

**AIOU**

**Admission Autumn 2022**

# PROSPECTUS

# MBA

## MBA, MS, MPhil, PhD PROGRAMMES



Allama Iqbal Open University, Islamabad

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

Help Line: (051) 111-112-468

# **PROSPECTUS**

**MBA, MS, MPhil and PhD Programs**

**SEMESTER: AUTUMN, 2022**



**Allama Iqbal Open University  
Islamabad**

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## **COMPLETE PROCEDURE TO ENROLL IN AIOU PROGRAMME AND SUBMISSION OF FORM IN AIOU ISLAMABAD**

All fresh and continue students can submit their admission using online system.

Follow these instructions to apply:

### **APPLY ONLINE (FRESH STUDENTS)**

1. Visit website: <https://online.aiou.edu.pk>
2. Press link “OAS for Fresh Admission”
3. After filling the admission form, print out your “Challan Form”.
4. Using printed challan form and submit your fee in any branch of FWBL, ABL, MCB or UBL.
5. You can also deposit fee through Upaisa, Jazzcash & Easypaisa.

### **APPLY ONLINE (CONTINUE STUDENTS)**

1. Visit website: <https://online.aiou.edu.pk>
2. Press link “CMS for Continuing Students”;
3. Enter your “User ID & Password
4. Select courses and print challan form.
5. Using printed challan form submit your fee in any branch of FWBL, UBL, MCB or ABL. Safe copy of your challan form after submission of fee. You need not to send challan to the University, but University can ask for copy of challan form any time if required.
6. You can also deposit fee through Upaisa, Jazzcash & Easypaisa.

**Note: Admission form complete in all respect be submitted online on AIOU website (No need to send hard copy of admission form).**

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**MINIMUM AND MAXIMUM TIME DURATION/SEMESTERS  
FOR THE COMPLETION OF FACE-TO-FACE PROGRAM  
(From Spring 2021 Semester)**

<b>Sr. #</b>	<b>Degree Level</b>	<b>Minimum Duration</b>	<b>Maximum Duration</b>
1.	PhD	3 Years / 6 Semesters	5 Years*
2.	MS/MPhil/MSc (Hons)/MBA/COL MBA	2 Years / 4 Semesters	4 Years**
3.	MA/MSc (2 Years)	2 Years / 4 Semesters	4 Years
4.	BS (4 Years)	4 Years / 8 Semesters	6 Years
5.	Associate Degree (2 Years)	2 Years / 4 Semesters	4 Years
6.	Postgraduate Diploma (1 Year)	1 Year / 2 Semesters	2 Years
7.	Certificate (6 Months)	6 Months / 1 Semester	1 Year

\*&\*\* As per AIOU rules.

## Vice-Chancellor's Message

**Dear Student,**

السلام عليكم

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



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

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

## **ALLAMA IQBAL OPEN UNIVERSITY**

Allama Iqbal Open University, a mega university was established in 1974 under an Act of Parliament. The main campus of the university is situated in sector H-8, Islamabad. It was the second open university of the world and the first of its kind in Asia and Africa. The aim of establishing AIOU was to provide affordable and accessible education through distance learning at the door-steps to those people who could not continue their educational journey through formal system of education. The University (AIOU) operates on semester based system and admits students in Spring and Autumn semesters. Under-graduate admissions are offered in both the semesters whereas postgraduates are offered once a year. The under-graduate students are given course books especially prepared by the university on self-instructional principles. However, at post graduate level students are encouraged for self-study; therefore, no textbooks are provided.

At present, the AIOU is offering programs from Matriculation to PhD level in diverse disciplines from four faculties. The university has established study centres

across the country, where distance education students are provided necessary guidance by their respective tutors. Moreover, the university has established full time study centres, wherein the students of MCom, MBA (IT), MBA (Banking and Finance), BS (CS), etc. are being provided instructions, guidance and counselling through face-to-face mode of education. AIOU is also offering four years under-graduate degrees in various disciplines.

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 standards for experiments and research. To meet the present-day challenges, internet facility is also available in the student's hostel and the Central Library where computers have been provided to enable students to access latest information available through open-source databases.

## FACULTY OF ARABIC AND ISLAMIC STUDIES

### **Introduction:**

The Faculty of Arabic & Islamic Studies started its functions initially as Institute of Arabic and Islamic Studies comprising of departments of Arabic and Islamic studies. Later on, the Institute of Arabic and Islamic Studies was upgraded to the level of the full fledged faculty in 1999 as required by AIOU Act 1974.

### **Objectives of the Faculty:**

The Faculty was established:

1. To teach Islamic Studies from Matriculation to PhD levels as per contemporary requirements.
2. To teach Arabic language and literature from Matriculation to PhD levels as per contemporary needs.
3. To conduct advance research on the different aspects of Islamic Studies, Islamic Culture, Arabic Language, Literature and Civilization.
4. To protect Islamic Heritage with the help of modern research tools and techniques.
5. To play leading role in the interpretation of Islamic Teachings, according to the needs of contemporary Pakistani society.
6. To reconstruct Islamic Thought and defending Islam and Islamic identity of Pakistan at national and international forums.
7. To prepare Scholars of Islamic Studies who have the grasp on the different issues of the Islamic Studies in general and command over the different areas of specialization such as Quran, Tafseer, Hadith, Shariah & Law, Islamic thought, History, Culture, Civilization and Muslim languages particularly Arabic language.
8. To establish a cadre of specialists and professionals' experts in different fields of Islamic Studies who can provide effective leadership in guiding and conducting quality research in the various disciplines of Islamic and Arabic Studies.
9. To provide opportunity of professional growth and development to the scholars of Islamic studies in general and in service personals in particular.
10. To develop linkage between different highly reputed institutions of Islamic learning in general and institutions of Muslim world in particular.
11. To create interfaith harmony and environment of dialogue between Islamic and other civilizations.

### **Prospects of the Faculty:**

1. Faculty is providing education of Arabic & Islamic Studies to the large number of students.

2. The faculty has prepared a number of quality books on the different fields of Islamic Studies.
3. The faculty is able to produce high quality research work at MPhil and PhD levels with different specializations.
4. The faculty is regularly publishing its referred quality research journals Maarf-e-Islami, Seerah Studies & Arabic Research.
5. Some of the programs of the Faculty are unique and not offered in any other Institution of Pakistan except AIOU such as ATTC, PhD & MPhil Islamic Studies with specializations.
6. MPhil Islamic Studies is a leading Program of the faculty, and it has gained good repute in scholarly circles of Pakistan.
5. MPhil (Arabic Language and Literature)
6. MA Islamic Studies (General)
7. MA Islamic Studies with specialization in
  - i. Quran & Tafseer
  - ii. Hadith & Seerah
  - iii. Islamic Law & Jurisprudence
8. MA (Arabic Language and Literature)
9. Darse-e-Nizami Program (Matriculation to BA)
  - Al Shahada al-Sanavia al-Aama
  - Al Shahada al-Sanavia al-Khasa
  - Al Shahada al-Aliya

## **Program offered by the Faculty of Arabic and Islamic Studies**

### **List of the Programs**

1. PhD Islamic Studies (General)
2. PhD Islamic Studies (with specialization in Quran & Tafseer)
3. MPhil Islamic Studies (General)
4. MPhil Islamic Studies (with specialization in Quran & Tafseer)
10. Arabic Teachers Training Course (ATTC)
11. Al-Lisan-ul-Arabi
12. Various Courses of Islamic Studies from SSC to BA
13. Various Courses of Arabic from SSC to BA
14. BS Islamic Studies

## Details of the Programs

### a) MPhil Islamic Studies (General) Program

#### 1. Profile of the Program

The Department of Islamic Thought, History and Culture is offering MPhil Islamic studies. This Program started in 1987. This is the most important & significant Program offered by the Department of Islamic Thought, History and Culture, AIOU. This Program is reputed as one of the best programs in public sector universities of Pakistan. The graduates with MPhil Islamic Studies degree from AIOU are serving on important academic & administrative post in the colleges & Universities of Pakistan as well in the foreign countries. Each year hundreds of candidates apply for admission and only few candidates are able to get admission who fulfill the requirements of the admission criteria. The MPhil students are required to complete specific coursework & research work under the supervision of highly qualified supervisors. This Program require 2 to 4year's time for completion. The students complete coursework under the guidance of qualified Faculty members. This Program designed to carry out research in different fields of Islamic Studies so that new dimensions of understanding of Islam can be explored. This Program provides to the scholars an opportunity of exercising independent critical judgment through the research skills for the service of Islamic & Muslim communities.

#### 2. Aims & Objectives of MPhil Islamic Studies

The MPhil Islamic Studies is aimed to:

- Prepare scholars of research aptitude who can analyze facts in the light of Islamic research principles.
- Enhance the skills of research and create better understanding of Islam and contemporary challenges faced by the Muslim Ummah.
- Provide opportunity of learning the methods of use of basic Islamic sources for the purpose of Islamization of contemporary knowledge and laws.
- Prepare scholars who have grasp on Islamic Studies in general and command over the area of specialization in particular.
- Establish a cadre of specialists and professionals in different fields of Islamic Studies, who can conduct quality research in various disciplines of Islam. Provide opportunities of professional growth and development to scholars in general and in-service personnel in particular.

#### 3. Eligibility for Admission

Candidates having MA Islamic Studies or equivalent degree with minimum second division (in both MA Islamic Studies & BA) can apply for the admission in MPhil. However, in case of a large number of applications, initial short listing of candidates will be made, and *preference will be given to those candidates who have passed all degrees with first division or at least first division in MA Islamic Studies or equivalent.*

- A significant weight-age is given to the research thesis written for MA Islamic Studies.
- Expertise in Arabic language and Hifz-e-Quran is also considered as additional qualification.

- Intermediate and above teaching experience in any recognized college/institution is also given due weight-age in admission criteria.
- Published research papers in approved research journals are also considered in admission criteria.
- **The graduates having HEC's approved degree of Al Shahdat Al-Alamia can also apply for admission but they must have attached equivalent certificate (by Name) from HEC.**

#### 4. Procedure for Admission

The Admission in MPhil Islamic Studies is offered in Autumn Semester each year. The admission is announced in National and Regional newspapers each year. Prospectus can be downloaded from the university website. All applications are evaluated on the basis of approved criteria. ***A departmental test/subject test will be arranged for the eligible/short-listed candidates.*** The admission is confirmed after passing the subject test/interview & depositing admission fee.

#### 5. Departmental Test/ Interview:

The departmental Test for admission and Interview of eligible/short listed candidates will be held at AIOU Main Campus H-8, Islamabad. ***The criteria for short-listing along-with schedule of written test/interview will be displayed at the website of AIOU (www.aiou.edu.pk) & Face-book page of the department (www.facebook.com/Department-of-Islamic-Thought-History-Culture-AIOU) as per mentioned schedule on advertisement. No call letters will be sent to the candidates for Test / Interview.***

#### 6. Important Notice:

1. The eligible candidates (for interview) are required to bring along-with them all original educational documents/ degrees (with two sets attested copies) /thesis/ research paper/ experience certificates (if any) for verification.
2. Candidates will not be allowed to sit in the Written Test without showing I.D. Card. No TA/DA is admissible for Test & Interview.

#### 7. Scheme of Studies:

S. No.	Name of Programme	MPhil in Islamic Studies
1.	Duration	Course work: Two Semesters Research work/Thesis: Two Semesters
2.	Credit	As per AIOU/HEC rules& Regulations
3.	Medium of Instruction	(i)Urdu (ii) English(iii)Arabic
4.	Research Work	i) The research work must be distinct contribution to knowledge and afford evidence to originality, shown either by the discovery of new facts or by the exercise of independent critical judgment. ii) The student will be required to observe the guidelines regarding format, writing, referencing, paper and other related matters as approved in AIOU rules & regulations.

5.	Components of Course Work	1) Continues Assessment 2) Face to Face teaching (48 hours per 03 credit hours in each semester) 3) Mid-term Examination 4) Final Examination
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	4.	Principles, Methods of Islamic Fiqh & Objectives of Shari'ah	6812	03
<b>3<sup>rd</sup> &amp; 4<sup>th</sup> Semester</b>	1.	Thesis	6805	12

### 8. Detail of Courses

Semester	Sr. #	Course Title	Code	Cr. Hrs
<b>1<sup>st</sup> Semester</b>	1.	Basic Sources of Islamic Sciences & Thought	6809	03
	2.	Principles & Methods of Research	6806	03
	3.	Ijtihad History, Principles & Methods	6807	03
	4.	Orientalism Critical Study	6808	03
<b>2<sup>nd</sup> Semester</b>	1.	Islamic Thought, History & Culture: Principles & Methodology	6801	03
	2.	Islam and Modern Economic and Social Issues	6810	03
	3.	New Dimensions of Research in Islamic Sciences	6811	03

### 9. Fee Structure MPhil Islamic Studies:

Sr.	Nature of Fee	Amount	Description
1	Admission fee	Rs.1500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.1000/-	Once at the time of Admission
3	Tuition fee for 12 credit hours course.	Rs.16800/-	(Rs.4200/- per 3 credit hours A Student can take 12 credit hours in one semester
4	Technology Fee	Rs.500/-	Each semester
5	Total Fee for First Semester	<b>Rs.19800/-</b>	
6	Thesis Fee 12 Credits hours	Rs.16800/-	3 <sup>rd</sup> & 4 <sup>th</sup> Semester
7	Thesis Evaluation Fee (12Credit Hrs.)	Rs.16800/-	This fee will be paid at the time of submission of thesis

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.

**Any query / information during fill the online admission form please contact the following:**

**Chairman/Program Coordinator  
Department of Islamic Thought, History & Culture  
AIOU, Block No.12, Room No.102  
Sector H-8 Islamabad. Phone No. 051-9057832  
Email: dit@aiou.edu.pk**

## **b) PhD Islamic Studies Program (MPhil Based)**

### **1. Profile of the Program**

The Department of Islamic Thought, History and Culture has been offering PhD Islamic Studies. At present the Department is offering MPhil based PhD program. The PhD students are required to complete specific course work & research work under the supervision of a qualified supervisor. This Program requires 3 to 5 years' time for completion. The students complete research work under qualified supervisors, however the degree is awarded after the evaluation of the thesis by three foreign experts from technologically advanced countries as per required Criteria of HEC. This Program is designed to carry out research in different fields of Islamic Studies so that new

aspects can be discovered & students can exercise independent critical judgment through the research skills for the service of Islamic & Muslim communities.

