

Spring 2017

**AIOU**

# Prospectus

**MSc (Hons)**

**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 Programs**

**SEMESTER: SPRING 2017**



**Allama Iqbal Open University, Islamabad**

*Price: Rs.500/-*

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Semester..... Spring 2017

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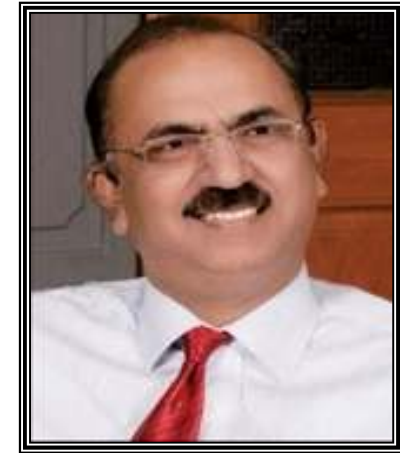
## Vice-Chancellor's Message

**Dear Student,**

السادة

Welcome to Allama Iqbal Open University, the first Distance Education University in South Asia, that caters to the educational needs of 1.3 million students to enable them to study at their own place, at their own pace and at their own convenience. The University goes to the doorsteps of the students, irrespective of the distance and location of students. One can become a student of this university at any age as we consider education a life-long and continuous process. The University has a vast menu of educational programs at different levels, starting from basic literacy programs to the PhD programs. The courses are regularly revised in order to keep them contemporary, relevant, and internationally compatible. Self explanatory course material helps the students to comprehend the course concepts without physical presence of the teacher. The self-assessment activities, included in the books, help ensure the acquisition of learning outcomes. This university offers maximum number of specializations at post-graduate level through four faculties - Faculty of Arabic and Islamic Studies, Faculty of Education, Faculty of Sciences, and Faculty of Social Sciences and Humanities. The faculty members at the university and a huge network of tutors, resource persons, specialists and experts make sure that the courses being offered in these programs enable the students to become independent learners and critical thinkers. Post-graduate level studies invite you to critically examine what has already been done in your field of interest and then research to offer innovations.

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



**(Prof. Dr. Shahid Sddiqui)**  
**Vice Chancellor, AIOU**

## **1. ALLAMA IQBAL OPEN UNIVERSITY**

The 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 along with university prepared study guides help students to polish their skills.

At present, the AIOU is offering programs 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 MBA, BS (CS), BS Chemistry, BS Microbiology and BS Environmental Sciences 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 science students and 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.

## **2. FACULTY OF EDUCATION**

The origin of the Faculty of Education pre-dates the university itself. The National Institute of Education was established in 1973 under the Federal Ministry of Education. It became part of the university in June, 1975 as Institute of Education in the then Faculty of Social Sciences. The progressively extending functions of the Institute brought the needs for structural change and in 1984 it got the status of Faculty of Education.

### **3. DEPARTMENTS OF THE FACULTY**

**Faculty of Education comprises of the following six departments:**

1. Distance, Non-Formal and Continuing Education
2. Educational Planning, Policy Studies and Leadership
3. Early Childhood Education and Elementary Teacher Education
4. Secondary Teacher Education
5. Science Education
6. Special Education

#### **Distance, Non Formal Education and Continuing Education**

The department was established in 1984 and was renamed as Distance, Non Formal and Continuing Education in 2008.

It offers specialized degree programs/courses in Distance Non-Formal and Continuing Education, Adult Education and Educational Technology at MA Education, MEd, MPhil and PhD in Education. It also offers courses at BA level.

#### **Educational Planning, Policy Studies and Leadership (EPPSL)**

The department was established in 1976 was renamed as EPPSL in 2008. It offers programs in educational planning and management. These programs are aimed at producing a cadre of professionals for the educational institutions and organizations in the country. Programs of EPPSL include Postgraduate Diploma, MA (EPM), MPhil and PhD in Education. The courses of these programs are attained to the field requirements of target personnel in the areas of educational planning and management.

#### **Secondary Teacher Education**

The Department of Teacher Education was established in 1985 and was bifurcated into Secondary and Elementary Teacher Education Departments in July 2003. Its programs aim at imparting academic and professional knowledge and training to in-services and pre service teachers and scholars.

The programs/courses of this department comprises MA, MEd and BEd as professional degree programs. The department also offers MPhil and PhD in Education, which are aimed to prepare highly skilled leaderships in the field of teacher education.

#### **Early Childhood Education and Elementary Teacher Education**

The Department of Elementary Teacher Education was established in 2003. In April 2008, the name of Elementary Teacher Education Department was changed as Early Childhood Education and Elementary Teacher Education Department.

The Department offers Associate Degree in Education, Post Graduate Diploma in ECE, BEd (1-½ year), BEd (2-½), BEd (4 years) and MPhil program, it also offers “Education” as subject at Matric, Intermediate and Graduate level.

The department is planning to launch, MA (Elementary Teacher Education) and PhD Programs. The department also plans to offer non-credit research courses and postgraduate diploma for teaching in higher education.

## **Science Education**

The Department of Science Education was established in 1988. The programs and courses of the department are mainly focused on education and training of mathematics and science teachers. Presently the department offers specialized courses in science education at undergraduate and postgraduate level. Specialized courses provide conceptual framework and insight into the teaching of science. The department also offers MEd, MPhil and PhD programs in science education.

## **Special Education**

The Department was established in 1985. The department imparts education and training to teachers for the special children in four specialization namely visual impairment, hearing impairment, physical disabilities and mental retardation with particular emphasis to facilitate mainstreaming of special children. Parents of the special children are also admitted to these programs.

Present programs/courses of this department comprise MEd, MA, MPhil and PhD in the field of Special Education.

## **4. PROGRAMS OF FACULTY OF EDUCATION**

The Faculty has developed and launched more than 275 courses (up to Spring, 2015 Semester) in various disciplines from SSC to PhD level programs. It is now fully recognized by both the government of Pakistan and International agencies as the prime national provider of professional education and training at all levels.

### **PhD in Education with following specializations:**

- Distance and Non-Formal Education
- Educational Planning and Management
- Teacher Education
- Special Education
- Science Education

### **MPhil Education with following specializations:**

- Distance and Non Formal Education
- Educational Planning & Management
- Elementary Teacher Education
- Teacher Education
- Special Education
- Science Education

### **MEd/MA Education with following specializations:**

- MEd Distance and Non Formal Education
- MEd Science Education
- MEd Special Education
- MEd Teacher Education
- MA Distance and Non Formal Education
- MA Educational Planning and Management
- MA Teacher Education
- MA Special Education

### **BEd/PGD/ADE/SSC/HSSC/BA level Educational programs**

- BEd (1-½ years, 2-½ years, 4 years)
- PGD Educational Planning and Management
- PGD Early Childhood Education
- Courses of Education at SSC, HSSC and BA level
- Associate Degree in Education  
(1 year in service; 2 years; 3 years)

**All programs of Faculty of Education are recognized by HEC and accreditation is under process with NACTE.**

## 5. MPhil Education Program

Faculty of Education offers MPhil Education in following specializations:

- Distance and Non Formal Education
- Educational Planning and Management
- Teacher Education
- Special Education
- Science Education
- Elementary Teacher Education

### 5.1 Program Goals

MPhil in Education program is designed to prepare scholars who have grasp of the discipline of Education: establish a cadre of specialists and professionals in different fields of education who can provide effective leadership in guiding and conducting high level research in various fields.

### 5.2 Admission Procedure for MPhil Education Program

- i) Merit will be determined on the basis of educational qualification, experience, score of subject test and interview conducted by the department.
- ii) Selected candidates will be intimated by the Directorate of Admission with the advice to deposit fee according to the schedule.

*Courses by continuing students may not be taken as mentioned in the prospectus. These should be taken only as and when communicated in the letter by the Admission Department for continuing student for each semester.*

### 5.3 Procedure of Studies for MPhil Education

The university will provide study material in printed or electronic form to the enrolled students. The medium of instruction is English.

#### Assignments

Assignments are compulsory component. For each course students have to attempt two assignments. Passing marks in each assignment are 50%. The student has to submit his/her assignments as per schedule before or on time. It is advised that students must send their assignments under registered cover and keep a copy for their own record.

#### Workshop

For each course there will be a compulsory workshop of one week duration at the main campus Islamabad. All expenditures including travelling, hostel charges etc. will be borne by the students themselves. The university will not bear any responsibility of TA/DA or provision of accommodation. Attendance in the workshops is compulsory. Facility of university hostel is available at the approved rates, provided if the rooms are vacant.

#### Final Examination

To sit in the final examination, one has to qualify the assignment component.

#### Research Thesis

The student will be allowed to take research thesis after successful completion of 12 credit hours course work including "Advance Course on Educational Research and Statistics" (3706) and qualifying other requirements.

**5.3.1 MPhil Education (Specialization in Distance and Non-Formal Education)**

**i. Eligibility**

Applicants for MPhil Education (Distance and Non-Formal Education) must possess the following qualification:

MA Education (at least 2<sup>nd</sup> division)

**OR**

MEd (at least 2<sup>nd</sup> division)

**OR**

MSEd (at least 2<sup>nd</sup> division)

Admission will strictly be made on merit basis as per approved criteria.

**ii. Program Structure**

MPhil Education with specialization in Distance, Non-Formal and Continuing Education program comprises 24 credits hours course work and 12 credit hours thesis for MPhil.

**Semester-1**

**a. Core Courses 12 Credit Hours**

S. No.	Courses	Credit Hours
1.	Trends and Issues in Education (3701)	3
2.	Trends and Issues in Distance Education (3703)	3
3.	Computer Applications in Education (3705)	3
4.	Advanced Course on Educational Research and Statistics (3706)	3

**Semester-2**

(Students can take any two clusters from the following)

**b. Specialization 12 Credit Hours**

S. No.	Courses	Cluster	Credit Hours
1.	Non Formal Education-I (3726)	Cluster-A	3
	Non Formal Education-II (3727)		3
2.	Adult Education/Literacy-I (3728)	Cluster-B	3
	Adult Education/Literacy-II (3729)		3
3.	Educational Technology-I (3730)	Cluster-C	3
	Educational Technology-II (3731)		3
4.	Distance Education-I (3732)	Cluster-D	3
	Distance Education-II (3733)		3

**c. Semester 3<sup>rd</sup> & 4<sup>th</sup> Research Thesis (3714) 12 credit hours**

**Note:** Admission form complete in all respect may be sent on the following address:

**CHAIRPERSON**

Department of Distance, Non-Formal and Continuing Education  
 Faculty of Education,  
 Allama Iqbal Open University,  
 H-8, Islamabad.  
 Ph: 051-9250055

**5.3.2 MPhil Education (Specialization in Educational Planning and Management)**

**i. Eligibility**

Applicants for MPhil Education in EPM must possess an MA Degree in the relevant field with at least 2<sup>nd</sup> division.

Admission to MPhil Education in EPM will be granted on merit according to the approved criteria of AIOU.

**ii. Program Structure**

MPhil Education with specialization in Educational Planning and Management comprises 24 credit hours course work and 12 credit hours research thesis. The detailed breakup of courses is as follows:

**Semester-1**

**a. Core Course: 12 Credit Hours**

S. No.	Courses	Credit Hours
1.	Trends and Issues in Education (3701)	3
2.	Trends and Issues in EPM (3702)	3
3.	Computer Applications in Education (3705)	3
4.	Advanced Course on Educational Research and Statistics (3706)	3

**Semester-2**

**b. Specialization Courses 12 Credit Hours**

1.	Advance Course on Educational Planning-I (3707)	3
2.	Advance Course on Economic and Financing of Education (3708)	3
3.	Advanced Course on Educational Management–I (3734)	3
4.	Advanced Course on Educational Management–II (3735)	3

**c. Semester 3<sup>rd</sup> & 4<sup>th</sup> Research Thesis (3715) 12 credit hours**

**Note: Only selected candidates will be intimated for depositing fee. No fee is required with admission form.**

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**

Department of Educational Planning Policy Studies and Leadership  
Faculty of Education,  
Allama Iqbal Open University, H-8, Islamabad  
Ph: 051-9250059

**5.3.3 MPhil Education (Specialization in Teacher Education)**

**i. Eligibility**

Applicant for MPhil Education in Teacher Education must possess a degree of MEd, MA Education or MS Ed/BS Ed at least with 2<sup>nd</sup> division. Admission to MPhil Education (Teacher Education) will be granted on merit as per approved criteria.

**ii. Program Structure**

MPhil Education specialization in Teacher Education program comprises 24 credit hours course work and 12 credit hours thesis.

**Semester-1**

**a. Core Courses 12 Credit Hours**

S. No.	Courses	Credit hours
1.	Trends and Issues in Education (3701)	3
2.	Trends and Issues in Teacher Education (3704)	3
3.	Computer Application in Education (3705)	3
4.	Advanced Course on Educational Research and Statistic (3706)	3

**Semester-2**

**b. Any two clusters from the following**

1.	Advance Approaches to Curriculum Development I (3736)	3
	Advance Approaches to Curriculum Development II (3737)	3
2.	Teaching Strategies-I (3739)	3
	Teaching Strategies-II (3740)	3
3.	Measurement & Evaluation in Education-I (3742)	3
	Measurement & Evaluation in Education-II (3743)	3

**c. Semester 3<sup>rd</sup> and 4<sup>th</sup> Research Thesis (3713) 12 Credit Hours**

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**

Department of Secondary Teacher Education  
Faculty of Education,  
Allama Iqbal Open University, Sector H-8 Islamabad  
Ph: 051-9250057, 051-9057708

**5.3.4 MPhil Education  
(Specialization in Special Education)**

**i. Eligibility**

Applicants for MPhil Education with Specialization in Special Education must possess a degree of MED, MA Education or MS Ed at least with 2<sup>nd</sup> Division.

Admission to MPhil Education with specialization in Special Education will be made on merit as per approved criteria, the applicants having MA/MED in Special Education be given priority.

**ii. Program Structure**

Students enrolled in MPhil have to pass the make-up courses prescribed by the department if they are not MA/MED in Special Education. MPhil Education specialization in Special Education program is comprised of 24 credit hours course work and a Research Thesis of 12 credit hours.

**Semester-1**

**a. Core Courses 12 Credit Hours**

S. No.	Courses	Credit Hours
1.	Trends and Issues in Education (3701)	3
2.	Computer Application in Education (3705)	3
3.	Advanced Course on Educational Research and Statistics (3706)	3
4.	Trends and Issues in Special Education (3709)	3

**Makeup Courses (MA Level) for the students who are without MA/MED Special Education Degree:**

1.	672	Perspective of Special Education	3
2.	673	Handicapped Persons in the Community	3

**Semester-2****b. Specialization****12 Credit Hours**

S. No.	Courses	Credit Hours
1.	Advanced Study on Exceptionalities-I (3716)	3
2.	Advanced Study on Exceptionalities-II (3717)	3
3.	Career Planning and Rehabilitation-I (3718)	3
4.	Career Planning and Rehabilitation-I (3719)	3

Makeup Courses (MA Level) for the students who have not done MA/MEd Special Education Degree. 6 Credit Hours Courses from Any Specialization Area

<b>a. Visual Impairment</b>		
677	Independence Training for the Visually Handicapped	3
678	Special Education for Visually Handicapped	3
<b>OR</b>		
<b>b. Hearing Impairment</b>		
680	General Introduction to the Hearing Impairment	3
681	Psychology of Deafness & Child Development	3
<b>OR</b>		
<b>c. Mental Retardation</b>		
3603	Introduction & Assessment of Mentally Retarded Children-I	3
3604	Introduction & Assessment of Mentally Retarded Children-II	3
<b>OR</b>		
<b>d. Physical Disabilities</b>		
3607	Physical Handicaps-I	3
3608	Physical Handicaps-II	3

**c. Semester 3<sup>rd</sup> and 4<sup>th</sup> Research Thesis (3712) 12 credit hours**

For clarification about academic matters please contact on the following address:

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**

Department of Special Education  
Faculty of Education,  
Allama Iqbal Open University,  
Sector H-8, Islamabad

Ph: 051-9250078, 051-9057853, 051-9057859

### **5.3.5 MPhil Education (Specialization in Science Education)**

**i. Eligibility**

Applicants for MPhil Science Education must possess MEd/MS Ed/MA degree in Science education at least with 2<sup>nd</sup> division. Admission to MPhil will be granted on merit basis (Test and Interview) according to the approved criteria of AIOU.

**ii. Program Structure**

MPhil Education Specialization in Science Education comprises 24 credit hours course work and 12 credit hours Research thesis.

The detailed breakup of courses is as follows:

**Semester-1**

**a. Core Courses (12 Credit Hours)**

S. No.	Courses	Credit Hours
1.	Trends and Issues in Education (3701)	3
2.	Advanced Course on Educational Research and Statistics (3706)	3
3.	Computers Application in Education. (3705)	3
4.	Trends and Issues in Science Education (6771)	3

**Semester-2**

**b. Specialization (12 Credit Hours)**

1.	ICTs in Science Education (6772)	3
2.	Teaching Models & Strategies in Science Education (6773)	3
3.	Assessment and Evaluation in Science Education (6774)	3
4.	Curriculum Development in Science Education (6775)	3

**C. 3<sup>rd</sup> and 4<sup>th</sup> Semester:**

**Thesis/Research Work (12 Credit Hours)**

Note: Admission form complete in all respect may be sent on the following address:

**CHAIRPERSON**

Department of Science Education  
Block No. 10, 1<sup>st</sup> Floor, AIOU, H-8 Islamabad,  
Phone No. 051-9057851, 051-9250080

**5.3.6 MPhil Education (Specialization in Elementary Teacher Education)**

**Eligibility:**

MA (Education), MEd or MSED with 2nd Division. Admission will be granted on merit as per approved criteria of AIOU.

**MPhil courses work:** 24 Credit Hours

**THESIS:** 12 Credit Hours

**Semester-1**

**(12 Credit Hours)**

S. No.	Courses	Code	Credit Hours
1.	Advanced Research Methods	3751	3
2.	Educational Leadership & Supervision	3752	3
3.	Curriculum & Instruction	3753	3
4.	Assessment of Evaluation in Education	3754	3

**Semester-2**

**(12 Credits)**

**(Core courses 6 credits & Specialization Courses 6 Credits)**

1.	Foundations of Education	3755	3
2.	Trends and Issues in Elementary Education	3756	3

Student can select any one cluster from below clusters:

<b>Specialization Courses</b>			
Curriculum	Curriculum Design	3757	3
	Curriculum Evaluation	3758	3
Assessment	Test & Scale Development	3759	3
	Assessment & Reporting of Student Learning	3760	3

Educational Psychology	Psychological Testing	3761	3
	Social Psychology	3762	3
Educational Research	Educational Statistics	3763	3
	Critiques in Educational Research	3764	3
Educational Administration	Organizational Theory & Behaviour in Education	3765	3
	Economics & Finance of Education	3766	3

**3<sup>rd</sup> and 4<sup>th</sup> Semester:**

**Thesis/Research Work (12 Credit Hours)**

Course	Code	Credits
Thesis	3747	12

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**

Department of Early Childhood Education &  
Elementary Teacher Education  
AIOU, Sector H-8 Islamabad  
Ph: 051-9257719, 051-9057718

**5.3.7. Fee Tariff (MPhil Education)**

Details of dues for admission to program are as under:

Registration fee:	Rs.200 (at the time of first admission in the university).
Admission fee:	Rs.1000 (at the time of first admission in the program)
3 credit hours	Rs.2940/-
Research thesis (12 credit hours)	Rs.11760/-
Technology fee:	Rs.100 (per student/semester)

**6. MPhil Education Coordinators**

For clarification about academic matters, please contact on the following address:

**1. Distance, Non-Formal and Continuing Education**

Dr. Zafar Iqbal Lilla  
Ph: 051-9057720  
Email: [zafarar72@yahoo.com](mailto:zafarar72@yahoo.com)

**2. Educational Planning, Policy Studies & Leadership**

Dr. Azhar Mumtaz Sadi  
Ph: 051-9057709  
Email: [azhar.mumtaz@aiou.edu.pk](mailto:azhar.mumtaz@aiou.edu.pk)

**3. Secondary Teacher Education**

Dr. Munnaza Ambreen  
Ph: 051-9057713  
Email: [munazza.ambreen@yahoo.com](mailto:munazza.ambreen@yahoo.com)  
[munazza.ambreen@aiou.edu.pk](mailto:munazza.ambreen@aiou.edu.pk)

**4. Special Education**

Dr. Tanzila Nabeel  
Ph: 051-9250078, 051-9057857  
Email: [spedu@aiou.edu.pk](mailto:spedu@aiou.edu.pk)

**5. Science Education**

Dr. Muhammad Samiullah  
Assistant Professor  
Ph: 051-9057852  
Email: [samigoldmetalist1077@hotmail.com](mailto:samigoldmetalist1077@hotmail.com)

**7. Elementary Teacher Education**

Dr. Fazal ur Rahman  
Ph: 051-9057268  
Email: [fazalaiou@yahoo.com](mailto:fazalaiou@yahoo.com)

## **7. PhD in Education**

**Faculty of Education offers PhD in Education with following specializations:**

- Distance and Non-formal Education
- Educational Planning and Management
- Science Education
- Teacher Education
- Special Education

### **7.1 PhD Eligibility to Apply**

- i. Graduate holding MS/MPhil in the relevant area or equivalent with GPA 3.00/1st Division will be eligible for admission in PhD Program.
- ii. Test and Interview will be conducted by the department concerned.
- iii. Candidate will apply for admission on prescribed form to the concerned chairman of the department. If the candidate wishes to apply in more than one specialization, s/he has to apply separately for each specialization.
- iv. Admission will be strictly on merit and on approved criteria.

