

Spring 2019

**AIOU**

# Prospectus

**MS**  
**MPhil**  
**PhD**



Allama Iqbal Open University, Islamabad

[www.aiou.edu.pk](http://www.aiou.edu.pk)

Help Line: (051) 111-112-468

# **PROSPECTUS**

## **MS / MPhil / PhD Programmes**

**SEMESTER: SPRING 2019**



**Allama Iqbal Open University, Islamabad**

*Price: Rs.500/-*

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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, allied material with 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 comprises 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 MCom, MBA (IT), MBA (Banking and Finance), BS (CS), etc. are being provided instruction, guidance and counselling through face-to-face education. AIOU is offering four year under graduate degrees.

Apart from curricular and extra-curricular activities during the academic year, the AIOU and its regional centres actively participate in the co-curricular activities by arranging educational and literary seminars, workshops and conferences, attended not only by the students and faculties of the university but also by the renowned dignitaries and scholars. For the 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's hostel and the Central Library where computers have been provided to enable students to access latest information available through open source databases.

## FACULTY OF SCIENCES

Faculty of Sciences forms an important and integral part of the university. Since its establishment in 1982 with five teaching departments, it has undergone major development changes. It now comprises nine teaching and research departments which are offering courses at the undergraduate and postgraduate levels to more than ten 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 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 students’ needs is vital. Faculty members also engage in teaching and research 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, Mathematics and Statistics and Physics. Rules and regulations

governing the postgraduate study programmes are those approved by the Higher Education Commission (HEC).

For MS and MPhil degree, 24 credit hours of course work and a minimum of one year of research work in a specialized area of the disciplines is required. A candidate for the PhD degree has to take additional 18 credit hours of specialized courses in the field of research. The dissertation will comprise original research on a topic in the discipline and shall be evaluated by three foreign referees who are expert in the field. At least one publication in international journal is also necessary before the degree is awarded.

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 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.

## **PhD Statistics**

### **a) Introduction:**

To meet the challenging requirements of today's fast growing world, we are in desperate need of experts in the field of Statistics. By realizing the shortage of experts in Statistics, the Department of Statistics has planned to offer PhD in Statistics. The expert statisticians are not only needed in the area of education, but also in industry and research. The curriculum of the programme is designed in such a way that both the course work and the research components are covered thoroughly.

### **b) Objectives:**

The main objectives of PhD Statistics programme are:

1. To enhance the qualification of those who could not continue their education after MPhil Statistics.
2. To provide opportunity for in-service persons to improve their qualification and get promotion in their respective departments.
3. To prepare quality teachers/researchers of Statistics at all levels or in equivalent positions in industry or government.

### **c) Eligibility:**

The candidates must have MS/MPhil Statistics with minimum 3.0 CGPA (in semester system) or First Div. (in annual system). Departmental Admission Committee will finalize the admissions after conducting the test and interview as per AIOU rules.

### **d) Duration:**

The minimum duration of PhD Statistics programme is 3 years (6 semesters). Student has to complete 30 credit hours for the award of PhD Degree.

### **e) Scheme of Studies:**

#### **1<sup>st</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
4769	Advanced Topics in Regression and Econometrics	3(3+0)
-	Elective-I	3(3+0)
-	Elective-II	3(3+0)

#### **2<sup>nd</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
4770	Advanced Topics in Statistical Inference	3(3+0)
-	Elective-III	3(3+0)
-	Elective-IV	3(3+0)

#### **3<sup>rd</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Cr. Hours</b>
4768	Research Thesis	12(12+0)

#### **4<sup>th</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Cr. Hours</b>
4768	Research Thesis	12(12+0)

#### **5<sup>th</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Cr. Hours</b>
4768	Research Thesis	12(12+0)

#### **6<sup>th</sup> Semester**

<b>Code</b>	<b>Title</b>	<b>Cr. Hours</b>
4768	Research Thesis	12(12+0)

**Elective Courses:**

Following is the list of elective courses for PhD Statistics:

Sr. No.	Course Title	Course Code	Credit Hours
1	Survival Analysis	4761	3(3+0)
2	Bayesian Inferential Statistics	4762	3(3+0)
3	Stochastic Processes	4763	3(3+0)
4	Measure Theory	4765	3(3+0)
5	Response Surface Design	4766	3(3+0)
6	Recent Developments in Statistics	4767	3(3+0)
7	Actuarial Statistics	9751	3(3+0)
8	Statistical Theory for Extreme Events	9752	3(3+0)
9	Mixture Distributions	9753	3(3+0)
10	Applied Time Series Econometrics	9754	3(3+0)
11	Spatial Data Analysis	9755	3(3+0)
12	Generalized Logistic Regression	9756	3(3+0)
13	Repeated Measure Analysis	9757	3(3+0)
14	Multilevel Modeling	9758	3(3+0)
15	Mathematical Demography	9759	3(3+0)

The Department of Statistics will offer elective courses from the above list depending upon the availability of faculty.

**f) Fee Tariff:**

Tuition Fee:	Rs.6460/- (3 Cr.Hrs)	Rs.19380/- (9 Cr. Hrs)
Registration fee: (At first admission)	Rs.2400/-	Rs.2400/-
Technology fee: (per semester)	Rs.150/-	Rs.150/-
Admission fee: (At first admission)	Rs. 2500/-	Rs. 2500/-
Security Fee:	Rs.2000/-	Rs.2000/-
<b>First Semester Fee</b>		<b>Rs.26430/-</b>

**g) Instructional Methodology:****Study Material:**

A book in hard or soft copy for each course will be provided to the students by the university. A list of recommended books will also be given for further reading.

**Face to Face teaching (Tutorials):**

For each course, 45 hours face to face teaching support will be provided through workshops/weekend classes. The final schedule of the lectures will be distributed to the students in consultation with the teachers (resource persons). The classes will be supplemented by the computers where required. 70% attendance in face to face teaching would be compulsory.

**Continuous Assessment:**

- Two home-assignments for each course will be given to the students.
- Two sessional exams/presentations for each course will be conducted and 70% marks in sessional exams/presentations is mandatory to appear/qualify for final examination.
- 30% weightage will be given to the assignments/sessional tests/presentations.
- A student who fails in continuous assessment component is not eligible appear in final exam but will be allowed to re-register for the same course at the next offering by the university, if eligible.

**Final Examination:**

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

**Passing Marks:**

Assignments/Sessionals	70%
Final Examination	70%
Aggregate	70%

***Comprehensive Examination:***

The students completing the PhD course work shall be allowed to appear in Comprehensive Examination arranged and conducted by the Department as per rules of the Higher Education Commission (HEC). Only those candidates who pass the comprehensive examination will be allowed to continue with their PhD research work and attend the two week synopsis workshop after depositing the required fee.

***Thesis:***

The student will be required to submit a research proposal (synopsis) to the department during the Synopsis Orientation Workshop. One month before the specified date for final submission of thesis for external evaluation, the student has to present his/her research work to the departmental committee.

***Viva Voce:***

After approval of the thesis by the external examiners, the student has to appear before a viva-voce committee to defend his/her thesis.

**Note: Please send your admission form complete in all respect on the following address:**

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

**For further clarification/guidance, please feel free to contact on the following address.**

**FACULTY MEMBERS:**

1. **Prof. Dr. Irshad Ahmad Arshad**  
Chairman  
Ph: 051-9057163, 9250062  
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2. **Dr. Muhammad Zakria**  
Associate Professor  
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3. **Dr. Zahid Iqbal**  
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5. **Dr. Yameen Danish**  
Lecturer  
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Email: yameen.danish@aiou.edu.pk
6. **Mr. Muhammad Mushtaq**  
Research Associate  
Ph: 051-9057287  
Email: muhammad.mushtaq@aiou.edu.pk
7. **Staff Phone:**  
Ph: 051-9057266

## DEPARTMENT OF PHYSICS

### **Introduction:**

Realizing the need of technology and scientific education in Pakistan Department of Physics at AIOU began in 1998 with technological needs in areas like Energy, Energy Efficiency, Climate, Energy for Sustainable Development, Renewable energy, Hydrogen Energy, Environment, astronomy, nanotechnology, materials science, Plasma, 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 to 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.

**MPhil Physics Programme:**

**1. Duration of the Programme**

Degree	Current Duration	HEC Revised Duration	Revised Credit Hours	Division of Revised Credit Hrs
MS/ MPhil	2 to 5 years	1.5 to 4 years	30 CH Minimum	Course: 24 CH Thesis: 06 CH

After submitting the synopsis in the department, waiting period spent for approval of synopsis by the RPC and time consumed in thesis evaluation shall not be counted towards maximum period of MPhil Program.