### **2. Aims & Objectives of PhD Islamic Studies**

The PhD Islamic Studies Program aims to:

- Prepare scholars who have grasp on Islamic Studies in general and command over the areas of specialization in particular.
- Establish a cadre of specialists and professionals in different fields of Islamic Studies who can provide effective leadership in guiding and conducting quality research in various disciplines of Islamic Studies.
- Provide opportunities of professional growth and development to scholars in general and in-service personnel in particular.

### **3. Eligibility for Admission**

- MPhil Islamic Studies or equivalent from any recognized university in first division or C.G.P.A 3.00.
- Departmental Test/Interview by the PhD Admission Committee

### **4. Procedure for Admission**

The Admission in PhD Program is usually advertised in Autumn Semester each year, in almost all national and important regional newspapers. Prospectus can be downloaded from the university website. All applications will be evaluated on the basis of approved criteria. Short-listed candidates will be called for Departmental test and interview. The admission will be confirmed after depositing admission fee.

## 5. Scheme of Studies

Sr. No.	Name of Programme	PhD in Islamic Studies
1.	Duration	Maximum Five Years
2.	Medium of Instruction	(i) Urdu (ii) English (iii) Arabic
3.	Coursework	18 Credit Hours Course Work
4.	Research work	The thesis of PhD must be distinct contribution to knowledge and afford evidence to originality, shown either by the discovery of new facts or by the exercise of independent critical judgment.
5.	Evaluation	As per amendments in AIOU rules & regulations, a PhD thesis is necessary to be sent for evaluation to three foreign experts from advanced countries.
6.	Pre-requisite of viva voce of PhD Islamic Studies	Unconditional approval from at least two foreign experts. Publication of research paper in HEC recognized research journal.
7.	Components of Coursework	1) Continues Assessment 2) Face to Face teaching (48 hours per 03 credit hours in each semester) 3) Mid-term Examination 4) Final Examination 5) Comprehensive Examination

## 6. Details of Course Work PhD

Semester	Sr. #	Course Title	Code	Cr. Hrs
<b>1<sup>st</sup> Semester</b>	1.	Applied Research in Islamic Studies	6858	03
	2.	Principles & Methods of Interpretation	6859	03
	3.	Muslim Thinkers & Critical Study of Their Thought	6860	03
<b>2<sup>nd</sup> Semester</b>	1.	Islamic Epistemology & Islamization of Knowledge	6851	03
	2.	Comparative Study of World Civilizations	6861	03
	3.	Challenges to Contemporary Islamic Thought and Possible Solutions	6862	03
<b>3<sup>rd</sup> &amp; 4<sup>th</sup> Semester</b>	1.	Thesis	6870	36

**Any query / information during fill the online admission form please contact the following:**

**Chairman/Program Coordinator**  
**Department of Islamic Thought, History and Culture**  
**Room-102, Block-12, Allama Iqbal Open University**  
**Sector H-8 Islamabad. Phone No. 051-9057832**  
**Email: dit@aiou.edu.pk**

### 7. Fee Structure PhD Islamic Studies:

S. No.	Nature of Fee	Amount	Description
1	Admission fee	Rs.2500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.2500/-	Once at the time of Admission
3	Tuition fee for 3 credit Hour Course	Rs.22500/-	A student can take three courses (3 credit hour course each) in one semester
7	Technology Fee	500/-	Per Semester
8	<b>Total Fee for 1<sup>st</sup> Semester</b>	<b>Rs.28000/-</b>	
10	Thesis Fee 36 Credit Hours	Rs.90,000/-	For 3 <sup>rd</sup> & 4 <sup>th</sup> Semester
	PhD Thesis Evaluation Fee(36 Credit Hours)	Rs.90,000/-	This fee will be submitted at the time of submission of PhD Thesis

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.

### DEPARTMENTS OF THE FACULTY OF ARABIC AND ISLAMIC STUDIES

The faculty of Arabic and Islamic Studies is divided into following academic departments:

1. Department of Quran and Tafseer
2. Department of Hadith and Hadith Science
3. Department of Islamic Thought, History and Culture
4. Department of Shariah
5. Department of Arabic Language and Literature
6. Department of Seerah Studies
7. Department of Interfaith Studies
8. Department of Islamic Economics

The detailed introduction of each department of the faculty is as under:

#### 1. DEPARTMENT OF QURAN AND TAFSEER

The Department of Quran and Tafseer was established in 1999 in the Faculty of Arabic and Islamic Studies to meet the educational needs of masses at various levels ranging from Matriculation to PhD focusing on research based programs in the field of Quran and Tafseer. The Department is presenting many valuable course books and producing scholars in the field of Islamic Studies with specialization in Quran and Tafseer. At present, the Department has offering MPhil & PhD programs in Autumn 2013. Department is producing & selecting valuable books and allied material for their students.

### Faculty Members

Sr. No	Name of The Faculty Member	Designation	Qualification
1.	Dr. Sana Ullah Hussain	Associate Professor/ Chairman	PhD Islamic Studies (with specialization in Quran & Tafseer) (IUB) MPhil Islamic Studies (with specialization in Quran & Tafseer) MA Usooludin (MPhil Islamic Studies), IIU BA (Hons), Usooludin
2.	Dr. Hafiz Muhammad Arshad Iqbal	Assistant Professor	PhD Islamic Studies MPhil Islamic Studies MA Islamic Studies (IUB) MA (Arabic) B.Ed, M.Ed
3.	Dr. Zafar Iqbal	Assistant Professor	PhD Islamic Studies MPhil Islamic Studies
4.	Dr. Souaad Muhammad Abbas	Assistant Professor	PhD Islamic Studies MPhil Islamic Studies
5.	Dr. Muhammad Tayyab	Lecturer	PhD Islamic Studies MPhil Islamic Studies (IIUI) MA (Arabic) BS (Hons)

### Vision

To build Islamic Ummah streamlined with the message of Qur'an by presenting Qur'anic Sciences according to the teachings and vision of the holy Prophet Muhammad (SAW).

### Objectives

1. To teach Quran & its Sciences.
2. To play active role in correct interpretation of Quran and its Sciences for the needs of society.
3. To prepare research scholars, equipped with all branches of Quranic Studies.
4. To develop linkage among different highly reputed national and international institutions of Quran and Tafseer.
5. To conduct advance research on different aspects of Quranic Sciences.
6. To prepare quality Textbooks and Study Guides in the field of Quran and Tafseer from Matriculation to PhD level.
7. To organize national and international workshops/ seminars/ conferences about Quranic Sciences.

### Future Plans

1. Planning to launch a Research Journal entitled "Quranic Studies".
2. Planning to start Non-credit course entitled "Quranic Arabic".
3. Planning to launch Post-doc in Quranic Sciences with collaboration of international institutions.

### Programs Offered by the Department

1. MA Islamic Studies with specialization in Qur'an & Tafseer
2. MPhil Islamic Studies with specialization in Qur'an & Tafseer
3. PhD Islamic Studies with specialization in Qur'an & Tafseer
4. BS Islamic Studies with specialization in Qur'an & Tafseer

### 2. DEPARTMENT OF HADITH & HADITH SCIENCE

This department was established to provide advance studies and research in the field of Hadith and Seerah. The department is also coordinating Matriculation to BA courses. The department is also offering courses of Hadith & Seerah specialization in MA Islamic Studies. A number of valuable books related to Hadith and Seerah have been produced by the department.

#### Faculty Members

Sr. #	Name of The Faculty Member	Designation	Qualification
1	Dr. Muhammad Shahid	Incharge/ Assistant Professor	PhD Islamic Studies (UOS) MPhil Islamic Studies (IUB) MA Islamic Studies (BZU) ShahadatulAlmiya
2	Dr. Naveed Iqbal	Assistant Professor	Ph.D Islamic Studies M.Phil Islamic Studies

### 3. DEPARTMENT OF ISLAMIC THOUGHT, HISTORY AND CULTURE

This department was established to provide advance studies and research in the field of Islamic Thought, History and Culture. To achieve this goal, the department is offering graduate and postgraduate level programs. The coordination of MA Islamic Studies Program as well as the MPhil Islamic Studies is also placed in this department.

#### Faculty Members

Sr. No.	Name of The Faculty Member	Designation	Qualification
1	Prof. Dr. Mohyuddin Hashimi	Dean/ Professor/ Chairman	PhD Islamic Studies MS/MPhil (USA) MPhil Islamic Studies (AIOU) MA Islamic Studies(Peshawar) Shahadatul Almia University Intensive English (Howard USA)
2	Dr. Muhammad Riaz Mahmood	Associate Professor	PhD Islamic Studies MPhil Islamic Studies

3	Dr. Ahmad Raza	Assistant Professor	PhD Islamic Studies MA Islamic Studies ShahadatulAlmiya
4	Dr. Hafiz Tahir Islam Askari	Assistant Professor	PhD Islamic Studies MPhil Islamic Studies MA Islamic Studies ShahadatulAlmiya
5	Mr. Ahmed Abdul Rehman	Lecturer	PhD Islamic Studies (Continue) MS in Islamic Commercial Law MS ShahadatulAlmia from Wafaq-ul-Modering
6	Mr. Hafiz Saeed-ur-Rehman	Lecturer	PhD Islamic Studies (Continue) MPhil Islamic Studies Shahadat-ul-Almia

#### 4. DEPARTMENT OF SHARI'AH

The department of Shariah & Law has been established to conduct advance research in the field of Shariah. To achieve this goal, the department is offering advance level graduate and post graduate programs. The Department is offering specialization in Islamic Law in MA Islamic Studies.

#### Faculty Members

Sr. No	Name of the Faculty Member	Designation	Qualification
1	Dr. Hidayat Khan	Associate Professor/ Chairman	Post Doctorate (RUSI), London PhD Islamic Studies LLM Sharia and Law (IIU) LLB Honors in Sharia and Law (IIU)
2	Dr. Hafiz Rao Farhan Ali	Assistant Professor	PhD Islamic Studies (Fiqh) (NUML) Al-Shahada Al Almiyya B.Ed (AIOU) B.Com (PU)
3	Dr. TahiraIfraq	Lecturer	PhD Sharia LLM (ICL) LLB (Hons) Sharia & Law (IIUI)
4	Dr. Hafiz Moazzaum Shah	Lecturer	PhD Scholar Islamic Studies MPhil Islamic Studies (AIOU) MSc Economics (IB&F) IIUI BS (IB&F) IIUI Al-Shahada Al Almiyya

## 5. DEPARTMENT OF SEERAH STUDIES

This department newly established in 2018 to provide advance studies and research in the field of Seerah. The department is coordinating Dars-e-Nizami Program from Matriculation to BA. A research journal “Seerah Studies” is being published by the department. The department will soon offer its BS, MPhil and PhD programs.

### Faculty Members

Sr #	Name	Designation	Qualification
1.	Prof. Dr. Moeen Uddin Hashmi	Chairman/ Professor	PhD Islamic Studies MPhil Islamic Studies Al-Shahada Al Alimiya MA Islamic Studies
2.	Dr. Muhammad Rafiq Sadiq	Lecturer	PhD Islamic Studies BS (Hons) King Saud University, KSA MA Islamic Studies & Arabic BEd College of Education KSA Riyadh Shahada-tul-Almia from Wafaq-ul-Madaris
3.	Dr. Mujeeb-ur-Rehman	Lecturer	PhD Islamic Studies MPhil Islamic Studies

## 6. DEPARTMENT OF INTERFAITH STUDIES

This department newly established in 2018 to provide advance studies and research in the field of Interfaith. The department is preparing new Program BS, MS/MPhil & PhD and offer it's soon.

### Faculty Members

Sr #	Name	Designation	Qualification
1.	Prof. Dr. Ghulam Shams-ur-Rehman	Professor/ Chairman	PhD Islamic Studies (UK) Post Doctorate (London)
2.	Dr. Hafiz Muhammad Sajjad	Associate Professor	PhD Islamic Studies MPhil Islamic Studies MA Islamic Studies MA Arabic
3.	Dr. Hafiz Farooq Abdullah	Assistant Professor	PhD Islamic Studies MPhil Islamic Studies
4.	Mr. Hassan Baig	Lecturer	MPhil Islamic Studies MA Islamic Studies
5.	Mr. Usman Ali Sheikh	Lecturer	PhD Islamic Studies (Continue) MS Islamic Studies B.A Hons.

## 7. DEPARTMENT OF ARABIC LANGUAGE & LITERATURE

### **Establishment:**

The Department of Arabic Language & Literature is one of the pioneer Departments of the Allama Iqbal Open University, Islamabad (AIOU). This came into being while AIOU was established in 1974.

### **Introduction**

The Department of Arabic Language & Literature is the pioneer Department which was teaching by Radio & Television programs since 1975. Arabic Department & AIOU was introduced by Pakistani Masses by its very first effort & most popular Program named: العربي سهل. It was making its broadcasting & non broadcasting programs from 1975 to year 2000. Decades passed & presently it is running several programs i.e. MPhil in Arabic language and Literature, Masters in Arabic Language and Literature, Lughat-ul-Quraan, ATTC and B.Ed in Arabic, as well as Matric, Intermediate, Bachelors level Arabic Courses are introduced by the Department since 1974 While AIOU has credit of launching Arabic Teachers Training Program(ATTC)in 1984,which is the pioneer Program of Pakistan in Teaching Arabic Language. However, BS 4 years and other Arabic learning programs have also launched from last academic session. The courses of M.A Arabic were also designed before with an emphasis on Arabic language & literature, social and economic thoughts along with religious education. Research in Arabic language and Literature is a regular feature of the Department since 2012, MPhil program in Arabic language and Literature has also been started since 2012 to produce scholars and researchers in Arabic literature.

The department is offering a wide range of courses in Arabic language from Matriculation to M.A, B.Ed., ATTC, SHORT ARABIC Courses and MPhil Level. PhD is to be launched soon, NOC in process). The existing staff of the department is two Assistant Professors and two Lecturers one research associate and other staff.