### **7.2 PhD Distance and Non-Formal Education**

#### **Semester-1**

##### **a. Common Courses 9 Credit Hours**

<b>S. No.</b>	<b>Courses</b>	<b>Credit hours</b>
1.	Comparative Education (4774)	3
2.	Instrumentation in Educational Research (4775)	3
3.	E-Learning (4778)	3

#### **Semester-2**

##### **b. Specialization Course work (6 credit hours)**

###### **Specialization Courses:**

Student may take following specialization courses:

<b>S. No.</b>	<b>Courses</b>	<b>Credit Hours</b>
1.	Adult and Lifelong Education (4771)	3
2.	Human Resource Management in Distance Education (4773)	3

##### **c. Collateral Area**

Each student will take a course from this area equivalent to 3 credit hours.

<b>S. No.</b>	<b>Courses</b>	<b>Credit Hours</b>
1.	Discourse Analysis (4776)	3
2.	Emerging Trends in Pedagogy (4777)	3
3.	Inclusive Education (4779) Subject to offering	3
4.	Educational Leadership & Management (4783)	3

##### **d. Comprehensive Examination**

**e.** Publish research article as per approved policy of Higher Education Commission.

**f.** Thesis (4786)

**Note: Admission form complete in all respect may be sent on the following address:**

#### **CHAIRPERSON**

Department of Distance, Non-Formal and Continuing Education,  
Faculty of Education, AIOU, H-8, Islamabad  
Ph: 051-9250055

### 7.3 PhD Educational Planning & Management

PhD Course Work: 18 Credit Hours

#### Semester-1

**a. Common Courses 9 Credit Hours**

S. No.	Courses	Credit Hours
1	Comparative Education (4774)	3
2	Instrumentation in Educational Research (4775)	3
3	E-Learning (4778)	3

#### Semester-2

**b. Course Work (Specialization) 6 Credit Hours**

1.	Human Resource Management (4782)	3
2.	Educational Leadership and Management (4783)	3

**c. Any one collateral area course: 3 Credit Hours  
(Subject to offering)**

1.	Discourse Analysis (4776)	3
2.	Emerging Trends in Pedagogy (4777)	3
3.	Adult and Life Long Education (4771)	3

- d. Comprehensive Examination
- e. Publish research article as per approved policy of Higher Education Commission.
- f. Thesis (4788)

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**  
 Department of Educational Planning  
 Policy Studies and Leadership,  
 Faculty of Education, AIOU, Sector H-8, Islamabad  
 Ph: 051-9250059

### 7.4 PhD Science Education

PhD Course Work: 18 Credit Hours

#### Semester-1

**a. Common Courses 9 Credit Hours**

S. No.	Courses	Credit Hours
1.	Comparative Education (4774)	3
2.	Instrumentation in Educational Research (4775)	3
3.	E-Learning (4778)	3

#### Semester-2

**b. Specialization Courses 6 Credit Hours**

1.	Nature of Science in Science Education (6779)	3
2.	Professional Development of Science Teacher (6777)	3

**c. Collateral Area Courses (any one from the following)**

1.	Human Resources Management (4782)	3
2.	Educational Leadership & Management (4783)	3

- d. Comprehensive Examination
- e. Publish research article as per approved policy of Higher Education Commission.
- f. Thesis (4789)

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**  
 Department of Science Education,  
 Block-10, AIOU, Sector H-8 Islamabad  
 Ph: 051-9050080, 051-9057851,

## 7.5 PhD Teacher Education

**PhD Course Work: 18 Credit Hours**  
**Semester-1**

**a. Common Courses 9 Credit Hours**

S. No.	Courses	Credit Hours
1.	Comparative Education (4774)	3
2.	Instrumentation in Educational Research (4775)	3
3.	E-Learning (4778)	3

**Semester-2**

**b. Specialization Courses 6 Credit Hours**

1.	Discourse Analysis (4776)	3
2.	Emerging Trends in Pedagogy (4777)	3

**c. Collateral area Courses. The students can opt any one from the following:**

1.	Human Resource Management (4782)	3
2.	Educational Leadership & Management (4783)	3

- d.** Comprehensive Examination
- e.** Publish research article as per approved policy of Higher Education Commission.
- f.** Thesis (4787)

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**  
Department of Secondary Teacher Education  
Faculty of Education,  
AIOU, Sector H-8 Islamabad  
Ph: 051-9250057, 051-9057708

## 7.6 PhD Special Education

**PhD Course Work: 18 Credit Hours**  
**Semester-1**

**a. Common Courses 9 Credit Hours**

S. No.	Courses	Credit Hours
1.	Comparative Education (4774)	3
2.	Instrumentation in Educational Research (4775)	3
3.	E-Learning (4778)	3

**Semester-2**

**b. Specialization Courses 6 Credit Hours**

1.	Planning and Programming for Exceptional Youth (4780)	3
2.	Emerging Trends in Special Education (4781)	3

**c. Collateral Area**

Each student will take a course (3 credit hours) from this area

1.	Discourse Analysis (4776)	3
2.	Emerging Trends in Pedagogy (4777)	3
3.	Educational Leadership & Management (4783)	3

- d.** Comprehensive Examination
- e.** Publish research article as per approved policy of Higher Education Commission.
- f.** Thesis (4785)

**Note: Admission form complete in all respect may be sent on the following address:**

**CHAIRPERSON**  
Department of Special Education,  
AIOU, H-8, Islamabad.  
Ph. 051-9250078

## 7.7 Fee Tariff for PhD Education

Registration Fee	Rs.1000/- (at the time of first admission in the university)
Admission Fee	Rs.2000/- (at the time of first admission) in the program
- 3 credit hours course	Rs.3510.00
- Thesis	Rs.27850.00
- Technology Fee	Rs. 100/- (Per Student/Semester)

## 7.8 PhD Coordinators

For clarification about academic matters, please contact on the following addresses:

1. **DNFCE Department**  
**Dr. Muhammad Ajmal Chaudhary**  
Ph: 051-9250055  
Email: [drajmal@aiou.edu.pk](mailto:drajmal@aiou.edu.pk)
2. **EPPSL Department,**  
**Dr. Afshan Huma**  
Ph: 051-9250059, 9057714  
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3. **Science Education Department**  
**Dr. Iqbal Shah**  
Assistant Professor  
Ph: 051-9057851  
E-mail: [siabal@hotmail.com](mailto:siabal@hotmail.com)
4. **Secondary Teacher Education Department**  
**Dr. Naveed Sultana**  
Ph: 051-9250057, 9057705  
Email: [drnaveeda@gmail.com](mailto:drnaveeda@gmail.com)
5. **Special Education Department**  
**Dr. Tanzila Nabeel**  
Ph: 051-9250078, 9057853  
Email: [spedu@aiou.edu.pk](mailto:spedu@aiou.edu.pk)

## 8. SPECIFIC INFORMATION

1. If a student is required to take course(s) of lower level, s/he will be allowed to do so but the credit of these courses will not be counted towards his/her PhD credits.
2. If a student has to remain absent for a period of one or more than one semesters in case of exigency or proceeding abroad, he may apply for the freezing of the period for thesis without violating the maximum period i.e. five years. The student will have to pay fee at the rate of six credit hours for the frozen period.
3. The student shall be allowed to pursue only one program at a time at AIU.
4. Fee structure of any course/thesis/seminars program may be changed during the program. Student has to deposit the required fee as intimated by the Admission Department.
5. During each semester there will be compulsory workshop of one week for each course. Only those students who qualify the assignments components will be eligible to take final examination.

## FACULTY MEMBERS

**Prof. Dr. Shahid Siddiqui**  
Dean/Vice-Chancellor  
Ph: 051-9057702

## Chairpersons of Departments

1. **Professor Dr. Nasir Mahmood**  
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Education Department  
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Secondary Teacher Education Department  
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Distance, Non-Formal & Continuing Education Department  
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Science Education Department  
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Email: siabal@hotmail.com
  6. **Dr. Afshan Huma**  
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- **Associate Professor**
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- **Assistant Professors**
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▪ **Lecturers**

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## 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 programs 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 programs. Improvement in qualifications for a better life is a right of everyone and the Faculty’s programs 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 programs 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. Shahid Siddiqui 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 program 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 programs. 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 programs 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 programs 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 program in Chemistry and Microbiology from semester Spring 2009. The four-year BS program 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 AGRICULTURAL SCIENCES (DAS)

### **Introduction:**

The Department of Agricultural Sciences (DAS) is making earnest efforts aiming at supplementing, supporting and re-enforcing extension services and offering agriculture related programs at different levels.

Agriculture progress in most developing countries has mainly involved an increase in the production of staple crops, the

introduction of industrial crops and development of livestock production.

At present, higher education in agriculture is imparted by four formal agricultural universities in Pakistan, which are not catering in-service personnel. AIOU conducted a survey to get an idea about the higher education in Agricultural Extension, Livestock Management, Forestry Extension & Rural Development and received a positive response from candidates who could not improve their qualification from formal Agricultural Universities for one or other reason and are now working in different governmental departments and NGOs.

### **Programs:**

The DAS offers the following programs /courses at different level.

#### **Programs at Postgraduate Level**

1. PhD Agricultural Extension
2. MSc (Hons) Livestock Management
3. MSc (Hons) Agricultural Extension
4. MSc (Hons) Rural Development
5. MSc Forestry Extension

Besides Postgraduate programs the department also offers Higher Secondary School Certificate (HSSC), Secondary School Certificate (SSC) and Short Term Courses.

## **1. PhD Agricultural Extension**

### **a) Introduction**

Education is a continuous life long process. It is the most effective tool of creating a high productive manpower. Agricultural Education in Pakistan needs to integrate the goals of improving human, social and ethical attributes in the students, with specific requirements to produce graduate who can perform various tasks in the agricultural economy of the country, both in the public and private sectors.

For agricultural development in the country, strong linkages amongst institution, human resource development and technology transfer are very important. The technology transfer, being a continuous process, can be done in a well-organized way through an efficient agricultural extension system where integrated roles of the scientists, the extension agents and the farmers are all importantly interlinked. The scientist on their part develops better yielding varieties and breeds of crop and animals and the extension agent, on his part convince the farmers of the products utilitarian importance. The farmer when convinced will certainly adopt innovations for his own economic betterment.

Allama Iqbal Open University being concerned with the education part of the Agricultural Extension system has launched PhD degree level program in Agricultural Extension to prepare scholars who have grasp of the discipline in general and a command over the area of specialization in particular.

### **b) Objectives:**

PhD Program in Agricultural Extension is designed to:-

- Prepare scholars who have grasp of the discipline in general and a command over the area of specialization in particular.
- Establish a cadre of specialists and professionals in the field of Agricultural Extension who can provide effective leadership in guiding and conducting quality research in Agricultural Extension.
- Provide opportunities of professional growth and development of scholars in general and in-service personnel in particular.

### **c) Admission Requirements**

1. The minimum entry requirement for admission to PhD in Agricultural Extension shall be M. Sc (Hons) Agricultural Extension with first division or 3:00 GPA.

OR

MSc (Hons) Agriculture degree with first division with deficiency courses. The deficiency courses will be given by PhD admission committee to those candidates whose basic eligible degree is other than Agricultural Extension specialization from approved courses of MSc (Hons) Agricultural Extension Program.

2. Admission will be made as per HEC criteria.
3. All rules of BASR/AIOU regarding MS/MPhil/PhD will apply to PhD Agricultural Extension Program.

#### d) Courses of PhD Agricultural Extension

The following courses will be taught in PhD Agricultural Extension program and the total credit hours are 18, according to the HEC criteria.

S. #	Courses	Credit Hours
1.	Application of Extension Methods (1742)	3 (3-0)
2.	Communication Strategies in Agricultural Extension(2527)	3(3-0)
3.	Agricultural Extension in Developing Countries (2524)	3(3-0)
4.	Diffusion of Innovation (2505)	3(3-0)
5.	Community Development and Gender Issues (1743)	3(3-0)
6.	Special Topics (1744)	3(3-0)

#### e) Semester Wise Break Up of the Courses

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

1. Application of Extension Methods (1742)
2. Communication Strategies in Agricultural Extension (2527)
3. Agricultural Extension in Developing Countries (2524)

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

1. Diffusion of Innovation (2505)
2. Community Development and Gender Issues (1743)
3. Special Topics (1744)

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

Comprehensive examination written & oral/synopsis and research work. Research in the remaining semesters as per AIOU rules.

#### Important Note:

Rules regulations framed, enhanced and changed from time to time by the authorities/bodies of the University will be applicable to all students. The students will have to abide by all such rules and regulations.

## 2. M Sc (Hons) Livestock Management

#### a) Introduction:

Being a part of Agriculture, Livestock sector plays great role in the progress of country. One cannot deny the importance of livestock because it produces a huge quantity of food, such as beef, mutton, poultry meat, milk, yogurt and lot of other milk and animal by products. Millions of acres are still being cultivated with the help of farm animal in this mechanized era. Livestock and poultry yields can be further increased if people involved in this field are better and skillfully educated regarding modern techniques.

At present, higher education in livestock is imparted by formal agricultural and veterinary universities in Pakistan, which are not catering in-service personnel. However AIOU has its own character having varieties of educational methodologies within itself. The AIOU conducted a survey to get an idea about the higher education in Livestock Management and received a positive response from candidates who could not improve their qualification from formal institutes. After which the department of Agricultural Sciences (DAS) decided to offer MSc (Hons) Livestock Management through distance learning system, especially for those who could not enhance their qualification through formal system.

**b) Objectives:**

1. To develop human resource necessary for transferring subsistence scale of livestock farming into commercial livestock production.
2. To provide an opportunity for continued professional development to the scientist in the area of marketing.
3. To provide information on the concepts of livestock development, public health and their integration in livestock production practices.
4. To create awareness about the livestock farming production, practices which will in turn promote community based livestock development.

**c) Eligibility:**

Candidates possessing DVM degree or BSc (Hons) Animal Husbandry degree equivalent to second division in Annual System (not less than 2.5 CGP) in semester system will be eligible for admission.

**d) Admission Procedure:**

- (i) Candidates must have to qualify Subject Test being conducted by the Department.
- (ii) Selection of the candidates will be made strictly on the basis of merit, which will be determined by the departmental admission committee after scrutinizing the application of the students as per AIOU MPhil admission rules.
- (iii) There will be departmental admission committee responsible to finalize the admission.
- (iv) For clarification about academic matters please contact on the following address:

**CHAIRMAN**

Department of Agricultural Sciences  
Block No.6, 1<sup>st</sup> Floor,  
Allama Iqbal Open University, H-8, Islamabad.  
Ph: 051-9057749

**Note: Admission form complete in all respect must be sent on the above address:**

**e) Scheme of Studies**

***COURSES TITLE MSc (Hons) Livestock Management  
SEMESTER WISE COURSE OFFERING***

Sr.#	Title of course	Code	Credit Hours
<b>1<sup>st</sup> Semester</b>			
1.	Biochemistry	780	3(2+1)
2.	Statistics	794	3(3+0)
3.	Meat Production	774	3(2+1)
4.	Rangeland Management in Pakistan	2501	3(3+0)
<b>2<sup>nd</sup> Semester</b>			
5.	Dairy Production	778	3(2+1)
6.	Livestock Management Practices	775	3(2+1)
7.	Small Ruminant Production	773	3(2+1)
8.	Livestock Industry	782	3(3+0)
<b>3<sup>rd</sup> Semester</b>			
1.	Thesis	797	12
<b>4<sup>th</sup> Semester</b>			
1.	Thesis	797	12

**Total 48 Cr. Hrs.**

**f) Fee Tariff:**

S.#	Item	Rates
1.	Admission fee	Rs.1000 once (at the time of 1 <sup>st</sup> admission)
2.	Registration fee	Rs.200 once (at the time of 1 <sup>st</sup> registration in the University)
3.	Each 3 Credit Hrs Course Fee	Rs.3200 per 3 credit hour course
4.	Laboratory fee/ workshop	Rs.2460/-
5.	Thesis fee	Rs.25620/- (24 credits)
6.	Thesis evaluation fee	Rs:4830/- (Payable at the time of submission of Thesis)
7.	Technology fee	Rs.100/- (per student per semester)

**g) Instructional Methodology:**

**Laboratory Works:**

The laboratory of local Animal husbandry/Veterinary Institutes/NARC universities or appropriate livestock farms will be engaged for this purpose and will be supervised by the tutors appointed by the university.

**Practical:**

The list of practical of following course codes as follows:-

**1. Dairy production (778).**

Dairy breed characteristics, selection on the basis of genotypic and phenotypic characteristics, Design and layout of modern dairy enterprise, practice of manual and machine adoption of hygienic measures at milking time, measurement of milk flow rate, least count ration formulation using computer Programs. Visit to dairy enterprises.

**2. Meat Production (774)**

Ante and post-mortem examination, slaughtering and flaying methods, determination of dressing percentage, meat grades and carcass evaluation, meat cuts, determining important physical and chemical properties of various meats. Organoleptic studies of meats, visit to slaughter house.

**3. Small Ruminant Production (773)**

Selection and judging of sheep and goats for wool, mutton and milk. Farm practices including identification, culling, dipping, deworming, trimming feet, farm visits, Preparation of feasibility reports, computerized record keeping.

Wool and hair sampling, microscopic structure of animal fibers, measurement of fiber length and diameter, detection of extractable matters, histological studies of follicles and fiber, handling, sorting, scoring, grading, packing, labeling and storage of animal fiber measurement of crimp, staple length, wool fat, suint and ash, visual grades of wool, visit to woollen mills and carpet industry and wool test house. Visit to animal fiber market.

**4. Biochemistry (780)**

Diffusion and osmosis process. Qualitative test for carbohydrate, fats and protein, Estimation of Ca and Mg in milk, urine and blood hemoglobin estimation.

**5. Livestock Management Practices (775)**

Methods of approaching, handling and restraining animals, regions and points of body, grooming and cleaning, identification of various breeds of farm animals. Methods of identification, preparing gestation charts, Determining weight of animals from body measurement, measuring physiological norms, preparing animals for shows, visit to livestock fairs.

***Workshops:***

The workshop for each course will be conducted at the end of each semester at the main campus of AIOU. Eminent subject experts in the relevant fields will deliver lectures in the workshop. Attendance in these course workshops is mandatory for each student. A student failing to attend any workshop is generally declared fail in final result.

***h) Duration of Program:***

The minimum duration of MSc (Hons) Livestock Management program shall be two years and maximum duration shall be five years. There will be two semester in each year.

1. The minimum period of the 24 credit hours course work for MSc (Hons) Livestock Management shall be two semesters (One Year).
2. In case the student fails to complete the course/research work within the prescribed maximum period, she/he has to take a fresh admission in the program.

***Thesis:***

At the beginning of the third semester, a student will be required to submit research proposal (Synopsis) to the Department. The synopsis will be prepared in accordance with the guidelines approved by the Board of Advance Studies and Research (BASR). The Department will provide guidelines for developing synopsis in the synopsis orientation workshop.

***Important Note:***

Rules, regulations framed, enhanced and changed from time to time by the authorities/bodies of the University will be applicable to all the students. The students will have to abide by all such rules and regulations.

**3. MSc (Hons) Agricultural Extension*****a) Introduction:***

Agriculture is the principal occupation and source of livelihood of great majority of rural population of the country and it is the basic and largest component of our economy in terms of production, employment and export earnings. For agricultural development in a country like Pakistan, strong linkages amongst institution human resource development and technology transfer are very important. The technology transfer being a continuous process cannot possibly take place in a vacuum. It needs to be done in a well organized system of agricultural extension where role of the scientist, the extension agent, and the farmer are all too important. The scientist must develop better yielding varieties and breeds of crops and animals, the extension agent must, on his part, equip himself with better and effective methods to convince the farmer about the product's utilitarian importance. Once convinced, the farmer will certainly adopt innovations for his own economic betterment.

Allama Iqbal Open University being concerned with the educational part of the Agricultural Extension system has therefore decided to initiate master level courses in Agricultural Extension for enhancing the knowledge and skill of the extension agents/workers already working in the field.

MSc (Hons) Agricultural Extension Program is designed for those Agriculture Graduates who are unable to continue their studies after completing BSc (Hons) Agriculture, BSc Agriculture Engineering, BSc Animal Husbandry, D.V.M. from formal Agricultural Universities and are now working in different departments, organizations, and agencies who cannot enhance their education through formal system could benefit from AIOU offer.

**b) Objectives:**

Main objectives of the program are:

1. To improve the level of knowledge and skills of the prospective students.
2. To provide skills for improving diffusion and adoption of innovations among the farming community.
3. To improve the ability and self confidence of students of Agriculture Extension to critically analyze the Agriculture Extension service and technology transfer system with a view to identify difficulties, problems and issues in promoting applied research in farming systems research and extension.
4. To promote human resource development in agricultural extension and help to meet training needs of extension field staff and rural communities.

**c) Eligibility:**

Candidates possessing BSc (Hons) Agricultural Extension degree with 2<sup>nd</sup> division.

**OR**

Other related discipline like BSc (Hons) Agriculture, Rural Sociology, Animal Husbandry, DVM, BSc Agricultural Engineering Degree in second division are also eligible for admission in MSc (Hons) Agricultural Extension, but the Admission Committee may define deficiency courses for them, if necessary.

**d) Admission Procedure:**

- (i) Candidates must have to qualify subject test being conducted by the Department.
- (ii) Selection of the candidates will be made strictly on the basis of merit, which will be determined by the departmental admission committee after scrutinizing the application of the students as per AIOU MPhil admission rules.