The language of instruction, examination and thesis for all disciplines will be according to the approved scheme of studies of each department

**2. i) Eligibility and Admission Criteria (For MSc or Equivalent Students):**

Candidates holding MSc / equivalent Physics degree with at least second division are eligible to apply for admission. The admission will be made strictly on merit. Qualifying the

**Departmental Test & Interviews** is mandatory for admission. A research Superior's letter is mandatory.

**ii) Eligibility and Admission Criteria (For Engineering Students):**

Candidates holding BS/BE Electronic Engineering/Mechanical Engineering/Electrical Engineering/equivalent with at least second division are eligible to apply for admission in zero semester. The admission will be made strictly on merit. Qualifying the **Departmental Test & Interviews** is mandatory for admission.

**3. Scheme of Studies (for MSc or Equivalent Students):**

***Semester-wise Course Offering:***

Course work during 1 <sup>st</sup> year or 1 <sup>st</sup> & 2 <sup>nd</sup> Semester	24 Credit Hours
Thesis / Project / Dissertation during Second year or 3 <sup>rd</sup> & 4 <sup>th</sup> semester	06 Credit Hours
Total credit hours required for completion	30 Credit Hours

**Semester I (Core Courses)**

S.#.	Title	Course Code	Credit Hours
1	Mathematical Physics	1701	3+0
2	Solid State Physics	1722	3+0
3	Electrodynamics	1703	3+0
4	Research Methodology	7791	3+0

**Semester 2 (Optional Courses)**

(Four courses will be offered depending on the needs and availability of the experts)

1	Computational Physics	1704	3+0
2	Laser Physics	1710	3+0
3	Quantum Optics	1711	3+0

4	Plasma Physics	1712	3+0
5	Nuclear Physics	1716	3+0
6	Experimental Techniques	1718	3+0
7	Semiconductor Physics	1720	3+0
8	Advanced Quantum Mechanics	1702	3+0
9	Quantum Field Theory	1721	3+0
10	Non-Crystalline Materials	1729	3+0
11	Renewable Energy resources	1730	3+0
12	Physics of Solar Cells	1727	3+0
13	Physics of Metals & Alloy	1728	3+0
14	Crystallography	1724	3+0
15	Physics of Glasses	1726	3+0
16	Atomic & Molecular Physics	1705	3+0
17	Environmental Physics	7792	3+0
18	Antenna Theory	7793	3+0
19	E.M. Field Analysis	7794	3+0
20	Microelectronics	7795	3+0
21	High Frequency Electrodynamics	7796	3+0
22	Quantum Information Theory	7797	3+0
23	Electron Microscopy	7798	3+0

#### Semester 3 (Research)

1	Thesis	1725	3+0
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#### Semester 4 (Research)

1	Thesis	1725	3+0
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#### 4. Scheme of Studies (For Engineering Students):

##### **Zero Semester For Admission in MPhil Physics Programme**

The department has developed a special offering of Zero Semester for getting admission in MPhil Physics programme for the students of Engineering (*BS Electronic Engineering / Mechanical Engineering /Electrical Engineering*).

The purpose of this semester will be to accommodate those students with engineering background, who are not eligible to get admission in MPhil Physics. After qualifying the zero semester (completing deficiency courses), these students will be eligible for admission in MPhil Physics and capable to comprehend MPhil Physics level courses at AIOU. The pass students will be admitted in MPhil Physics programme

There would be three theory courses ( 03 credit hours) and two laboratory course (03 credit hours) in the Zero Semester .After qualifying the zero semester, a separate certificate of pass courses will be issued to the students with the signature of controller examination.

**The Zero Semester courses along with course codes & fee are as under:**

##### Course offering:

Sr. #	Course Title	Course Code	Fee (Rs.)	Credit Hours
1.	Mathematics for Engineering Students	7721	5640/-	3+0
2.	Physics- I for Engineering Students	7722	5640/-	3+0
3.	Physics-II for Engineering Students	7723	5640/-	3+0
4.	Laboratory for General Physics	7724	5640/-	3+0
5.	Laboratory for Advanced Electronics	7725	5640/-	3+0
6.	Technology Fee + Courier Charges		135/-	
7.	Admission Fee		1000/-	
8.	Registration Fee		200/-	
		<b>Total Fee</b>	<b>29535/-</b>	

**i) Final Examination/ Continuous Assessment:**

At the end of zero semester, the University will arrange final three hours written examination in each course. It is imperative to obtain 50% marks in the final examination to pass in each course. The roll number slips and other relevant information related to examination centre will be provided to the students before the examination.

**Assessment:**

The distribution of continuous assessment and final examination will be as follows:

Assignments Weightage (Quiz/ Sessional Test/Presentations/ Assignments)	20%
Attendance	10%
Final Examination	70%
Aggregate	50%

**Semester-wise Course Offering (for Engineering Students):**

Course work during 1 <sup>st</sup> year or 1 <sup>st</sup> & 2 <sup>nd</sup> Semester	24 Credit Hours
Thesis / Project / Dissertation during second year or 3 <sup>rd</sup> & 4 <sup>th</sup> semester	06 Credit Hours
Total credit hours required for completion	30 Credit Hours

**Semester I (Core Courses)**

S.#.	Title	Course Code	Credit Hours
1	Mathematical Physics	1701	3+0
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**Semester 2 (Optional Courses)**

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17	Environmental Physics	7792	3+0
18	Antenna Theory	7793	3+0
19	E.M. Field Analysis	7794	3+0
20	Microelectronics	7795	3+0
21	High Frequency Electrodynamics	7796	3+0
22	Quantum Information Theory	7797	3+0
23	Electron Microscopy	7798	3+0

<b>3<sup>rd</sup> Semester</b>	(Research) Thesis	1725	3+0
<b>4<sup>th</sup> Semester</b>	(Research) Thesis	1725	3+0

### **5. Method of Instruction:**

Allama Iqbal Open University employs media mix as methodology of instruction in which printed material, CDs and face-to-face tutorial support are mixed in accordance with the requirement of the discipline and the level of the course. Medium of instruction for this programme is English. 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 or CDs.

#### **ii) Assignments**

##### **(Quiz/Sessional Test/Presentations/Assignments)**

Assignments/Quiz/Sessional Test/Presentation for each 03 credit hours course will be given. Students will complete the tasks within the semester. The marks obtained in these assignments contribute to the final course result. For successful completion of the course it is imperative to obtain a minimum of 50% marks in each assignment. Students failing in the continuous assessment will not be eligible to appear in the final examination.

#### **iii) Classes**

A 03 credit hours course for each subject will be taught in Campus within a period of 18-classes, in 03 breakup during each semester. Attendance in these sessions is compulsory. Students failing to attain 70% attendance will not be eligible to appear in the final examination. AIOU will not bear any cost regarding TA/DA or boarding/ lodging facilities during these classes.

#### **iv) Thesis (Research Work)**

MPhil student will be required to perform research work for one year at any relevant scientific institution located near to the residence or place of appointment under the supervision of a scientist of the concerned institution. The selection of the project and the supervisor will be at the discretion of AIOU and the institution where research is being carried out. Each student will submit quarterly report duly signed by the thesis supervisor on the research work performed to the coordinator. The student of MPhil Physics Program will submit one research paper (accepted or published) in any conference or research journal and deliver at least one seminar during his research work in the presence of external examiner, as mandatory to their completion of their research degree.

#### **v) Final Examination/ Continuous Assessment**

At the end of each semester, the University will arrange final three hours written examination in each course for the M. Phil program. It is imperative to obtain 50% marks in the final examination to pass in each course. The roll number slips and other relevant information related to examination centre will be provided to the students before the examination.

The distribution of continuous assessment and final examination will be as follows:

##### **Assessment:**

The distribution of continuous assessment and final examination will be as follows:

Assignments Weightage (Quiz/Sessional Test/Presentations/ Assignments)	20%
Attendance	10%
Final Examination	70%
Aggregate	50%

**vi) Approval of Thesis**

On completion of research work, the student will have to submit thesis to the Department for evaluation and defense as per format of the University. Minimum period for completion the thesis after successful completion of course work will be two semesters (one year) for MPhil Program. For experimental research work, the period to be spent for conducting experiments in the laboratory will be decided by the supervisor.

**6. Grading:**

The Grade for MPhil Physics will be determined as follows:

Grade-A	80% or above
Grade-B	65% to 79%
Grade-C	50%to 64%
Fail	Below 50%

**7. Fee Tariff: 1<sup>st</sup> semester**

Per 3 credit hour course fee: @ Rs.5640/-

(Four 03 credit hours courses)

(Inclusive of books & students activity funds) Rs.22560/-

Registration fee: (at the time of first admission) Rs.200/-

Admission Fee: (at the time of first enrolment) Rs.1000/-

Technology Fee + Courier Charges: Rs.135/-

**Total fee: Rs.23895/-**

**8. How to Pay the Fee:**

The admission in this programme is purely on merit basis. No fee is to be paid unless intimated by the university. The fee is to be deposited through Challan Form (only) in the specified branches of Banks in Main campus of AIOU Islamabad, on the day of admission. The candidate will write his name (in block letters) full address and MPhil Physics Programme and semester on the Challan Form attached. Please keep a photocopy of the from & the fee slip for record .