### **Objectives:**

1. Promotion and Advanced Studies in Arabic Language & Literature
2. To be aware of the language and style of the Holy Quran.
3. Get acquainted with old Arabic poetry literature and modern poetry literature and its attributes.
4. To understand the Arabic alphabet & sound, to distinguish and pronounce all Arabic sound and write it accurately.
5. Be familiar with some of the differences between formal and spoken Arabic.

### **Future Plans:**

- i. Offering of ATTC with collaboration of Al-Azhar University Egypt and with Palestine embassy internationally.
- ii. Establishment of center for Arabic language in AIOU (MOU is being signed with Egypt embassy) several Arabic Courses:
  1. Foundation Arabic Course (Approved)
  2. Diploma in Arabic (Approved)
  3. Arabic Online Course. (Approved)
  4. Arabic for doctors
  5. Arabic for engineers.
  6. Arabic for workers.

### **List of the Programs:**

1. B.S Arabic
2. M.A Arabic
3. M.Phil Arabic

The department is offering short courses & detail of short courses is as under:

- Al Lisan Ur Arabi
- Arbi Bol Chal
- Lughat ul Quran

4. Arabic (Matric)
5. Arabic (Inter-FA)
6. Foundation Arabic course (in progress) one semester
7. Diploma in Arabic (in progress) one semester
8. Arabic online course (in progress) one semester
9. Arabic (BA)

### **Professional Courses:**

Arabic Teachers Training Course (ATTC)

### **MPhil Arabic Program**

#### **1. Aims and Objectives**

- Prepare scholars of research aptitude who can analyze facts in the light of research in Arabic.

- Enhance the skill of research and create better understanding of Islam and contemporary challenges faced by the Muslim Ummah especially in Arabic Language.
- Provide opportunity of learning the methods of use of basic Islamic Sources in Arabic for the purpose of Islamization of contemporary knowledge and laws.
- Prepare scholars who have a grasp of Arabic in general and command over the area of specialization in particular.
- Create good relations with Arabs through learning/ teaching of Arabic language & Literature.
- Establish a cadre of specialists and professionals in different fields of Arabic, who can conduct quality research in various disciplines of Arabic. Provide opportunities of professional growth and development to scholars in general and in-service personnel in particular

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

MA Arabic or equivalent with minimum 2nd division can apply for the admission in MPhil. However, preference will be given to those candidates who have passed all degrees with first division in Arabic as elective subject.

- A significant weight-age is given to the research thesis written for MA Arabic.
- Expertise in Arabic language and Hifz-e-Quran is also considered additional qualification.

- Intermediate and above teaching experience in any recognized college/institution is also given due weight-age in admission criteria.
- Published research papers in approved research journals are also considered in admission criteria.
- The graduates of HEC's approved Wifaq with the degree of Shahadatul Almia can also apply for admission but they must have attached equivalent certificate (by name) from HEC.
- Department Test (Subject based which consists on especially from MA Arabic text books of AIOU) & Interview.

### 3. Detail of Courses for MPhil Arabic

Semester	Sr. #	Course Title	Course Code	Cr. Hrs
1 <sup>st</sup> Semester	1.	اصول تحقيق I	4713	03
	2.	اصول تحقيق II	4714	03
	3.	مصادر اللغة والادب I	4715	03
	4.	مصادر اللغة والادب II	4716	03

2 <sup>nd</sup> Semester	1.	I الدراسات الأدبية	4717	03
	2.	II الدراسات الأدبية	4718	03
	3.	I الدراسات اللغوية	4719	03
	4.	II الدراسات اللغوية	4720	03
3 <sup>rd</sup> & 4 <sup>th</sup> Semester	1.	مقاله/ ريسرچ ورك	4705	12

### 4. Research Work

After the successful completion of course work, the student will have to do research relating to Linguistics or Literature under supervision of the approved supervisor at university level possessing PhD Degree in Arabic. This research shall be completed at least within one year (equal to two semesters)

- The research work must be distinct contribution to knowledge and afford evidence to originality, shown either by the discovery of new facts or by the exercise of independent critical judgment.
- The student will be required to write the thesis in Arabic and observing the guidelines regarding format, writing, referencing, paper and other related matters as approved in AIOU rules & regulations.

## 5. Fee Structure

The fee structure of MPhil Arabic is as under:

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.1500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.1000/-	Once at the time of Admission
3	Tuition fee for 12 credit hours course.	Rs.16800/-	(Rs.4200/- per 3 credit hours) A Student can take 12 credit hrs in one semester
4	Technology Fee	Rs.500/-	Each semester
5	Total Fee for First Semester	<b>Rs.19800/-</b>	
6	Thesis Fee 12 Credits hours	Rs.16800/-	3 <sup>rd</sup> & 4 <sup>th</sup> Semester
7	Thesis Evaluation Fee	Rs.16800/-	This fee will be paid at the time of submission of thesis

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.

## FACULTY MEMBERS

- 1. Dr. Abdul Majeed Baghdadi**  
Chairman, Department of Arabic  
Phone: 051-9057791
- 2. Dr. Sami Ullah Zubairi**  
Assistant Professor  
Phone: 051-9057276
- 3. Mr. Shakeel Ahmad**  
Lecturer  
Phone: 051-9057803
- 4. Dr. Hafiz Haris Saleem**  
Lecturer  
Phone: 0519057769
- 5. Mr. Khurram Shahzad**  
Lecturer

**Any query / information during fill the online admission form please contact the following:**

**Dr. Haris Saleem**  
Program Coordinator  
Department of Arabic, Block-10  
Allama Iqbal Open University, H-8, Islamabad.  
Phone: 051-9057803, 051-9057274

## **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 master's Programs in the areas of Business and Public Administration, which are the 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 and Mass Communication, Pakistani Languages, MPhil in Economics, History and Pakistan Studies. MS in Business Administration, while preparation are being made to launch PhD in Business Administration, Applied Linguistics and History.

The Faculty of Social Sciences & Humanities also offers several bachelors' level Programs in such professional areas like Bachelors in Library & Information Sciences (BLIS),

BS-Business Administration, BS-Commerce and Mass Communication. Thousands of students comprising all demographic grounds 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 mentioned 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 HISTORY**

#### **PhD History Program**

##### **1. Introduction**

The Department of History was established in 1995 as part of the Faculty of Social Sciences & Humanities. The Department of History occupies a prominent place in Allama Iqbal Open University. The aim of the Department is to uphold that position while offering broad range of courses at the undergraduate, graduate and post graduate level across Pakistan. M. Phil Program in History was launched in 2015, aims to provide rigorous training and preparation for doctoral studies. PhD Program in History being as advance research degree, provides an opportunity for students to

produce an original academic research in their area of interest. This Program aims to cater the needs of faculty members working at educational institutions and general public at large. The Program is structured on flexible instructional design that would enable scholars to attain knowledge, complete genuine research and be eligible for departmental promotions, in-service training, and research oriented jobs.

## **2. Objectives**

- The major objective of the Program is to inculcate the sense of History and Historiography through research on local, regional and international History.
- The evolution in historical narrative stemming from historiography of Ancient Pakistan to British India (colonial India) from national politics to international recognition of its social, cultural and indigenous features will be highlighted through specialized study courses.
- The endeavors of Muslim leaders during freedom struggle will be focused.
- The courses on Modern world will be taught to cope up with the global situation around.
- The scholars will be trained in art of writing history by participating face to face in dissertation-writing workshops.

## **3. Eligibility & Procedure for Online Admission**

A candidate seeking admission in PhD Program shall apply by filling up a prescribed online admission form and submit to the Chairperson, Department of History after admissions announcement by the Allama Iqbal Open University.

The minimum entry requirements for admission to PhD (History) are:

1. MS/MPhil/ in History (18 years of education with research thesis) CGPA 3.0 out of 4.0 or I<sup>st</sup> division (60% marks) with thesis is required.

2. The criteria of admission will be based on merit. A written test and interview will be conducted under the auspice of the Departmental Admission Committee, Department of History AIOU Islamabad. The qualifying marks for the subject Test will be 70%.
3. A Merit list will be determined by the department according to the approved criteria.
4. All other rules and instructions applied by Allama Iqbal Open University from time to time will be implied.
5. A candidate will act as full time student of PhD program after depositing the prescribed fee (semester-wise) for the 1<sup>st</sup> semester of course work. In case of failure to deposit the fee as specified, the admission shall automatically be stand cancelled after due date.
6. Admission of PhD scholar will be notified by the Director Admissions after the receipt of admission dues.

## **4. Duration of the Program**

### **Duration**

The minimum duration of the PhD degree shall be six semesters (three years).

### **i Course work**

The minimum period for completion of PhD course work shall be two semesters (one year) and maximum of four semesters (two years) provided the maximum period of five years is not affected.

### **ii Thesis**

The minimum period to complete PhD thesis after confirmation of candidature (date of meeting of BASR in which synopsis is approved) shall be three semesters. (Detailed information regarding thesis can be taken from the Department).

## 5. Medium of Instruction

The medium of instruction and examination will be English.

## 6. Scheme of Studies

The PhD in History Program will comprised of 18 credit hours course work and 36 credit hours of research work.

Semester wise offering of courses will be as under:

### First Semester

S. No.	Course Title	Course Code	Credit Hours
1	British India (1857-1947)-I (A Study of Primary Sources)	7801	3
2	Research Methodology (Theory and Methods)	7802	3
3	History of Modern World since 1945 (China/Central Asia/Eastern Europe)	7803	3

### Second Semester

S. No.	Course Title	Course Code	Credit Hours
1	Historiography: (Modern Trends)	7804	3
2	British India(1857-1947)-II ( A Study of Urban Politics)	7805	3
3	History of Pakistan (1947-88)-I (Governance, Political Culture and Democracy)	7806	3

### Third Semester

1	Synopsis Workshop (Compulsory) Dissertation	7810	36
<b>Total Credit Hours</b>			<b>54</b>

## 7. Instructional Methodology

The following will be the instructional methodology of the PhD Program in History.

### a) 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 will return the same after marking and providing necessary academic guidance.

### b) Classes

1. The instructional modes shall include student and tutor face to face contact for approved prescribed period/scheduled teaching classes, video conferencing, email, internet, telephone coaching on prescribed schedules, broadcast and non-broadcast audio visual program etc.
2. The number of compulsory face to face teaching hours shall be 48 for each course (3 credit hours).

### c) Student Counseling

Student's counseling is provided regarding academic matters through telephone, email, etc. by concerned Faculty Member.

### d) Synopsis Orientation Workshop

The department will hold a two-week Synopsis Orientation Workshop to identify the topics for students' research and develop the synopses for their PhD thesis. The synopses will

then be submitted to the Board of Advance Studies and Research (BASR) for approval.

Students shall submit detailed research proposals in the third semester (after the completion of course work).

Participation of the students in Synopsis Orientation Workshop will be mandatory.

**e) Thesis**

A student is required to carry out research work under a trained supervisor having PhD degree in the relevant field. Only those students will be given admission in thesis that successfully passes the comprehensive examination.

**8. Course Work Evaluation**

The distribution of the marks of each 3 credit hours course work of PhD shall be as follows:

A. Continuous Assessment & Mid-Term	50% (20+30)
B. Final Examination	<u>50%</u>
<b>Total</b>	<b>100%</b>

(Pass percentage in each component will be 70%)

**9. Comprehensive Examination**

a) After successful completion of course work the students will appear in comprehensive examination (written exams and viva voce).

- b) Each PhD candidate will be given maximum of two chances to clear the comprehensive examination.
- c) The passing percentage in comprehensive exam shall be 70 percent; however, no grades will be awarded to the candidate.

**10. Thesis Evaluation**

- a) On completion of PhD research thesis the student will be required to submit five spiral bound copies of the thesis to the supervisor.
- b) Supervisor will send five spiral bound copies of the thesis to the Chairman with a signed certificate along with a duly filled in checklist provided by the University.

**11. Public Defense**

The PhD viva-voce will be an open defense. The topic, time and place of viva-voce will also be notified by Chairman of the Department on Notice Boards in the University as an invitation to all those who want to attend the viva-voce.

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.

## Fee Structure

The fee structure of PhD History is as under:

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.2500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.2500/-	Once at the time of Admission
3	Tuition fee for 9 credit hours course.	Rs.22500/-	(Rs.7500/- per 3 credit Hours)
4	Technology Fee	Rs.500/-	Each semester
5	Total Fee for First Semester	<b>Rs.28000/-</b>	
6	Thesis Fee 36 Credits hours	Rs.90000/-	For 3 <sup>rd</sup> & 4 <sup>th</sup> Semester
7	Thesis Evaluation Fee	Rs.90000 /-	This fee will be paid at the time of submission of thesis

## 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.

### 1. Dr. Samina Awan

Chairperson/Professor

Ph: 051-9250073, 051-9057821

Email: samina.awan@aiou.edu.pk

### 2. Dr. Kishwar Sultana

Associate Professor

Ph: 051-9057837

Email: kishwar.sultana@aiou.edu.pk

### 3. Dr. Kausar Parveen

Associate Professor

Email: kausar.parveen@aiou.edu.pk

### 4. Dr. Abdul Basit Mujahid

Assistant Professor

Ph: 051-9057822

### 5. Ms. Sadia Aziz

Assistant Professor

Ph: 051-9057686

Email: sadia.aziz@aiou.edu.pk

### 6. Dr. Fozia Umar

Lecturer

Ph: 051-9057686

Email: fozia.umar@aiou.edu.pk

### 7. Dr. Muhammad Sajid Khan

Lecturer

Ph: 051-9057829

### 8. Office:

Ph: 051-9250073, 051-9057821

## DEPARTMENT OF PAKISTANI LANGUAGES

### PhD Pakistani Languages and Literature

#### 1. Introduction

The Department of Pakistani Languages is offering PhD Pakistan Languages and Literature program. The PhD students are required to complete specific course work & research work under the supervision of qualified supervisors. This Program requires specific time for completion. The student complete research work under Pakistani supervisors however the degree is awarded after the evaluation of the thesis by three foreign experts from technological advanced countries as required by HEC. This Program is designed to carry out research in different fields so that new aspects could be discovered by applying independent critical judgment through the research skills.