- (iii) There will be a departmental admission committee responsible to finalize the admission.
- (iv) For clarification about academic matters please contact on the following address:

**CHAIRMAN**

Department of Agricultural Sciences  
Allama Iqbal Open University, Sector H-8, Islamabad.

**Note: Admission form complete in all respect must be sent on the above address:**

**e) Scheme of Studies: Agricultural Extension Courses**

Sr. No.	Title of course	Code	Credit Hours
<b>Semester 1</b>			
1	Agriculture Extension Education	795	3(3+0)
2	Extension Program Development	796	3(3+0)
3	Evaluation Research	2525	3(3+0)
4	Agricultural Extension Systems	2526	3(3+0)

<b>Semester 2</b>			
5	Scientific and Technical Writing in Agriculture Extension	2518	3(3+0)
6	Adult Learning & Rural Development	799	3(3+0)
7	The Process and Strategies of Communication in Agriculture Extension	2518	3(3+0)
8	Human Resource Development	1793	3(3+0)

<b>3<sup>rd</sup> and 4<sup>th</sup> Semester</b>			
	Thesis (2536)	24	Cr Hr

**Total 48 Cr. Hrs.**

**f) Fee Tariff:**

Sr.#	Item	Rates
1.	Registration fee	Rs.200/- (Once at the time of first admission)
2.	Admission fee	Rs.1000/- (Once at the time of first admission)
3.	Each Course fee	Rs.3200/- per 3 credit hour
4.	Thesis fee	Rs.25620 /- (12+12 Credit Hour course)
5.	Thesis evaluation fee	Rs.4830/- (at the time of submission of the thesis)
6.	Technology fee	Rs.100/- (per student per semester)

*Note: Only selected candidate will deposit the fee after receiving the intimation letter from the admission department.*

**g) Instructional Methodology:**

***Duration of program***

The minimum duration of MSc (Hons) Agricultural Extension Programs shall be 4 semesters (two years) and maximum duration shall be 10 semesters (five years).

The minimum period of the 24 credit hours course work for MSc (Hons) Agricultural Extension shall be two semesters (One Year).

In case the student fails to complete the course/research work within the prescribed maximum period, she/he has to take a fresh admission in the program.

***Workshop:***

The student will have a total of two chances to attend and pass the workshop of the course concerned. Passing the workshop will be pre-requisite for appearing in the final examination of the course. In exceptional circumstances a special chance may be allowed by the Vice-Chancellor on the recommendation of the Chairman.

***Thesis:***

At the beginning of the third semester, a student will be required to submit research proposal (synopsis) to the Department. The synopsis will be prepared in accordance with the guidelines approved by the Board of Advanced Studies and Research (BASR). The Department will provide guidelines for developing of synopsis in the synopsis orientation workshop.

***Viva Voce:***

If the thesis is approved by the external evaluators, student has to appear before viva voce committee to defend his/her thesis.

***Important Note:***

Rules, regulations framed, enhanced and changed from time to time by the authorities/bodies of the University will be applicable to all the students. The students will have to abide by all such rules and the regulations.

## **4. MSc (Hons) Rural Development**

### **Introduction:**

Despite the existence of large urban centers, Pakistan is still predominantly a rural society with approximately 70 percent of the population living in the rural areas. Rural development implies comprehensive and sustainable development for people and places in rural areas. It depends on several interrelated components including development appropriate production technology, dissemination of modern technology to the farming community, formulation of suitable policies for growth in the farm and rural non-farm economies, conservation and sustainable use of natural resources, and provision of infrastructure and social services. All countries in the world are subject to continual social and economic change, and the rural sectors of developing countries and countries in transition are pivotal in this process. It is recognized that in a context of increasing globalization and understanding of the underlying driving forces of this process and its consequences is critical.

Achieving rural development and responding to these global challenges will require trained professionals with a wide range of relevant expertise. These are needed to work in government agencies, non-governmental organization (NGOs) and in the private sector. Professionals are needed who can formulate appropriate policies, plans, design and implement development projects, disseminate appropriate technology and information to farmers and small-scale entrepreneurs and manage business and the efficient delivery of services in rural areas. Recognizing the growing needs and requirements for trained professionals in rural development AIOU has decided to initiate a Masters level

program in Rural Development. This program provides graduates with an interdisciplinary base from which to approach the diverse issue involved in rural change. It is designed for students interested in pursuing careers that are interactive with the potential and problems associated with the rural sector. The program is multidisciplinary in its course contents, and will provide an opportunity for in depth study of the key elements of rural development and relevant professional practice.

### **b) Objectives:**

The program gives students the opportunities to develop:

- A critical awareness of the social, economic and management issues underlying socio-economic change.
- Conceptual and analytical skills relevant to the social and economic dimensions of agriculture and related industries.
- A set of potential skills pertinent to working in the public private or NGO domains.
- The ability to change with, and influence, rational debates concerning the optimal direction of rural sector change.
- Sufficient knowledge and understanding of the major problems socio-cultural and economic conditions of rural areas in Pakistan.

### **c) Eligibility:**

BSc (Hons) Agriculture/D.V.M./Animal Husbandry/ Agriculture Engineering degree in 2<sup>nd</sup> division or MA/MSc in Social Work/Sociology/Rural Sociology/Anthropology/Forestry/ Forestry Extension/Developmental Studies/Environmental Sciences/Economics/HRD/NRM/Business Management degree with second division/ 2.5 CGPA.

**d) Scheme of Studies:**

Sr. #	Title of course	Code	Credit Hours
<b>Semester 1</b>			
1.	Sustainable Rural Development	1790	3(3+0)
2.	Regenerating Agriculture	1791	3(3+0)
3.	Rural Poverty Alleviation	1792	3(3+0)
4.	Human Resource Development	1793	3(3+0)
<b>Semester 2</b>			
5.	NGO Management	1794	3(3+0)
6.	Research for Development	1795	3(3+0)
7.	Natural Resources Management	1796	3(3+0)
8.	Managing Projects in Rural Development	1797	3(3+0)

**Thesis in 3<sup>rd</sup> and 4<sup>th</sup> Semesters****e) Admission**

- i. Selection of the candidates will be made strictly on the basis of merit, which will be determined by the departmental admission committee after scrutinizing the application of the students as per AIOU M. Phil admission rules.
- ii. Rules, regulations final, enhanced and changed from time to time by the authorities/bodies of the University will be applicable to all the students. The students will have to abide by all such rules and the regulations.
- iii. For clarification about academic matters please contact on the following address:

**CHAIRMAN**

Department of Agricultural Sciences  
AIOU, H-8, Islamabad Ph: 051-9250064

**Note: Admission form complete in all respect must be sent on the above address:**

**f) Fee Tariff: MSc (Hons) Rural Development**

Sr. #	Item	Rates
1.	Admission fee	Rs.1000/-
2.	Registration fee	Rs.200/-
3.	Course Fee	Rs.3200/- (per 3 credit hour Course)
4.	Thesis Fee	Rs.25620/-
5.	Thesis Evaluation fee	Rs.4830/-
6.	Technology fee	Rs.100/- (per student per semester)

**Note:** Only selected candidate will deposit the fee after securing the intimation letter from the admission department).

**g) Instructional Methodology:****Workshop:**

The student will have a total of two chances to attend and pass the workshop of the course concerned. Passing the workshop will be pre-requisite for appearing in the final examination of the course. In exceptional circumstances a special chance may be allowed by the Vice-Chancellor on the recommendation of the Chairman.

**Duration of Program**

The minimum duration of MSc (Hons) Rural Development shall be two years and maximum duration shall be five years. There will be two semesters in each year.

The minimum period of the 24 credit hours course work for MSc (Hons) Rural Development shall be two semesters (One Year).

At the beginning of the third semester, a student will be required to submit research proposal (synopsis) to the Department. The synopsis will be prepared in accordance with the guidelines approved by the Board of Advanced Studies and Research (BASR). The Department will provide guidelines for developing the research proposal in the synopsis orientation workshop.

**Viva Voce:**

If the thesis is approved by the external evaluators, student has to appear before viva voce committee to defend his/her thesis.

## 5. FACULTY MEMBERS:

1. Prof. Dr. Naghmana Rashid  
Chairperson  
Department of Agricultural Sciences  
Phone: +92-51-9250064, 9057750
2. Dr. Shafique Qadir Memon  
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6. Dr. Muhammad Tarique  
Lecturer/HEC Approved Supervisor  
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7. Dr. Sabir Hussain Shah  
Assistant Professor  
Ph: 051-9057725  
[sabir.hussain@aiou.edu.pk](mailto:sabir.hussain@aiou.edu.pk)
8. Ms. Mahwish Siraj  
Lecturer  
Ph: 051-9057749

## DEPARTMENT OF COMPUTER SCIENCE

### Introduction:

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

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

Besides graduate and undergraduate teaching, the department is actively involved in research and development. For this purpose, Multimedia Centre and Open Learning Institute of Virtual Education (OLIVE) have been established under the umbrella of the department. The Multimedia center is equipped with

technology related to Audio/Video production. It has successfully developed multimedia courseware for more than 20 courses, whereas OLIVE provided a framework for electronic delivery of these courses in online mode. In addition to research activities in the area of software engineering communication, networking, and multimedia, the department focuses on the e-learning research in instruction design, communication, course management, e-assessment, mobile learning and web technologies integration.

The University has also developed linkages with San Jose' State University (SJSU) USA and Kent State University, USA. KSU is located in the heart of Silicon Valley and Kent State has strong education college with Technology Research Centers.

**Aims and Objectives:**

The principal aim of the Department of Computer Science is to produce graduates with a professional education and to undertake quality research in Computer Science and Related Information Technology areas. The specific objectives are to:

1. Maintain an excellent reputation and professional accreditation for its taught degree programs
2. Disseminate an appreciation of the current state and future directions of technological advances in the areas of Computer Science, Information Technology and e-learning.
3. Equip students with computer science knowledge and skills so as to cope with the social, economic, scientific, and technological challenges of the world outside.
4. Develop platform and systems for e-learning/mechanism for electronic delivery of courses to increase outreach to rural and remote areas.

5. Conduct research in areas of e-learning, multimedia instructional design; web based education, mobile learning and related areas in software engineering, information technology, and computer science.
6. Assist other departments and individuals to implement modern ICT in educational delivery.
7. Provide a leadership support in ICT based education in Pakistan

**1. MS (Computer Science)**

**a) Introduction:**

The MS (Computer Science) program is offered at the Department of Computer Science at main campus Islamabad. It is a mix of courses and research degree. The program also meets requirement of the Higher Education Commission. It comprises of 24 credit hours course work, followed by 12 credit hours research work (Thesis). Therefore, a good mix of course work and research work will certainly add to professionalism among research students in the field of Computer Science. Many innovative research projects in education, CS and IT have been completed.

The Allama Iqbal Open University uses modern pedagogical methods for teaching. Keeping the requirements of MS (Computer Science) program courses, face-to-face classes are conducted at the Department of Computer Science, Main Campus, H-8, Islamabad. The online classes may also be conducted for selected courses, where faculty is teaching from abroad/other institutions in Pakistan. Additionally, video conferencing support is also available for online classes in live mode.

**b) Objectives:**

The objectives of the program are to:

- 1) Facilitate students to acquire knowledge, techniques and skills necessary to become practitioners in the field of Computer Science, Information Technology, Multimedia, and Software Engineering.
- 2) Guide students to appreciate and acquire research skills in related areas.
- 3) Facilitate students with indigenous research and development projects for better training and education.

**c) Salient Features:**

- 1) Regular classes at the main campus in the evening.
- 2) In-line with Higher Education Commission recommendations.
- 3) Focused research on interactive systems design for civic society.
- 4) Video conferencing facility and focused departmental library available at the department.
- 5) Course materials, reference books are provided by the university.

**d) Eligibility:**

A candidate is eligible to apply for MS (Computer Science) program having any of the following criteria from HEC recognized university/institute with minimum 60% marks:

- 1) Masters degree in Computer Science/Information Technology/Software Engineering (16 years).
- 2) Four years bachelor degree in Computer Science/Information Technology/Software Engineering (16 years) with minimum 130 credit hours.

**e) Selection Criteria:**

Candidate must have to qualify subject test conducted by Department of Computer Science. The short listed candidates

will be interviewed by the Admission Committee for merit based final selection as per university rules.

**f) Scheme of Studies:**

**Semester-1**

Course Code	Title	Credit Hours
5700	Theory of Computation	3(3+0)
5701	Advanced Algorithm	3(3+0)
5703	Research Study	3(3+0)
	Elective-I (select any first course from the given specialization)	-

**Semester-2**

Course Code	Title	Credit Hours
	Elective-II	-
	Elective-III	-
	Elective-IV	-
	Elective-V	

**Semester-3**

5745	Thesis Part-I	6(0+6)
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**Semester-4**

5745	Thesis Part-II	6(0+6)
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**1. Specialization:**

Department of Computer Sciences is going to introduce several stream of specialization in the recent advance research areas. The optional course list is distributed in to the following major areas:

**1) Computer Science**

Course Code	Title	Credit Hours
5702	Distributed System	3(3+0)
5718	Case Tools & Applications	3(3+0)
5725	Web Based Education System	3(3+0)
5727	Measurement of Learning	3(3+0)
5728	Interactive Web Systems	3(3+0)
5729	Advanced Topics in Computer Science Edu.	3(3+0)

**2) Software Engineering & Quality Assurance**

5704	Object Oriented Software Engineering	3(2+1)
5705	Software Project Management	3(2+1)
5706	Software Quality Assurance	3(2+1)
5707	Software Engineering Laboratory	3(0+3)
5708	Advanced Topics in Software Engineering	3(3+0)

**3) Information Security Management**

5717	Information System Security	3(3+0)
5735	Internet Service Planning	3(2+1)
5709	Advanced Computer Networks	3(3+0)
5710	Data Security and Encryption	3(3+0)
5711	Advanced Network Security	3(3+0)

**4) Information Technology**

5715	Distributed Database	3(3+0)
5716	Data Warehousing and Mining	3(3+0)
5719	Advanced Topics in DBMS	3(3+0)
5736	E-Commerce Application	3(3+0)
5737	Advanced Topics in ITM	3(3+0)

**5) General**

Code	Title	Cr. Hr.
5702	Distributed System	3(3+0)
5704	Object Oriented Software Engineering	3(2+1)
5705	Software Project Management	3(2+1)
5706	Software Quality Assurance	3(2+1)
5707	Software Engineering Laboratory	3(0+3)
5708	Advanced Topics in Software Engineering	3(3+0)
5715	Distributed Database	3(3+0)
5716	Data Warehousing and Mining	3(2+1)
5717	Information System Security	3(3+0)
5718	Case Tools & Applications	3(3+0)
5719	Advanced Topics in DBMS	3(3+0)
5725	Web Based Education System	3(3+0)
5726	Computer Aided Instructions	3(3+0)
5727	Measurement of Learning	3(3+0)
5728	Interactive Web Systems	3(3+0)
5729	Advanced Topics in Computer Science Edu.	3(3+0)
5735	Internet Service Planning	3(2+1)
5736	E-Commerce Application	3(3+0)
5737	Advanced Topics in ITM	3(3+0)
5709	Advanced Computer Networks	3(3+0)
5710	Data Security and Encryption	3(3+0)
5711	Advanced Network Security	3(3+0)

**Note:**

1. The scheme of studies may be altered by the Chairman, Computer Science Department at the time of program offering for smooth running of the program and keeping in view the academic requirements. However new university rules will be applicable as and when approved.
2. The MS (CS) Program shall be completed within 5 years.
3. The student have to attend a compulsory workshop in 2<sup>nd</sup>/3<sup>rd</sup> semester to develop thesis proposal.

The Department of Computer Science reserves the right to offer or may not offer specializations/listed course(s) depending upon the available faculty/laboratory resources and viable student's enrollment.

**Courses Offered in Spring 2016 (fresh admissions)**

Code	Title	Credit Hours
5700	Theory of Computation	3(3+0)
5701	Advanced Algorithm	3(3+0)
5703	Research Study	3(3+0)
	Elective-I	3(3+0)

Elective-I course should be selected (1<sup>st</sup> course) from the given specialization as mentioned earlier.

**h) Instructional Methodology:**

**Face-to-Face/Online classes:**

Regular classes will be conducted in the evening at the Department of Computer Science, main campus, Islamabad. Minimum 70% attendance is compulsory in each course during a semester. The online classes may also be conducted for selected courses, where faculty is teaching from abroad/other institutions in Pakistan. Additionally Video/Tele conferencing support is also available for online classes. Recommended reference materials where applicable for each registered course are provided to each student before commencement of the classes. Multimedia Courseware CDs are prepared by the Department of Computer Science, for selected courses will also be provided. The faculty members may suggest research articles and other reference material, which may be available on the digital library/internet. The students are required to pass 24 credit Hours course work within 2 years as per university rules.

**MS Research Work:**

The department gives significant importance to original research; therefore, it has developed necessary infrastructure to carry out research work at the campus. State of the art ICT laboratory facilities are available to conduct research in multimedia, instruction design, e-Learning, e-Assessment, ICT in education, Interactive internet based systems, and related areas of computer sciences. Fully equipped TV and radio studios are also available at the campus for research students.

Each MS student has to undertake (one year) 12 credit hours research work in the 3<sup>rd</sup> and 4<sup>th</sup> semester. A synopsis orientation workshop will be organized for the students to interact with experts and supervisors. In the workshop, those students will listen to new research ideas and interactively develop research proposals. The research topic, supervisor, and synopsis of the desired research shall be presented to departmental synopsis committee. The students are expected to complete their research work within one year. Students are encouraged to contact possible research supervisor well before the start of research to develop a good proposal.

**i) Assessment:**

**Course work assessment**

The following assessment criteria are applied to MS level course work:

Course Type	Continuous assessment during semester		Final
	Assignments	Mid-Term/ Presentation/Quiz	
Face-to-face	10%	20%	70%
Online	10%	20%	70%

**Note:** The pass percentage in each component (continuous and final) is 50%. However, student may seek to get 70% marks if they desire to take admission in PhD program later on.

**Research Work Assessment:**

Each MS (CS) student shall submit thesis on completion of the research work undertaken. The university will evaluate the thesis as per university rules by external experts in the subject area. After the recommendation of the external evaluators, the student needs to defend his/her thesis before the viva voce committee. The MS/M. Phil rules and regulations of the university will apply to MS (CS) students.

**j) Applying/Admission Procedure:**

The completely filled original admission form shall be submitted to following address on or before the closing date of admission without depositing fee.

**CHAIRMAN**  
 Department of Computer Sciences  
 Prof. Dr. N. A. Sangi  
 drsangi@aiou.edu.pk  
 Contact#: 051-9057782

For further information, you may contact the department e-mail dcs@aiou.edu.pk or by telephone 051-9057260, 9057402 or 051-9250093.

**Important Note:**

Rules, regulations framed, enhanced and changed from time to time by the university will be applicable to all students. The students will have to abide by all such rules and regulations.

**g) Fee Tariff:**

The fee structure for MS level courses is given below:

Description	Fee
Registration Fee (If not registered)	Rs.200 (once at the time of 1st admission in the university)
Admission Fee	Rs.1000 (once at the time of admission in the program)
Technology fee (per student per semester)	Rs.100/-
Course Fee without lab component	Rs.6490/- (per 3 credit hours course)
Course Fee with lab. component	Rs.8090/- (per 3 credit hours course)
Security (Refundable)	Rs.5,000 (payable once at the time of admission)
Library Membership	Rs.200 per semester
Research Registration of Thesis in Semester-3	Rs.32100/-
Research Registration of Thesis in Semester-4	Rs.32100/-

Thesis evaluation fee will be charged as per university rules payable at the time of submission of the thesis.

**First Semester Fee**

S.#	Description	Fee (Rs.)
1	Registration Fee (If not registered)	200/-
2	Admission Fee (once at the time of Admission)	1000/-
3	Technology fee (per student per semester)	100/-
4	Course Fee @ Rs.6490 per course for 4 courses	25960/-
5	Security (Refundable)	5000/-
6	Library Membership	200/-
<b>Total</b>		<b>32460/-</b>

## **2. PhD (Computer Science)**

### **Introduction:**

Allama Iqbal Open University (AIOU) is proud to offer a unique localized PhD program using modern technologies. The program is open to faculty members and professionals of all Pakistani universities. Course work is offered through Video Conference or using OLIVE e-learning (synchronous meeting over Internet). Distance lectures will be delivered by faculty members from Pakistani and Foreign Universities. A local Associate Faculty member will be provided to all expert faculty members. Associated Faculty members will work with foreign faculty to take responsibility of course work and assist in administrative and teaching assignments etc. All assessments will be performed by the expert faculty members as per rules of the university.

### **Program Objectives:**

The objectives of the program are to:

1. Facilitate faculty to acquire research knowledge, techniques and skills necessary to become to the level of research maturity.
2. Provide in time and appropriate assistance to acquire research talents in computer science field.
3. Facilitate faculty with indigenous research and development projects for better training and education.

### **Eligibility:**

A candidate is eligible to apply for PhD (Computer Science) program having MS in the relevant field or equivalent level with minimum CGPA of 3.0 out of 4.0 or 70% marks.

### **Applying/Admission Procedure:**

The completely filled original admission form along with all academic credentials shall be submitted directly to the Directorate of BASR, Allama Iqbal Open University, H-8, Islamabad on or before the closing date of admission **without depositing fee.**

### **Selection Criteria:**

The candidate who has cleared the departmental subject test will be considered for interview. The short listed candidate(s) will appear before the Admission Committee for merit based final selection as per university rules.