**9. Traveling & Boarding/Lodging Expenses:**

The AIOU does not have lodging and boarding facilities at the moment except at main campus Islamabad. If required, students will have to arrange lodging and transport by themselves. AIOU will not bear any cost in this regard. The fee does not include charges for boarding lodging and transport. Hence the University does not have any liability in this regard.

**10. Hostel Facilities:**

The student coming from other cities can avail the hostel facility on reasonable rates (other than fee)

**11. Financial Assistance:**

Limited financial assistance is available to deserving students who shall apply on the prescribed AIOU forms supported with justifiable documentary proofs available after admission during the 1<sup>st</sup> semester. Financial assistance will be considered from the 2<sup>nd</sup> semester

For any kind of assistance, kindly contact on the following:

**Prof. Dr. Syed Zafar Ilyas,**  
Chairman, Department of Physics,  
Science Block, 1<sup>st</sup> Floor, AIOU, H-8, Islamabad.  
Email: szilyas@aiou.edu.pk

**Complete Admission forms in all respect may be sent on the following address.**

**Department of Physics,**  
Science Block, 1<sup>st</sup> Floor,  
Allama Iqbal Open University,  
Sector - H-8, Islamabad.

## PhD Physics Programme

### 1. Duration of the Programme

Degree	Current Duration	HEC Revised Duration	Revised Credit Hours	Division of Revised Credit Hrs
PhD	3 to 5 years	3 to 5 years with maximum time period up to 08 year with all extension in hardship case	54 CH Minimum	Course: 18 CH Thesis: 06 CH

### 2. Admissions Prerequisites:

This is for the information of all concerned, that the degrees awarded by the universities/Degree Awarding Institutions must meet the following minimum criteria for the recognition by HEC.

- For admission into PhD, minimum **CGPA 3.0** (out of 4.0 in the semester system) or 70 % marks in total or **First Division** (in the annual system) in MPhil Physics/ MS/ Equivalent degree is required.
- Admission will be made as per HEC criteria.
- All rules of BASR/AIOU/HEC regarding PhD will be applied.
- Qualifying **Departmental Test** and **Interview** is mandatory for PhD Admission.
- Two reference letters, consent letter of supervisor and research proposal** is mandatory for admission.

### 3. Scheme of studies:

3 compulsory courses (each of 3 credit hours) will be offered in the 1<sup>st</sup> semester and the remaining 3 optional courses will be opted by the students in the 2<sup>nd</sup> semester from the list given below. Each course is of 03 credit hours. Any of the following optional courses of 03-credit hours will be offered according to the availability of qualified teachers and research facilities.

### Approved Course offering:

Course work during first year or 1 <sup>st</sup> & 2 <sup>nd</sup> Semester	18 Credit Hours
Thesis/ Project / Dissertation during second year or 3 <sup>rd</sup> , 4 <sup>th</sup> 5 <sup>th</sup> & 6 <sup>th</sup> semester	36 Credit Hours
<b>Total credit hours required for completion</b>	<b>54 Credit Hours</b>

### *Semester 1 (Compulsory)*

S.#	Title	Code	Cr.Hrs
1	Advanced Mathematical Physics	9701	03
2	Experimental Techniques in Physics	9702	03
3	Renewable Energy Resources	9706	03

### *Semester 2 (Optional)*

(Courses will be offered depending on the needs and availability of the experts, out of which the student will opt only three)

1	Advanced Semiconductor Physics	9703	03
2	Statistical Physics	9704	03
3	Environmental Physics	9705	03
4	Hydrogen Energy Technology	9707	03
5	Energy Audit and Thermal Energy Conservation	9708	03
6	Energy Resources and Technologies	9709	03
7	Research Methods & Techniques	9710	03
8	Magnetism & Magnetic Materials	9711	03
9	Particle Physics	9712	03
10	Medical Physics	9713	03
11	Material Science	9714	03
12	Nano Science & Nanotechnology	9715	03

<b>3<sup>rd</sup> Semester</b>	(Research) Thesis	9700	9+0
<b>4<sup>th</sup> Semester</b>	(Research) Thesis	9700	9+0
<b>5<sup>th</sup> Semester</b>	(Research) Thesis	9700	9+0
<b>6<sup>th</sup> Semester</b>	(Research) Thesis	9700	9+0

#### 4. **Method of Instruction:**

Allama Iqbal Open University employs media mix as methodology of instruction in which printed material, CDs and face-to-face tutorial support are mixed in accordance with the requirement of the discipline and the level of the course. Medium of instruction for this programme is English. 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 or CDs.

##### ii) **Assignments (Quiz/Sessional Test/Presentations/ Assignments)**

Assignments / Quiz / Presentation for each 03 credit hrs course will be given. Students will complete the tasks within the semester. The marks obtained in these assignments contribute to the final course result. For successful completion of the course it is imperative to obtain a minimum of 50% marks in each assignment. Students failing in the continuous assessment will not be eligible to appear in the final examination.

##### iii) **Tutorial Support**

Tutorial support will be provided in the form of lectures by resource persons at the Campus. A minimum of 45 hours of face-to-face teaching/guidance for each 03 credit hour course (AIOU Description), will be provided in these tutorials. Attendance in these sessions is compulsory. Students failing to attain 70% attendance will not be

eligible to appear in the final examination. AIOU will not bear any cost regarding TA/DA or boarding/ lodging facilities during these classes.

##### v) **Final Examination/ Continuous Assessment**

At the end of each semester, the University will arrange final three hours written examination in each course for the PhD program. It is imperative to obtain 50% marks in the final examination to pass in each course. The roll number slips and other relevant information related to examination centre will be provided to the students before the examination.

The distribution of continuous assessment and final examination will be as follows:

##### **Assessment:**

The distribution of continuous assessment and final examination will be as follows:

Assignments Weightage (Quiz/ Sessional Test/Presentations/ Assignments)	20%
Attendance	10%
Final Examination	70%
Aggregate	50%

##### vii) **Course Work:**

Tutorial support will be provided in the form of lectures by resource persons at the campus. A minimum of 45 hours of face-to-face teaching for each three credit hours will be provided in these lectures. Attendance in these sessions is compulsory.

##### viii) **Thesis (Research Work)**

PhD students will carry out research work for two years at any relevant scientific institution located near to the residence or place of appointment under the supervision of a scientist of the concerned institution. The selection of the project and the supervisor will be at the discretion of AIOU and the institution where research is being carried out. Each student will submit quarterly report duly signed by the thesis supervisor on the research work performed to the coordinator.

**ix) Comprehensive Examination:**

The students completing the PhD course work shall be allowed to appear in the comprehensive examination arranged and conducted by the concerned department as per rules of HEC. The pass percentage in comprehensive examination shall be 50%. No grade will be awarded to the student, only pass or fail will be reflected in the result Performa.

**x) Synopsis Orientation Workshop:**

Duration of synopsis orientation workshop shall be of two weeks. Synopsis of only those students will be presented in research proposal committee meeting for final approvals who have attended the synopsis orientation workshop.

**xi) Research Paper during Research Period:**

The student of PhD Physics Program will present at least two presentations in Seminars during his research work in the presence of external examiner, as mandatory to their completion of their research degree.

**xii) Approval of Thesis:**

On completion of research work, the student will have to submit thesis to the Department for evaluation and defense as per format of the University. Minimum period for completion the thesis after successful completion of course work will be two semesters (one year) for PhD Physics Program. For experimental research work, the period to be spent for conducting experiments in the laboratory will be decided by the supervisor.

**5. Grading:**

The Grade for PhD Physics will be determined as follows:

Grade-A	80% or above
Grade-B	65% to 79%
Grade-C	50%to 64%
Fail	Below 50%

**6. Fee Tariff:**

<b>Admission fee:</b> (Once at the time of admission)	<b>Rs.2500/-</b>
<b>Registration fee:</b> (Once at the time of admission)	<b>Rs. 2400/-</b>
<b>Course fee:</b> (for each 3 credit hrs course) Rs.1880/- per 3 Credit Hours	<b>Rs.5640/-</b>
<b>Thesis fee:</b> @ 1880/- per credit hrs (36 credit hrs)	<b>Rs. 67680/-</b>
<b>Thesis Evaluation fee:</b>	<b>Rs.22490/-</b>
<b>Technology fee:</b> (Per student per semester)	<b>Rs. 135/-</b>

**7. How To Pay The Fee:**

The admission in this programme is purely on merit basis. No fee is to be paid unless intimated by the university. The fee is to be deposited through Challan Form (only) in the specified branches of Banks in Main campus of AIOU Islamabad, on the day of admission. The candidate will write his name (in block letters) full address and MPhil Physics Programme and semester on the Challan Form attached. Please keep a photocopy of the from & the fee slip for record.