#### 2. Aims and Objectives of the PhD Program

PhD Program is designed to:

- 1) Produce scholars who have a grasp of the discipline in general and a command over the area of specialization in particular.
- 2) Establish a cadre of specialists and professionals in different fields of scholarship who can provide effective leadership in guiding and conducting quality research in various disciplines.
- 3) Provide opportunities of professional growth and development to scholars in general and in-service personnel, in particular.

#### 3. Eligibility for Admission in PhD Pakistani Languages & Literature (with the Specialization in Balochi, Brahui, Pashto, Sindhi, Sariaki & Punjabi)

- MPhil Pakistani Languages and Literature from AIOU in first division (in Annual System) or CGPA (3.0 out of 4) in Semester System. Merit will be determined by the department according to the approved criteria.
- Test and interview by the PhD admission Committee.

#### 4. Admission Procedure

A candidate seeking admission in PhD Program shall apply on the prescribed form to the concerned department on the announcement of admission by the University.

- i. A candidate holding MPhil degree with CGPA 3.0 out of 4 (or 1st Division) shall apply for admission in PhD on prescribed admission form.
- ii. A candidate will become full time student of PhD Program upon depositing the prescribed semester based fee for the 1st semester of course work for each Program in case of failure to deposit the fee as specified, the admission shall automatically stand cancelled after due date.
- iii. Admission of the selected candidates in PhD Program will be notified by the Director BASR after the receipt of admission dues.
- iv. A student admitted in PhD Program and a specialization thereof, wherever applicable, shall not be allowed to change his/her Program or specialization. The candidate shall have to apply a fresh for admission to another Program or specialization after discontinuation of the earlier Program/ specialization.

### 5. Scheme of Studies

A candidate seeking admission in PhD Program shall apply on the prescribed form to the concerned department on the announcement of admission by the University.

1.	Duration	Three to Five Years
2.	Credit Hours	As per HEC Rules
3.	Medium of Instruction	Urdu
4.	Course Work	18 Credit Hours of course work as required by HEC
5.	Research Work	The thesis of PhD must be distinct contribution to knowledge and must offer evidence to originality shown either by the discovery of new facts or by the exercise of independent critical judgment.
6.	Class Work	As per AIOU rules for PhD
7.	Evaluation	In the light of AIOU rules PhD thesis is necessary to be sent for evaluation to three foreign experts from technological advanced countries.
8.	Pre Requisite of Viva Voice of Pakistani Languages & Literature	<ul style="list-style-type: none"> <li>• Unconditional approval from at least two foreign experts.</li> <li>• Publication/Acceptance of one research paper in HEC recognized research journal.</li> </ul>

9.	Components of Course Work	<ol style="list-style-type: none"> <li>1. Assignments</li> <li>2. Face to Face Teaching</li> <li>3. Mid Term Exam</li> <li>4. Final Examination</li> <li>5. Comprehensive Exam</li> </ol>
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### Details of Course Work of PhD in Pakistani Languages & Literature

Semester	Course offered	Course Code	Credit Hours
1 <sup>st</sup> Semester	General Linguistics	6711	03
	Pakistani Languages: Common Literary and Linguistic Heritage (i)	6712	03
	Pakistani Languages: Common Literary and Linguistic Heritage (ii)	6713	03
2 <sup>nd</sup> Semester	World Classical Literature	6714	03
	Translation Skills	6715	03
	Thesis Writing	6716	03
3 <sup>rd</sup> – 4 <sup>th</sup> Semester	Thesis	6717	36
Synopsis Orientation Workshop – After Course Work			
Seminars	Two seminars before submission of thesis in the Department		

## 6. Fee Structure

The fee structure of PhD Pakistani Languages is as under:

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.2500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.2500/-	Once at the time of Admission
3	Tuition fee for 9 credit hours course.	Rs.22500/-	(Rs.7500/- per 3 credit Hours)
4	Technology Fee	Rs.500/-	Each semester
5	Total Fee for First Semester	<b>Rs.28000/-</b>	
6	Thesis Fee 36 Credits hours	Rs.90000/-	For 3 <sup>rd</sup> & 4 <sup>th</sup> Semester
7	Thesis Evaluation Fee	Rs.90000 /-	This fee will be paid at the time of submission of thesis

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.

**Note: Admission form complete in all respect must be submitted online on AIOU website.**

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

**1. Prof. Dr. Abdullah Jan Abid**

Chairman, Department of Pakistani Languages,  
Block No.5, Sector - H-8,  
Allama Iqbal Open University,  
Islamabad.  
Phone No. 051-9250071

**2. Dr. Abdul Wajid**

Program Coordinator  
Department of Pakistani Languages,  
Block No.5, Sector - H-8,  
Allama Iqbal Open University,  
Islamabad.  
Phone No. 051-9057893

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

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 center of excellence in the discipline of Business Management. The Department has assembled outstanding teaching faculty and developed extensive teaching material for the improvement of education in Pakistan.

The department is offering BBA, PGD, MS Management Sciences and PhD Business Administration. The department is introducing MBA Program revised as per the new guidelines of NCRC in Autumn, 2020. It is hoped that these programs would contribute significantly to the national goal of development of professions equipped with modern business techniques. These programs are designed to provide an opportunity to upgrade the skills and enhance professional qualifications of the future managers. Further, we are of the opinion 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 PhDs, MPhil/MS both from national and foreign universities.

The department is offering various programs in order to achieve the following objectives:

- i. To prepare graduates for public and private sector organizations and to equip them to cater the needs of complex and changing business environment.
- ii. To encourage continuous learning and habitual receptiveness, explore the new ways of identifying and dealing with opportunities and problems, to face future business challenges.
- iii. To provide the business students bottom to top management orientation skills, enhance their business skills, enable them to integrate theory business into practice in their daily lives.

### **MASTER OF BUSINESS ADMINISTRATION (MBA) PROGRAM**

#### **1. Introduction:**

The purpose of MBA Program is to enable business and non-business students and professionals to better respond to the organizational demands and to help them acquire the skills needed for managing self and meet organizational needs in a better way. The courses of MBA are aimed at developing an understanding of the ways in which individuals and groups behave in relation to an organization and have expertise in the area of management. It also focuses on the way organizations to shape individual action and are in-turn shape the society. The specialized courses of MBA Program will enable the students to

develop an understanding of particular kind of organizations and to learn different skills appropriate to administrative tasks associated with these organizational types.

It is designed to enable students to develop knowledge and skills appropriate for them to effectively manage their own activities with an organization. At Department of Business Administration, the combination of theory and practice blended to formulate its Programs.

**2. Program Summary:**

	<b>For Non-Business Graduates</b>	<b>For Business Graduates</b>
<b>Program Duration</b>	<b>2 Years</b>	<b>1.5 Years</b>
<b>Program Credit Hours</b>	<b>60</b>	<b>30</b>

**3. Objectives:**

- i. To develop the business graduates as per the requirements of the public and private sector organizations and to equip them to cater the needs of complex and dynamic business environment.
- ii. To provide the business students and professionals’ bottom to top management orientation, enhance their business skills, and integrate theory into practice in the professional lives.
- iii. To encourage continuous learning and habitual receptiveness, explore the new ways of identifying and

dealing with the opportunities and problems, and face future business challenges.

**4. Duration and Specializations:**

As per guidelines of HEC, MBA will spread over 4 semesters for Non Business graduates and 3 semesters for applicants with business education. The Program consists of 60 credit hours and 30 credit hours for non-business and business education holder applicants respectively. The minimum period required for its completion will be 2 years for applicants having non-business education and 1.5 years for the applicants having business education while maximum period will be 4 years. MBA is a program at 18 years of education will be offered on face-to-face basis. However, department reserves the right to offer it online keeping in view the situation.

**5. Eligibility:**

Applicants having 16 years of education from any HEC recognized institution with minimum 50% marks or equivalent CGPA would be eligible to apply.

**6. Written Test/ Interview:**

Admission will be given to selected candidates on the basis of merit. University admission test will be exempted to candidate having minimum 50% score of GRE (Subject) or equivalent as per HEC policy.

**7. Admission Procedure:**

There shall be an MBA admission committee of the department responsible to finalize the admission.

Admission in MBA Program will be made once a year as decided by the Competent Authority. Applications will be invited through the daily newspapers/AIOU website as per AIOU policy.

Preliminary selection of the candidates will be made strictly on the basis of strictly on the basis of Written Test and Interview Conducted by the Department. Total number of seats would be 50 for business graduates and 50 for non-business graduates.

Written test would be decided by the department either arranged by AIOU or NTS.

MBA Program will be merit based; therefore, any fees/dues will not be required to be deposited until applicant receives the admission letter from the Admission Department of the University.

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 Director Admission confirming the admission of the candidate.

The prevailing University rules and regulations regarding MBA and MS programs enforced from time to time shall strictly be followed for this program.

### 8. Scheme of Studies:

The detail of courses and tentative semester wise offering of courses in MBA Program will be as under. However, the department reserves the right to change its offering at any time, if desired so. The detail of courses and semester wise offering of courses is as under:

### For Non-Business Graduates (2-Years):

The Department will reserve the right to offer any elective courses in a given semester. Students will complete 60 credit hours in total as per scheme of studies provided by the department in order to fulfill the degree requirements.

#### Semester-I

Sr.#	Course Title	Code	Credit Hours
1.	Financial Accounting	8501	3
2.	Management Theory & Practice	8506	3
3.	Business Communication	8570	3
4.	Business Mathematics & Statistics	8532	3
5.	Marketing Management	8511	3

#### Semester-II

Sr.#	Course Title	Code	Credit Hours
1.	Managerial Accounting	8508	3
2.	Business Research	8510	3
3.	Production & Operations Management	8509	3
4.	Consumer Behavior	8515	3
5.	Project Management	8516	3

**Semester-III**

Sr. #	Course Title	Code	Credit Hours
1.	Financial Management	8513	3
2.	Organization Behaviour	8517	3
3.	Human Resource Management	8502	3
4.	International Business & Finance	8536	3
5.	Managerial Economics	8522	3

**Semester-IV**

Sr. #	Course Title	Code	Credit Hours
1.	Business Policy & Strategy	8505	3
2.	Elective – I		3
3.	Elective – II		3
4.	Elective – III		3
5.	Elective – IV		3

**OR**

Sr. #	Course Title	Code	Credit Hours
1.	Business Policy & Strategy	8505	3
2.	Elective – I		3
3.	Elective – II		3
4.	Research Project	8565	6

**2 Electives courses to be chosen and 2 additional elective courses in lieu of Research Project**

**List of Elective Courses**

Sr. #	Course Title	Code	Credit Hours
1.	Corporate Finance	8524	3
2.	Investment and Securities Management	8545	3
3.	Analysis of Financial Statements	8551	3
4.	Behavioral Finance	5595	3
5.	Strategic Human Resource Development	8539	3
6.	Organizational Theory and Design	8540	3
7.	Human Resource Change Management	8542	3
8.	Industrial & Organizational Psychology	8596	3
9.	International Marketing	8527	3
10.	E-Marketing	8529	3
11.	Strategic Marketing	8537	3
12.	Strategic Brand Management	8548	3
13.	Financial Markets & Institutions	8525	3
14.	Marketing of Services	8528	3
15.	Distribution Channels	8530	3
16.	International Human Resource Management	8541	3

Sr. #	Course Title	Code	Credit Hours
17.	Risk Management & Insurance	8546	3
18.	Retail Management	8549	3
19.	Islamic Banking	8552	3
20.	International Financial Management	8543	3
21.	Leadership in Organizations	5597	3

#### For Business Graduates (1.5 Years):

The Department will reserve the right to offer any elective courses in a given semester. Students will complete 30 credit hours in total as per scheme of studies provided by the department in order to fulfill the degree requirements.

#### Semester-I

Sr. #	Course Title	Code	Credit Hours
1.	Managerial Accounting	8508	3
2.	International Business and Finance	8536	3
3.	Production & Operations Management	8509	3
4.	Consumer Behavior	8515	3

#### Semester-II

Sr. #	Course Title	Code	Credit Hours
1.	Financial Management	8513	3
2.	Business Policy & Strategy	8505	3
3.	Advanced Research Methods	8535	3
4.	Corporate Governance	8723	3

#### Semester-III

Sr. #	Course Title	Code	Credit Hours
1.	Elective – I		3
2.	Elective – II		3
<b>OR</b>			
3.	Research Project	8565	6

#### List of Elective Courses

Sr. #	Course Title	Code	Credit Hours
1.	Corporate Finance	8524	3
2.	Analysis of Financial Statements	8551	3
3.	Organizational Theory and Design	8540	3
4.	Human Resource Change Management	8542	3
5.	Strategic Brand Management	8548	3
6.	Strategic Marketing	8537	3
7.	Corporate Finance	8524	3

Sr. #	Course Title	Code	Credit Hours
8.	Analysis of Financial Statements	8551	3
9.	Organizational Theory and Design	8540	3
10.	Human Resource Change Management	8542	3
11.	Strategic Brand Management	8548	3
12.	Strategic Marketing	8537	3
13.	Financial Markets & Institutions	8525	3
14.	International Marketing	8527	3
15.	Marketing Services	8528	3
16.	E-Marketing	8529	3
17.	Distribution Channels	8530	3
18.	Strategic Human Resource Development	8539	3
19.	International Human Resource Management	8541	3
20.	Human Resource Change Management	8542	3
21.	Investment & Securities Management	8545	3
22.	Risk Management & Insurance	8546	3
23.	Retail Management	8549	3
24.	Islamic Banking	8552	3
25.	Industrial & Organizational Psychology	5596	3
26.	International Financial Management	8543	3
27.	Leadership in Organizations	5597	3

### **9. Medium of Instruction:**

The medium of instruction and examination will be English.

### **Assignments**

The students will submit two compulsory assignments for each 03 credit hours course to their resource person who return the same after marking and providing necessary academic guidance.