### **Scheme of Studies:**

<b>Semester 1</b>		
<b>Code</b>	<b>Course Title</b>	<b>Credit Hrs</b>
	PhD Elective I	3 (3 + 0)
	PhD Elective II	3 (3 + 0)
	PhD Elective III	3 (3 + 0)

### Semester 2

Code	Course Title	Credit Hrs
	PhD Elective IV	3 (3 + 0)
	PhD Elective V	3 (3 + 0)
	PhD Elective VI	3 (3 + 0)

**Subtotal 18 Credit Hours (Course work)**

### Semester 3: Research Work

Code	Course Title	Credit Hrs
5750	PhD Thesis	6 <sup>1</sup>

### Semester 4: Research Work

Code	Title	Credit Hrs
5750	PhD Thesis	6

### Semester 5: Research Work

Code	Title	Credit Hrs
5750	PhD Thesis	6

### Semester 6: Research Work

Code	Title	Credit Hrs
5750	PhD Thesis	6

**Subtotal 24 Credit Hours (Thesis work)**

**Total 42 Credit Hours**

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<sup>1</sup> Total thesis work is of 24 credit hours which is distributed among last two years (four semesters).

### PhD Courses List (Elective):

The following is list of elective courses for PhD course work (18 Credit Hours to be taken).

S. No	Course Titles	Code	Credit Hours
1.	Software Development: Tools & Processes	7701	3
2.	Advanced Database System Design	7702	3
3.	Advanced Data Mining	7703	3
4.	System Simulation	7704	3
5.	Internet Systems and Application	7705	3
6.	Topics in Video Computing	7706	3
7.	Image and Video Compression	7707	3
8.	Digital Image Processing	7708	3
9.	Multimedia Systems	7709	3
10.	Computer Animations in Education	7710	3
11.	Philosophy of Cognition	7711	3
12.	Educational Technology: Design & Evaluation	7712	3
13.	Topics in Machine Learning	7713	3
14.	Knowledge Engineering	7714	3
15.	PhD Research Seminar I/Research Paper I	7715	NC
16.	PhD Research Seminar II/Research Paper II	7716	NC

**Note:** PhD seminars will be delivered by students so that their program is effectively monitored. Department will monitor and make arrangements for this noncredit activity. Conference presentations will be encouraged.

The scheme of study may be altered by the Chairman/Incharge Computer Science Department at the time of program offering for smooth running of the program and keeping the academic requirements.

## **Course Outlines:**

### **Software Development: Tools & Processes**

Formal Methods of Specification, Software Re-Use, Software Reengineering, Client-Server and Web-Based Software Engineering, Computer-Aided Software Engineering, Software Processes Improvement, Software Process Standardization CMMI Approach, Software Process Standardization Spice Approach, Software Process Authoring through Eclipse Process Framework

### **Advanced Database System Design**

Relational Algebra and TUPLE Calculus, Advance SQL, ERD and Enhance ERD, Higher Normal Forms, Transaction Management and Concurrency Control, Query Processing, Security, Distributed Database Concept and Design, Replication and Mobile Database

### **Advanced Data Mining**

Data Mining Algorithms, Data Stream Processing, Time Series and Sequence, OLAP Technologies, Data Cube Computation, Mining Frequent Patterns, Cluster Analysis, Real Machine Learning for Data Mining, Ubiquitous Data Mining, Multi Dimensional Analysis of Data, Synopsis, Sliding Window, Dimensionality Reduction

### **System Simulation**

Introduction to Simulation Modeling, Quick Review of Basic Probability and Statistics, Fundamental Simulation Concepts, Probability Distributions and Input Modeling, Generating Uniform and Non-Uniform Random Varieties, Building Simulation Models Using Simulation Tool (Arena, MATLAB etc), Output Data Analysis for Simulations, Monte Carlo Simulation: Practical Example, Variance-Reduction Techniques

### **Internet Systems and Application**

Introduction to Internet and Web Technology, Emergent Systems, Dominant Applications, Infrastructure, Measurements, Security, Caching Infrastructure, Content Distribution Network, Inter-Autonomous System Trust Management

### **Topics in Video Computing**

Introduction to Video Processing, Video Processing Advanced Topics, Latest Research Trends in Video Processing, Video Analysis, Computer Vision Advanced Topics, Relationship of Computer Vision Video Analysis, Editing Style and Techniques, Graphics Techniques, Advanced Video Productions

### **Image and Video Compression**

Introduction to Lossless Compression Techniques, Audio/Speech Coding, Vector Quantization, Fractal Compression, Still Image Compression Techniques, Jpeg and Jpeg 2000, Video Compression Techniques, Mpeg Standard For Video Compression, Video Transmission Over Wired Network, Video Transmission Over Wireless Network

### **Digital Image Processing**

2-D Sequences and Systems, Separable Systems, Projection Slice, Reconstruction from Projections and Partial Fourier Information, Z Transform, Different Equations, Recursive Computability, 2D DFT and FFT, 2D FIR Filter Design, Human Eye, Perception, Psychophysical Vision Properties, Photometry and Colorimetric, Optics and Image Systems, Image Enhancement, Image Restoration, Geometrical Image Modification, Morphological Image Processing, Half Toning, Edge Detection, Image Compression, Scalar Quantization, Loss Less Coding, Huffman Coding, Arithmetic Coding Dictionary Techniques, Wave Form and Transform Coding DCT, KLT, Hadammard, Multi Resolution Coding Pyramid, Sub-Band

Coding, Fractal Coding Vector Quantization, Motion Estimation and Compensation, Standards: JPEG, MPEG, H.XXX, Pre- And Post Processing, Callable Image and Video Coding, Image and Video Communication over noisy Channels.

**Multimedia Systems**

Introduction and application of multimedia systems, Their historical context, Digital representation and requisite hardware, Multimedia software, tools and OCR software, Multimedia authoring and types of authoring tools, Vector graphics and bitmapped graphics, Resolution, image compression and manipulation, Digitization and processing of audio, Combining audio and video and multimedia databases, Multimedia and Internetworking

**Computer Animation in Education**

Advanced Topics in Animation, Learning Process and Animation, Key Framing, Procedural Methods, Motion Capture and Simulation, Automatically Generated Control Systems, Dynamic Simulation of Flexible and Rigid Objects, Evolution of Behaviors, Case Studies

**Philosophy of Cognition**

Philosophy and Education, Challenge for a Contemporary Philosophy, Current Research Trends in Philosophy of Cognition, Consciousness and its Implication, Mental Representation, Interpretability of Various Computational Models of Thought and Concept, Compositionality of Thought, Case Studies

**Educational Technology: Design and Evaluation**

Introduction to Educational Technology, Learner-centered Design, Learning Needs and Requirements, Learning with Software, Design Principles, Evaluation of Educational Software, Evolution Methods Log File Analysis, Case Study

**Advanced Topics in Machine Learning**

Concept Learning and the General-to-Specific Ordering, Decision Tree Learning and Artificial Neural Networks, Evaluating Hypotheses and Bayesian Learning, Computational Learning Theory, Instance-Based Learning, Genetic Algorithms, Learning Sets of Rules, Analytical Learning, Combining Inductive and Analytical Learning, Reinforcement Learning

**Knowledge Engineering**

Knowledge Engineering Concepts, AI Learning Techniques, Automatic Learning Techniques, Multi Agent Systems, Intelligent search or Method Techniques, Knowledge Systems, Machines Learning Techniques, Artificial Life, Automatic Thesauri Building and Operational Research in Knowledge Management for particular disciplines

**Conduct of Classes/Mode of Teaching:**

Classes will be conducted through video conferencing or OLIVE e-learning to nationwide scholars admitted. The classes will be delivered by faculty from various national and international well-known universities. All the participating universities will be connected via AIOU link. Lectures will also be recorded and broadcast, which may be available on the digital library/Internet.

**Assessment:**

**Course Work Assessment**

The following assessment criteria are applied to PhD level course work:

Continuous Assessment During Study Period		Final
Assignments/ Quizzes	Mid-Term/ Presentation/Workshop	
20%	30%	50%
20%	30%	50%

**Note:**

- The Mid-Term/Presentation/Workshop will be defined by the teacher concerned.
- The pass percentage in each component (continuous and final) is 50%.

**Research Work Assessment**

Each PhD (CS) scholar shall submit thesis on completion of the research work under taken. The university will evaluate the thesis as per university rule by three foreign experts in the subject area. After the recommendation of the external evaluators, the scholar needs to defend his/her thesis before the viva voce committee. The PhD rules and regulations of the university will apply to PhD (CS) scholars. Each PhD scholar shall follow the prescribed process of the University for undertaking his/her research work.

**Synopsis Workshop**

The Department will arrange a two-week synopsis orientation workshop helping students to identify their topic of research and develop the synopsis. Attendance in this workshop is mandatory. The resource person may deliver lectures through video conferencing/face to face.

**Synopsis Approval**

Synopsis will be approved by Board of Advance Studies & Research (BASR) after recommendations by the Departmental Synopsis Committee.

**Thesis Supervision**

The candidate will have a qualified supervisor as identified by the student. The supervisor is appointed by BASR.

**Thesis Evaluation**

On completion of research work, the scholar will submit his/her thesis copy to the department along with a signed certificate from thesis supervisor. The same will be forwarded to Controller of Examinations through Dean Faculty of Science. The thesis will be evaluated from three external foreign evaluators from approved panel of experts from technologically advanced countries as per university criteria.

**Award of Degree:**

On successful completion of the research thesis and other requirements, the PhD degree will be awarded by the University.

**Fee Tariff:**

The fee structure for PhD level courses is given below:

Description	Fee (Rs.)
Registration Fee (If not registered)	1000/- (once at the time of first admission in the university)
Admission Fee	1000/-
Technology Fee	100/- per semester
Course Fee	8400/-per course
Security ( <i>Refundable</i> )	5,000/- (once at the time of 1 <sup>st</sup> admission in program)
Library Membership	500/- per semester
Research Registration of Thesis in Semester-3	33,600/-
Research Registration of Thesis in Semester-4	33,600/
Research Registration of Thesis in Semester-5	33,600/
Research Registration of Thesis in Semester-6	33,600/

**First Semester Fee**

S. No	Description	Fee (Rs.)
1	Registration Fee (If not registered)	1000/-
2	Admission Fee (one at the time of Admission)	1000/-
3	Technology Fee (per semester)	100/-
3	Course Fee @ Rs.8400/- course for 3 courses	25,200/-
5	Security (Refundable)	5,000
6	Library Membership	500
<b>Total</b>		<b>32,800/-</b>

For further information, you may contact the department by e-mail: [dcs@aiou.edu.pk](mailto:dcs@aiou.edu.pk) or by telephone 051-9250091 or 051-9057260.

**Faculty Members:****Contact Addresses (Academics)**

1.	<b>Prof. Dr. Naghmana Rashid</b> Dean Faculty of Sciences Contact#: 051-9057729
2.	<b>Prof. Dr. N. A. Sangi</b> Chairman nazir_sangi@hotmail.com Contact#: 051-9057809
3.	<b>Prof. Dr. Skiandar Hayat Khiyal</b> Adjunct Professor m.sikandarhayat@yahoo.com
4.	<b>Dr. Amjad Mehmood</b> Adjunct Professor amahmood@itc.uob.bh Department of Computer Science, University of Bahrain, State of Bahrain

5.	<b>Dr. Rahat Bukhari</b> Adjunct Professor bokhari_bokhari@yahoo.co.uk Ex. Director, Computer Center, Quid-e-Azam University, Islamabad
6.	<b>Dr. Mujahid Alam</b> Adjunct Professor mujahidalam@hotmail.com
7.	<b>Dr. Iftikhar Azeem Niaz</b> Adjunct Professor ianiaz@yahoo.com
8.	<b>Dr. M. Naveed Baqir</b> Adjunct Professor mnbaqir@yahoo.com Star Chief Information Officer, Star Group, USA.
9.	<b>Dr. Moiz Uddin Ahmed Siddiqui</b> Assistant Professor, DCS, AIOU moiz_ahm@aiou.edu.pk Contact#: 051-9057259
10.	<b>Mr. Mohammad Qasim Khan</b> Assistant Professor, DCS, AIOU qasim@aiou.net.pk Contact#: 051-9057260
11.	<b>Dr. Muhammad Arshad Awan</b> Assistant Professor, DCS, AIOU m_arshad@aiou.edu.pk Contact#: 051-9057790
12.	<b>Mr. Ch. M. Shahbaz Anjum</b> Lecturer, DCS, AIOU ch_shahbazanjum@hotmail.com Contact#: 051-9057780

## 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 Programs**

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

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

All the courses and programs 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 programs are offered at main campus only. However, in near future, the Department also intends to offer degree programs at regional headquarters.

### **1. MPhil Statistics**

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

The MPhil Statistic program is being offered in the Department of Statistics, Main Campus, AIOU, Islamabad since 2001. This program meets the challenging requirements of today's fast growing world demands. It also provides the experts not only in the field of statistics but also in other allied social and science disciplines.

The Department has its own computer laboratory enriched with high speed latest computers, multimedia, and latest statistical softwares. Furthermore, the Video Conference facility is also available.

**Salient Features:**

- Face to Face learning from highly qualified faculty.
- Two workshops each of duration 15 days are arranged at main campus to cover the contents of each course.
- Availability of high speed internet and enriched library facility at AIOU.
- Hostel facility is also available on nominal payment during the workshops.

**b) Objectives:**

The main objectives of MPhil Statistics program are:

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

**c) Eligibility:**

The candidates must have MSc Statistics/BS Statistics (four years) degree from any HEC recognized university/institute with minimum 2.5 CGPA (in semester system) or 2<sup>nd</sup> Division (in annual system). Both in-service and fresh candidates can apply for admission.

**d) Duration:**

The minimum duration of MPhil program is 4 semesters (two years) and maximum duration is 10 semesters (five years).

**e) Scheme of Studies:****(i) The Semester Wise Course Offering (M. Phil)**

Code	Title	Credit Hours
<b>1<sup>st</sup> Semester (Spring)</b>		
1732	Probability and Stochastic Processes	3(3+0)
1739	Advanced Econometrics	3(3+0)
-	Elective-I	3(3+0)
-	Elective-II	3(3+0)

**Sub Total: 12(12+0)**

**2<sup>nd</sup> Semester (Autumn)**

Code	Title	Credit Hours
1735	Statistical Inference	3(3+0)
1736	Research Methods	3(3+0)
-	Elective-III	3(3+0)
-	Elective-IV	3(3+0)

**Sub Total: 12(12+0)**

**3<sup>rd</sup> Semester (Spring)**

Code	Title	Credit Hours
1737	Research Thesis	12(12+0)

**Sub Total: 12(12+0)**

**4<sup>th</sup> Semester (Autumn)**

Code	Title	Credit Hours
1737	Research Thesis	12(12+0)

**Total Credit Hours: 48**

**Elective Courses:**

Following is the list of elective courses for MPhil Statistics program:

Sr. No.	Course Title	Course Code	Credit Hours
1	Numerical Analysis	1733	3(3+0)
2	Linear Models	1738	3(3+0)
3	Multivariate Methods	1740	3(3+0)
4	Multivariate Analysis	1741	3(3+0)
5	Advanced Experimental Design	1801	3(3+0)
6	Categorical Data Analysis	1802	3(3+0)
7	Survey Sampling	1803	3(3+0)
8	Statistical Pattern Recognition	1804	3(3+0)

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

**(ii) Synopsis/Research Work:**

After completion of twenty four credit hours of course work, a student will embark upon research of 24 credit hours for two semesters. After the receipt of admission list of third semester, the department will hold two-weeks Synopsis Orientation Workshop (SOW). Only those students will be eligible to attend the synopsis orientation workshop who qualified/passed at least 12 credit hours course work including Research Methods (1736). The purpose of this workshop is to guide the MPhil scholars in finalizing their Synopsis/Research topics. Participation in the SOW will be mandatory. Research scholars are supposed to develop and present their synopsis before the Research Proposal Committee (RPC). Finally, the recommended topic of synopsis/research by RPC will be forwarded to the competent authority for approval as per MPhil rules and regulations of AIOU, Islamabad.

**f) Fee Tariff:**

Tuition Fee	Fee @	Fee/Semester
	Rs.6150/- (3 Credit Hours)	Rs.24600/- (12 Credit Hours)
Registration fee (payable at the time of first admission only)	Rs.1,000/-	Rs.1,000/-
Technology fee (per student per semester)	Rs.100/-	Rs.100/-
Admission fee (payable at the time of first admission)	Rs. 1,000/-	Rs. 1,000/-
<b>First Semester Fee</b>		<b>Rs.26,700/-</b>

Semester wise fee Tariff (Rupees)				
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	Grand Total
Rs.26,700/-	Rs.24,700/-	Rs.24,700/-	Rs.24,700/-	Rs.100,800/-

**Admission Procedure:**

- A Departmental Admission Committee is responsible to finalize the admissions by conducting test and interview of the candidates.
- Admission in MPhil program will be made once a year i.e. Spring Semester.
- Admission in MPhil Statistics will be granted against limited seats strictly on the basis of merit as approved by the University. The University reserves the right not to start this program if viable group of students not formed.
- Only selected candidates, approved by the competent authority of AIOU, will be informed about their admission by the admission department.
- The prevailing University rules/regulations regarding MPhil enforced from time to time shall strictly be followed for the MPhil statistics program.

- f. As MPhil statistics is a face to face program, 70% attendance in workshop/classes is compulsory otherwise the student will not be allowed to appear in sessional tests as well as in final examination.

**Note:**

1. Successful candidates are supposed to deposit their fee as per procedure laid down by the university in the intimation letter.
2. Fee can neither be refunded nor be adjusted for future admission after finalization of admission.
3. It is the responsibility of the admitted student to remain in contact with the department regarding his/her program.

**g) Instructional Methodology:**

**Study Material:**

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

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

For each course, approximately 45 hours face to face teaching support will be provided. 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.

**Workshops:**

The introductory workshop and end semester workshop will be arranged at the beginning and at the end of each semester.

**Continuous Assessment:**

- Two home-assignments for each course will be given to the students.
- Two sessional exams for each course will be conducted and 50% marks in sessional exam is mandatory to appear/qualify for final examination.
- 30% weightage will be given to the assignments/sessional tests.
- A student who fails in continuous assessment component is not eligible to 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	50%
Final Examination	50%
Aggregate	50%

**Thesis:**

In the 3<sup>rd</sup> Semester, 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 have 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.

## 2. 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 program 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 program 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 Degree with minimum 3.0 CGPA (in semester system) or First Division (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 program is 3 years (6 semesters). Student has to complete 30 credit hours for the award of PhD Degree.

### e) Scheme of Studies:

Code	Title	Credit Hours
<b>1<sup>st</sup> Semester</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

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

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

Code	Title	Cr. Hrs
4768	Research Thesis	12(12+0)

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

Code	Title	Cr. Hrs
4768	Research Thesis	12(12+0)

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

Code	Title	Cr. Hrs
4768	Research Thesis	12(12+0)

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

Code	Title	Cr. Hrs
4768	Research Thesis	12(12+0)

**Elective Courses:**

Following is the list of elective courses for PhD Statistics program:

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	Fee @	Fee/Semester
	Rs.6,150/- (3 Credit Hours)	Rs.18,450/- (9 Credit Hours)
Registration fee (At the time of 1st admission only)	Rs.1,000/-	Rs.1,000/-
Technology fee (per student per semester)	Rs.100/-	Rs.100/-
Admission fee (At the time of first admission)	Rs. 2,000/-	Rs. 2,000/-
<b>First Semester Fee</b>		<b>Rs.21,550/-</b>

Semester wise fee Tariff (Rupees)		
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> to 5 <sup>th</sup> Semester
Rs.21,550/-	Rs.18,550/-	Rs.24,720/-

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

A book for each course will be provided to the students by the university. A list of recommended books will also be given for further 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 50% 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 to 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	50%
Final Examination	50%
Aggregate	50%

***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, Sector H-8, AIOU, Islamabad  
Ph. No. 051-9057266, 9250062  
Email: statistics@aiou.edu.pk***

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

**FACULTY MEMBERS**

1. **Prof. Dr. Irshad Ahmad Arshad**  
Chairman  
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8. **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 and 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 Department has developed research linkage with other National and International Universities and research organizations of repute to ensure two-way flow of knowledge.

### ➤ **Vision:**

The Department of Physics carries out 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 post graduates 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 Physics, Medical Physics, Laser and Optics, Cosmology, Geo Physics, Density Functional Theory (DFT), Modeling and Simulation and Nuclear Physics.

**1. MPhil Physics Program:**

**1. DURATION OF THE PROGRAMME:**

- a) The **minimum duration of MPhil program** shall be 04 semesters (two years) and maximum duration shall be 10 semesters (five years) Program.
- b) The **minimum period of the 24 credit hours course work** shall be 02 semesters (one year) and **minimum period to complete 12 credit hours research thesis** shall be two semesters (one year) after approval of the synopsis.
- c) **In case the student fails** to complete the course/research work within the prescribed maximum period of 10 semesters (five years), she or he will take a fresh admission in the program.

- d) After successful completion of 36 credit hours (24+12), a student will qualify for the award of MPhil Physics degree.
- e) 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. ELIGIBILITY AND ADMISSION CRITERIA:**

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.