**8. Traveling & Boarding/Lodging Expenses :**

The AIOU does not have lodging and boarding facilities at the moment except at main campus Islamabad. Hostel facility is available in the main campus .If required, students will have to arrange lodging and transport by themselves. AIOU will not bear any cost in this regard. The fee does not include charges for boarding lodging and transport. Hence the University does not have any liability in this regard.

**9. Financial Assistance:**

Limited financial assistance is available to deserving students who shall apply on the prescribed AIOU forms supported with justifiable documentary proofs available after admission during the 1<sup>st</sup> semester. Financial assistance will be considered from the 2<sup>nd</sup> semester

**10. Information Regarding Admission/General Instructions:**

1. Announcement for admission will be made in the leading newspaper of the country.
2. The prospectus including admission form can be obtained from the regional offices or admission department of AIOU. The candidates are required to send complete admission forms along with the attested copies of all educational certificates at the following address, before closing date mentioned in the advertisement.

***Prof. Dr. Syed Zafar Ilyas,***

Chairman / Coordinator,  
Department of Physics, Science Block,  
AIOU, H-8, Islamabad.  
Email: [szilyas@aiou.edu.pk](mailto:szilyas@aiou.edu.pk)

3. Only the prescribed printed admission forms will be entertained. Photocopy of the forms will not be accepted. Incomplete forms will not be entertained in any case.
4. Admission in PhD Physics will be granted against limited seats strictly on the basis of merit and as per criteria laid down by the department. The University reserves its right not to start this Program if a viable group of students is not formed.

**11. Faculty Members**

1. **Prof. Dr. Syed Zafar Ilyas**  
Chairman  
Department of Physics  
Phone # 051-9057728

2. **Mr. Ather Hassan**  
Assistant Professor  
Phone # 051-9057728
3. **Dr. Tariq Jan**  
Assistant Professor  
Phone # 051-9057728
4. **Ms. Surayya Mukhtar**  
Assistant Professor  
Phone # 051-9057728
5. **Ms. Hareem Mufti**  
Lecturer  
Phone # 051-9057728
6. **Ms. Uzma Nosheen**  
Lecturer  
Phone # 051-9057728
7. **Ms. Tayaba Aftab**  
Lecturer  
Phone # 051-9057728
8. **Mr. Hussain Ahmed**  
Research Associate  
Phone # 051-9057728
9. **Mr. M. Imran**  
Laboratory Assistant  
Phone # 051-9057728
10. **Ms. Zeba Sultana**  
Staff Member  
Phone # 051-9057728
11. **Mr. Amjad Satti**  
Laboratory Assistant  
Phone # 051-9057728
12. **Mr. M. Amman**  
Laboratory Assistant

## DEPARTMENT OF ENVIRONMENTAL DESIGN, HEALTH & NUTRITIONAL SCIENCES

### **Introduction**

Pakistan is a developing country and it is need of the hour to improve standard of education in all the disciplines especially in Science, and Technology in order to face the challenges of the 21<sup>st</sup> century. The Department was established in 1981. During last 35 years the Department has developed a range of professional programmes in Environmental Design Health, Nutrition, and Home Economics. The teaching/research laboratories for the Environmental Design and Food and Nutrition programmes are now operational to provide a comprehensive environment for imparting practical training at the main campus.

### **Aims and Objectives:**

- i. To prepare learners for the career related disciplines considering the professional interests of individuals in the areas of Environmental Design, Health, Home Economics, Nutrition, and Dietetics etc.
- ii. To prepare the individuals/professionals for the development and up gradation of community & environment.
- iii. To enable the individual to integrate and apply knowledge and skills of Environmental Design. Food and Nutrition & Home Economics, for future studies.

### **Currently the department is offering following programmes:**

- i. MS Environmental Design (for Built Environment Professionals)
- ii. MSc Sustainable Environmental Design
- iii. PGD Environmental Design (**for continuing students**)
- iv. MPhil Food & Nutrition and PhD Food & Nutrition (**for continuing students**)
- v. MS Community Health & Nutrition

- vi. MSc Public Nutrition
- vii. PGD Dietetics/Nutrition (**for continuing students**)
- viii. HSSC Clusters in Home Economics
- ix. SSC Cluster in Health/Home Economics
- x. Functional Courses (First Aid, Garment Making, Health & Sanitation)

### **MS Environmental Design**

**(Minimum 2 years and maximum 5 years)**

#### **a) Introduction:**

The word environment has become a popular catchphrase in the global and national context. In Urban Design and Architecture, the environmental revolution manifests itself as sustainable design and planning. This programme aims to take a holistic view of 'environment' examining both the physical and psychological aspects. It takes an interdisciplinary approach, fusing technical and scientific knowledge with philosophical and ethical issues. It is only through the sensitive consideration of the design of our cities and landscapes that we will create places that respond to both the spiritual/psychological and health/physical needs of all sectors of humanity. Optimum environmental design can generate economic development and embrace the best of technological innovation while recognizing and respecting the importance of cultural heritage and the obligation to address the ecological agenda.

The built environment is of major economic and social importance. Construction alone is one of the largest discrete industries in Pakistan and a major provider of employment. The built environment makes a vital contribution to the quality of life of all members of society. This programme offers research based value added degree to upgrade professional practice of engineers, planners and designers and to provide better job prospects home and abroad.

**Note: Pakistan Engineering Council has endorsed the MSc /MS degree of Environmental Design as value added professional qualification for Engineers, which may be considered for CPD credit points for PEC registered engineers.**

**b) Objectives:**

The new emerging concept of environmental design (in developing/under developed countries) concentrates on promoting:

- Balance between built environment and ecosystem (soil, air, and water).
- Environmental up gradation in housing, health care and building infrastructure
- Conservation of resources (building materials, energy supply, etc.).
- Specification of environment friendly building materials and products to minimize the health hazards.
- Optimum use of natural and sustainable materials.
- Harmony between building design and user needs. (Including activity based behavioural needs).

**Salient features:**

Development of this programme is facilitated by British Council under the DFID Higher Education Link Scheme. Experts from a foreign university (Roland Ashcroft, Prof. Jeanette Paul, University of Dundee) and local Engineering/Architecture Universities/Colleges (UET, Lahore, NED University, UET Taxila, MUET, Jamshoro, NCA, Lahore) have participated in curriculum designing. Research based degree is offered to address local issues and to evolve local theories.

**c) Eligibility:**

General admission criteria for MS Programme will be as per HEC requirement.

Sixteen years of education with at least 2nd class in following disciplines:

- BE Civil, Electrical & Mechanical Engineering, Urban Engineering (Transport, Industrial etc.)
- BE/BS Environmental Engineering,
- B Arch, B Architecture
- BE/BDes Town Planning /Interior design
- MSc/BS Home Economics (Housing, Interior & Environmental Design)
- MSc Sustainable Environmental Design
- BTech (Honour) Civil, Architecture

**d) Applying for Admission Fresh Candidates:**

University offers admission twice a year i.e. Autumn and Spring, but admission to new students of this discipline is advertised only once a year i.e. in Spring Semester.

- i. A student will be generally allowed to register for a maximum of 18 credit hour courses to be offered in each semester. (See semester wise course offering for MS Environmental Design.
- ii. Students will have to submit their admission form either online or through registered post to the parent department at the given address.
- iii. Admission forms prescribed for the programme are entertained only.
- iv. Incomplete admission forms will not be entertained in any case. Selection of candidates in the programme will be made strictly on basis of merit against a limited number of seats.
- v. Candidates are required to send complete admission forms along with attested copies of all academic certificates, testimonials at the following address before closing date mentioned in the advertisement.

**Prof. Dr. Nomana Anjum**  
**Chairperson/Programme Coordinator**  
**Department of ED, H&N Sciences**  
**Block-6, AIOU, Sector H-8, Islamabad**

- vi. Only those candidates who qualify admission criteria will be informed about their selection.
- vii. On receipt of admission offer a candidate is allowed to pay dues (as detailed in fee section) within due date as per procedure mentioned in the intimation letter.
- viii. The study material inclusive of textbooks, assignments, tutorial schedule and reference material is mailed to the students.
- ix. For clarification about academic matters, please contact on the above-mentioned address.

**For Continuing Students of Environmental Design**

The admission for the semester Spring and Autumn are offered in the months of February and August respectively. The continuing students are sent computerized admission forms. However, if for any reason a student does not receive the computerized form, he/she may continue the Programme by submitting fresh admission form. Continue admission form can also be downloaded from university's website ([www.aiou.edu.pk](http://www.aiou.edu.pk)). The rest of the prevalent terms and conditions are applicable to all fresh and continuing students.