### **Classes**

MBA is a face-to-face program. However, in lieu of tutorials, workshop component (equivalent to 48 hours in each course) is adopted in this program. MBA workshops will be conducted in two phases. First phase (for 20 days) will be conducted in the beginning of the semester and second phase (for 20 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. However, depending on the situation, Department of Business Administration reserves the right to offer these workshops online. 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, workshop is mandatory component of scheme of studies and only one chance is available to pass the workshop.

### 10. Evaluation Scheme

Component Assessment	Marks	Weight-age in the Aggregate Result
Assignment No. 1	100	10%
Assignment No. 2	100	10%
Mid Term	100	30%
Final Examination	100	50%

For successful completion of each course the student will be required to qualify each component.

To take final examination, the student has to pass in assignments and should have 75% attendance in the workshops.

The conditions to qualify each component are given below:  
*A minimum of 50% marks in assignments (aggregate).*  
*A minimum of 50% marks in final written examination.*  
*75% attendance in workshops.*

### 11. Degree Requirements:

Noncredit viva voce will have to be passed by every candidate after the completion of the course work.

### 12. Degree Requirements:

Degree will be awarded on the successful completion of required courses

### 13. Fee Structure

Item	Fee
Registration Fee: (At the time of first admission)	Rs.1000/-
Admission Fee: (At the time of first admission)	Rs.1500/-
Course Fee :( per course)	Rs.7500/-
Project Fee: (6 credit hours)	Rs.15, 000/-
Project Evaluation Fee: (Once at the time submission of Project)	Rs.15, 000/-
Technology Fee (per semester)	Rs.500/-

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.

### 14. Rules and Regulations:

Rules and regulations, in line with HEC guidelines and applicable in AIOU as amended from time to time, will be adopted in this program.

## DEPARTMENT OF PAKISTAN STUDIES

### MPhil Pakistan Studies Program

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 program was first offered in 1985. Since then, it has produced a large number of graduates who are serving the nation in various capacities and bringing pride to the Department of Pakistan Studies. It has been a long standing demand of our students holding MSc degree to launch MPhil Pakistan Studies program. Now the Department has started MPhil Pakistan Studies with a view to cater 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 MPhil Pakistan Studies program 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. The applicant requires qualifying 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 Four-years. The minimum period for completion of course work is two semesters (one year) and the maximum period is four semesters (two years).

The minimum period for completing research work (thesis) is two semesters (one year) and the maximum period is four semesters (two years) provided the condition of Four-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 thesis in Pakistani languages.

### 6. Scheme of Studies

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

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

#### 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>Total Credit Hours</b>	<b>12</b>

### 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>Total Credit Hours</b>	<b>12</b>

### Third and Fourth Semesters

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

### 7. Online Workshops

#### 7.1 Course Workshops:

It would be mandatory for the scholars to attend online workshops of each semester as per university schedule.

#### 7.2 Synopsis Orientation Online Workshop:

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

## 12. Assessment

The distribution of the marks of each 3 credit hours course work of MPhil shall be as follows:

- A. Continuous Assessment & Mid-Term            50% (20+30)  
B. Final Examination                                    50%

**Total 100%**

(Pass percentage in each component will be 50%)

## 8. Fee Structure MPhil Pakistan Studies program

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.1500/-	This fee will be paid with the fee of first semester
2	Registration fee	Rs.1000/-	Once at the time of Admission
3	Tuition fee for 12 credit hours course.	Rs.16800/-	(Rs.4200/- per 3 credit Hours) A Student can take 12 credit hours in one semester
4	Technology Fee	Rs.500/-	Each semester
5	Total Fee for First Semester	<b>Rs.19800/-</b>	
6	Thesis Fee 12 Credits Hours	Rs.16800/-	3 <sup>rd</sup> & 4 <sup>th</sup> Semester
7	Thesis Evaluation Fee	Rs.16800 /-	This fee will be paid at the time of submission of thesis

## Faculty Members

For academic assistance, please contact the following faculty members of the Department of Pakistan Studies, AIOU, Block No. 9, H-8 Islamabad.

### Name and Designation

**1. Prof. Dr. Badshah Sardar**

Professor / Chairman  
Ph: 051-9576750

**2. Dr. Samina Yasmeen**

Associate Professor  
Ph: 051-9576769

**3. Malik Akhtar Hussain**

Assistant Professor  
Ph: 051-9576768

**4. Dr. Khalid Mahmood**

Lecturer  
Ph: 051-9057831

**For further information, please Contact:  
Department of Pakistan Studies  
Block No 9, Main Campus, Sector H-8,  
Allama Iqbal Open University, Islamabad  
Ph: 051-9250074  
E-mail: pakstudy@aiou.edu.pk**

## FACULTY OF SCIENCES

Faculty of Sciences forms an integral part of the university. Since its establishment in 1982 with five teaching departments, it has undergone major development changes. It now comprises of nine teaching and research departments which are offering courses at the undergraduate and postgraduate levels to more than ten thousand students. The Faculty operates under the basic guidelines of the University Act and on “Education for All as Convenient” basis so that maximum students get benefit from its academic 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 postgraduate study programs. Improvement in qualification 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.

All the department (Agricultural Sciences, Biology & Environmental Sciences, Chemistry, Environmental Design, Health and Nutritional Sciences, Computer Sciences, Physics, Mathematics, Statistics & Engineering & Technology of Faculty of Sciences are running a variety of postgraduate technical, scientific and professional programs successfully.

The departments are equipped with computer lab for practical work, teaching, research and instrumentation labs for analysis. The University is developing these labs through its own resources. The Faculty of Sciences is thankful to the Vice-Chancellor, for giving personal attention to the development of the Faculty of Sciences by providing generous amount of funds and valuable guidance.

Two model labs have also been developed in the Research Complex, with the assistance of the Higher Education Commission to meet the training needs of science teachers.

Around 80 highly qualified full-time faculty members are on the roll of the Faculty of Sciences. Their role in the planning, designing and development of different courses, to meet students’ needs is vital. Faculty members also engage in imparting and supervising of instructions so that high standards are maintained. In addition, highly qualified and experienced Professors are also engaged on contract or as part time instructors, for postgraduate study programs. The University faculty is also offering academic positions under tenure track system to attract the best minds in scientific and technological fields, as a full time employee of the university.

Research is an integral part of postgraduate study programs leading to MSc, MPhil, and PhD degrees in Agricultural Sciences, Chemistry, Computer Sciences, Environmental Design, Health and Nutritional Sciences (EDH & N Sciences), Mathematics, Statistics and Physics. Rules and regulations

for 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 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 the four year BS program in sciences in various disciplines comprising 124–140 credits. This four-year BS program is structured according to the recent policies of the Higher Education Commission for the improvement of standard of education to bring it at par with the international standards.

## **DEPARTMENT OF CHEMISTRY**

The department of chemistry was established in March 1998. Its faculty consists of four Associate Professors, four Assistant Professor, three Lecturers and two Research Associates. 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 Spectrophotometers, 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 the following programs:**

1. BS Chemistry (Organic, Inorganic and Physical Chemistry Specialization)
2. M.Sc Chemistry (Organic, Inorganic and Physical Chemistry Specialization)
3. M.Phil Chemistry
4. PhD Chemistry

## **MPhil and PhD (Chemistry)**

### **1. Introduction**

The Department of Chemistry is offering MPhil Chemistry and PhD Chemistry programs at main campus, AIOU. Currently specialization is being offered in the field of Organic chemistry. Later on, specialization in other branches of Chemistry will be offered.

### **2. Objectives**

MPhil and PhD Chemistry programs are research based degrees main objective of these programs is to inculcate the culture of research and innovation through high quality work. The capacity to devise, design and conduct research that has real academic weight.

### **3. Eligibility**

#### **(a) MPhil Chemistry**

A person holding M.Sc/BS (at least 2<sup>nd</sup> division) in Chemistry is eligible to apply for admission in MPhil Chemistry Program. Admission will be entirely on merit and restricted to the number of seats available. The department will conduct written test and interview for admission.

#### **(b) PhD Chemistry**

Candidates holding MS/MPhil or equivalent degrees in Chemistry with CGPA 3.0 in semester system or equivalent are eligible to apply for PhD Program.

### **4. Admission Procedure**

The Department will conduct written test and interview for admission. Students are required to apply online <http://online.aiou.edu.pk>. Since admission in MPhil and PhD programs is strictly on merit, only selected candidates will be informed and asked to deposit the prescribed fee. In case of admission, if a candidate fails to deposit fee within prescribed period, it would be assumed that the student is not interested in getting admission. The department may invite a candidate from waiting list for admission against the vacant seat.

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

**051-9057754, 051-9250081**

### **5. Scheme of Studies**

#### **Scheme of Studies for MPhil Chemistry**

- i. A student will have to complete total 24 credit hours of course work in the first and second semesters.
- ii. In the third & fourth semesters, student will conduct research and thesis on approved topic as per AIOU rules.
- iii. The minimum period to complete research thesis shall be two semesters.
- iv. The maximum period for the completion of MPhil Degree program is four years (8 semesters) only.

**List of MPhil Chemistry Theory Courses**  
Semesters: I & II

Course Code	Course Title	Credit Hours
1700	Medicinal Chemistry	3
1745	NMR Spectroscopy	3
1746	Advanced Heterocyclic Chemistry	3
1751	Advanced Organic Synthesis	3
1752	Advanced Stereochemistry	3
1753	Natural Products	3
1754	Reactive Intermediates in Organic Chemistry	3
1755	Organometallic Chemistry	3
1759	Structure Elucidation of Organic Compounds by Spectroscopy	3
1761	Organic Polymer Chemistry	3
1763	Chemistry of Primary Metabolites	3
1770	Plastic Materials	
1772	Theoretical background of Organic Lab. Techniques	3
1773	Organic Spectroscopy	3
1774	Homogenous Catalysis	3

**Note:** Any four courses will be offered in the 1<sup>st</sup> semester, subject to the availability of experts. In the 2<sup>nd</sup> semester any four courses from the remaining courses will be offered.

**MPhil Chemistry Thesis**

**(b) Scheme of Studies for PhD Chemistry**

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

### List of PhD Chemistry Theory Courses

#### Semesters: I & II

Course Code	Course Title	Credit Hours
1756	Organic Photochemistry	3 (3+0)
1757	Pericyclic Chemistry	3 (3+0)
1758	Reaction Mechanism	3 (3+0)
1762	Quantum Organic Chemistry	3 (3+0)
1765	Advanced Nuclear Magnetic Resonance (NMR) Spectroscopy	3 (3+0)
1766	Special Topics in Chemistry	3 (3+0)
1767	Mass Spectrometry	3 (3+0)
1768	Special Techniques in Organic Synthesis	3 (3+0)
1769	Theoretical Aspects of Spectroscopy	3 (3+0)
1789	Literature Review and Seminar	3 (3+0)
1799	Instrumental Methods of Analysis	3 (3+0)

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

#### **PhD Chemistry Research Work & Thesis (Semester III – V)**

Semester	Course Code	Course Title	Credit Hours
III – V	1764	Research Work & Thesis	36

### **6. Assessment:**

#### **Continuous Assessment**

Continuous assessment will be based on assignments and mid-term exams. The pass percentage in continuous assessment will be 50% in MPhil and 70% in PhD. The weight-age of this component in the final result will be 50%.

#### **Final Examination**

Final examination of 100 marks for each three credit theory course will be conducted at the end of semester for both MPhil and PhD. The pass percentage in final examination will be 50% in MPhil Chemistry and 70% in PhD and its weight-age in the final result will be 50%. The student will have to pass in each component independently to be declared successful in the course.

**Note:** If a student fails to achieve the required aggregate in any of the assessment component of a particular course he/she will have to re-enroll in that 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. MPhil thesis will be evaluated by two national experts and 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.

### 7. Attendance:

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

### 8. Fee Structure MPhil Chemistry:

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (for 12 credit hours) + Laboratory Charges (once in 3 <sup>rd</sup> semester)	Rs.28800/- + Rs.50,000/-
	<b>Rs. 78800/-</b>
<b>Thesis Evaluation</b> Fee (at the time of submission of thesis)	<b>Rs.28,800/-</b>

If the thesis is not submitted by the end of 4<sup>th</sup> semester, extra fee will be charged for every extra semester.

### Fee Structure PhD Chemistry:

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.2500/-
Registration Fee	Rs.2500/-
Course Fee (3 credit hours)	Rs.9000/-
Tuition Fee3 credit hours Rs.9000 (9000 x 3 courses) = 27,000/- per semester	Rs.27000/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs. 32,500/-</b>
Thesis Fee (3 <sup>rd</sup> & 4 <sup>th</sup> semester)	Rs.108,000/-
<b>Thesis Evaluation</b> Fee (at the time of submission of thesis)	<b>Rs.108,000/-</b>

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.

### Important Addresses and Telephone Numbers:

1. **Dr. Uzma Yunus**  
Chairperson/ Associate Professor  
[uzmayunus@yahoo.com](mailto:uzmayunus@yahoo.com)  
Tel: 051-9057818
2. **Dr. Moazzam Hussain Bhatti**  
Associate Professor  
[moazzamhussain\\_b@yahoo.com](mailto:moazzamhussain_b@yahoo.com)  
Tel: 051-9057262
3. **Dr. Nasima Arshad**  
Associate Professor  
[nasimaa2006@yahoo.com](mailto:nasimaa2006@yahoo.com)  
Tel: 051-9057755
4. **Dr. Muhammad Sher**  
Associate Professor  
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Tel: 051-9057225
5. **Dr. Muhammad Zaman Ashraf**  
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Tel: 051-9057182
6. **Dr. Iqbal Ahmed**  
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7. **Dr. Muhammad Naeem**  
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[mnaeem.chemist@yahoo.com](mailto:mnaeem.chemist@yahoo.com)  
Tel: 051-9057257
8. **Dr. Muhammad Saleem**  
Assistant Professor  
Tel: 051-905874
9. **Dr. Mehwash Zia**  
Lecturer  
[m.ehzia@hotmail.com](mailto:m.ehzia@hotmail.com)  
Tel: 051-9057182
10. **Dr. Farzana Shaheen**  
Lecturer  
[farzanaqau2013@gmail.com](mailto:farzanaqau2013@gmail.com)  
Tel: 051-9057198
11. **Dr. Erum Jabeen**  
Lecturer  
[erumjabeen123@yahoo.com](mailto:erumjabeen123@yahoo.com)  
Tel: 051-9057414

## DEPARTMENT OF PHYSICS

### Introduction:

The department greatest resources are the people that fill its classrooms, labs, offices and state of art facilities. The undergraduate, graduate students and post-doctoral researchers AIOU features a complete range of opportunities to engage in world-class Physics forms from theoretical to experimental.