**3. SCHEME OF STUDIES:**

***Approved Course Offering:***

<b>Course work during 1<sup>st</sup> year or 1<sup>st</sup> &amp; 2<sup>nd</sup> Semester</b>	<b>24 Credit Hours</b>
<b>Thesis/Project/Dissertation during 2<sup>nd</sup> year or 3<sup>rd</sup> or 4<sup>th</sup> Semester</b>	<b>12 Credit Hours</b>
<b>Total Credit Hours required for completion</b>	<b>36 Credit Hours</b>

**Semester I (Core Courses)**

<b>S. No.</b>	<b>Title</b>	<b>Course Code</b>	<b>Credit Hours</b>
1	Mathematical Physics	1701	3+0
2	Electrodynamics	1703	3+0
3	Solid State Physics	1722	3+0
4	Research Methodology	7791	3+0

### Semester 2 (Core Courses)

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

S.No.	Title	Code	Credit Hours
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 Sources	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	6+0
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### Semester 4 (Research)

1.	Thesis	1725	6+0
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#### 4. METHOD OF INSTRUCTION:

Allama Iqbal Open University employs media mix as methodology of instruction in which printed material, audiovisual support, and face-to-face tutorial support are mixed in accordance with the requirement of the discipline and the level of 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.

##### ii) **Assignments**

Two assignments for each 03 credit hrs course will be given. Students will complete the assignments and send to the tutors within the scheduled time. The tutor will return the same to them after marking and providing necessary academic guidance or feedback. 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) 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 MPhil 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:

Assignments	30%
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 M. Phil 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 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%

## 6. FEE TARRIF:

### 1<sup>st</sup> semester

Course fee	Rs.20,000/- @ Rs.5,000/-per 3 credit hour course (Four 03 credit hours courses) (Inclusive of books & students activity funds)
Registration fee	Rs. 200/- (at the time of 1st admission)
Admission + Degree Fee	Rs.1000/- (at the time of 1st enrolment)
Technology Fee	Rs.100/-
<b>Total fee: Rs.21,300/-</b>	

### 2<sup>nd</sup> semester

Course fee	Rs.20,000/-@Rs.5000/-per 3 credit hour (Four 03 credit hours courses)
Admission Form	Rs. 15/-
Technology Fee	Rs.100/-
<b>Total fee:</b>	<b>Rs.20,115/-</b>

### 3<sup>rd</sup> semester

Thesis fee (6 cr.hrs)	<b>Rs.9,985/-</b> @Rs.1664/-per credit hour
Admission Form	Rs.15/-
Technology Fee	Rs.100/-
<b>Total fee:</b>	<b>Rs.10,100/-</b>

### 4<sup>th</sup> semester

Thesis fee (06 cr.hrs)	<u>Rs.9985/-@ Rs.1664/-per</u> credit hour
Thesis evaluation fee	Rs. 21,420/-
Admission Form	Rs.15/-
Technology Fee	Rs.100/-
<b>Total fee:</b>	<b>Rs.31,520/-</b>

**Note: Per credit fee is Rs.1,664/-**

### 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 all over Pakistan after receipt of the intimation letter for 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 form for record. **This selection Performa will be sent only to the selected candidates by the admission office along with the intimation letter for admission and fee schedule.**

### 8. 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.

### 9. HOSTEL FACILITIES:

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

### 10. 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, Sector - H-8, Islamabad.  
Email: [szilyas@aiou.edu.pk](mailto: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,  
AIOU, Sector - H-8, Islamabad.

## 2. PhD Physics Program

### 1. Duration of The Program:

The minimum duration for the Direct PhD programme shall be six semester (03 years) and maximum duration of the programme shall be ten semesters (05 years). Student will to take complete course work in first two semesters & then carry out research work in last four semesters. Students have to complete 18 credit hours course work and 24 credit hours research work. Minimum period for the completion of course work shall be two semesters (one year) and maximum four semesters (two years).

### 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 the HEC.

- For admission into PhD, minimum **CGPA 3.0** (out of 4.0 in the semester system) 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 regarding PhD will be applied.
- Qualifying **Departmental Test** and **Interview** is mandatory for PhD Admission.
- Two reference letters 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	24 Credit Hours
<b>Total</b> credit hours required for completion	<b>42 Cr. Hrs</b>

### Semester 1 (Compulsory)

S.#.	Title	Course Code	Credit Hours
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)

S.#.	Title	Course Code	Credit Hours
1.	Advanced Semiconductor Physics	9703	3+0
2.	Statistical Physics	9704	3+0
3.	Environmental Physics	9705	3+0
4.	Hydrogen Energy Technology	9707	3+0
5.	Energy Audit and Thermal Conservation	9708	3+0
6.	Energy Resources and Technologies	9709	3+0
7.	Research Methods & Techniques	9710	3+0
8.	Magnetism & Magnetic Materials	9711	3+0
9.	Particle Physics	9712	3+0
10.	Medical Physics	9713	3+0
11.	Material Science	9714	3+0
12.	Nano Science & Nanotechnology	9715	3+0

**Semester 3(Research)**

1. Thesis 9700 6+0

**Semester 4(Research)**

1. Thesis 9700 6+0

**Semester 5(Research)**

1. Thesis 9700 6+0

**Semester 6(Research)**

1. Thesis 9700 6+0

**4. Method of Instruction:**

Allama Iqbal Open University employs media mix as methodology of instruction in which printed material, audio-visual support, 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 program 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.

**ii) Final Examination/ Continuous Assessment**

Two assignments for each course will be given. Students will complete the assignments and submit within the scheduled time. 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.

The distribution of assessment of 03 credit hour course will be as follow:

**Assessment**

• **Continuous assessment:**

Continuous assessment will be based on assignments and class tests and course work attendance i.e. 20% for assignments or tests and 10% for attendance. The weightage of this component in the final result will be 30% and pass percentage will be 50%.

• **Final Examination:**

Final examination of 100 marks for each 03 credit hour theory course will be conducted at the end of semester. The pass percentage in final examination will be 50% and its weightage in the final result will be 70%.

**iii) 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.

**iv) 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.

**v) 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.

**vi) 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.

**vii) 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.

**viii) 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 Ph. D. 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:**

- i) **Admission fee** Rs.2000/-  
(Once at the time of Admission)
- ii) **Registration fee** Rs. 2000/-  
(Once at the time of Admission)
- iii) **Fee for each 03 Credit Hours course** Rs.5370/- @ Rs.1790/-
- iv) **Thesis fee** Rs. 42,960/-@ 1790/-  
(Per credit hr (24 credit hours)
- v) **Thesis Evaluation fee** Rs.21, 420/-
- vi) **Technology fee** Rs. 100/-  
(Per student per semester)

**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 Bank Challan Form in favour of Treasurer AIOU Islamabad after receipt of the intimation letter for admission. The candidate will write his name (in block letters) full address and PhD Physics Programme and semester on the back side of the draft. Please keep a photocopy of the draft for record and immediately post another photocopy of the draft (both sides) to the Chairman/Programme Coordinator, Physics Department, Science block-1<sup>st</sup> floor. AIOU, H-8 Islamabad. The original bank draft is to be sent to the Assistant Registrar (ACII) Postgraduate Admission Section, AIOU, H-8, Islamabad along with the Performa to be filled by the selected candidate. **This Performa will be sent only to the selected candidates by the admission office along with the intimation letter for admission.**

**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, 1<sup>st</sup> Floor, AIOU, Sector-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 # 051-9057830, 051-9250066
2. **Mr. Ather Hassan**  
Assistant Professor, Department of Physics,  
Phone # 051-9057214
3. **Dr. Surayya Mukhtar**  
Lecturer, Department of Physics,  
Phone # 051-9057184
4. **Ms. Hareem Mufti**  
Lecturer, Department of Physics,  
Phone # 051-9057727
5. **Mr. Abdul Jalil**  
Lecturer, Department of Physics,  
Phone # 051-9057214
6. **Ms. Uzma Nosheen,**  
Lecturer, Department of Physics,  
Phone # 051-9057727
7. **Mr. Hussain Ahmed,**  
Research Associate, Department of Physics,  
Phone # 051-9057214

## DEPARTMENT OF HOME AND HEALTH 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 34 years the Department has developed a range of professional programs in Environmental Design Health, Nutrition, and Home Economics. The teaching/research laboratories for the Environmental Design and Food and Nutrition programs 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 the following programs:**

- 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 (First launch in autumn 2017)
- 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)

## **1. Environmental Design**

### **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 program 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 program 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 program 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/Architectur 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 Program 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, 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 Home and Health Sciences**  
**Block-6, AIOU, Sector H-8, Islamabad**  
**051-9057742, 051-9250063**  
**Email: anjums41@hotmail.com**

- 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 following address:

**Prof. Dr. Nomana Anjum**  
**Chairperson/Programme Coordinator**  
**Department of Home and Health Sciences**  
**Block-6, Allama Iqbal Open University**  
**Sector H-8, Islamabad**  
**051-9057742, 051-9250063**  
**Email: anjums41@hotmail.com**

##### **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 Four Semesters  
(two 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).

**Offering**

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

**Semester I**

Course Code	Title of course	Credit Hours
7591	Principles and 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**

Course Code	Title of course	Credit Hours
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**

Course Code	Title of course	Credit Hours
7790	Research Thesis	12

**Total Credit Hours: 36**

**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:

Sr. No	Code	Title of course	Credit Hours
1	7775	Environmental Issues in Workplace Design	3(2+1)
2	7776	Health Care Design	3(2+1)
3	7777	Environmental Consideration in House and Housing Design	3(2+1)
4	7778	Design for Children	3(2+1)
5	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 programs 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 T. A./D. A. 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 program 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 examination.

- 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 programs.
- 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 (at the time of 1 <sup>st</sup> admission)
Admission Fee:	Rs.700/- (at the time of 1 <sup>st</sup> admission)
Technology Fee:	Rs.100/- (per semester per student)
Course Fee:	Rs.3200/-(for each 03 credit course)
Lab based practical:	Rs.2460/-
Thesis Fee (3 <sup>rd</sup> & 4 <sup>th</sup> Semester):	Rs.12810 (each semester)
Thesis Evaluation Fee:	Rs.26460/-

**Semester-wise Payment to be made by the student on the basis of above-mentioned Fee Tariff**

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

Registration Fee:	Rs.200/-
Admission Fee:	Rs.700/-
Fee for 12 credit hours theory 12×1067/-	Rs.12800/-
Fee for Four (one credit practical) 4×2460/-	Rs.9840/-
Field visit	Rs.2460/-
Technology fee (per semester per student)	<u>Rs.100/-</u>
	<b>Rs.26100/-</b>

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

Fee for 12 credit hours theory 12×1067	Rs.12800/-
Fee for Four (One credit practical) 4×2460=	Rs.9840/-
Continue Admission Form Fee	Rs.15/-
Technology fee (per semester per student)	<u>Rs.100/-</u>
	<b>Rs. 22755/-</b>

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

Thesis Fee (for 4 credit hours theory 4×3200/-	Rs.12800/-
Thesis Evaluation Fee	Rs.13230/-
Continue Admission Form Fee	Rs.15/-
Technology fee (per semester per student)	<u>Rs.100/-</u>
	<b>Rs.26145/-</b>

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

Thesis Fee (for 4 credit hours theory 4×3200)	Rs.12800/-
Thesis Evaluation Fee	Rs.13230/-
Continue Admission Form Fee	Rs.15/-
Technology fee (per semester per student)	<u>Rs.100/-</u>
	<b>Rs.26145/-</b>

**Attainment of Certificate/Degree**

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

**FACULTY MEMBERS:**

**Contact Addresses (Academics):**

- Dr. Nomana Anjum,**  
Chairperson/Professor  
(Environmental Design)  
Ph: 051-9250063, 9057742  
Email: anjums41@hotmail.com
- Dr. Hajra Ahmad**  
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Email: hajra5@hotmail.com
- Dr. Zaheer Ahmad**  
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- Ar. Nazia Iftakhar**  
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(Architecture/Urban Planning)  
Ph: 051-9057744  
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- Syed Shahzad Shah**  
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Ph: 051-9057748  
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8. **Ms. Asma Afreen**  
Lecturer (Food & Nutrition)  
Ph: 051-9057741  
Email: [asma.ibd@hotmail.com](mailto:asma.ibd@hotmail.com)
9. **Ar. Mehnaz Mehmood**  
Research Assistant (Environmental Design)  
Ph: 051-9057748

**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**  
Chairperson,  
Dept. of Women Studies,  
AIOU (Gender & Environment)
5. **Engr. Muhammad Sohail**  
PD. Pir Mehr Ali Shah  
Arid Agricultural University, Rawalpindi  
(Environmental Design)
6. **Ghazala Naheed**  
IMCG F-7/2, Islamabad  
(Environmental Psychology)
7. **Dr. Naeem Ejaz**  
Associate Professor  
UET Taxila (Civil & Environmental Engineering)

<b>DEPARTMENT OF MATHEMATICS</b>
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**Introduction:**

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

- i. MSc Mathematics
- ii. MPhil Mathematics
- iii. BS Mathematics

In future, the Department intends to start PhD Mathematics program. MPhil Mathematics has been designed after consulting syllabi of national and international universities. It will strengthen the mathematical concepts of the candidates and will enhance their logical thinking. This program will also cater the needs of Information Technology and other sciences disciplines.

## **MPhil Mathematics Program**

### **Introduction:**

To meet the challenging requirements of today’s fast growing world, we are in desperate need of experts in the field of Mathematics. By realizing the shortage of experts in Mathematics, AIOU has planned to offer MPhil in Mathematics. We need expert mathematicians not only in the area of education, but also in industry and research. The curriculum of this program is designed in such a way that both the course work and the research components are covered thoroughly. The expertises of distinguished mathematicians are hired to teach the students of MPhil Mathematics Program.

### **Objectives:**

- To enhance the qualification of those who could not continue their education after MSc Mathematics through formal universities.
- To provide an opportunity to in service persons to improve their qualification and get promotion in their respective departments.
- To produce quality teacher/researchers of Mathematics at all levels.

### **Summary of the Program:**

Total Credit Hours	36 Credit Hours	Course Work	24 Credit Hours
		Research Work	12 Credit Hours
Minimum Duration	04 Semesters (02 Years)		
Areas of Specialization	i. Pure Mathematics ii. Applied Mathematics		

### **Duration:**

The minimum period for completion of course work is two semesters (one year). The minimum period for completing research work is two semesters (one year). The maximum time period to complete the degree is 5 years.

### **Eligibility:**

Candidates having BS/MA/MSc in Mathematics with minimum CGPA 2.5/4 or 45% marks in annual system from any HEC recognized university.

### **Admission Procedure:**

- Admission in MPhil Mathematics will be granted against limited seats strictly on the basis of merit as approved by the university.
- There shall be departmental test and interview (equivalent to NTS General).
- There shall be a departmental admission committee responsible to finalize the admissions.

### **Evaluation Procedure:**

Continuous Assessment	30%
(Two assignments and two sessional tests for each course)	
Final Examination	70%
Students have to obtain minimum	50%
marks in Continuous Assessment and	50%
marks in final examination and aggregate of	50%
marks after combining Continuous Assessment and final examination.	

### **Payment of Fee:**

Admission will be strictly on merit. Only the selected candidates should deposit the fee after receiving the admission letter from Admission Department of AIOU.

**Hostel Facility**

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

**Mode of Teaching:**

Each course will be of (3+0) credit hours. It is proposed to hold two workshops one in the beginning and the second at the end of the semester. The Introductory Workshop will be about 20 days and the End of Semester Workshop will be about 20 days. There will be at least 45 hours face to face teaching for each course.

**Places of Offering:**

Main Campus AIOU , Islamabad only.

**Scheme of Studies:****Semester-I:**

Code	Course Title	Credit Hours
7753	Probability and Stochastic Processes	3(3+0)
7732	Theory of Fluids	3(3+0)
	Optional-I	3(3+0)
	Optional-II	3(3+0)

**Semester-II:**

Code	Course Title	Credit Hours
7741	Advanced Ring Theory	3(3+0)
7744	Computational Fluid Dynamics	3(3+0)
	Optional-III	3(3+0)
	Optional-IV	3(3+0)

**Semester-III & IV:**

**Thesis: 12 Credit Hours (7750)**

**List of Optional Courses**

S. No.	Course Title	Code	Credit Hours
1.	Theory of Group Actions	7731	3(3+0)
2.	Mathematical Techniques for Boundary Value Problems	7733	3(3+0)
3.	Theory of Semirings-I	7734	3(3+0)
4.	Fixed Point Theory	7735	3(3+0)
5.	Advanced Analytical Dynamics-I	7736	3(3+0)
6.	Numerical Analysis of Spectral Methods	7737	3(3+0)
7.	Group Methods for Differential Equations	7738	3(3+0)
8.	Banach Algebra	7739	3(3+0)
9.	Theory Semirings	7740	3(3+0)
10.	Theory of Group Graphs	7742	3(3+0)
11.	Numerical Solutions of Partial Differential Equations	7743	3(3+0)
12.	C* - Algebra	7745	3(3+0)
13.	General Relativity	7746	3(3+0)
14.	Theory of Semirings-II	7747	3(3+0)
15.	Advanced Partial Differential Equations	7748	3(3+0)
16.	Theory of LA-Semigroups	7749	3(3+0)
17.	Stochastic Differential Equations	7751	3(3+0)
18.	Cellular Automata and Groups	7752	3(3+0)

**Synopsis/Research Work:**

After the completion of 24 credit hours of course work a student will embark upon research of 12 credit hours for two semesters. After the receipt of admission list of third semester, the department will hold two-weeks Synopsis Orientation Workshop (SOW) and only those students will be eligible to attend the synopsis orientation workshop who have qualified at least 12 credit hours courses. The purpose of the SOW is to guide the MPhil Scholars/Researchers in finalizing their topics of Synopsis/Research. Participation in the SOW will be mandatory. Researchers are supposed to develop and present their synopsis before the Departmental Synopsis Committee. Finally, topic of synopsis/research will be forwarded to the concerned body for approval as per MPhil rules and regulations of the university.

**Fee Tariff:**

Tuition Fee	Fee @	Fee/Semester
	Rs.6150/- (3 Credit Hours)	Rs.24600/- (12 Credit Hours)
Registration fee (payable at the time of first admission only)	Rs.1000/-	Rs.1000/-
Technology fee (per student per semester)	Rs.100/-	Rs.100/-
Admission fee (at the time of first admission)	Rs. 1,000/-	Rs. 1,000/-
<b>First Semester Fee</b>		<b>Rs.26,700/-</b>

Semester wise fee Tariff (Rupees)				
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	Grand Total
Rs.26,700/-	Rs.24,700/-	Rs.24,700/-	Rs.24,700/-	Rs.100,800/-

Please send complete admission form along with the attested copies of testimonials at the following address:

**Department of Mathematics**  
**Block # 7, Room # 102, AIOU, Sector H-8, Islamabad.**  
**Ph# 051-9057734, 051-9250056**

**FACULTY MEMBERS**

1. Prof. Dr. Muhammad Naeem Qureshi  
Professor/Registrar  
Phone: 051-9057102
2. Dr. Nasir Rehman  
Incharge/Assistant Professor  
Phone: 051-9250056 051-9057191
3. Dr. Naqeeb-ur-Rehman  
Assistant Professor  
Ph: 051-9057339
4. Mr. Muhammad Faisal Iqbal  
Lecturer  
Phone: 051-9057734
5. Mr. Muhammad Aatif  
Lecturer  
Phone: 051-9057197
6. Mr. Irfan Mustafa  
Lecturer,  
Ph: 051-9057197
7. Ms. Fouzia Rehman  
Research Associate  
Ph: 051-9057191
8. **Staff:** Phone: 051-9057734

### **Visiting Faculty Members:**

1. Dr. Yasir Ali  
NUST,  
Islamabad
2. Dr. Muhammad Hanif  
ARID University,  
Rawalpindi
3. Dr. Mazhar Hussain Tiwana  
Gordon College,  
Rawalpindi
4. Dr. Rashid Mahmood  
Air University,  
Islamabad
5. Dr. Saima Mustafa  
ARID University,  
Rawalpindi
6. Dr. Abdul Qayum  
Federal Urdu University.
7. Prof. Dr. M. Ramzan  
Bahria University
1. Dr. Saleem Ullah  
Federal Directorate of Education,  
Islamabad
2. Dr. Muhammad Ishaq  
NUST  
Islamabad

### **DEPARTMENT OF CHEMISTRY**

The department of chemistry was established in March 1998. Its faculty consists of one Professor, one Associate Professor, four Assistant Professors and two Lecturers. The department has most modern equipments/ instrumentation in its teaching and research labs in the Science Block at AIOU main campus. These equipments/ instrumentation include CHNS Analyzer, Thermal Analyzer, UV-Visible, Fluorescence and FTIR Spectrophotometer, GC-MS, HPLC, Atomic Absorption spectrometer and Electrochemical System etc.

The department has developed all the courses for undergraduate, graduate, postgraduate and PhD level in accordance with the guideline provided by the Higher Education Commission (HEC). These courses are reviewed from time to time through Committee of Courses to incorporate emerging modern trends in the subject. The Committee of Courses of the department has distinguished Professors and Scientists of the country as members besides departmental faculty. Department has also signed MOU with university of Rostock, Germany. By this MOU, our PhD students get opportunity to do research work in Germany. Moreover department has also signed MOU with University of Kebangsaan Malaysia. This collaboration will be very useful for our MPhil and PhD students.

At present, department of chemistry is offering and coordinating the following programmes:

1. Chemistry Courses for FSc Students
2. BS Chemistry
3. MSc Chemistry
4. MPhil Chemistry
5. PhD Chemistry

In Spring 2017 semester, department is offering BS, MSc & PhD programs.