**e) Scheme of Studies & Course Contents:**

**Duration:** Minimum 4 Semesters (2 year)  
**Credit Hours Requirement:** 36 Credit Hours  
**Course Work:** 24 Credit Hours  
**Research / Thesis:** 12 Credit Hours

After the completion of course work, the students will be allowed to undertake research work. Minimum duration for submission of thesis is two Semester (one year).

**f) Offering:**

Proposed scheme of study for MS Environmental Design (Duration Two Years)

**Semester I**

Code	Title of course	Cr.Hrs
7591	Principles & Theories of Environmental Design	3(2+1)
7592	Environmental Psychology	3(2+1)
7784	Sustainable Practices and Ecological Building Materials	3(2+1)
7773	Research Methods	3(2+1)

**Semester II**

7771	Ecological Design: Cities, Transport and Landscape	3(2+1)
7593	Environmental Impact Assessment	3(2+1)
7772	Statistics in Environmental Health	3(2+1)
	Elective –I	3(2+1)

**Semester III & IV**

7790	Research Thesis	12
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**List of Approved elective courses for MS (Environmental Design):**

(Department can replace any of the above courses with following courses depending upon the facilities and expertise available at that time and student can choose any course from given list of approved courses:

7775	Environmental Issues in Workplace Design	3(2+1)
7776	Health Care Design	3(2+1)
7777	Environmental Consideration in House and Housing Design	3(2+1)
7778	Design for Children	3(2+1)
7785	Energy and Built Environment	3(2+1)

Candidate will select elective courses equivalent to total of 24 credit hours in semester I and II. Research work will be of 12 credit hours and will be completed in Semester III and IV.

**Note: Student failing to opt any course in any particular semester amongst the courses offered in that semester will have to wait for at least one semester in order to get admission in that particular course since all the courses are being offered on alternate basis.**

**g) Instructional Methodology:**

Allama Iqbal Open University employs media mix or blended mode of learning as methodology of instruction in which study material in the form of practical books/notes/study manuals is supported with non-broadcast audio-visual programmes and face to face lecture sessions. The total contact hours are 36.

**Course Books:**

The University provides especially written/ compiled/reprinted course books.

**MS Environmental Design**

**(Face to Face Lecture Sessions / Course Workshops)**

Twenty seven hours face to face lecture sessions for each 03-04 credit hour course are arranged in the afternoon at local teaching institutions. 60% attendance is compulsory.

Three days workshops are conducted for each course towards the end of each semester before the commencement of final examinations. Workshops comprise lectures from eminent scholars and presentations of research projects by the students.

**MS Environmental Design (Course workshops)**

Workshops at MS level will be conducted at the main campus. There will be two workshops of face to face teaching/ research work of fifteen days in each semester. Attendance in these workshops is compulsory. **In case a viable group of 10 to 15**

**students is not formed in any region, the students are normally merged in the student groups of nearby region.**

A student failing to attend any workshop is generally declared fail in final result. However, any student who could not manage to attend the workshop may appear in the final examination and may cover the missed workshop component in the later semesters. The students will have three chances in total to complete the workshop component but they will have to deposit the workshop fee at the start of the semester in which it is offered (in case they avail another chance). AIOU does not bear any cost incurring on boarding/lodging or TA/DA during the commencement of workshops. The university provides hostel facility on nominal charges for the course/thesis workshop held in the main campus, Islamabad. However, university is not responsible to provide accommodation for the workshops that are conducted in the regions.

**Practical Work:**

1. Lab/field based practical will be offered with 04 credit hour courses in first and second semester.
2. Field visits will be conducted during the workshops to boost the practical knowledge of the students.

**Research Work/Thesis:**

During the third and fourth semesters a student is required to carry out research work under the supervision of a research supervisor. The research could be design based, experimental or survey. The department according to the respective field of interest of the student will assign the research supervisor. Both the research work and writing of thesis will be done under the close supervision of an advisor/supervisor. On completion of research and thesis, the student is required to submit two copies of the thesis in spiral binding duly signed by the advisor/supervisor to the department.

The student will be required to arrange progress report from the Advisor every two months and submit to the department/institute. The maximum period allowed to complete research thesis successfully shall be three years after successful completion of course work or approval of topic whichever is later.

**Viva Voce:**

After evaluation of the thesis by external evaluator, the student has to appear for Viva-Voce examination before the Viva Voce Committee. (Rules and regulations as approved by AIOU statutory bodies are to be followed for procedural details). In case the thesis submitted by the student is found to be a plagiarized version of another thesis, research work/text, etc. published or unpublished, his candidature for MS shall be cancelled and the student shall be debarred for ever for admission to any programme of the University.

**h) Assessment System:**

During the semester the students are required to submit two assignments for each 03 credit hour course and these assignments not only help the students to go through the course contents completely but also are a preparation for the final exam.

- i. Assignment 1 is the theoretical assignment based on units 1–7 of your course.
- ii. Assignment 2 is research-based and includes a research activity followed by the submission of a research report and a presentation OR an observational visit/ survey followed by the submission of a report. This assignment is designed to judge the understanding of the students in the specific areas and to assess its application.
- iii. Final Examination (A three hour written examination will take place at the end of the semester for each course) and compulsory workshops for each course.
- iv. For working out the final course grade the marks of

continuous assessment and final examination are calculated in the ratio of 30:70 for both the programmes.

- v. Student failing in the continuous assessment (assignments, practical and field project) will not be eligible to sit in the final examination.
- vi. Only those students will be allowed to take final examination who have passed the assignments and the practicals. The student failing in the continuous assessment (Assignments, practical and field project) will not be eligible to sit in the final examination. The minimum qualifying marks for each component are as follow:
  - (i) A minimum of 50% in continuous assessment.
  - (ii) A minimum of 50% in the final examination.
  - (iii) As aggregate of 50% in the two components i.e. continuous assessment (practical and theory assignments) and final examination.

**i) Fee Tariff:**

Registration Fee:	Rs.200/-
Admission Fee	Rs.1000/-
Technology Fee + Courier Charge	Rs.135/-
Course fee for each 3 credit hours	Rs.3360/-
Lab based practical	Rs.2585/-
Thesis Fee: (3 <sup>rd</sup> & 4 <sup>th</sup> semester)	Rs.13440/-
Thesis Evaluation Fee:	Rs.26880/-

**Semester-wise payment to be made by the student on the basis of above-mentioned fee tariff.**

**Attainment of Certificate/Degree**

On successful completion of the programme, the student will have to apply to the Controller of Examination for the issuance of Diploma/Degree.

## **FACULTY MEMBERS:**

1. **Dr. Nomana Anjum**  
Chairperson/Professor (Environmental Design)  
Ph: 051-9250063, 051-9057742  
Email: [anjums41@hotmail.com](mailto:anjums41@hotmail.com)
2. **Dr. Hajra Ahmad**  
Assistant Professor (Community Health & Nutrition)  
Ph: 051-9057743  
Email: [hajra5@hotmail.com](mailto:hajra5@hotmail.com)
3. **Dr. Zaheer Ahmad**  
Assistant Professor (Food Bio Technology)  
Ph: 051-9057265  
E-mail: [zaheer\\_863@yahoo.com](mailto:zaheer_863@yahoo.com)
4. **Dr. Mahpara Safdar**  
Assistant Professor (Human Nutrition)  
Ph: 051-9057748  
Email: [mahpara.jadoon@gmail.com](mailto:mahpara.jadoon@gmail.com)
5. **Dr. Muhammad Farooq Mustafa**  
Assistant Professor  
Ph: 051-9057746  
Email: [farooq.mustafa@aiou.edu.pk](mailto:farooq.mustafa@aiou.edu.pk)
6. **Ms. Rabeea Zafar**  
Lecturer (Environmental Design)  
Ph: 051-9057746  
Email: [rabeea.zafar@aiou.edu.pk](mailto:rabeea.zafar@aiou.edu.pk)
7. **Ar. Nazia Iftakhar**  
Lecturer (Environmental Design)  
(Architecture/Urban Planning)  
Ph: 051-9057744  
Email: [nazia.iftakhar@aiou.edu.pk](mailto:nazia.iftakhar@aiou.edu.pk)
8. **Syed Shahzad Shah**  
Lecturer (Food Technology)  
Ph: 051-9057748  
Email: [shahzad-68@hotmail.com](mailto:shahzad-68@hotmail.com)

9. **Ms. Asma Afreen**  
Lecturer (Food & Nutrition)  
Ph: 051-9057741  
Email: [asma.ibd@hotmail.com](mailto:asma.ibd@hotmail.com)
10. **Ar. Omer Shujat Bhatti**  
Research Associate  
(Architecture/Environmental Design)  
Ph # 051-9057744  
E-mail: [omer.shujat@aiou.edu.pk](mailto:omer.shujat@aiou.edu.pk)