Departmental research seeks to explore and explain fundamental questions that range understanding the origin of the universe, including string theory, cosmology and astrophysics, to understand the visible world of colloids and the world of on an ever diminishing scale, from the mesoscale to the nanoscale, condensed matter and atomic, molecular and particle physics.

Faculty have established several research laboratories on campus, including

- a) Renewable Energy
- b) Modeling and simulation
- b) Nanotechnology
- c) Materials Science

Several collaborations and projects are also being carried out by Physics departmental faculty and graduate students at centers outside of NCP, NILOP, PAEC, IST and other R&D organizations.

The interdisciplinary in nature research the department has strong links to the Astronomy, Biophysics, Chemistry, Chemical, Biology and Molecular and Cellular Biology Department.

Realizing the need of technology and scientific education in Pakistan Department of Physics at AIOU began in 1998 with technological needs in areas like Modeling & Simulation, Materials Science, Energy, Energy Efficiency, Climate and Energy for Sustainable Development, Renewable Energy, Hydrogen Energy, Environment, Astronomy, Nanotechnology, Plasma, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and Nuclear Physics. A major emphasis of current research activities are on promotion in like Modeling & Simulation, Materials Science Renewable energy, Nanotechnology and related areas in which the department have led to innovations.

The Department is presently running BS 4 years, MSc, MPhil & PhD degree program with specialization in various disciplines. New fields of specialization and program 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 programs that will contribute significantly to the development of human capacity, science and technology in Pakistan. Our vision is to see our graduates and postgraduates to be equipped with the fundamental knowledge of Physics, problem solving, life and communication skills. This will be achieved by reviewing and developing relevant academic programs and research and research projects to address Pakistan technological needs in areas like Energy, Renewable energy, Hydrogen Energy, Environment, Astronomy, Nanotechnology, Materials science, Plasma, Medical Physics, Cosmology, Geo Physics, Density Functional Theory (DFT), and Nuclear Physics. Our vision is to be a locally and internationally recognized Physics Department that exposes its successes in public awareness campaign and through established knowledge dissemination channels.

**Mission:**

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

same time, we are fully committed, as the physics department of the major research university in our border region, to contribute to the general public appreciation and respect for the scientific work and knowledge.

**Core Values:**

To perform the highest levels of competence and professionalism in research and training, acting with utmost honesty and integrity. Sensitivity to staff and student welfare while instituting measures that meet the need of all stakeholders.

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 Departments in the field of research so as to meet the grooming demands of the new millennium.

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

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

## PhD Physics Program

### 1. Duration of the Program:

The minimum duration for the PhD program shall be six semesters (03 years) and maximum duration of the program shall be 10 semesters (05 years). Student will have to take complete coursework in first two semesters & then carry out research work in last four semesters. Students have to complete 18 credit hours coursework and 36 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 Requirements:

1. The PHD program shall be announced by the Director BASR as per admission calendar of AIOU.
2. The minimum entry requirement for admission to PhD program shall be **MS/MPhil or equivalent** degree with CGPA 3.0 out of 4.0 in semester system or 1<sup>st</sup> division in the Annual system with (60% marks)
3. Test equivalent to GAT/GRE subject in the area of specialization chosen at the PhD level must be cleared with a minimum of 70% marks prior to admission for the PhD program as per HEC requirements.
4. The criteria for admission and weight-age of its components e.g. academic qualifications, research, professional experience, publications, interview shall be as follows:

i.	Academic Qualification + Research + Experience	40+5+5=50
ii.	Written Test (at per HEC/AIOU Policy)	30
iii.	Interview	20
	Total	100

### 3. Admission Procedure:

1. A candidate holding **MS/MPhil or equivalent** degree shall apply for admission to PhD on the prescribed admission form to the director BASR on the announcement of admission by the University. The BASR office will forward complete application form to the department concerned on daily basis.
2. The candidate will become student of PhD program upon depositing the prescribed semester based fee for the 1<sup>st</sup> semester of course work. In case of failure to deposit the fee within the specified period, the admission shall automatically stand cancelled after the due date.
3. A student admitted to PhD programs and a specialization thereof, whichever applicable shall not be allowed to change his/her program or specialization. The student shall have to apply a fresh for admission to another program or specialization after discontinuation of the earlier program/specialization as and when next admission is announced.

#### 4. Duration/Credit Hours and Medium of Instructions:

1. The minimum duration of a PhD program shall be six semesters (three years) and maximum duration shall be fourteen semesters (seven-years).
  - a) The PhD program will be of 18 credit hours course work and the minimum period for completion of course work shall be two semesters (one year) and maximum four semesters (two years).
  - b) There shall be a comprehensive examination at the end of second semester of the course work for a PhD program.
  - c) Only those candidates who pass the comprehensive examination will be allowed to continue with their PhD research work and attend the synopsis workshop after depositing the required fee.
  - d) The minimum period to complete the PhD thesis (36 credit hours) after confirmation of the candidature (date of meeting of BASR in which synopsis is approved) shall be 3 semesters.
2. The language of instructions, examination and thesis for disciplines will be according to the approved scheme of studies of each department.

#### 5. Components of Course Instructions

1. The number of compulsory face to face teaching hours shall be 48 for each course (3 credit hours).
2. The duration of synopsis orientation workshop shall be of two weeks.

#### 6. Scheme of Studies:

Three 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	<b>18 Cr. Hours</b>
Thesis/ Dissertation during second year or 3 <sup>rd</sup> 4 <sup>th</sup> 5 <sup>th</sup> & 6 <sup>th</sup> semester	<b>36 Cr. Hours</b>
<b>Total credit hours required for completion</b>	<b>54 Cr. Hrs</b>

#### Semester 1 (Compulsory)

S.#	Course Title	Code	Cr. Hrs
1	Advanced Mathematical Physics	9701	3(3+0)
2	Experimental Techniques in Physics	9702	3(3+0)
3	Renewable Energy Resources	9706	3(3+0)

## 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.#	Course Title	Code	Cr. Hrs
1	Advanced Semiconductor Physics	9703	3(3+0)
2	Statistical Physics	9704	3(3+0)
3	Environmental Physics	9705	3(3+0)
4	Hydrogen Energy Technology	9707	3(3+0)
5	Energy Audit and Thermal Energy Conservation	9708	3(3+0)
6	Energy Resources & Technologies	9709	3(3+0)
7	Research Methods & Techniques	9710	3(3+0)
8	Magnetism & Magnetic Materials	9711	3(3+0)
9	Particle Physics	9712	3(3+0)
10	Medical Physics	9713	3(3+0)
11	Material Science	9714	3(3+0)
12	Nano Science & Nanotechnology	9715	3(3+0)
13	Climatology and Astronomy	9716	3(3+0)
14	Environmental Degradation and Sustainability	9717	3(3+0)

3 <sup>rd</sup> Semester — 6 <sup>th</sup> Semester		
(Research) Thesis	9700	36

## 7. Evaluation:

### a) Coursework Evaluation

- The evaluation of the 18 credit hours of PhD course work will be conducted by Controller of Examination.
- (a) The distribution of marks of each 3 credit hours course work of PhD shall be as follows:
  - Continuous Assessment & Mid Term 50% (20+30)
  - Final Examination 50%

**Total: 100%**

(b) Pass percentage in aggregate will be 70%. If a student cannot pass in continuous assessment/assignments or fails to maintain the minimum mandatory class attendance of 70% in a course, he/she will be declared as fail.

- The student will have a total of **two consecutive chances including first attempt** to attend and pass each course.

### b) Comprehensive Examination

- The students completing the PhD course work shall be allowed to appear in Comprehensive Examination arranged and conducted by the department concerned as per rules of the HEC. The pass percentage in Comprehensive Examination shall be 70%, however, no grades will be awarded to the candidate.
- Each Ph.D. candidate will be given a maximum of two chances to clear the Comprehensive Examination.

- The department concerned will conduct a written examination (comprehensive exam) of four hours duration based upon its PhD level courses within 90 days of completion of coursework.

**c) Thesis Evaluation**

- On completion of **PhD** research, the student shall be required to submit 05 spiral bound copies of the thesis to the Supervisor.
- The student will also submit an undertaking and a declaration, that the thesis he/she is submitting has not already been submitted or published and shall not in future be submitted by him/her for obtaining any degree from any other university or institution.
- The thesis will be evaluated as per AIOU rules.
- Viva-voce Exam will be conducted after the evaluation as per AIOU rules.
- The PhD degree shall be awarded on completion of all requirements for the degree.
- The student will submit five hard bound copies of the approved thesis along with the soft copy to the Chairperson/Director as per specifications of AIOU.

**d) Research Paper during Research Period**

Every **PhD** student shall publish at least one research paper in HEC recognized Journal (acceptable for award of PhD degree) based on his/her research before the viva voce examination.

**8.Fee Tariff PhD Physics**

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.2500/-
Registration Fee	Rs.2500/-
Course Fee (3 credit hours)	Rs.9000/-
Tuition Fee 3 credit hours Rs.9000 (9000 x 3 courses) = 27,000/- per semester	Rs.27000/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs. 32,500/-</b>
Thesis Fee (3 <sup>rd</sup> & 4 <sup>th</sup> semester)	Rs.108,000/-
<b>Thesis Evaluation Fee (at the time of submission of thesis)</b>	<b>Rs.108,000/-</b>

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.

**9. How to Pay the Fee?**

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

### 10. 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.

### 11. Financial Assistance:

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

### 12. Information Regarding Admission:

- i. Announcement for admission will be made in the leading newspapers of the country.

**Note: Admission form complete in all respect must be submitted online on AIOU website.**

- ii. Admission in PhD Physics will be granted against limited seats strictly on the basis of merit and as per criteria laid down by the Dept. The University reserves its right not to start this Program if a viable group of students is not formed.

### MPhil Physics Program:

#### I. Admission Requirements

1. The **MS/MPhil or equivalent** program shall be announced by the Director BASR as per admission calendar of AIOU.
2. The minimum entry requirements for admission to **MS/MPhil or equivalent** program shall be minimum of 16years of schooling or 4 years of education in the relevant subject after Higher Secondary School Certificate with at least second division or equivalent CGPA/GPA (124 credit hours from HEC recognized institution).
3. Passed a test equivalent to GRE/GAT general conducted by the department concerned with minimum of 60% cumulative marks or as further advised by HEC from time to time.
4. The criteria for admission and weight-age of its components for **MS/MPhil or equivalent** e.g. **GAT General (NTS)**, academic qualifications, research, professional experience, publications, written subject test and interview shall be as follows:

i.	Academic Qualification + Research + Experience	40 (30+5+5)
ii.	Written Test (at per HEC/AIOU Policy)	40
iii.	Interview	20
	<b>Total</b>	<b>100</b>

## II. Admission Procedure

1. A candidate seeking admission to an **MS/MPhil or equivalent** program shall apply on the prescribed form to the Dean of the concerned Faculty on the announcement of admission by the university.
2. A candidate seeking admission to **MS/MPhil or equivalent** program shall be admitted to the relevant program of minimum 24 credit hours course work as per requirement of HEC and 12 credit hours research thesis.
3. Admission to **MS/MPhil or equivalent** shall be processed and finalized by the Departmental Admission Committee (DAC) duly approved by the Vice-Chancellor.
4. A candidate will become student of **MS/MPhil or equivalent** program upon depositing the prescribed semester-based fee for the 1st semester of course work for each program. In case of failure to deposit the fee within the specified period, the admission shall automatically stand cancelled after the due date.
5. A student admitted to an **MS/MPhil or equivalent** program and a specialization thereof, whichever applicable, shall not be allowed to change his/ her program or specialization. The candidate shall have to apply for fresh admission to another program or specialization after discontinuation of the earlier program/specialization as and when next admission is announced.

## III. Duration, Credit Requirements, Research Project and Medium of Instructions

1. The **minimum duration** of **MS/MPhil/MSc (Hons)** program shall be 4 semesters (Two years) and maximum duration shall be 08 semesters (Four years).
  - a) The minimum period of the 24 credit hours course work for **MS/MPhil/ or equivalent** shall be two semesters (one year) and minimum period to complete 12 credit hours research thesis shall be two semesters (One year) after approval of the synopsis.
  - b) The minimum period to complete the research project shall be one semester.
2. The language of instruction, examination and thesis for all disciplines will be according to the approved scheme of studies of each department.

## IV. Components of Course Instructions

1. The instructional modes shall include student and tutor face to face contact for approved prescribed period, teaching, video conferencing, e-mail, internet, telephone coaching on prescribed schedules, broadcast and non-broadcast audio visual programs etc.
2. The minimum number of compulsory face to face teaching hours shall be 48 for each course (3 credit hrs.)

- The duration of synopsis orientation workshop shall be of two weeks in the beginning of 3<sup>rd</sup> semester.

#### V. Course Work Evaluation

- The evaluation of 24 credit hours course work of **MS/MPhil or equivalent** shall be conducted by the Controller of Examinations as per prevailing practice of the university.
- The distribution of continuous assessment and final examination of each 3 credit hour course work shall be as follows:
 

i) Continuous Assessment & Mid Term	50% (20+30)
ii) Final Examination	50%
Total	<b>100%</b>
- Pass percentage in aggregate shall be 50%. If a student cannot pass in continuous assessment/assignments or fail to maintain the minimum mandatory class attendance of 70% in a course, he/she will be declared as fail.

#### VI. Thesis/Project Requirements

- The student will be allowed to take a research topic after taking 24 credit hours courses and passing at least 12 credit hours including course on research methods/statistics. However, he/she will be allowed to submit the thesis only after passing all the courses.
- A student must enroll and pay fee for 12 credit hours (6 credit hours in each of two semesters).