## **PhD (Chemistry)**

### **1. Introduction**

The Department of Chemistry is offering PhD programme in Spring 2017 Semester. Currently specialization is being offered in the field of Organic Chemistry. Later on, the specializations in other branches of Chemistry will be offered.

### **2. Objectives**

The aim of this programme is to provide an opportunity to the in-service personnels to get specialized in the field of chemistry and to improve the qualification of those who could not continue their education through formal system. Maintaining the high standards of teaching and research, the department also wants to attract fresh students. The main objective is to uplift the standard of education and research specially in the field of chemistry in the country.

### **3. Target Groups**

PhD Chemistry programme is particularly designed for the following:

- i. College teachers who want to improve their qualification.
- ii. Scientists working in different laboratories and research organizations desirous of improving their knowledge and qualification.
- iii. Fresh students having special aptitude for research.

### **4. Eligibility (for Admission in PhD Chemistry)**

Candidates holding MS/MPhil or equivalent in Chemistry with CGPA 3.0 (or 60% marks) is eligible to apply for PhD Programme. The Department will conduct written test for admission. The candidate who will pass the written test with 70% marks will be called for interview.

### **5. Admission Procedure**

- i. The Prescribed Admission Form (duly filled) alongwith the attested copies of required documents be sent to Chairperson, Department of Chemistry, AIOU, Islamabad.
- ii. Written test and Interview of the eligible candidates will be conducted by the Departmental Admission Committee and the merit will be determined on the basis of qualification, research and professional experience, test and interview, etc.
- iii. Selected candidates will be informed by the Directorate of Admission with the directions to deposit fee according to the schedule.

Since admission in PhD programme is strictly on merit, **the fee should NOT be submitted before the confirmation of your admission**, only selected candidates will be informed and asked to deposit the prescribed fee, on or before the last date for fee deposition. In case of non-compliance, it would be assumed that the student is not interested in getting admission. The department may invite a candidate in waiting list for admission against the vacant seat.

For clarification about academic matters, please contact on the phone numbers given below:

051-9057754, 051-9057818, 051-9250081

**Note: Admission form complete in all respect along with documents (testimonials) must be sent on the following address:**

**The Chairperson**

Department of Chemistry

Science Block, AIOU, Islamabad.

Tel: 051-9057754, 051-9057818, 051-9250081

## 6. Scheme of Studies for PhD Chemistry

- Initially, the student is required to complete 18 credit hours of PhD course work. After this period, he/she has to pass comprehensive Examination.
- Besides completion of PhD course work and other requirements, a candidate has to complete research work and thesis as per AIOU rules.
- For PhD, the student has to complete all other formalities, prescribed by the Higher Education Commission.

### Description of PhD Chemistry Theory Courses

Semester	Course Code	Course Title	Credit Hours
I & II	1756	Organic Photochemistry	3
	1757	Pericyclic Chemistry	3
	1758	Reaction Mechanism	3
	1762	Quantum Organic Chemistry	3
	1765	Advanced Nuclear Magnetic Resonance (NMR) spectroscopy	3
	1766	Special Topics in Chemistry	3
	1767	Mass Spectrometry	3
	1768	Special Techniques in Organic Synthesis	3
	1769	Theoretical Aspects of Spectroscopy	3
1799	Instrumental Methods of Analysis	3	

### Description of PhD Chemistry Research Work & Thesis

Semester	Course Code	Course Title	Credit Hours
III	1764	Research Work and Thesis	12
IV	1764	Research Work and Thesis	12
V	1764	Research Work and Thesis	12
VI	1764	Research Work and Thesis	12

**Note:** Any three courses out of the above mentioned theory courses will be offered in I semester. In II semester any three courses from the remaining list will be offered, subject to the availability of expertise

## 7. Offering

At present this programme is being offered at the university main campus in Islamabad. In future, it will be opened for the entire country subject to the availability of laboratories and appropriate tutorial support.

## 8. Assessment

### Continuous Assessment

Continuous assessment will be based on assignments and class tests. The pass percentage in assignments and class tests will be 50%. The weightage of this component in the final result will be 30%

### Final Examination

Final examination of 100 marks for each three credit theory course will be conducted at the end of semester. The pass percentage in final examination will be 50% and its weightage in the final result 70%.

The student will have to pass in each component independently to be declared successful in the course.

### Assessment of Research Thesis

After the completion of course work the candidate will undertake a research thesis under the guidance of a supervisor. Both the research project and name of supervisor will be approved by the Board of Advanced Studies and Research (BASR), AIOU. PhD thesis will be evaluated by foreign professors. The research report must be supported by at least one publication in International Journal as per HEC rules.

## 9. Attendance

This programme is based on face to face teaching and research work. At least 70 % attendance is compulsory to qualify for appearing in final examination.

## 10. \* Fee Structure

S.#	Item	Rates
1.	Tuition Fee (for 09 Credit Hours)	Rs.6840/- per semester
2.	Admission Fee	2000/-
3.	Registration Fee	200/- (if not already registered)
4.	Library	Rs.700/- per semester
5.	Laboratory / Computer charges	Rs.2000/-per semester
6.	Technology Fee	Rs.100/- per semester
7.	Student ID Card Fee	Rs.100/-
8.	Library security	Rs.2500/- refundable
9.	Caution money	Rs.2000/- refundable
10.	Research Fee	14070/- per semester

\*Only applicable after confirmation of admission in PhD, by the university.

Thesis evaluation fee and any other charges will be as per AIOU rules.

The University reserves the right to change the fee tariff in the coming semesters. This can be done without any prior notice as deemed fit for the expected expenditure which is to be incurred on the semester based academic and operational activities of the program.

## CONTACT ADDRESSES (ACADEMICS)

1.	<b>Prof. Dr. Naghmana Rashid</b> <b>Dean/Chairperson</b> <a href="mailto:naghmana.rashid@aiou.edu.pk">naghmana.rashid@aiou.edu.pk</a> Tel: 051-9057818, 051-9250081
2.	<b>Dr. Uzma Yunus</b> <b>Associate Professor</b> <a href="mailto:uzma_yunus@yahoo.com">uzma_yunus@yahoo.com</a> Tel: 051-9057755
3.	<b>Dr. Moazzam Hussain Bhatti</b> <b>Assistant Professor</b> <a href="mailto:moazzamhussain_b@yahoo.com">moazzamhussain_b@yahoo.com</a> Tel: 051-9057262
4.	<b>Dr. Muhammad Sher</b> <b>Assistant Professor</b> <a href="mailto:sherqau@yahoo.com">sherqau@yahoo.com</a> Tel: 051-9057198
5.	<b>Dr. Nasima Arshad</b> <b>Assistant Professor</b> <a href="mailto:nasimaa2006@yahoo.com">nasimaa2006@yahoo.com</a> Tel: 051-9057756
6.	<b>Dr. Muhammad Zaman Ashraf</b> <b>Assistant Professor</b> <a href="mailto:mzchem@yahoo.com">mzchem@yahoo.com</a> Tel: 051-9057182
7.	<b>Ms. Mehwash Zia</b> <b>Lecturer</b> <a href="mailto:m_ehzia@hotmail.com">m_ehzia@hotmail.com</a> , Tel: 9057252
8.	<b>Dr. Farzana Shaheen</b> <b>Lecturer</b> <a href="mailto:farzanaqau2013@gmail.com">farzanaqau2013@gmail.com</a> Tel: 051-9057198

## **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. It, today, consists of fourteen departments offering masters programs 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 programs in Pakistani Languages and Law. The Commonwealth-collaborated masters programs 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 AIOU's Faculty of Social Sciences and Humanities has shown a lot of dynamism over the past few years. It has launched MPhil/PhD programs 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 programs 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 programs.

The Faculty has expanded vitally and its programs 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 programs in accordance with the current challenges of 21<sup>st</sup> century.

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

## **DEPARTMENT OF ECONOMICS**

### **Introduction**

The Department of Economics is one of the fourteen departments within the Faculty of Social Sciences and Humanities at Allama Iqbal Open University. It was established in 1986 with few introductory courses at intermediate and bachelor's level. The department has, over the years, established itself as a reputable academic department in the country for higher studies and research in Economics. At present, the department offers MSc and MPhil programs in different field of economics. The department currently has well qualified teaching faculty possessing PhD degree from foreign as well as local well reputed institutions. Further, the department continuously collaborates with economists, academicians and researchers of other academic institutions for student supervision, resource persons and as part-time teaching to the students at all levels.

## **Objectives**

The main objective of the department is to provide the students a broad based understanding of the subject, solid grasp of economic theory, analytical tools, applied economics and statistical techniques. The MPhil program emphasizes advanced methods of theoretical and quantitative analysis. The goal of the program is enable the students to pursue academically based research careers in economics and to equip them with other emerging needs in economics.

## **Programs**

The main programs offered by the department are:

- MSc Economics (Offered in Autumn Semester).
- MPhil Economics (Offered in Spring Semester).

## **MPhil Economics**

### **a) Introduction**

Economics is a study to know how individuals and societies choose to use the scarce resources, the nature and previous generation have provided. Economics explains how we can achieve a high level of growth and employment, price stability, efficiency, an equitable distribution of income, reduction in pollution, economic freedom, sustainable development, macroeconomic stability and reduction in poverty. All these goals can be achieved if we understand the theoretical concepts on one hand and their applications on the other. There is a positive correlation between research and development. Research is the collection and use of data to test economic theories.

### **b) Objectives**

- To prepare professionals who have a grasp of the discipline in general and a command over the area of specialization in particular.

- To establish a cadre of specialists and professionals in different fields of economics, who could provide effective leadership in guiding and conducting high level research in various fields.
- To provide opportunities to the professionals' growth and development regarding upgrading their knowledge and research.
- To provide opportunities for higher education and research in a discipline and to develop research potential and promote research activities among the professionals.
- To enhance the professional capacity of working teachers in the area of economics.

### **c) Eligibility**

The candidates having Second Class Master Degree in Economics will be eligible to apply for admission in MPhil Economics.

### **d) Duration**

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 (24 credit hours) shall be one year (two semesters).
- The minimum period for the completion of research work shall be one year (two semesters).
- In case the student fails to complete the course/research work within the prescribed maximum period of (ten semesters) five years. She/he has to take a fresh admission in the program.

### **e) Medium of Instruction**

The medium of instruction and examination is English.

**f) Scheme of Studies**

The MPhil program will be of 36 credit hours in total: 24 credit hours course work and 12 credit hours of research work. Semester wise offering of courses will be as under:

**1<sup>st</sup> Semester: Spring 2017**

Sr. No.	Course	Code	Credit Hours
1	Advanced Microeconomics	2700	3
2	Advanced Macroeconomics	2701	3
3	Development Economics	2704	3
4	International Trade Theory & Policy	2705	3

**2<sup>nd</sup> Semester: Autumn 2017**

Sr. No.	Course	Code	Credit Hours
1	Research Methods	2702	3
2	Applied Econometrics	2703	3
3	Environmental Economics	2706	3
4	Monetary Economics	2708	3

**3<sup>rd</sup> and 4<sup>th</sup> Semester (Research Work)**

1.	Research Work/Thesis	2710	12
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After the completion of twenty four credit hours of course work a student will embark upon research of 12 credit hours. After the receipt of admission list in the 3<sup>rd</sup> semester, the department will hold two-weeks Synopsis Orientation Workshop (SOW). The purpose of the SOW is to guide the researchers in finalizing their topics of research/synopses. Participation in the SOW will be mandatory. Researchers are supposed to develop and present their synopses before the Departmental Synopsis Committee. Finally, topic of research/synopsis will be forwarded to the concerned body for approval as per MPhil rules and regulations of the university.

**g) Admission Procedure**

- There shall be a departmental admission committee responsible to finalize the admission.
- Admission in MPhil program will be made once a year (i.e. Spring Semester). Applications will be invited through the daily newspapers/AIOU website.
- Preliminary selection of the candidates will be made strictly on the basis of merit/criteria laid down by the Department/ University.
- Subject based test/interview will be essential for admission to this program conducted by the Department of Economics.
- Only selected candidates will be informed about their admission and for depositing the fee. Fee depositing procedure will be mentioned in the intimation letter.
- The prevailing University rules/regulations regarding MPhil enforced from time to time shall strictly be followed for the MPhil program in Economics.
- **Admission Form complete in all respect must be sent on the following address:**

Chairman  
Department of Economics, Block No. 9  
Allama Iqbal Open University  
Sector H-8, Islamabad.

**Note:** Only eligible candidates will be called for the said test/interview. The test will be held at the main campus, Islamabad only. Test and Interview will be based on the contents like Advanced Microeconomics, Advanced Macroeconomics, Mathematical Economics, Econometrics, Statistics, Issues in Pakistan Economy, etc. For further information please contact the faculty members academic staff of the department.

### **h) Methods of Instruction**

The following methodology will be adopted for running the MPhil program in Economics. The outline of courses along with the required reading material and assignments will be provided to the students.

### **i) Assignments**

Assignments are those written exercises which students complete while being at their homes and places of work after studying their reading material after attending the course workshop organized by the department. These are designed in a way that students are able to relate their readings with their own objective judgments. The students will send two compulsory assignments for each 3 credit hours course to their tutors who return the same after marking and providing necessary academic guidance.

### **j) Workshop**

MPhil Economics is a face to face program within the mode of distance learning system. However, in lieu of tutorials, workshop component (equivalent to 48 credit hours) is adopted in this program. MPhil workshop is conducted into two phases. First phase (for 16 days) is conducted in the beginning of the semester and Second phase (16 days) well before the examination. The workshop is arranged only at the main campus AIOU, Islamabad. The participation of the students in the workshop is compulsory. No relaxation on any ground can be provided to the students in this regard. The workshops (classes) are organized in order to provide the students proper guidance in course contents through intensive lectures, group discussion, etc. The program of the workshop is chalked out by the department and intimated to the students well in time. Hostel facility at the Main Campus, AIOU Islamabad is available on payment if desired.

### **k) Assessment**

Assessment will be done as under:

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

i. Assignments	20%
ii. Course Workshop	10%
iii. Final Examination	70%
- For successful completion of each course the student will be required to qualify in each component.
- To take final examination the student has to pass in assignments and 75% attendance in the workshops.
- The conditions to qualify each component are given below:
  - i. A minimum of 50% passing marks in each assignment.
  - ii. A minimum of 50% passing marks in the final written examination.
  - iii. 75% attendance in the workshops.

### **Fee Tariff**

<b>Registration Fee:</b>	Rs.1000/- (Payable once at the time of admission)
<b>Admission Fee:</b>	Rs.1000/- (Payable once at the time of admission)
<b>Technology Fee:</b>	Rs.100/- (Per student per semester)
<b>Course Fee:</b>	Rs.6150/- (per 3 credit hour course)
<b>First Semester Fee:</b>	Rs.26,700/-
<b>Thesis Fee:</b>	Rs.49080/- (two installments)

This program is merit based, therefore no fee/dues are required to be deposited until you receive the offer letter from Admission Department of the University.

## **FACULTY MEMBERS**

For clarification about academic matters please contact the following faculty members of Department of Economics:

1. **Prof. Dr. Syed Abdul Siraj**  
Chairman  
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4. **Mr. Rizwan Ahmed Satti**  
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5. **Staff**  
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## **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 program 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 programs with different specializations. These programs would contribute significantly to the national goals by developing the professionals equipped with modern business techniques. These programs 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.

### **MS (MANAGEMENT SCIENCES)**

#### **a) Duration**

As per HEC guidelines, MS (Management Sciences) program will spread over 3 semesters covering 8 courses and a thesis. It will be offered with two specializations: Human Resource Management (HRM) and Banking & Finance (B&F). The program consists of 36 credit hours. The minimum period required for its completion will be 1½ year while maximum period would be 05 years.

#### **b) Eligibility Criteria**

Applicants having 16 years of business education (Old MBA/MPA/M.Com/ACMA/ACA/4-Years B.Com/4-Years BBA) from any HEC recognized institution with minimum 50% marks or 2.0 CGPA would be eligible to apply.

The admission Committee would first consider the CGPA as required eligibility.

#### **c) Admission Procedure**

- i. There shall be an admission committee responsible to finalize the admission.
- ii. Admission in MS (Management Sciences) will be made once a year as decided by the Competent Authority.

Applications will be invited through the daily news papers/AIOU website as per AIOU policy.

- iii. Preliminary selection of the candidates will be made strictly on the basis of criteria laid down by the Department/University.
- iv. AIOU subject based test/interview will be essential for admission to this program, conducted by the Department of Business Administration.
- v. Only selected candidates will be informed about their admission and to deposit the fee. The candidate will be informed about the deposit of fee by the Directorate of Admissions confirming the admission of the candidate.
- vi. The prevailing University rules and regulations regarding MS/MPhil program enforced from time to time shall strictly be followed for the program.
- vii. The MS (Management Sciences) program will be merit based, therefore, no fees/dues will be required to be deposited until applicant receives the admission letter from the AIOU Directorate of Admissions.
- viii. Candidates will be required to send complete admission forms along with the attested copies of all certificates and marks sheets at the following address before the closing date.
- ix. **For clarification about academic matters please contact on the following address:**

#### **CHAIRMAN**

Department of Business Administration  
Block No.13, AIOU, H-8, Islamabad.

Ph: 051-9057722-23, 9250089

[mba@aiou.edu.pk](mailto:mba@aiou.edu.pk)

**d) Scheme of Studies**

The MS (Management Sciences) program will be offered with two specializations, i.e., HRM and B&F. The detail of courses and tentative semester wise offering of courses is as under:

Sr. No.	Course Title	Course Code	Credit Hours
<b>First Semester</b>			
1	Advanced Research Methods	8701	3
2	International Business & Finance	8702	3
3	Strategic Marketing	8703	3
4	Strategic Human Resource Management	8704	3

**Second Semester**

5	<i>Elective Courses</i> (for details, see as given under Elective Courses for MS Management Sciences)		12
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**Third Semester**

6	Thesis	8720	12
	<b>Total Credit Hours</b>	<b>24+12</b>	<b>36</b>

**Note:** However, the department reserves the right to change its offering any time if desired so.

**e) Elective Courses for MS (Management Sciences) Program:**

For selection of specialization courses in MS program, students would select elective courses from only one of the following specializations:

<b>Elective Courses of Human Resource Management</b>			
1	Strategic Human Resource Development	8709	3
2	Organisational Theory & Design	8710	3
3	International Human Resource Management	8711	3
4	Human Resource Change Management	8712	3
<b>Elective Courses of Banking &amp; Finance</b>			
1	Islamic Banking	8718	3
2	Credit Management	8714	3
3	Investment & Securities Management	8715	3
4	Risk Management & Insurance	8716	3

**f) Thesis**

After the completion of 24 credit hours course work, a student will undertake research work of 12 credits. After the receipt of admission list of the 3<sup>rd</sup> semester, the Department will hold two-weeks Synopsis Orientation Workshop (SOW). The purpose of the SOW will be to guide the researchers in finalizing their topics of thesis/synopsis. The topic must be according to the specialization already selected by the researcher. Participation in the SOW will be mandatory. Researchers are supposed to develop and present their synopsis before the Departmental Synopsis Committee. Finally, topic of thesis/synopsis will be forwarded to the Competent Authority for approval as per MS/MPhil rules and regulations of the university.

**g) Methods of Instruction**

The medium of instruction and examination will be English. The open and distance blended mode will be adopted for MS (Management Sciences) program. The outline of courses along with the required reading material and assignments will be provided to the students.

**h) Assignments**

The student will send two compulsory assignments for each 03 credit hours course to their tutors who return the same after marking and providing necessary academic guidance.

**i) Workshop**

MS (Management Sciences) is a face to face program within the mode of distance learning system. However, in lieu of tutorials, workshop component (equivalent to 48 hours in each course) is adopted in this program. MS workshops will be conducted in two phases. First phase (for 16 days) will be conducted in the beginning of the semester and second phase (for 16 days) well before the examination. The workshops will be arranged only at the Main Campus, AIOU, H-8, Islamabad. The participation of the students in the workshops will be compulsory. No relaxation on any ground will be provided to the students in this regard. The workshops (classes) will be organized in order to provide the students proper guidance in course contents through intensive lectures, group discussions, etc. The program of the workshops will be chalked out by the Department and intimated to students well in time. Hostel facility at the Main Campus, AIOU Islamabad will be available on payment, if desired.

**j) Evaluation Scheme**

Assessment will be done as under:

<b>Assessment Component</b>	<b>Weightage in the aggregate result</b>
Assignments	20%
Workshops/Classes	10%
Final Examination	70%
<b>Total</b>	<b>100%</b>

- i. For Successful completion of each course the student will be required to qualify in each component.
- ii. To take final examination, the student has to pass in assignments and 75% attendance in the workshops.
- iii. The conditions to qualify each component are given below:
  - a. A minimum of 50% marks in assignments (aggregate).
  - b. A minimum of 50% marks in the final written examination.
  - c. 75% attendance in the workshops.

**k) Degree Requirements**

Following are the requirements for award of MS (Management Sciences) degree:

- i. Successful completion of 08 courses (24 Credit Hours).
- ii. Thesis: After completion of 24 Credit Hours course work, the students will be eligible to register for the Thesis (12 Credit Hours). The students will be required to complete their Thesis as per AIOU rules, and submit to the Department in line with the approved format etc., that would be evaluated on the guidelines given by HEC and adopted by the AIOU.

- iii. Viva voce examination: Viva voce examination shall be held according to AIOU rules and regulations, if the student meets the criteria of the evaluation of thesis.