## **Adjunct Faculty Members:**

1. **Dr. Tabasum Zahidi**  
Associate Professor  
(Urban Design), F-7/2 College, Islamabad
2. **Engr. Hafiz Ehsan-ul-Haq Qazi**  
Director,  
CDA (Urban Planning)
3. **Engr. Muhammad Abid**  
Head Technical Services Group,  
PPAF (Civil Engineering)
4. **Dr. Riffat Haq**  
(Gender & Environment)
5. **Engr. Muhammad Sohail**  
PD Pir Mehr Ali Shah Arid Agricultural University, RWP  
(Environmental Design)
6. **Ms. Ghazala Naheed**  
IMCG F-7/2, Islamabad  
(Environmental Psychology)
7. **Dr. Naeem Ejaz**  
Associate Professor  
UET Taxila (Civil & Environmental Engineering)

## **FACULTY OF SOCIAL SCIENCES AND HUMANITIES**

First established in 1981 with five departments, the Faculty of Social Sciences and Humanities has, over the years, flourished to become, by far, the largest Faculty of the University. Presently, it consists of seventeen departments offering masters programmes in major areas of Social Sciences and Humanities like, Business Administration, Economics, Mass Communication, Sociology, Gender and Women Studies, Urdu, Library & Information Sciences, History, Pakistan Studies and Teaching of English as a foreign Language (TEFL). Additionally, efforts are afoot to plan and launch post-graduate programmes in Pakistani Languages and Law. The Commonwealth-collaborated masters programmes in the areas of Business and Public Administration, which are specially tailored for the modern day busy executives, were launched in Spring 2002 semester.

In tune with the government's policy of promoting and strengthening a culture of higher education and research in the country, the AIU's Faculty of Social Sciences and Humanities has shown a lot of dynamism over the past few years. It has launched MPhil/PhD programmes in Iqbaliat, Urdu, Mass Communication Economics, History and MS/PhD in Business Administration while preparations are being made to launch PhD Applied Linguistics and Pakistan Studies.

The Faculty of Social Sciences & Humanities also offers several bachelors' level programmes in such professional areas like

Bachelors in Library & Information Sciences (BLIS), BBA (4 years), BS-Commerce and Mass communication. Thousands of students comprising all demographic groups from all over the country, enroll each year in these bachelor's level programmes.

The Faculty has expanded vitally and its programmes have gained a high popularity as is clear from rapidly rising trend of enrolment during the past decade. During the period under report, the Faculty accorded high priority towards quality improvements and to modify its programmes in accordance with the current challenges of 21<sup>st</sup> century.

The Faculty proposed to launch Post-Graduate programmes in the disciplines of Political Science and International Relations, Psychology, Public Administration and Social Work.

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

### **Introduction**

The Department of Business Administration was established in 1986 with the objective to impart managerial education and skills in the discipline of Business Administration. Since its inception, the Department has made tremendous progress towards achieving its ultimate goal of becoming a centre of excellence in Business Management education and research in Pakistan. The Department has assembled outstanding teaching faculty and developed extensive teaching material for the improvement of education in Pakistan. The University first time launched MBA programme in 1986, MBA-IT in 2001 and MBA-Banking & Finance in Spring 2005 semester. Presently,

the Department is offering MBA 3½ Years, MBA 2½ years, MBA Rural Management, PGD-HRM, MS (Management Sciences) and PhD programmes with different specializations. These programmes contribute significantly to the national goals by developing the professionals equipped with modern business techniques. These programmes are designed to enable the professionals to upgrade their skills and enhance business qualifications. Further, it is hoped that the graduates from this university would have recognition in the human resource market and enjoy a respectable status in public and private sector organizations, operating in Pakistan and abroad. The Department has well qualified faculty members including MPhil/MS and PhDs both from national and foreign universities.

**Objectives of the Department**

- i. To strengthen the applied and basic research capabilities of scholars.
- ii. To deepen the theoretical knowledge of different domains of Management Sciences.
- iii. To provide an opportunity to test the theory practically by undertaking rigorous research activities.
- iv. To equip the research scholars to respond to current national and global crisis.

**PhD (Business Administration)**

The PhD (Business Administration) programme would be offered in two specializations, i.e., Finance and Human Resource Management. However, the department reserves the right to change its offering any time if desired so. The detail of scheme of studies and semester wise offering of courses would be as under:

**a) Scheme of Studies**

**First Semester**

S. No.	Course Title	Course Code	Credit Hours
1.	Advanced Management Thoughts	9561	3
2.	International Business	9562	3
3.	Research Design-I	9563	3

**Second Semester**

4.	Public & Business Policy Interface	9564	3
5.	Research Design-II	9565	3
6.	<i>Students would choose only one course from the following courses according to their specialization:</i>		
	Seminar on Financial Management	9566	3
	Seminar on Human Resource Management	9567	3
<b>Course Work Credit Hours</b>			<b>18</b>

**Third Semester**

7.	Thesis	9569	12
<b>Total Credit hours</b>			<b>30</b>

The PhD (Business Administration) programme will spread over two (02) semesters covering six courses (18 credit hours) and a thesis (12 credit hours), as per AIOU and HEC guidelines. It will be offered with two specializations: Human Resource Management (HRM) and Finance. The minimum period required for completion of PhD course work will be 2 years while maximum period for completion of degree will be 5 years.

**b) Eligibility Criteria and Admission Procedure**

The MS or MPhil degree holders in Business Administration or related disciplines from any HEC recognized institution with 3.00/4.00 CGPA or 1st Division would be eligible to apply.

- i. The programme would be merit base therefore fee/dues may not be deposited by the student until the offer letter from AIOU Admission Office is received.
- ii. For PhD Degree, the applicant must have relevant MS degree from an HEC recognized university, or equivalent, with a minimum CGPA of 3.00/4.00 or 1st division.
- iii. An applicant in relevant field with 1st class Masters Degree from a foreign recognized university or with MBA degree (18 years of education with research thesis) from HEC recognized university with CGPA 3.00/4.00 or 1st division, having recognized research experience, would be considered for admission.
- iv. There shall be a Departmental Admission Committee under the Chair of Department of Business Administration to finalize the admissions.
- v. Any student, who was rusticated, expelled, or whose entry in any College/University Campus was banned for any reason whatsoever at any time during his/her academic career, shall not be admitted to any programme. Only limited seats are available strictly on merit basis.
- vi. Preliminary selection of the candidates will be made strictly on the basis of criteria laid down by the Department/University. The candidates are required to pass the written test/interview (subject based) designed by Departmental Admission Committee for admission to PhD programme.
- vii. Only admitted candidates would be informed to deposit the fee by Director (Admission) that would confirm the admission of the candidate.
- viii. For clarification about academic matters the students can contact Chairman, Department of Business Administration,

Allama Iqbal Open University H-8, Islamabad (email: [mba@aiou.edu.pk](mailto:mba@aiou.edu.pk)). Phone No. +92(051)9250089

- xi. Applicants are required to send complete admission forms along with the attested copies of all relevant documents, certificates and marks sheets at the:

**Chairman**

Department of Business Administration,  
AIOU, H-8, Islamabad, (email: [mba@aiou.edu.pk](mailto:mba@aiou.edu.pk))  
before the closing date as specified by AIOU.

**c) Duration of the Programme**

The minimum period required for its completion will be two years (four semesters) while maximum period will be five years (ten semesters):

- The minimum period for the completion of coursework (18 credit hours) shall be one year (two semesters) and maximum of two years (four semesters).
- The minimum period for the completion of research work shall be one year (two semesters) and maximum of three years (six semesters).
- In case the student fails to complete the course/research work within the prescribed maximum period he/she has to take a fresh admission in the PhD program.
- In case of extension in Thesis up to maximum period (05 years), student will have to pay fee equivalent to 03 Credit Hours per semester.

**d) Methods of Instruction**

Students would be provided with the relevant e-books, study material and the outline of courses along with the required reading material and assignments. The student would be required to submit assignments to their respective tutor, attend workshops as and when arranged by the department and take final examinations conducted by AIOU. The medium of instruction and examinations would be in English.

**e) Assignments**

Assignments would be continuous exercises which students complete while studying as well as, attending the course workshop organized by the department. These would be designed in a way that students will be able to relate readings with their own objective findings. The students will send two compulsory assignments for each course to their tutors who return the same after marking and providing necessary academic guidance, as per AIOU policy. The weight age of two assignments (continuous assessment) per course would be 20% marks towards final grade of the course. It is imperative that passing each assignment as well as in aggregate of the assignment marks is 50% marks.