#### VII. Scheme of Studies:

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

Coursework during 1 <sup>st</sup> year or 1 <sup>st</sup> & 2 <sup>nd</sup> Semester	24
Thesis / Project / Dissertation during second year or 3 <sup>rd</sup> & 4 <sup>th</sup> semester	12
Total credit hours required for Completion.	36

##### Semester I (Core Courses)

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

(Four courses will be offered in 2<sup>nd</sup> Semester depending on the needs and availability of the experts)

### Semester 2 (Optional Courses)

S.#	Course Title	Code	Cr. Hrs
1	Advanced Quantum Mechanics	1702	3(3+0)
2	Computational Physics	1704	3(3+0)
3	Atomic & Molecular Physics	1705	3(3+0)
4	Laser Physics	1710	3(3+0)
5	Quantum Optics	1711	3(3+0)
6	Plasma Physics	1712	3(3+0)
7	Nuclear Physics	1716	3(3+0)
8	Experimental Techniques	1718	3(3+0)
9	Semiconductor Physics	1720	3(3+0)
10	Quantum Field Theory	1721	3(3+0)
11	Crystallography	1724	3(3+0)
12	Physics of Glasses	1726	3(3+0)
13	Physics of Metals & Alloy	1728	3(3+0)
14	Non-Crystalline Materials	1729	3(3+0)
15	Renewable Energy Resources	1730	3(3+0)
16	Environmental Physics	7792	3(3+0)
17	Antenna Theory	7793	3(3+0)
18	E.M. Field Analysis	7794	3(3+0)
19	Microelectronics	7795	3(3+0)
20	High Frequency Electrodynamics	7796	3(3+0)
21	Quantum Information Theory	7797	3(3+0)
22	Electron Microscopy	7798	3(3+0)
23	Climatology	8771	3(3+0)
24	First-Principles Computation	8772	3(3+0)
25	Theory and Practice of DFT Calculations	8773	3(3+0)
26	Introduction to Nanoscience and Nanotechnology	8774	3(3+0)
27	Physics of Solar Cells	1727	3(3+0)

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

	<b>Thesis</b>	1725	12(12+0)
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### VIII. Fee Tariff MPhil Physics

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (12 credit hours)	Rs.28800/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.28,800/-</b>

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.

### **IX. How to Pay the Fee:**

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

### **X. 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.

### **XI. Hostel Facilities:**

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

### **XII. 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.

### **XIII. Hostel Facilities:**

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

**Note: Admission form complete in all respect must be submitted online on AIOU website.**

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,  
Allama Iqbal Open University, Sector - H-8,  
Islamabad.  
Email: [szilyas@aiou.edu.pk](mailto:szilyas@aiou.edu.pk)

## 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
- 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.

### **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 software. Furthermore, the Video Conference facility is also available.

**Salient Features:**

- Face to Face learning from highly qualified faculty.
- 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 8 semesters (four years).

**e) Scheme of Studies:**

**The Semester Wise Course Offering (M. Phil)**

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

Code	Title	Credit Hours
<b>1<sup>st</sup> Semester</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)
<b>Sub Total: 12(12+0)</b>		

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

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)
<b>Sub Total: 12(12+0)</b>		

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

Code	Title	Credit Hours
1737	Research Thesis	12(12+0)
<b>Total Credit Hours:</b>		<b>36</b>

**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 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). 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 MPhil Statistics:**

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (12 credit hours)	Rs.28800/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.28,800/-</b>

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.

**Admission Procedure:**

- a. A Departmental Admission Committee is responsible to finalize the admissions by conducting test and interview of the candidates.
- b. Admission in MPhil Statistics will be granted against limited seats strictly on the basis of merit/written test/interview as approved by the University. The University reserves the right not to start this program if viable group of students not formed.
- c. Only selected candidates, approved by the competent authority of AIOU, will be informed about their admission by the admission department.
- d. The prevailing University rules/regulations regarding MPhil enforced from time to time shall strictly be followed for the MPhil statistics Program.
- e. 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 (only soft copy) for each course will be provided to the students by the university. A list of recommended books will also be given for further reading.

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

For each course, approximately 48 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.

***Continuous Assessment and Final Examination***

- The distribution of continuous assessment and final examination of each 3 credit hours course work shall be as follows:

i) Continuous Assessment & Mid Term	50% (20+30)
ii) Final Examination	50%
<b>Total:</b>	<b>100%</b>
- Pass percentage in aggregate shall be 50%. If a student cannot pass in continuous assessment/ assignments or fail to maintain the minimum mandatory class attendance of 70% in a course he/ she will be declared as fail.

***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 students 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.

**Applying Procedure for Admission in MPhil  
Statistics**

**Step-1:** First of all, register yourself on AIOU website and remember user name and password for future contact to AIOU.

**Step-2:** Select your program& semester and generate a dully filled admission form and challan form for the deposit in mentioned banks.

***Chairman***

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

**FACULTY MEMBERS**

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<p style="text-align: center;"><b>DEPARTMENT OF ENVIRONMENTAL DESIGN, HEALTH &amp; NUTRITIONAL SCIENCES</b></p>
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### **Introduction**

Pakistan is a developing country and it is the need of the hour to improve standard of education in all disciplines especially in science and technology in order to better cope with the challenges of 21st century. The Department was first established in 1981. During last few decades the Department has developed a range of professional programs in Health and Nutrition, Environmental Design and Home Economics. Multipurpose teaching/ research labs for Food and Nutrition and Environmental Design programs has been set up in order to provide a comprehensive environment for imparting practical training and research at the main campus.

### **Aims and Objectives**

1. To upgrade and update the skills & knowledge of professionals in various fields of applied sciences.
2. To prepare learners for the career related disciplines considering the professional interests of individuals in the areas of Health, Food Science, Nutrition, Dietetics, Environmental Design and Home Economics.
3. To prepare the individuals/professionals for the development and up gradation of community & sustainable environment.

4. To enable the individuals to integrate and apply knowledge and skills of Basic Sciences, Home Economics & Applied Sciences for their professional development.

The Department has produced scientific/value added and professional programs/courses in the areas of Health, Food & Nutrition, Home Economics and Environmental Design. The courses are now being offered at undergraduate, postgraduate, MS and PhD level programs. Many of these courses are supported with audio-visual programs.

### **Currently the Department is offering following programs:**

1. PhD Food and Nutrition
2. MS Community Health & Nutrition
3. MS Environmental Design (Continuing students only)
4. MSc Public Nutrition
5. MSc Sustainable Environmental Design
6. Postgraduate Diploma in Environmental Health & Safety
7. Certificate Course in Public Health
8. A range of courses at SSC and HSSC level

## **A. PhD FOOD AND NUTRITION**

### **1. Introduction**

The National Nutritional and Health surveys conducted so far revealed that Pakistani's vulnerable community i.e. women and children in particular are suffering from under nutrition consequently causing a number of other diseases. One out of three children in Pakistan has been reported to be malnourished. An adequate nutrition contributes substantially to childhood development but often goes unrecognized. Malnutrition in childhood leads to impaired immunity and higher susceptibility to infection. In adults, malnutrition leads to diminished strength and lower mental activity. These in return, lower the manpower productivity and affect country's economic growth.

The health professionals during their basic five years training go through a heavy syllabus of medicine, surgery and curative aspects with a little emphasis on Food and Nutrition. The need for application of nutritional knowledge arises more during their practice at various health outlets. Similarly, the Dieticians and Nutritionists have a little opportunity to enhance their knowledge and develop scholarship in the field of Food and Nutrition within Pakistan.

The purpose of PhD Food and Nutrition is to offer a value added degree program that focuses on the research based prevention strategies of wide range of avoidable nutritional

problems. It focuses on in-service health professionals and nutritional experts involved in teaching postgraduate level programs committed to undertake good nutritional care of the community. In the beginning the program was partially funded by Department for International Development (DFID) & British Council under Higher Education Link (HEL) Program. Technical assistance and expert advice has been provided by the Center for Health and Nutrition Research, Nine Wells Hospital of University of Dundee, Scotland, UK.

### **2. Objectives**

**PhD Food and Nutrition is planned to achieve the following objectives:**

1. To impart research based higher education in Food and Nutrition to people working in the field of Nutrition and Health.
2. To teach the skill of data collection, analysis and to draw conclusions on scientific grounds.
3. To upgrade the qualification of those who have completed their MS/MPhil in the relevant discipline.
4. To provide an opportunity to post-graduates working in different health departments/ organizations & teaching institutions to enhance their qualification.

### 3. Target Groups

This program is especially designed for;

1. Home Economists (Food & Nutrition) or equivalent working in different educational environments/ agencies/ organizations, aspiring to continue their studies for the attainment of a higher degree in the relevant field.
2. In-service medical officers holding master degree in Community Health and Nutrition from AIOU.
3. In-service Dietitians holding master's degree in Community Health & Nutrition from AIOU.
4. Food Scientists holding MSc Honors degree in relevant discipline

### 4. Eligibility Criteria

The minimum entry requirement for admission in PhD program shall be 18 years of schooling in the following subjects with CGP-3.0% / First division from HEC recognized institutions. **Admissions will be made according to the university policy and criteria laid down by Higher Education commission (HEC)/AIOU for PhD programs.** Following degree holders are eligible for admission in this program.

- MS/MPhil Food & Nutrition (Home Economics)
- MS/MPhil Human Nutrition
- MS/MPhil Community Health & Nutrition (AIOU)
- MSc (Hons.) Food Technology (with the condition to study deficiency courses in one extra semester)

**Note: The Department reserves the right to withhold the admissions in the Program without any prior notice depending upon the number of applications received, resources and human power available within the Department.**

**Face to face compulsory teaching in each week will be held at the main campus Islamabad only.**

### 5. Admission Procedure

- i. Student will have to submit admission form online as per AIOU policy.
- 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 publications and professional experience, test and interview, etc.
- iii. At the time of interview, candidates have to present the research proposal before the Admission committee.
- iv. Selected candidates will be informed by the Directorate of BASR with the directions to deposit fee according to the schedule.
- v. Since admission in PhD program is strictly on merit, the fee should NOT be submitted before the confirmation of 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.

## 6. Scheme of Studies

- i. Initially, the student is required to complete 21 credits hours of PhD course work. After this period, he/she has to pass comprehensive Examination.
- ii. Besides completion of PhD course work and other requirements, a candidate has to complete research work and thesis as per AIOU rules.
- iii. For PhD, the student has to complete all other formalities, prescribed by the Higher Education Commission.

Course Code	Course Title	Credit Hours
<b>Semester – I (12 Credit Hours)</b>		
2762	Nutrition Through Life Cycle	3 (2+1)
2764	Principles of Nutritional Assessment	3 (2+1)
2791	Food Safety and Health	3 (2+1)
2792	Advanced Research Methods	3 (2+1)
<b>Semester – II (09 Credit Hours)</b>		
2766	Nutrition and Dietetics for Health Care	3 (2+1)
2767	Functional Foods (Updated/Revised)	3 (2+1)
2793	Advances in Food and Nutrition	3 (2+1)
<b>Semester – III &amp; IV (36 Credit Hours)</b>		
1785	Research Thesis	36

## 7. Course Work Evaluation

The distribution of the marks of each 3 credit hours course work of PhD shall be as follows:

A. Continuous Assessment & Mid-Term	50% (20+30)
B. Final Examination	<u>50%</u>
<b>Total</b>	<b>100%</b>

(Pass percentage in each component will be 70%)

## 8. 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 rule.

## 9. Viva Voce

After evaluation of the thesis by external experts, the student will have to appear before a viva voce committee to defend his/her research and thesis.

## 10. Attendance

There will be face to face teaching in each semester. At least 70% attendance is required to qualify for appearing in final examination.

## 11. Fee Tariff PhD Food & Nutrition

Item	Rates
Admission Fee (at the time 1 <sup>st</sup> semester)	Rs.2500/-
Registration Fee	Rs.2500/-
Course Fee (3 credit hours)	Rs.9000/-
Tuition Fee 3 credit hours Rs.9000 (9000 x 4 courses) = 36,000/- per semester	Rs.36000/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.41,500/-</b>
Thesis Fee (3 <sup>rd</sup> & 4 <sup>th</sup> semester)	Rs.108, 000/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.108,000/-</b>

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.

## B. MS Community Health and Nutrition

MS Community Health and Nutrition is a value added degree for health professionals, it is a professional course for those who already have sound knowledge of Food and Nutrition and are working as Dietitians/ Nutritionists in Health Organizations.

### 1. Objectives

The objectives of the programs are given as under:

- To promote the profession of Community Health, Nutrition and Dietetics.
- To provide opportunities to medical professionals to enrich their education in the field of nutrition and enhance their knowledge in this branch of preventive health.
- To provide guidance/educational opportunities to in-service dietitians and other health professionals engaged in planning and serving hospital meals.

### 2. Salient Features

Development of this program was initially facilitated by Kings College, London, U.K. in terms of scheme of studies, course contents and write up of the study material. It is offered as per HEC criteria, in which teaching is centralized i.e face to face. Qualified tutors in the related disciplines are identified and appointed for providing necessary guidance to the students of MS in Community Health & Nutrition.

### 3. Eligibility

Sixteen years of schooling or 4 years of education (130 credit hours) after HSSC/FSc/Grade 12 equivalent with at-least second division equivalent CGPA in the relevant discipline.

**Admissions will be made according to the criteria laid down by Higher Education Commission (HEC) for MS programs.** Following degree holders are eligible for admission in this program:

- Bachelor of Medicine and Surgery (MBBS)
- BS/ MSc Food & Nutrition (Home Economics)
- BS/MSc Human Nutrition
- Bachelor of Dentistry and Surgery (BDS)
- B/D-Pharmacy
- BS/BSc (Hons) Food Technology.
- MSc Public Nutrition

### 4. Admission/Registration Procedure

#### For Fresh Candidates

- Although the 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 Autumn semester. A student will be generally allowed to register for a maximum of 12 credit hour courses to be offered in each semester. See Section No. 7 for semester wise course offering for MS Community Health & Nutrition.
- Students will have to submit their admission form online.
- Admission forms prescribed for the program will be entertained only.
- Incomplete admission forms will not be entertained in any case. Selection of candidates in the program will be

made strictly on the basis of merit against a limited number of seats.

- Only those candidates who qualify admission criteria will be informed about their selection.
- 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.