#### **I) Fee Structure**

Registration Fee:	Rs.1000/- (At the time of first admission)
Admission Fee:	Rs.5000/- (At the time of first admission)
Course Fee:	Rs.8850/- per course
Thesis Fee:	Rs.49100/-
Thesis Evaluation Fee:	Rs.5510/- (Once at the time of admission in Thesis)
Degree Fee	Rs.1000/- (At the time of first admission)
Technology Fee	Rs.100/- (per student per semester)

**Note:** In case of extension in Thesis up to maximum period (05 years), student will have to pay fee equivalent to 02 Credit Hours per semester.

### **PhD (Business Administration)**

The PhD (Business Administration) program 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**

S. No.	Course Title	Course Code	Credit Hours
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) program 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 two years while maximum period for completion of degree will be five (05) 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 program 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 program.
- 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 the PhD program.

- 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 Program**

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 02 Credit Hours per semester.

**d) Methods of Instruction**

Students would be provided with the relevant ebooks, 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 written and continuous exercises which students complete while being at their homes and places of work after studying reading material, 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**

PhD (Business Administration) would be face to face program, blended mode of distance learning system. However, in lieu of tutorials, workshop 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 workshop for each course would be arranged only at the main campus AIOU, Islamabad. The participation of the students in the workshop is compulsory. No relaxation can be provided to

the students in the workshops. The workshops (classes) are organized in order to provide the students proper guidance in course contents through intensive lectures, group discussion, etc. The workshop 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.

**g) Examination**

The medium of Instruction and Examination shall be English. 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. **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 in the third semester.

***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) 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 MS/MPhil/PhD level will be applicable for the programs.

**FACULTY MEMBERS**

1. **Prof. Dr. Syed Hassan Raza**  
Chairman  
Ph: 051-9057722  
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2. **Mr. Muhammad Ayub Shaikh**  
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10. **Syeda Attiya Rahat**  
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Ph: 051-9057250
11. **Mr. Ehsan Javaid**  
Lecturer  
Ph: 051-9057855
12. **Staff:** Ph: 051-9057723

## DEPARTMENT OF HISTORY

### **Introduction**

The Department of History was established in 1995 as part of the Faculty of Social Sciences & Humanities. Since inception, the Department has been running academic programs at Intermediate, Graduate and Post-graduate level. MPhil History has been launched since Spring 2015. This aims to cater the needs of faculty members working at higher educational institutions and general Public.

### **Mphil History**

#### **Objectives**

- i. The major objective of the program is to inculcate the sense of History and Historiography through research on local, regional and international History.
- ii. The evolution stemming from British India (colonial India) will be highlighted through specialized study courses consisted of Muslim Arab and international political studies.
- iii. The endeavors of Muslim leaders during freedom struggle will be focused.

#### **Duration**

- The minimum period required for completing MPhil in History will be two years (four semesters) while maximum period will be five years (ten semesters).
- The minimum period for the completion of coursework (24 credit hours) shall be one year (two semesters). The minimum period for the completion of research work will be one year (two semesters).

- In case the student fails to complete the course/research work within the prescribed maximum period of (ten semesters) five years. She/he has to take a fresh admission in the program.

### Eligibility for Admission

The students are eligible to apply for admission to M Phil History with the following educational background:

- At least 2<sup>nd</sup> class Master Degree in History,
- Candidates with published articles will be preferred.
- All other rules and instructions applied by Allama Iqbal Open University from time to time.
- Test and interview will be conducted by the Admission Committee, Department of History AIOU, Islamabad

### Medium of Instruction

The medium of instruction and examination is English.

### Scheme of Studies

The MPhil in History Program will be of 36 credit hours in total: 24 credit hours course work and 12 credit hours of research work. Semester wise offering of courses will be as under:

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

Sr. No.	Course	Code	Credit Hours
1	British India (1857-1947)-I	2731	3
2	British India (1857-1947)-II	2732	3
3	Historiography	2733	3
4	Research Methodology	2734	3

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

Sr. No.	Course	Code	Credit Hours
1	History of Modern World since 1945-I	2735	3
2	History of Modern World since 1945-II	2736	3
3	History of Pakistan (1947-88)-I	2737	3
4	History of Pakistan (1947-88)-II	2738	3

#### 3<sup>rd</sup> and 4<sup>th</sup> Semester (Research Work)

Sr. No.	Course	Code	Credit Hours
1.	Synopsis Workshop (compulsory) Research Work/Thesis	2739	12

#### Synopsis Workshop (compulsory)

After the completion of twenty four credit hours of course work a student will undertake research of 12 credit hours. After the receipt of admission list in the 3<sup>rd</sup> semester, the Department will hold two-week Synopsis Orientation Workshop for MPhil Thesis. The purpose of the workshop would be to guide the researchers in finalizing their topics of research/ synopses. Participation in the Synopsis Orientation Workshop will be mandatory. Researchers are supposed to develop and present their synopses before the Departmental Synopsis Committee. Finally, topic of research/ synopsis will be forwarded to the concerned body for approval as per MPhil in History rules and regulations of the university.

### **Admission Procedure**

- a. There shall be a Departmental Admission Committee responsible to finalize the admission.
- b. Admission in MPhil History program will be made once a year (i.e. Spring Semester). Applications will be invited through the daily newspapers/AIOU website.
- c. Preliminary selection of the candidates will be made strictly on the basis of merit/criteria laid down by the Department/University.
- d. AIOU written test equivalent subject based test/interview will be essential for admission to this program.
- e. Only selected candidates will be informed about their admission and for depositing the fee. Fee depositing procedure will be mentioned in the intimation letter.
- f. The prevailing University rules/regulations regarding MPhil enforced from time to time shall strictly be followed for the MPhil program in History.

### **Methods of Instruction**

The following methodology will be adopted for running the MPhil Program in History. The outline of courses along with the required reading material and assignments will be provided to the students by the Department.

### **Assignments**

Assignments are those written exercises which students complete while being at their homes and places of work after studying their reading material and attending the course workshop organized by the Department. These are designed in a way that students are able to relate their readings with their own objective judgments. The students will send two compulsory assignments for each 3 credit hours course to their tutors who return the same after marking and providing necessary academic guidance.

### **Workshop**

MPhil History has been launched in the mode of distance learning system. However, in lieu of tutorials, workshop component (48 hours teaching for each 3 credit hours course) is adopted in this program. MPhil workshop is conducted by the Department before the examination. Workshop would be arranged only at the main campus AIOU, Islamabad. The participation of the students in the workshop is compulsory. No relaxation on any ground can be provided to the students in this regard. The workshops (classes) are organized in order to provide the students proper guidance in course contents through intensive lectures, group discussion, etc. The program of the workshop, chalked out by the Department will be intimated to the students well in time. Hostel facility at the Main Campus, AIOU Islamabad is available on payment by the students, if desired. 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 by the university. Whereas for workshops that is compulsory component of assessment, two additional consecutive chances would be given to students who fail to attend workshop activities on the payment of Reappear Workshop fee and permission from the Chairperson of the Department concerned, the offering of courses would be as per the AIOU policy.

### **Assessment**

Assessment will be done as under:

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

a. Assignments	20%
b. Course Workshop	10%
c. Final Examination	70%

- (3) For successful completion of each course the student will be required to qualify in each component.
- (4) To take final examination the student has to pass in assignments and 75% attendance in the workshops.
- (5) The conditions to qualify each component are given below:
- A minimum of 50% passing marks in each assignment.
  - A minimum of 50% passing marks in the final written examination.
  - 75% attendance in the workshops.

#### Fee Tariff

i.	Registration Fee:	Rs.1000/- (Payable once at the time of admission)
ii.	Admission Fee:	Rs.1,000/- (Payable once at the time of admission)
iii.	Technology Fee	Rs.100/- (per student per semester)
iv.	Course Fee:	Rs.2940/- (per 3 credit hour course)
v.	Thesis Fee:	Rs.23,310/-

#### Admission Procedure

This program is merit based, therefore, no fee/ dues should be deposited until you receive the offer letter from Admission Department of the University. For clarification about academic matters please contact on the following address:

**Prof. Dr. Samina Awan**  
**CHAIRPERSON**

**Department of History, Block No. 9, AIOU, Sector H-8,  
Islamabad. Phone: 051-9250073, 9057827**

**Note: Admission form complete in all respect must be sent on the above address**

#### Faculty Members:

For guidance, student may contact the following faculty members of the Department of History, Block-9, AIOU Main Campus, Sector H-8, Islamabad.

- Dr. Samina Awan**  
Chairperson/Professor  
Ph: 051-9250073, 051-9257827  
Email: [samina.awan@aiou.edu.pk](mailto:samina.awan@aiou.edu.pk)
- Dr. Kishwar Sultana**  
Associate Professor  
Ph: 051-9057837  
Email: [kishwar.sultana@aiou.edu.pk](mailto:kishwar.sultana@aiou.edu.pk)
- Mr. Abdul Basit Mujahid (MPhil)**  
Assistant Professor  
Ph: 0519057822  
Email: [basit.mujahid@aiou.edu.pk](mailto:basit.mujahid@aiou.edu.pk)
- Dr. Kausar Parveen**  
Assistant Professor  
Ph: 051-9057825  
Email: [kausar.parveen@aiou.edu.pk](mailto:kausar.parveen@aiou.edu.pk)
- Ms. Sadia Aziz, (MPhil)**  
Lecturer  
Ph: 051-9057686  
Email: [sadia.aziz@aiou.edu.pk](mailto:sadia.aziz@aiou.edu.pk)
- Ms. Fozia Umar (PhD Scholar)**  
Lecturer  
Ph: 051-9057686
- Office:**  
Ph: 051-9057821

## **M Phil 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 degrees to launch MPhil Pakistan Studies program. Now the department is launching M. Phil Pakistan Studies with the 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.

### **1. 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 M Phil 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.

### **2. Objectives**

The main objective of MPhil Pakistan Studies program 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.

### **3. 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 20 research scholars in the M Phil Pakistan Study program. The applicant requires to qualify entry test arranged by the Department of Pakistan Studies.

### **4. Duration**

The minimum period for completion of the program is two years while maximum period will be Five 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 semester (one year) and the maximum period is four semesters (two years) provided the condition of five years shall not be affected.

### **5. 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.

## 6. Scheme of Studies

MPhil Pakistan Studies program comprises of 24 Credit Hours (C.H.) of course work and 12 C.H. of research project. The admission in MPhil would be advertised once in a year (Spring Semester).

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

#### 6.1 First 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>

#### 6.2 Second 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>

#### 6.3 Third and Fourth Semesters

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

## 7. Fee Tariff As per University rules

## Faculty Members

For academic assistance, please contact the following faculty members of the Department of Pakistan Studies, AIOU, Block, No. 09, H-8, Islamabad.

### Name and Designation

#### 1. Prof. Dr Syed Abdul Siraj

Dean / Chairman

Ph: 051-9250074, 051-9057172

#### 2. Dr. Badshah Sardar

Associate Professor

Ph: 051-9057226

#### 3. Dr. Samina Yasmeen

Associate Professor

Ph: 051-9057836

#### 4. Mrs. Samina Aman

Assistant Professor

Ph: 051-9057227

#### 5. Mr. Malik Akhtar Hussain

Assistant Professor

Ph: 051-9057751

#### 6. Dr. Khalid Mahmood,

Lecturer

Ph: 051-9057826

**For further information  
please contact:  
Department of Pakistan Studies  
Block No.9, Main Campus, Sector H-8,  
Allama Iqbal Open University, Islamabad  
E-mail: pakstudy@aiou.edu.pk  
Ph: 9250074**

## **DEPARTMENT OF MASS COMMUNICATION**

### **Introduction**

The Department of Mass Communication was established in 1986 for fulfilling the educational needs of students, working journalists and media persons at various levels. The Department offered its specialized BA cluster program in Mass Communication in 1988. It was the first ever bachelor's level program in Mass Communication offered in the country. Students across the country are taking interest in the program.

In 1997 the Department started its MSc Mass Communication Program. The Department also offers Masters Degree in Television Production. Keeping in view the trend of students in studying the phenomenon of Mass Communication, the Department launched advanced studies of MPhil in Mass Communication in 2000. The MPhil program imparts the knowledge of evolution and advances in mass communication theory and research, sociology of mass media, and the methods of behavioural research in social sciences.

The Department resumed offering of its PhD Program in semester Autumn 2014. The main objective of the program is to enable students to understand and explain the dynamics of the social phenomena of mass communication in Pakistani society, especially to enable them to independently investigate the contents, uses and effects of mass media in society.

In addition to the above degree programs, the Department also offers Post Graduates Diploma (PGD) and certificate courses in Journalism, such as Advertising and Public Relations in the University's Short Term Educational Programs (STEPS).

### **M Phil Mass Communication (Professional Track)**

The Department launches its MPhil Mass Communication (Professional Track) from Spring Semester 2017. This is the first offering of the program. This program is exclusively for working journalists (Media Persons) working in accredited national media organizations. This program comprises twenty four (24) credit hours of course work and twelve (12) credit hours of research project/thesis. The course work consists of Evolution of Mass Communication Research, Mass Media and Society (I & II), Foundations of Behavioural Research (I & II), Theories of Influence on Media Content and Media Effects and Advances in Theory and Research (I & II). This program will make students learn the social phenomena of Mass Communication and urge them to independently investigate the mass media effects on society.

#### **1. Duration of M Phil Program (Professional Track)**

The minimum duration of MPhil Mass Communication (Professional Track) is two years (four semesters) and the maximum duration shall be five years (10 semesters). Other rules will be applied as per AIOU policies.

#### **2. Eligibility for Admission**

The minimum entry requirement for admission to MPhil program (Professional Track) shall be Masters Degree in Mass Communication/ Journalism with second division from any HEC recognized University. The applicant must be working (presently) in some media organization.

1. Merit will be determined by the Department of Mass Communication according to the approved criteria.
2. Only short-listed candidates will be called for test/interview.
3. The Department enrolls limited number of students to the program.
4. The Admission Department will inform the selected candidates for fee deposit.

### 3. Medium of Instruction

The medium of instruction and examination is English.

### 4. Scheme of Studies

There will be 24 credit hours course work and 12 credit hours of thesis. Details are given below:

### 5. Semester-Wise Course Offering

#### 1<sup>st</sup> Semester (Spring)

S. No.	Course Title	Code	Credit Hours
1.	Evolution of Mass Communication Research	6630	3
2.	Mass Media and Society-I	5761	3
3.	Mass Media and Society-II	5762	3
4.	Foundations of Behavioural Research-I	6632	3

#### 2<sup>nd</sup> Semester (Autumn)

S. No.	Course Title	Code	Credit Hours
1.	Media Effects: Advances in Theory & Research-I	5763	3
2.	Media Effects: Advances in Theory & Research-II	5764	3
3.	Foundations of Behavioural Research-II	6634	3
4.	Theories of Influence on Mass Media Content	6635	3

#### 3<sup>rd</sup> & 4<sup>th</sup> Semester

S. No.	Course Title	Code	Credit Hours
1.	Research Project/Thesis	6636	12

### 6. Instructional Methodology

The following will be the instructional methodology:

#### i. Study Material

The university provides study materials during the first two semesters of course work.

#### ii. Workshop

There is a series of mandatory workshops at the beginning and end of each semester during the course work that provides an opportunity to the students to share their understanding of course content with fellow students. A special workshop is arranged during the third semester that requires students to develop and present draft proposals of thesis to the workshop participants.

#### iii. Assignments

Each course carries a maximum of 100 marks. There are two assignments for each 3-credit hours course. Assignments are written by the students after studying the required readings, recommended by the Department. These assignments are designed to enable them to relate their own ideas with the concepts covered in the required readings so as to facilitate the students in developing a thorough understanding of the subject. After completion, the students send these assignments on scheduled time to the tutor appointed by the university. The tutor returns the assignments to students after giving valuable comments, and marks.

#### iv. Thesis

A student is required to carry research work under the supervision of an advisor having Ph D degree in the relevant field. There is an intensive workshop to discuss research proposals of the students. Students of the MPhil Mass Communication (Professional Track) will be required to do their theses on professional aspects of Mass Communication.

## 7. Assessment System

Under Continuous Assessment (Assignments), a student has to submit Assignments to his/her tutor in the stipulated time mentioned in the assignment schedule. Passing marks of the assignments are 50 percent. AIOU rules will be applied.

At the end of each semester, final examination will be conducted by the University for each Course. Students need 50 percent marks to pass the final examination; however, it is necessary for the students to obtain an aggregate of 50 percent (assignments + workshop + final examination) in each course. The ratio of marks of assignments, workshop and final examination is 20:10:70 respectively. The summary of assessment system is given below:

Assessment Component	Total Marks	Passing Marks	Weightage
Assignment – 1	100	50	20%
Assignment – 2	100	50	
Students will have to attend compulsory course workshop at the end of semester having 10 marks for each course			10%
Final examination	100	50	70%
Total Marks			<b>100</b>
Aggregate Passing Marks			<b>50</b>

## 8. Viva-Voce

After evaluation of the thesis student has to appear for viva-voce before the Research Project Committee (RPC) to defend his/her work.

## 9. Instructions for Thesis

### i. Registration in Thesis

Students will submit research proposal/synopsis to the Chairman, Mass Communication Department according to the university's approved criteria. The Departmental Research Project Committee will recommend the students' research proposals/synopses to the VC (AIOU) for approval after thesis orientation

workshop. The committee shall also recommend the name of supervisor for students' research work. AIOU rules will be applied.

- ◆ Thesis will be of 200 marks, (100 marks for evaluation of research work and 100 marks for oral examination.)
- ◆ The minimum period to complete the thesis is one year and the maximum period shall be two years provided the condition of maximum duration of five years shall not be affected. (Detailed information in this regard can be obtained from the Department on request).
- ◆ Students are advised to keep closely in touch with their respective supervisor and also with the Department for research activities and submit their progress reports to the Department intermittently.

### ii. Thesis Evaluation Fee

Students will deposit fee in bank for thesis evaluation at the time of submitting the thesis to the Department.

### iii. Plagiarization

In case a thesis is found to be a plagiarized version of some other thesis, research work, text, etc. published or unpublished, the student's candidature for MPhil shall be cancelled and he/she shall be debarred forever from admission to any program of the University. In case the plagiarism is proved, after the award of M Phil degree, the degree shall be cancelled/withdrawn.

The MPhil degree shall be awarded after the positive reports of external evaluators of the research report and the successful defence by the student in viva-voce. The Dean will forward the report of the Viva-Voce to the Controller of Examinations for notification and award of the degree.

### iv. Format of Thesis

The students will be required to observe guidelines regarding format, writing, referencing, paper quality and other related

matters. (Detailed information in this regard could be obtained from the Department on request or the information on format will be provided during the thesis orientation workshop).

#### **v. Research Candidacy**

The Department will hold synopsis orientation workshop to identify the topic of research. The synopsis shall be prepared in accordance with the guidelines/format approved by BASR. The student shall submit a detailed research proposal in the third semester (after the completion of course work) and make a presentation before the Departmental Synopsis Committee.

Participation in the orientation workshop will be mandatory. The students shall be required to deposit the prescribed dues after approval of topic/symposia by the committee.

In case a student is not able to complete his/her research work during the minimum prescribed period of one year, he/she shall be required to pay fee equivalent to 3–credit hours per semester till submission of thesis for evaluation within the maximum time limit.

#### **10. Fee Tariff**

Registration Fee	Rs.200/-
Admission Fee + Technology Fee	Rs.1100/-
Course Fee (3– Credit Hours)	Rs.2940/-
Thesis Fee	Rs.11760/-
Thesis Evaluation Fee	Rs.4960/-

#### **11. General Information**

Photocopy of the admission form and incomplete forms will not be entertained.

Admission to MPhil Mass Communication (Professional Track) will be granted against limited seats strictly on the basis of merit and criteria as approved by the university. The university reserves the right not to start this program if a viable group of students is not formed.

Only the selected candidates will be informed about the result of the admission. On receipt of individual admission intimation, the

student will deposit the required fee according to the procedure as laid down by the university in the admission intimation letter.

Fee cannot be refunded once paid for admission nor can it be adjusted for any other program. On payment of the registration fee, each student will be issued a registration number. The number must be quoted in all the future correspondence along with roll numbers, course(s) code numbers and semester. The students already having registration number need not to pay the registration fee. They should mention their registration number in the admission form.

During the semester the address of any student will not be changed, however, in real hardship, change of address will be considered if it is supported by a justifiable plea.

Rules, regulations framed, amended and changed from time to time by the authorities/bodies of the university will be applicable to all students. The students will have to abide by all such rules and regulations. These can be made available to students on demand.

It is the responsibility of the admitted students to remain in continuous contact with the department regarding academic activities of the program. A student already enrolled to a program or a specialization of a program shall not be allowed to transfer his/her admission to another program.

Admission to courses for the spring semester and autumn semester are generally offered in the months of February and August respectively. The continuing students are sent computerized admission forms. However, if for any reason, the student does not get the said form, he/she may get general admission form from any regional office of the university and send it to Director Admission of the university within the due date along with due fee deposited through bank challan slip.

#### **12. Fee Depositing Procedure**

Only on receipt of admission offer, the candidate would pay dues in accordance with the fee tariff as directed by the Admission Office.

### **13. How to Apply for Admission?**

Candidates for M Phil are required to send complete admission forms along with attested copies of all educational degrees, certificates, marks sheet and experience certificate at the following address before the closing date. Applicants who submit result card instead of degree/certificate will not be entertained. Incomplete admission forms will not be accepted.

**Note: Admission form complete in all respect must be sent on the following address:**

Professor Syed Abdul Siraj (PhD)  
Chairman  
Department of Mass Communication  
AIOU, Sector H-8, Islamabad.

