ہونے کی صورت میں اخباری کٹنگ، رپورٹ، تصانیف اور 20 روپے کا اسٹامپ پیپر پر حلفیہ بیان جو کہ ڈیپٹی کمشنر (نوٹری پبلک) کا تصدیق ہو۔ تمام کاغذات لف کریں۔ (میٹرک ایف اے بی اے وغیرہ کی تصدیق شدہ فوٹو کا پنی اور اخباری کٹنگ، اسٹامپ پیپر اور گمشدگی کی رپورٹ اصل لف کریں۔ بعد شہادت کارڈ کی تصدیق شدہ فوٹو کا پنی) مجوزہ فیس پروگرام کے مطابق۔	Duplicate

- 18- فیس بک چالان (نامزد برانچ) کی صورت میں قابل قبول ہوگی اور اصل بک چالان اور درخواست بعد کاغذات کے ساتھ (مجوزہ ریٹ کے مطابق) جمع کرانے۔ علامہ اقبال اوپن یونیورسٹی کے سرٹیفکیٹ / ڈگری / میٹرک (سینڈری سکول سرٹیفکیٹ) کی سند میں درج شدہ نام کے مطابق جاری کی جاتی ہے۔ اگر آپ نے دوبارہ استثنائی فیس جمع نہیں کروائی تو سرٹیفکیٹ / ڈگری فیس کے ساتھ مجوزہ فیس کے مطابق جمع کروائیں۔ اگر آپ نے ڈگری / سرٹیفکیٹ فیس داخلہ کے وقت جمع کروائی ہے تو دوبارہ فیس جمع کروائیں۔
- 19- مندرجہ بالا پروگرام کے حصول کے لیے اصل سرٹیفکیٹ / ڈگری کی تصدیق شدہ فوٹو کا پنی اور عہدہ ظاہر ہوا اور گزشتہ ایس کی تصدیق قابل قبول ہوگی) لف کرنا ضروری ہیں۔ کسی بھی بورڈ یونیورسٹی کے جاری کردہ رزلٹ کارڈ / عارضی سرٹیفکیٹ پر یونیورسٹی ہڈ ڈگری / پنی سی جاری نہیں کرے گی۔
- 20- ڈگری / سرٹیفکیٹ، پرو پزل سرٹیفکیٹ بڈ ریویژن ڈاک طالب علم کے پتے پر ارسال کیا جائے گا اور کسی طالب علم کو ڈگری / سرٹیفکیٹ دتی نہیں دیا جائے گا۔
- 21- بی کام، بی اے، بی بی اے، ایف اے، ایف اے (ڈگری) کے طلباء طالبات اصل اسناد سرٹیفکیٹ ساتھ منسلک کریں۔ بصورت دیگر سرٹیفکیٹ / P.C. جاری نہیں کیا جائے گا جبکہ ایم اے اس کیونٹینیشن کے طلباء اپنی انٹرنیٹ رپورٹ متعلقہ ڈیپارٹمنٹ میں جمع کروائیں۔ Viva-Voce میں شمولیت سے پہلے مطلوبہ کورس ورک مکمل ہونا اور بعد تعلیمی اسناد متعلقہ اسٹنٹ / ڈپٹی کنٹرولر سے تصدیق کروانا ضروری ہے۔ Viva-Voce پاس کرنے کی تاریخ کا اندراج ضرور کریں۔
- 22- طلباء و طالبات مکمل کوائف کے ساتھ درخواست جمع کروانے کی صورت میں یونیورسٹی پالیسی کے مطابق مارک شیٹ جاری ہونے کے بعد اصل ڈگری / سرٹیفکیٹ / ڈپلومہ دو سال کی مدت کے دوران یا سیریل نمبر آئے پر جاری کی جاتی ہے۔ دو سال کا دورانیہ مکمل کاغذات / درخواست جمع کرانے کی تاریخ سے شمار کیا جائے گا۔ اگر کوئی طالب علم از وقت (ارجنٹ) ڈگری / سرٹیفکیٹ / ڈپلومہ لینا چاہے تو مجوزہ ہال فیس کے مطابق ارجنٹ فیس جمع تمام مطلوبہ کاغذات لازمی جمع کروانے ہوں گے۔
- 23- نام کی درجگی یا کسی قسم کی سرٹیفکیٹ / ڈگری کی تصدیق کے لیے مکمل کوائف بعد درخواست کے ساتھ اصل فیس کی دوگنی فیس ادا کرنا ہوگی۔

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