**f) Workshop/Classes**

PhD (Business Administration) would be face to face program, blended mode of distance learning system. However, in lieu of tutorials, classes/workshops component (equivalent to 48 hours) is adopted for the program. PhD workshop would be conducted into two phases. First phase (for 16 days) would be conducted in the beginning of the semester and second phase (16 days) at end of tutorial period but before the conduct of final examination. The classes/workshop for each course would be arranged only at the main campus AIOU, Islamabad. The participation of the students in the classes is compulsory. No relaxation can be provided to the students in the classes. The classes are organized in order to provide the students proper guidance in course contents through intensive lectures, group discussion, etc. The classes schedule would be chalked out by the department and forwarded to Directorate of Regional Services for intimation to the students. Hostel facility at the Main Campus, AIOU Islamabad is available on payment if desired, on first come first basis. For the hostel facility students must contact Manager Hostel prior to start of classes.

**g) Examination**

Examination and Registration rules and regulation would be applicable, as per the AIOU policy, as and when notified by AIOU Board of Advance Study and Research (BASR) or the Registrar from time to time. **No exemption would be given for course, workshops and thesis, in any case.**

**1. Assessment will be done as under:**

- i. Assignments (continuous assessment). Two assignments are compulsory for each 3 Credit Hours Course.
  - ii. Final Examination (three hours written examination will take place at the end of the semester). The weightage of each component is as follows:

1) Assignments	20%
2) Course Workshop	10%
3) Final Examination	70%
- 2. The conditions to qualify each component are given below:**
- i. A minimum of 50% passing marks in each assignment as well as aggregate also.
  - ii. A minimum of 50% passing marks in the final written examination.
  - iii. A minimum of 75% of class attendance in the workshops
- 3. For successful completion of each course the student will be required to qualify in each component i.e. assignments, workshops and final examination, individually and collectively.**
- 4. To take final examination the student must pass in each assignment and should have attended 75% class attendance in the workshops.**
- 5. The assessment evaluation system would be as per the AIOU policy and as applicable at PhD level from time to time by the University.**

**h) Synopsis**

After completion and qualifying course work and enrolling for Research Thesis course code 9569 students would attend the Synopsis Orientation Workshop (SOW) arranged by the Department of Business Administration. The students would defend their proposal/synopsis in front of BASR before the research process begins. The research process would be conducted and evaluated as per *Allama Iqbal Open University (as amended to date) PhD rules and regulations*. However, format and procedure of Thesis will be given by the Department and students are informed during the Synopsis Orientation Workshop, to be conducted after successful qualifying courses and comprehensive examination conducted by the University.

**i) Thesis**

After the completion and passing of requisite course work (18 credit hours) as well as SOW, in the specified time period, the student would be required to undertake research thesis of 12 credit hours as per AIOU laid down rules and regulations amended time to time.

**j) Degree Requirements**

The Degree would be awarded to the student after successful completion of required coursework, thesis and viva voce as per the AIOU laid down rules and regulations as amended time to time by the University.

**k) Fee Structure**

Only selected candidates would be required to submit the fee. The detail fee would be informed by the University to the selected candidates after completion of all admission procedure/requirement for PhD Program by the University.

**l) Fee Structure**

<b>Registration Fee:</b> (At the time of 1 <sup>st</sup> admission)	Rs.24,00/-
<b>Admission Fee:</b> (At the time of first admission)	Rs.25,00/-
<b>Technology Fee + Courier Charges:</b> (per student per semester)	Rs.135/-
<b>Course Fee:</b> (per 3 credit hour course)	Rs.7,350/-
<b>Security Fee:</b>	Rs.5,000/-
<b>Thesis Fee:</b> (two installments)	Rs.51,535/-
This programme is merit based, therefore no fee/dues are required to be deposited until you receive the offer letter from Admission Department of the University.	

**m) Rules and Regulations**

Rules and regulations, in line with the HEC guidelines as well as applicable in AIOU (amended from time to time) at the PhD level will be applicable to the programmes.

**FACULTY MEMBERS**

- Prof. Dr. Syed Hassan Raza**  
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12. **Staff:**  
Ph: 051-9057723

## Department of Pakistan Studies

The Department of Pakistan Studies was separated from its parent department, the Department of Social Sciences and Humanities, and was established as an independent Department in the Faculty of Social Sciences and Humanities. Since its inception, the Department has developed and offered several courses of Pakistan Studies ranging from Matriculation (Secondary School Certificate) to MPhil level. The MSc Pakistan Studies was first offered in 1985. Since then, it has produced a large number of graduates who are serving the nation in various capacities and bringing pride to the Department of Pakistan Studies. It has been a long standing demand of our students holding MSc degree to launch MPhil Pakistan Studies program. Now the Department is launching MPhil Pakistan Studies with a view to cater to the demand of the students particularly and the relevant people generally. The courses of the program are based on the latest revised scheme of studies of Higher Education Commission (HEC). Instead an effort has been made to improve upon the scheme of HEC.

### MPhil Pakistan Studies

#### **Introduction**

For the pragmatic understanding of the socio-political and economic institutions of any country, it is inevitable to study the Geography, History, Politics, Economics and Culture of that particular country in an integrated manner. The purpose of offering MPhil Pakistan Studies is to promote investigative approach, in Social Sciences paradigms, to study Pakistani Society and Culture, Political and Economic Institutions, History and Geography in an integrated and interdisciplinary ways.

### Objectives

The main objective of MPhil Pakistan Studies programme is to produce social scientists who can embark on the task of carrying out scientific research in the fields of Pakistan's history, politics, economics, society and culture. We hope, this approach will be helpful to understand the complexities and problems associated with the socio-political and economic development of the country.

### Eligibility

The candidates having Master's degree (at least in 2<sup>nd</sup> division) in Pakistan Studies will be eligible to apply for the admission in MPhil Pakistan Studies. Department will annually enroll not more than 25 research scholars in the MPhil Pakistan Study programme. The applicant requires to qualify entry test arranged by the Department of Pakistan Studies.

### Duration

The minimum period for completion of the programme is two years while maximum period will be four years. The minimum period for completion of course work is two semesters (one year) and the maximum period is four semesters (two years). The minimum period for completing research work is two semesters (one year) and the maximum period is four semesters (two years) provided the condition of four years shall not be affected.

### Medium of Instruction

The medium of instructions and examinations will be English. However, the scholars who choose the research topics related to Pakistani languages and literature would be allowed to write their theses in Pakistani languages.

### Scheme of Studies

MPhil Pakistan Studies program comprises of 24 Credit Hours (C.H.) of course work and 6 C.H. of research project/thesis. The admission in MPhil would be advertised once in a year (Spring Semester).

### Semester wise break-up of the courses:

#### 1<sup>st</sup> Semester

Course Code	Course Title	Credit Hours
7601	Research Methods in Social Sciences	3
7602	Civil-Military Relations in Pakistan	3
7603	Federalism, Identity and State-building in Pakistan	3
7604	Historiography in Pakistan	3
		<b>12</b>

#### 2<sup>nd</sup> Semester

Course Code	Course Title	Credit Hours
7605	Social Transformation in Pakistan	3
7606	Political Economy of Pakistan	3
7607	Electoral Politics, Governance and Sustainable Development in Pakistan	3
7608	Seminar on Literature and Politics	3
		<b>12</b>

### 3<sup>rd</sup> and 4<sup>th</sup> Semesters

Course Code	Course Title	Credit Hours
7610	Research Project/Thesis	12

### Workshops

#### i. Course Workshops:

It would be mandatory for the scholars to attend two course workshops, each of 16 days (48-50 C.H.) first, in the beginning of semester and the second, in the last month of the semester.

#### ii. Synopsis Orientation Workshop:

After successfully completing the course work, in the beginning of the third semester, scholars have to attend another mandatory synopsis orientation workshop for two weeks.

### Fee Tariff

Item	Fee
Registration Fee: (at 1 <sup>st</sup> time in University)	Rs.200/-
Admission Fee: (at 1 <sup>st</sup> time in the Programme)	Rs.1,000/-
Technology Fee + Courier Charges: (in each semester)	Rs.135/-
Tuition Fee: (per 3 credit hour course)	Rs.3090/-

### Faculty Members

**1 Prof. Dr. Samina Awan**  
Dean / Chairperson  
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**2 Dr. Badshah Sardar**  
Associate Professor  
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**3 Dr. Samina Yasmeen**  
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**4 Ms. Samina Aman**  
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**5 Malik Akhtar Hussain**  
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**6 Dr. Khalid Mahmood**  
Lecturer  
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<p style="text-align: center;"><b>For further information</b> <b>Please Contact:</b> <b>Department of Pakistan Studies</b> <b>E-mail: pakstudy@aiou.edu.pk</b> <b>Ph: 051-9250074</b></p>
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## DEPARTMENT OF LIBRARY AND INFORMATION SCIENCES

### **Introduction**

The Department of Library and Information Sciences was established in 1985 within the Faculty of Social Sciences and Humanities. The Department is currently offering three programs, Certificate in Librarianship (CLS), Master of Library and Information Sciences (MLIS), and BS in Library and Information Sciences (BS4-LIS). These programs were respectively initiated in 1985, 2001, and 2019.