For clarification about academic matters, please contact on the following address:

### **14. Faculty Members**

1. **Prof. Dr. Syed Abdul Siraj**  
Chairman, Ph: 051-9057172
2. **Dr. Saqib Riaz,**  
Associate Professor, Ph: 051-9057828
3. **Dr. Bakht Rawan**  
Associate Professor, Ph: 051-9057263
4. **Mrs. Saadia Anwar Pasha**  
Lecturer, Ph: 051-9057283
5. **Mr. Shahid Hussain**  
Lecturer, 051-9057245
6. **Syed Babar Hussain Shah**  
051-9057823-24
7. **Office:**  
Ph: 051-9057823-24

### **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 Department 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

## شعبہ پاکستانی زبانیں

### تعارف:

شعبہ پاکستانی زبانیں 1998ء میں قائم ہوا۔ علامہ اقبال اوپن یونیورسٹی ملک کی واحد یونیورسٹی ہے جس میں پاکستان میں بولی جانے والی تمام زبانوں کے فروغ اور تدریس کے لیے شعبہ پاکستانی زبانیں کا قیام عمل میں لایا گیا جو پاکستانی زبانوں کے تدریسی کورس پیش کرتا ہے۔ یہ کورس میٹرک، انٹرمیڈیٹ اور بی اے کی سطح کے ہیں۔ مزید برآں پاکستانی زبانوں اور ان کے ادب سے متعلق کتب کی اشاعت اور پاکستانی زبانوں کے کلاسیکی شعرا پر سیسی ناز کا اہتمام بھی شعبہ پاکستانی زبانیں کی سرگرمیوں میں شامل ہے۔ پاکستان کے مختلف علاقوں میں بولی جانے والی زبانیں مستحکم حیثیت کی حامل ہونے کے ساتھ ساتھ کئی مشترک عناصر بھی رکھتی ہیں۔ قومی یک جہتی کے فروغ میں کسی ایسے پروگرام کی ضرورت کافی عرصہ سے محسوس کی جا رہی تھی جس میں پاکستانی زبانوں کا تقابلی مطالعہ، ادبیات پاکستان کا تقابلی مطالعہ اور ان زبانوں کے منفرد اور مشترک ادبی رجحانات کا احاطہ کیا گیا ہو۔ وقت کے اس تقاضے کے پیش نظر علامہ اقبال اوپن یونیورسٹی کے شعبہ پاکستانی زبانیں نے سمسٹر بہار 2004ء میں ایم فل کی سطح کا ایک پروگرام متعارف کرانے کا اہتمام کیا جس کے چیدہ چیدہ مقاصد درج ذیل ہیں۔

- 1- قومی یک جہتی اور ملی ہم آہنگی کے فروغ کے لئے طلبہ و طالبات کو پاکستانی زبانوں کے مشترک نقوش، بین اللسانی روابط اور مشترک ادبی رجحانات سے روشناس کرانا۔
- 2- طلبہ اور طالبات کو پاکستانی زبانوں اور ان کے ادب کے بارے میں مطالعاتی اور تحقیقی بنیادیں فراہم کرنا۔
- 3- پاکستان میں کثیر لسانی ماہرین کی کمی کو کسی حد تک پورا کرنے میں مدد دینا۔

4- پاکستانی زبانوں (پشتو، سندھی، بلوچی، براہوئی، پنجابی، سرائیکی) کے اساتذہ کی پیشہ ورانہ مہارت میں اضافہ کرنا۔

5- جو طلبہ اور طالبات اپنے حالات کی بنا پر یونیورسٹیوں میں باقاعدہ طالب علم بن کر اپنی مادری زبان (جس میں انہوں نے ایم اے کیا ہو) میں ایم فل نہیں کر سکتے لیکن ایم فل کرنے کے آرزو مند ہیں انہیں فاصلاتی نظام کے تحت ایم فل پاکستانی زبانیں وادب (اپنی مادری زبان کی تخصیص کے ساتھ) کرنے کی سہولت مہیا کرنا۔

## مطالعاتی سکیم

### ایم فل پاکستانی زبانیں وادب پروگرام:

- 1- ایم فل (پاکستانی زبانیں وادب) پروگرام 24 کریڈٹ آرز کے کورس ورک اور 12 کریڈٹ آرز کے ریسرچ ورک پر مشتمل ہے۔
- 2- طلبہ ایک سمسٹر میں زیادہ سے زیادہ تین تین کریڈٹ آرز کے چار کورسوں میں داخلہ لے سکتے ہیں۔

## ایم فل پاکستانی زبانیں وادب

علامہ اقبال اوپن یونیورسٹی میں رسمی تدریس کے عام طریقے استعمال نہیں کیے جاسکتے کیوں کہ اس یونیورسٹی کے طلبہ پورے ملک میں پھیلے ہوئے ہیں اس لیے انہیں فاصلاتی تعلیم (Distance Learning) کے اصول کے مطابق تعلیم دی جاتی ہے۔

## کورسوں کی تفصیل

### پہلا سمسٹر

کورس کوڈ	کورس کا نام	کریڈٹ آورز
2721	پاکستانی زبانوں کا تقابلی مطالعہ، ادبیات پاکستان کا تقابلی مطالعہ، اردو زبان و ادب	3
2722	بلوچی، براہوئی: زبان و ادب	3
2723	پشتو، ہندکو، توروالی، گاؤری: زبان و ادب	3
2724	پنجابی، پہاڑی، گوجری: زبان و ادب	3

### دوسرا سمسٹر

کورس کوڈ	کورس کا نام	کریڈٹ آورز
2725	سندھی، سرانیکی کشمیری: زبان و ادب	3
2726	شمالی علاقہ جات کی زبانیں و ادب (بلتی، شنا، کھوار، بروشسکی، وٹی)	3
5765	اصول تحقیق (زبان و ادبیات) I	3
5766	اصول تحقیق (زبان و ادبیات) II	3

### تیسرا اور چوتھا سمسٹر (ریسرچ ورک)

کورس کوڈ	کورس کا نام	کریڈٹ آورز
2728	تحقیقی مقالہ (Thesis)	12

داخلے کے متعلق مزید معلومات کے لئے مندرجہ ذیل پتہ پر رابطہ کریں:

ہر لحاظ سے مکمل داخلہ فارم مع تصدیق شدہ اسناد مندرجہ ذیل پتہ پر روانہ کریں:

ڈاکٹر عبداللہ جان عابد

چیئر مین، شعبہ پاکستانی زبانیں، بلاک نمبر 5، علامہ اقبال اوپن یونیورسٹی

H-8، اسلام آباد، فون: 051-9250071

ایم فل پاکستانی زبانیں و ادب میں داخلے کے قواعد و ضوابط

☆ امیدوار کا کسی بھی تسلیم شدہ یونیورسٹی سے ایم اے پنجابی/پشتو/بلوچی/براہوئی/

سندھی/سرانیکی میں درجہ دوم یا اس کے مساوی قابلیت کا حامل ہونا لازمی ہے۔

☆ ایم فل میں داخلے کے لیے امیدوار کا شعبے میں متعلقہ مضمون کا سبجیکٹ ٹیسٹ لیا جائے گا۔

کامیاب امیدوار ہی انٹرویو کے اہل ہوں گے۔

### شرح فیس

1- رجسٹریشن فیس	1000/- روپے (پہلی بار داخلہ کے وقت صرف ایک مرتبہ جمع کرانی ہوگی)
2- داخلہ فیس	1000/- روپے (صرف پہلے سمسٹر کی فیس کے ساتھ)
3- کورس فیس (فی 3 کریڈٹ آورز)	2940/- روپے
4- آئی ٹی فیس	100/- روپے (ہر سمسٹر کی فیس کے ساتھ)

نوٹ: داخلے کی منظوری کی اطلاع ملنے پر فیس جمع کرانی جائے بصورت دیگر فیس واپس نہیں ہوگی۔

### ذریعہ تعلیم

کورس ورک اردو زبان میں ہوگا جبکہ ریسرچ ورک یعنی تحقیقی مقالہ اپنی مادری زبان (جس میں طالب علم نے ایم اے کیا ہو) کے علاوہ اردو اور انگریزی میں بھی لکھنے کی اجازت ہے۔

## ورکشاپ

- ☆ ہر سمسٹر میں پیش ہونے والے کورسوں کی ورکشاپ کا انعقاد ایم فل پروگرام کا لازمی حصہ ہے جو ہفت روزہ فی کورس کے دورانیے پر مشتمل ہوگی۔ اس کی بدولت طلبہ کو روایتی تعلیم کی طرز پر بالمشافہ (Face to Face) تعلیم کا موقع میسر آئے گا اور تعلیمی و تحقیقی مسائل اور ان کے امکانات بھی زیر بحث لائے جائیں گے۔
- ورکشاپ کا انعقاد صرف مرکزی کیمپس اسلام آباد میں ہوگا۔ ورکشاپ کا حتمی نظام الاوقات شعبے کی طرف سے طے کیا جائے گا اور اس بابت طلبہ کو بروقت آگاہ کر دیا جائے گا۔
- ☆ کورس ورک کی کامیاب تکمیل کے بعد خاکہ سازی کی ورکشاپ منعقد کی جائے گی جس میں تحقیقی موضوعات کی تیاری کے سلسلے میں تربیت فراہم کی جائے گی۔ اس ورکشاپ میں شرکت کرنے والے طلبہ کے موضوعات کے خاکے ایم فل کے یونیورسٹی قواعد کے تحت منظوری کے لیے پیش کیے جائیں گے۔

## جانچ پڑتال کا طریقہ

- جانچ پڑتال تین طریقوں سے کی جائے گی۔
- (i) امتحانی مشقیں (ii) کورس ورکشاپ (iii) آخری امتحان
- ان تینوں میں سے طلبہ کو درج ذیل تناسب سے نمبر حاصل کرنا ہوں گے:
- |               |     |        |     |
|---------------|-----|--------|-----|
| امتحانی مشقیں | 20% | ورکشاپ | 10% |
| آخری امتحان   | 70% |        |     |
- ☆ ہر کورس کی کامیاب تکمیل کے لیے طلبہ کا امتحانی مشقوں، کورس ورکشاپ اور آخری امتحان میں کامیاب ہونا لازمی ہے۔
- ☆ امتحانی مشقوں میں کامیابی کے لیے کم از کم 50% نمبر حاصل کرنا ہوں گے۔
- ☆ آخری امتحان میں کامیابی کے لیے کم از کم 50% نمبر حاصل کرنا ہوں گے۔

## گریڈ کی تقسیم کا طریقہ کار

A+ گریڈ	80 فی صد اور اس سے زائد
A گریڈ	70 فی صد سے 79 فی صد تک
B گریڈ	60 فی صد سے 69 فی صد تک
C گریڈ	50 فی صد سے 59 فی صد تک
فیل	50 فی صد سے کم

- ☆ تاخیر سے موصول ہونے والے داخلہ فارم پر کوئی کارروائی نہیں ہوگی۔
- ☆ صرف میرٹ پر منتخب ہونے والے طلبہ کو فیس جمع کرانے کے لئے بذریعہ ڈاک اطلاع کر دی جائے گی۔

## شعبے کے اساتذہ کے نام، پتے اور فون نمبر

نمبر شمار	نام وعہدہ	پتہ اور فون نمبر
1.	ڈاکٹر عبداللہ جان عابد	کمرہ نمبر 112، بلاک نمبر 05، AIOU، چیمبر مین 051-9250071
2.	ڈاکٹر حاکم علی برڑو	کمرہ نمبر 110، بلاک نمبر 05، AIOU، اسٹنٹ پروفیسر 051-9057778
3.	ڈاکٹر عبدالواجد	کمرہ نمبر 109، بلاک نمبر 05، AIOU، اسٹنٹ پروفیسر 051-9057893
4.	ضیاء الرحمن بلوچ	کمرہ نمبر 107، بلاک نمبر 05، AIOU، لیکچرار 051-9057779
5.	ڈاکٹر محمد صدیق ملک	کمرہ نمبر 113، بلاک نمبر 05، AIOU، لیکچرار 051-9057778
6.	زیب النساء	کمرہ نمبر 108، بلاک نمبر 05، AIOU، لیکچرار 051-9057776

## 4. شعبہ اردو

### ایم فل (اردو)

علامہ اقبال اوپن یونیورسٹی میں رسمی تدریس کے عام طریقے استعمال نہیں کیے جاسکتے۔ چونکہ اس یونیورسٹی کے طلبہ پورے ملک میں پھیلے ہوئے ہیں، اس لیے انہیں فاصلاتی تعلیم (Distance Learning) کے اصول کے مطابق تعلیم دی جاتی ہے۔

#### پہلا سمسٹر

کورس کوڈ	کورس	کریڈٹ آورز
5771	اردو ادب کا سیاسی و ثقافتی پس منظر I	3
5772	اردو ادب کا سیاسی و ثقافتی پس منظر II	3
5773	اردو ادب کی تحریکات اور تنقیدی نظریات I	3
5774	اردو ادب کی تحریکات اور تنقیدی نظریات II	3

#### دوسرا سمسٹر

کورس کوڈ	کورس	کریڈٹ آورز
5775	تدریس ادب I	3
5776	تدریس ادب II	3
5777	اصول تحقیق I	3
5778	اصول تحقیق II	3

#### تعارف:

شعبہ اردو کا قیام 1974ء میں علامہ اقبال اوپن یونیورسٹی کے قیام کے ساتھ ہی عمل میں آیا۔ یہ شعبہ اب تک اردو زبان و ادب کی تدریس کے حوالے سے مختلف امور کی انجام دہی خصوصاً قومی زبان کو بہ طور لازمی مضمون متعارف کروانے میں، فعال کردار ادا کر رہا ہے۔ اس وقت شعبہ اردو کی طرف سے میٹرک، انٹرمیڈیٹ اور بی اے کے علاوہ ایم اے، ایم فل اور پی ایچ ڈی (اردو) کے پروگرام پیش کیے جا رہے ہیں۔

#### ایم فل اردو پروگرام کے مقاصد

- 1- طلبہ کی علمی استعداد میں اضافہ کرنا۔
- 2- طلبہ کو اردو ادب کے قدیم اور جدید رجحانات سے آگاہ کرنا۔
- 3- اردو کے اساتذہ کی پیشہ ورانہ مہارت میں اضافہ کرنا۔
- 4- ایم فل کرنے والے طلبہ کی تحقیقی صلاحیتوں کو ابھارنا۔

#### مطالعاتی سکیم

- 1- ایم فل (اردو) پروگرام 24 کریڈٹ آورز کے کورس ورک اور 12 کریڈٹ آورز کے ریسرچ ورک پر مشتمل ہے۔
- 2- طلبہ ایک سمسٹر میں زیادہ سے زیادہ تین تین کریڈٹ آورز کے چار کورسوں میں داخلہ لے سکتے ہیں۔

## تیسرا اور چوتھا سمسٹر (ریسرچ ورک)

کورس کوڈ	کورس کا نام	کریڈٹ آورز
726	تحقیقی مقالہ (Thesis)	12

## ایم فل اردو میں داخلے کے قواعد و ضوابط

- ☆ ایم فل میں داخلے کے لیے امیدوار کا ایم اے اردو میں کم از کم درجہ دوم یا اس کے مساوی قابلیت کا حامل ہونا لازمی ہے۔
- ☆ داخلہ میرٹ کی بنیاد پر ہوگا۔
- ☆ امیدوار کا سبجیکٹ ٹیسٹ اور انٹرویو بھی لیا جائے گا۔ ٹیسٹ اور انٹرویو میں پاس ہونا لازمی ہے۔

## شرح فیس:

- 1- رجسٹریشن فیس 1000/- روپے (پہلی بار داخلہ لیتے وقت صرف ایک مرتبہ جمع کروانی ہوگی)
- 2- کورس ٹیوشن فیس 2940/- روپے (فی 3 کریڈٹ آورز)
- 3- داخلہ فیس 1000/- روپے (پہلے سمسٹر کی فیس کے ساتھ)
- 4- آئی ٹی فیس 100/- روپے (ہر سمسٹر کی فیس کے ساتھ)

نوٹ: داخلے کی منظوری کی اطلاع ملنے کے بعد فیس جمع کرائی جائے گی۔ بصورت دیگر فیس واپس نہیں ہوگی۔ نیز مقالے سے متعلقہ فیس کے متعلق معلومات بعد میں جاری کی جائیں گی۔

## ذریعہ تعلیم

اردو زبان

## ورکشاپ

- ☆ ورکشاپ ایم فل پروگرام کا لازمی حصہ ہے جو ہر سمسٹر میں 28 دنوں پر مشتمل ہوگی۔ ورکشاپ کی بدولت طلبہ کو روایتی تعلیم کی طرز پر بالمشافہ (Face to Face) تعلیم کا موقع میسر آئے گا اور تعلیمی و تحقیقی مسائل اور ان کے امکانات بھی زیر بحث لائے جائیں گے۔ ورکشاپ کا انعقاد صرف مرکزی کیمپس اسلام آباد میں ہوگا۔ ورکشاپ کا حتمی نظام الاوقات شعبے کی طرف سے طے کیا جائے گا اور اس بابت طلبہ کو بروقت آگاہ کر دیا جائے گا۔
- ☆ کورس ورک کی کامیاب تکمیل کے بعد خاکہ سازی کے لئے ورکشاپ منعقد کی جائے گی جس میں تحقیقی موضوعات کی تیاری کے سلسلے میں تربیت فراہم کی جائے گی۔ اس ورکشاپ میں شرکت کرنے والے طلبہ کے موضوعات ایم فل کے متعلقہ قوانین کے تحت منظوری کے لیے پیش کیے جائیں گے۔

## جانچ پڑتال کا طریقہ:

جانچ پڑتال تین طریقوں سے کی جائے گی۔

- (i) امتحانی مشقیں (ii) کورس ورکشاپ (iii) آخری امتحان

ان تینوں میں طلبہ کو درج ذیل تناسب سے نمبر حاصل کرنا ہوں گے۔

امتحانی مشقیں	ورکشاپ	آخری امتحان
20%	10%	70%

- ☆ ہر کورس کی کامیاب تکمیل کے لیے طلبہ کا امتحانی مشقوں، ورکشاپ اور آخری امتحان میں کامیاب ہونا لازمی ہے۔

- ☆ امتحانی مشقوں میں کامیابی کے لیے کم از کم 50% نمبر حاصل کرنا ہوں گے۔
- ☆ آخری امتحان میں کامیابی کے لیے کم از کم 50% نمبر حاصل کرنا ہوں گے۔

### گریڈ کی تقسیم کا طریقہ کار

A+	80 فی صد اور اس سے زائد
A	70 فی صد سے 79 فی صد تک
B	60 فی صد سے 69 فی صد تک
C	50 فی صد سے 59 فی صد تک
فیل	50 فی صد سے کم

### تحقیقی مقالہ

- (1) مقالے کے موضوع کی منظوری کے لیے مجوزہ موضوع پر خاکہ اور کتابیات اصول تحقیق کے معین اصولوں کی روشنی میں تیار کر کے متعلقہ شعبے کو پیش کیے جائیں گے۔ موضوع تحقیق، قطعی، واضح اور طبع زاد (Original) ہونا چاہیے۔
- (2) مجوزہ موضوع کی منظوری کے بعد طالب علم اپنے نگران مقالہ کی رہنمائی میں اپنی تحقیق مکمل کرے گا۔ نگران کی تعلیمی اہلیت کے پیش نظر اس کا تقرر کیا جائے گا۔
- (3) ایم فل کے نگران مقالہ کا پی ایچ ڈی ہونا ضروری ہے۔
- (4) مقالے کی تکمیل پر طالب علم اپنے مقالے کی چار کاپیاں مع خلاصہ اپنے نگران کے تصدیقی مراسلے کے ہمراہ شعبہ اردو میں جمع کرائے گا اور ایک اضافی کاپی اپنے نگران تحقیق کو بھی پیش کرے گا۔

### (الف) ممتحنین کا تقرر

مقالے کی تکمیل کے بعد متعلقہ شعبے کی طرف سے بھیجے گئے پینل میں سے ممتحنین کا تقرر کیا جاتا ہے۔ ممتحنین مقالے کا جائزہ لے کر اپنا رزلٹ ڈائریکٹر BASR کو بھیجتے ہیں۔

### (ب) زبانی امتحان

اگر مقالے کے بارے میں دونوں ممتحن مثبت رائے کا اظہار کریں تو پھر اس پر زبانی امتحان کا انعقاد ہوتا ہے۔

#### اساتذہ شعبہ اردو

1-	پروفیسر ڈاکٹر عبدالعزیز ساحر	4-	ڈاکٹر ارشد محمود ناشاد
	صدر شعبہ اردو		ایسوسی ایٹ پروفیسر
	فون نمبر: 051-9250069		فون نمبر: 051-9057767
2-	ڈاکٹر ظفر حسین ظفر	5-	ڈاکٹر محمد قاسم
	ایسوسی ایٹ پروفیسر		لیکچرار
	فون نمبر: 051-9057770		فون نمبر: 051-9057900
3-	ڈاکٹر نورینہ تحریم بابر	6-	ڈاکٹر عبدالستار ملک
	ایسوسی ایٹ پروفیسر		لیکچرار
	فون نمبر: 051-9057771		فون نمبر: 051-9057348

ہر لحاظ سے مکمل داخلہ فارم مع تصدیق شدہ اسناد درج ذیل پتہ پر روانہ کریں:

پروفیسر ڈاکٹر عبدالعزیز ساحر، صدر شعبہ اردو،  
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