#### For Continuing Students

The admission for the semester Spring and Autumn are offered in the month of January and July respectively. Continuing students will also apply online as per given guidelines. The rest of the prevalent terms and conditions are applicable to all fresh and continuing students.

### 5. Admission Criteria

Students will have to pass the test and interview organized by the university as per HEC rules and regulations.

### 6. Scheme of Studies

Duration:	Minimum four semesters (two years)
Credit hours requirement:	36 Credit hours
Course Work:	24 credit hours
Research / Thesis:	12 credits hours

After the completion of course work, the students will be allowed to undertake research work in the community or in laboratories at AIOU. Minimum duration for submission of thesis is two Semester (One Year).

## 7. Offering

Proposed scheme of studies for MS Community Health and Nutrition.

### Semester-Wise Offering of Course (MS)

#### 1st Semester

Sr. #	Course Code	Title of Course	Credit Hours
1	7581	Hospital Dietetics	3 (2+1)
2	7582	An Introduction to Human Nutrition	3 (2+1)
3	7583	Functional Foods and Nutraceuticals	3 (2+1)
4	7584	Biostatistics for Public Health	3 (2+1)

#### 2nd Semester

Sr. #	Course Code	Title of Course	Credit Hours
1	7765	Research Methods	3 (2+1)
2	7585	Applied Human Nutrition	3 (2+1)
3	7586	Food Analysis	3 (2+1)
4	7761	Community Nutrition	3 (2+1)

#### 3rd & 4th Semester

Sr. #	Course Code	Title of Course	Credit Hours
1	1780	Research Thesis	12
<b>Total Credit Hours</b>			<b>36</b>

### List of Elective Courses for MS (CHAN):

Department can replace any of the above courses with following courses depending upon the facilities and expertise available at the time of admission.

Sr. #	Course Code	Title of Course	Credit Hours
1	1776	Dietetic Practice	3 (2+1)
2	1779	Computer Applications in Food and Nutrition	3 (2+1)
3	7587	Nutritional Epidemiology	3 (2+1)
4	7588	Food Safety	3 (2+1)
5	7764	Food Biotechnology	

**Note:** A 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.

### 8. Medium of Instruction

English is the medium of instruction and expression for the entire course work.

### 9. Research and Thesis

During the second semester of MS the student will be required to submit the topic of the research. The topic of research and supervisor will be allocated to the student after approval from the Board of Research Proposal Committee (RPC). In case the thesis submitted by the student is found to be a plagiarized version of another local or foreign research/thesis at any stage his/her candidature shall be cancelled and the student shall be debarred forever from admission to any program of the University.

### 10. Viva Voce

After evaluation of the thesis by external experts, the student will have to appear before a viva voce committee to defend his/her research and thesis.

### 11. Attendance

70% attendance is mandatory for all courses.

### 12. Assessment

The distribution of the marks of each 3 credit hours course work of MS shall be as follows:

A. Continuous Assessment & Mid-Term	50% (20+30)
B. Final Examination	50%
<b>Total</b>	<b>100%</b>

(Pass percentage in each component will be 50%)

### 13. Fee Tariff MS Community Health & Nutrition

Item	Rates
Admission Fee (at the time of 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (12 credit hours)	Rs.28800/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.28,800/-</b>

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.

**Note: Only selected students will be intimated for depositing fee.**

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## DEPARTMENT OF COMPUTER SCIENCE

Department of Computer Science is an established department under the Faculty of Sciences. The Department of Computer Science has 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 Post Graduate Diploma (PGD) in Computer Science. Department is equipped with latest computers and hardware labs. We practice 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) program. The facilities of Video/Audio Conferencing are also in use for lectures/consultations in research-oriented degrees. Department is actively involved in research and development in the areas of Ubiquitous Computing, Big Data Analytics, Artificial Intelligence and Information Security.

### **MS (Computer Science)**

The MS (Computer Science) program is being offered at the Department of Computer Science, Main Campus Islamabad. It comprises of 24 credit hours of course work, followed by 12 credit hours of research work (Thesis). This amalgamation of course work and thesis are meant to add professionalism among research scholars in the field of Computer Science. The AIOU uses the modern pedagogical methods for better learning of the students. Keeping in view of the technical requirements of the courses, the classes are mainly being held on face-to-face mode.

### **Objectives:**

The objectives of the program are to:

- 1) Facilitate students to possess advanced knowledge of Computer Science field.
- 2) Guide student to be able to think creatively and critically for solving non-trivial problems.
- 3) Facilitate students to develop efficient solutions for real life problems with the acquired computing knowledge.

### **Program Features:**

- 1) Regular classes at the main campus in the evening.
- 2) In-line with the Higher Education Commission recommendations.
- 3) Focused research areas
- 4) Support through Aagahi Learning Management System available.
- 5) Allied study materials being provided in soft form.

### **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 or equivalent CGPA:

- 1) Master's degree in Computer Science/Information Technology/Software Engineering (16 Years).
- 2) Four years' bachelor's degree in computer science/Information Technology/Software Engineering (16 Years) with minimum 130 credit hours.

### **Selection Criteria:**

Candidate must have to qualify Test (Subject) being conducted and/or recognized by Department of Computer Science. The short listed candidates will be interviewed by the MS Admission Committee for merit based final selection as per university rules.

**Scheme of Studies:**

**Semester 1**

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

**Semester 2**

	Elective-II	-
	Elective-III	-
	Elective-IV	-
	Elective-V	-

**Subtotal: 24 Credit Hours (Course work)**

**3<sup>rd</sup> & 4<sup>th</sup> Semester: Research Work**

Code	Title	Credit Hrs
5745	Thesis	12

**Total: 36 Credit Hours**

**MS Courses List (Elective)**

The following is the list of elective courses for MS (CS) course work.

Code	Course Titles	Cr. Hours
5709	Advanced Computer Networks	3(3+0)
5710	Data Security and Encryption	3(3+0)
5711	Advanced Network Security	3(3+0)
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(3+0)
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 Applications	3(3+0)
5737	Advanced Topics in ITM	3(3+0)
5733	Topics in Digital Signal Processing	3(3+0)

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

Classes will be conducted at the main campus.

**Assessment**

The distribution of the marks of each 3 credit hours course work of MS shall be as follows:

A. Continuous Assessment & Mid-Term	50% (20+30)
B. Final Examination	<u>50%</u>
<b>Total</b>	<b>100%</b>

(Pass percentage in each component will be 50%)

**Research Work Assessment**

Each MS (CS) scholar shall submit thesis on completion of the research work under taken. The university will evaluate the thesis as per university rule by two 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 MPhil rules and regulations of the university will apply to MS (CS) scholars. Each 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 on their research areas.

**Synopsis Approval**

Synopsis will be approved by Departmental Synopsis Committee.

**Thesis Supervision**

A supervisor will be allocated to student as per research expertise.

**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 BASR through Dean Faculty of Science. The thesis will be evaluated from two external evaluators from approved panel of experts as per university criteria.

**Award of Degree:**

On successful completion of the research thesis and other requirements, the MS (CS) degree will be awarded by the University.

**Fee Tariff for MS Computer Science**

Item	Rates
Admission Fee (at the time of 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (12 credit hours)	Rs.28800/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.28,800/-</b>

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.

For further information, you may contact the department by email: **dc@aiou.edu.pk** or by telephone 051-9250091 or 051-9057440

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## DEPARTMENT OF MATHEMATICS

### Introduction:

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

- MPhil Mathematics
- MSc Mathematics
- BS Mathematics

In future, the Department intends to launch PhD Mathematics program. MPhil Mathematics is in pipeline 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 4 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 GRE/GAT general).
- Departmental admission committee will be responsible to finalize the admissions.

**Course Work Evaluation:**

Continuous Assessment & Mid Term: 50% (20+30)

Final Examination: 50%

Students have to obtain minimum 50% marks in continuous assessment/Mid Term and Final Exam and to maintain minimum class attendance 70% in a course.

Pass percentage in aggregate shall be 50%.

**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 workshops / classes during the semester. There will be at least 45 hours face to face teaching for each course.

**Place 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)
7741	Advanced Ring Theory	3(3+0)
7754	Advanced Topology	3(3+0)

<b>Semester-II (Pure/Applied)</b>		
	Optional-I	3(3+0)
	Optional-II	3(3+0)
	Optional-III	3(3+0)
	Optional-IV	3(3+0)
<b>Semester-III &amp; IV:</b>		
<b>7750</b>	<b>Thesis</b>	<b>12</b>

### List of Optional Courses

#### **List of Optional Courses (Applied Math)**

1.	Mathematical Techniques for Ps	7733	3(3+0)
2.	Advanced Partial Differential Equations	7748	3(3+0)
3.	Advanced Analytical Dynamics-I	7736	3(3+0)
4.	Computational Fluid Dynamics	7744	3(3+0)
5.	Discrete-Time Finance	7760	3(3+0)
6.	Numerical Solutions of PDEs	7743	3(3+0)

#### **List of Optional Courses (Pure Math)**

1.	Theory of Group Actions	7731	3(3+0)
2.	Theory of Group Graphs	7742	3(3+0)
3.	Theory of Semi Rings	7740	3(3+0)
4.	Cellular Automata and Groups	7752	3(3+0)
5.	Fixed Point Theory	7735	3(3+0)
6.	Ordered Vector Spaces	7730	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 workshops who have qualified at least 12 credit hours (4 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 for MPhil Mathematics

Item	Rates
Admission Fee (at the time of 1 <sup>st</sup> semester)	Rs.1500/-
Registration Fee	Rs.1000/-
Course Fee (3 credit hours)	Rs.7200/-
Fee for 12 credit hours' theory work (7200 x 4= 28800)	Rs.28800/-
Technology Fee per semester	Rs.500/-
<b>Total Fee (First Semester)</b>	<b>Rs.31,800/-</b>
Research thesis fee (12 credit hours)	Rs.28800/-
<b>Thesis Evaluation Fee</b> (at the time of submission of thesis)	<b>Rs.28,800/-</b>

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.

Please apply online by visiting university website ([www.aiou.edu.pk](http://www.aiou.edu.pk)) and also upload all documents online. For queries contact with Department of Mathematics Block # 7, Room # 1, AIOU, Sector H-8, Islamabad.

**Ph# 051-9575723, 051-9575700, 051-9250056**

### FACULTY MEMBERS:

- 1. Dr. Nasir Rehman**  
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Associate Professor
- 3. Dr. Irfan Mustafa**  
Assistant Professor  
Ph: 051-9575723
- 4. Mr. Muhammad Faisal Iqbal**  
Lecturer
- 5. Dr. Muhammad Nazam**  
Lecturer
- 6. Dr. Bismal Jamil**  
Lecturer
- 7. Ms. Fouzia Rehman**  
Research Associate,
- 8. Dr. Irfan Younus**  
Research Associate
- 9. Mr. Rizwan Saleem**  
Lecturer
- 10. Staff:** Ph: 051-9575700

## **GENERAL INFORMATION**

- i. The certificates/degrees of AIOU are equivalent to any other recognized Board/University.
- ii. If an applicant of post-graduate/research level program does not receive any information regarding admission within ten days after appear the test of admission, he/she should presume non-selected.
- iii. A course taken by any student cannot be change during the semester.
- iv. **Admission to courses for both the Spring and Autumn semesters are generally offered in the months of January and July each year respectively. Examinations will be commenced in May and November respectively. The continuing students will Enroll online on AIOU website and deposit fee within due date.**
- v. Fee shall not be refunded once paid for admission nor it will be adjusted for any other program.
- vi. On payment of the registration fee, each student will be issued a Student ID. This number must be quoted in all the future correspondence, course(s), code numbers and semester.
- vii. Study material shall be available on university website.
- viii. 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 its implementation.
- ix. 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.
- x. It is the responsibility of the student to remain in touch with the department regarding the selected program.
- xi. A student already admitted to a program or a specialization of a program shall not be allowed to transfer or to get admission to another program unless he/she formally postpones it till the completion of the new program or withdraws from the previous program.
- xii. After completion of a program successfully, a student has to apply to Controller of Examinations for issuance of certificate/degree.
- xiii. The university reserves the right to change the contents of this prospectus without any prior notice as per university policy.
- xiv. 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 Matriculation certificate of the student shall be considered as correct name. The Examination Department shall also issue certificate/ degree on the said name.
- xv. 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 as deemed appropriate.

- xvi. The Candidates having GRE (Subject) conducted by ETS with minimum of 60 percentile score or an equivalent as per HEC policy be considered for admission in PhD programs, and shall not have to appear in the departmental admission test conducted by the university.
- xvii. The Candidates having GRE (General) conducted by ETS with minimum of 50 percentile score or an equivalent as per HEC policy be considered for admission in MS/M.Phil/Equivalent programs, and shall not have to appear in the departmental admission test conducted by the university.

### **PROCEDURE FOR DEPOSITING FEE**

- Applicants will deposit admission processing fee (Rs.500) in designated banks or through Telcos.
- Eligible candidates for (**Merit Based Programs**) are required to deposit admission fee in any branch of the following banks:
  1. First Women Bank Limited (FWBL)
  2. Allied Bank Limited (ABL)
  3. Muslim Commercial Bank (MCB)
  4. United Bank Limited (UBL)

- Fee can also be Deposited through Jazz Cash, Easy Paisa and Upaisa Mobile App/USSD String \*786#, Retailer Agent, Franchise and Branches of Mobilink, Telenor and Ubank. For more detail please visit university website.

The Banks/Mobile App/Retailer Agents/Franchise/Branches will provide Transaction ID of deposited fee.

### **CANCELLATION OF ADMISSION**

Admission of already admitted student or a new candidate may be cancelled in accordance with University's Regulation in the following circumstances:

- (a) In case the candidate is found guilty of having forged any of his/her degree or relevant documents presented to the University for Admission to MPhil/PhD program.
- (b) Disciplinary action against misbehavior/misconduct.
- (c) Plagiarization
- (d) If he/she fails in fulfilling all the requirement of qualifying for the degree within the maximum time limit prescribed for the program excluding the periods of deferment with the approval of the competent authority.

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

# ALLAMA IQBAL OPEN UNIVERSITY, REGIONAL NETWORK

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