### **MPhil (Library and Information Sciences) Program**

#### **Objectives**

The main objective to launch MPhil program is to contribute to the LIS literature internationally through high quality research particularly focusing on current and future needs. Secondly, there is a high demand from information professionals across Pakistan to have this program at the AIOU platform through unconventional means of education. Thirdly, there is a high number of LIS professionals working in Islamabad and Rawalpindi who intend to enhance their professional qualifications and they find no such program offered by public or private universities in this region. Other objectives include:

- To address the local issues in LIS and provide a viable solution through research.
- To enable LIS professionals to make informed decisions based on research.
- To promote evidenced-based LIS practice through the use of relevant research.
- To promote LIS research culture in Pakistan.

- To enrich Pakistani LIS research literature through a quality research.
- To endeavor to create a new knowledge in LIS.
- To instill critical and analytical thinking in research students.
- To instill information literacy skills in research students.
- To improve academic writing skills of LIS research students.
- To improve soft skills of LIS research students.
- To provide a specialized manpower to the LIS job market. and
- To promote information entrepreneurship by establishing industry-academia linkages through need-based research.

#### **Eligibility Criteria and Procedure of Admission**

MPhil in LIS is a merit-based program. Any candidate having master's degree in Library & Information Sciences/Information Management/Information Studies with at least 2.5/4.0 or 3.5/5.0 CGPA in semester system or second division (45% marks) in annual system or equivalent foreign degree from an HEC-recognized institution can apply for admission. The number of seats will be determined as per AIOU/HEC policy. The admission merit will be determined as under:

- Written test (max 70 marks, pass marks 60%)

A written test will be conducted according to prevailing practice in AIOU.

- Interview (max 25 marks, pass marks 60%)

Oral, face-to-face interview to judge the suitability of the candidate for the program.

- Publications (max 05 marks)

Paper(s) published in HEC-recognized journals, one mark for each paper (max 05 marks).

**Note1:** Written test and interview will be conducted at Main Campus, Allama Iqbal Open University (AIOU), H-8, Islamabad. No TA/DA or other expenses will be on the part of AIOU. Admission/entry test fee Rs.1,000 (One Thousand) per student per attempt applies.

**Note 2:** Student should write “MPhil Admission Form” on the envelope. After merit determination, the University would intimate by post or other means (e.g. website, email, SMS) to all those candidates whose names would come on merit. That intimation would also contain admission offer along with information on depositing prescribed fee. Candidates are advised to keep on watching websites of LIS Department <<http://lis.aiou.edu.pk/>> and AIOU <[www.aiou.edu.pk](http://www.aiou.edu.pk/)> for updates. Our Facebook ID is <LIS@AIOU official>.

Interested candidates will be required to purchase prospectus and send admission form along with required documentation (without admission fee) directly at the following address by the closing date:

*MPhil Coordinator  
Department of Library and Information Sciences  
Block 6, Allama Iqbal Open University, H-8, Islamabad*

**Pre-requisites from MPhil (LIS) Students**

An MPhil (LIS) student must have a computer with internet connection to successfully complete this program.

**MPhil Duration**

This program spans minimum two years, one year for coursework and one year for thesis writing and submission. The extensions in coursework and thesis may be granted as per AIOU rules.

**MPhil Coursework**

There will be a two-semester MPhil coursework of 30 credit hours, consisting of ten courses of three credit hours each. All courses are of 100 marks each. The semester-wise breakup of the courses is as under:

**1<sup>st</sup> Semester**

Sr#	Course	Code	Cr.Hrs
1	Advances in Library and Information Sciences	8731	3
2	Philosophy and Theory of Library and Information Sciences - I	8732	3
3	Philosophy and Theory of Library and Information Sciences - II	8733	3
4	Quantitative Research	8734	3
5	Qualitative Research	8735	3

**2<sup>nd</sup> Semester**

Sr#	Course	Code	Cr.Hrs
1	Emerging Trends in Information Behaviour Research	8736	3
2	Research Resources in Library and Information Sciences	8737	3
3	Data Analysis Tools	8738	3
4	Aids to Research	8739	3
5	Academic Writing and Publishing	8740	3
Subsequent Semesters			
1	Thesis	8741	12

**Research Proposal and Thesis** (Third and Subsequent Semesters)

Third semester will begin with a 2-week thesis/synopsis orientation workshop. Following the orientation workshop students will be given a stipulated time as per AIOU rules to prepare and submit their research proposal against the approved topic. New, innovative, and interdisciplinary research topics/problems with particular reference to Pakistan will be emphasized aimed at contributing to LIS knowledge. After approval of their research proposal via a committee as per AIOU procedure they would work on their thesis under the guidance of a research supervisor. The research supervisor may preferably be from the LIS Department or may also be hired from other organizations/institutions as per AIOU approved rates and remuneration. The proposed list of internal/external members of research proposal review committee and thesis supervisors will be sent to the competent authority for approval, when needed. All other matters relating to thesis submission date, extension(s), evaluation/assessment, grading, and result/degree will be dealt with as per AIOU rules and guidelines.

### **Mode of Study**

A hybrid, flexible approach has been adopted for this program. Unlike our MLIS program, there will be no tutorial classes in this program. Instead, two workshops, one each will be conducted at the start and end of semester. Four days have been allocated for one course in each workshop making a total of 40 days' duration of two workshops, 20 days each, in each semester. Attendance in these workshops will be compulsory for every student as per AIOU rules. Any resident or overseas Pakistanis may apply for admission but they would have to come to AIOU, Main Campus, Islamabad, to attend the workshops if admission is granted.

### **Medium of Study**

English language will be the medium of study. Students may not opt for any other language for any of the components of this program.

### **Assessment/Evaluation Criteria**

Multiple criteria will be adopted to assess students' coursework as appended below.

1. Final exam (at the end of each semester) = 70% marks (pass marks 60%) to be conducted via the Examination Department of AIOU.
2. Any or all or combination of following components = 30% marks (pass marks 60% collectively).
  - Mid-term exam to be conducted and assessed by the resource person concerned.
  - Academic Paper/Essay/Article (MS Word processed in electronic format with proper citations and references as per APA style) to be assessed by the resource person concerned. The resource person concerned will assign a separate mini research project to each student (not to a group of students) at the first workshop. Students' work should also be checked with Turnitin for plagiarism.
  - Assignment (MS Word processed in electronic format with proper citations and references as per APA style) to be assessed by the resource person concerned. The resource person concerned will give assignment at the first workshop. Students' work should also be checked with Turnitin for plagiarism.
  - PowerPoint Presentation(s) of any or all of the above by each student (not a group of students) at the second workshop to be determined and assessed by the relevant resource person.

### Fee Tariff

Item	Fee
Registration Fee (once, if not already registered with AIOU)	200
Admission Fee	700
Technology Fee + Postal Charges	150
Tuition fee per 3 Credit Hours course Rs.7,000 = (Rs.7,000×5 courses)	35,000
Books/CD (Rs.1,000 per course x 5 courses)	5,000
Lab fee (Rs.5,000 per semester)	5,000
<b>Total fee for 1<sup>st</sup> Semester Rs.</b>	<b>46,050</b>

Fee for subsequent semesters will be informed at the time of their admission.

**Note:** The AIOU reserves the right to make any change(s) anytime in this program partly or wholly without prior notice.

### Faculty Members

1. **Dr. Pervaiz Ahmad**

Chairman

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2. **Dr. Muhammad Arif**

Assistant Professor (on leave)

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## GENERAL INFORMATION

- i. The certificates/degrees of AIOU are equivalent to any other recognized Board/University.
- ii. A candidate is required to send complete admission form along with attested copies of all educational and experience certificates to Department as mentioned in the prospectus before or on the closing date.
- iii. If an applicant of post-graduate/research level programme does not receive any information regarding admission even after three months of submission of application, he/she should presume himself/herself non-selected.
- iv. The student cannot change the specialization at post-graduate research level during the programme after once being admitted to a specific field.
- v. A course taken by any student cannot be change during the semester.
- vi. The address of a student will not be changed during the semester. However in real hardship cases change of courses will be allowed within fifteen days after receipt of books and deposit of prescribed fee.
- vii. Admission to courses for both the Spring and Autumn semesters are generally offered in the months of February and August, respectively, where as 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 by the part time tutors appointed 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 the 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.

**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, the fee will be refunded after the deduction of 5% 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**

<b>Sr. No.</b>	<b>Name</b>	<b>Telephone Nos.</b>
1.	Director Admissions	051-9250043 051-9250162 (Fax)
2.	Assistant Registrar (Mailing)	051-9250185
3.	Controller of Examinations	051-9250012
4.	Director Students Affairs	051-9250174
5.	Assistant Registrar (Postgraduate)	051-9057422
6.	Directorate of BASR	051-9057794 051-9057689