

Semester
Autumn
2026

AIOU

PROSPECTUS

PROGRAMS

MBA
MSc (Hons)
MS
MPhil
PhD



Allama Iqbal Open University, Islamabad

www.aiou.edu.pk

Help Line: (051) 111-112-468

PROSPECTUS

OF

PhD / MS / MPhil / MSc (Hons.) & MBA Programs

FOR

SEMESTER: AUTUMN 2026



DIRECTORATE OF ADVANCED STUDIES & RESEARCH
Allama Iqbal Open University
Islamabad

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Semester	Autumn 2026
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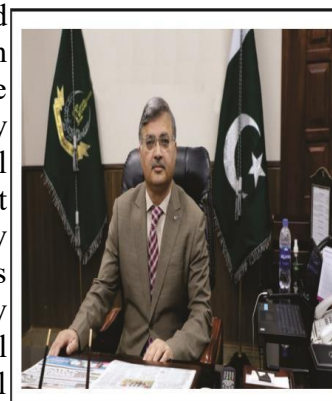
Message

THE WORTHY Vice-Chancellor

Dear Student,

السلام عليكم

Welcome to Allama Iqbal Open University (AIOU) is one of the mega universities of the world and it occupies a unique position in the education sector of Pakistan, because of its affordability and high quality distance and online academic programs. AIOU has now turned into the most favorite university of the country with high international repute. The university made a landmark progress by ensuring access to quality education for rural areas under-privileged students and the people of all ages particularly the females can now select and join the programs of their choice, while sitting at their residence and simultaneously with continuing their jobs. After assessing the success of many degree programs in Pakistan, AIOU is now going to offer a variety of range programs for the students residing worldwide. More than 1.3 million students are getting benefits from the high quality educational services of AIOU in all regions of the country through more than fifty four regional offices of the university. It offers-suggests many undergraduate and postgraduate programs at rural and remote areas providing an unparalleled opportunity to all the poor and deprived segments of the society at an affordable cost. The university has recently digitalized all its student-support services for facilitating its students on priority basis. This digitization of the system, it is hoped, will enable AIOU students to get all discipline of educational programs using their Learning Management system (LMS) portal support online.



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

Prof. Dr. Nasir Mahmood
Vice Chancellor AIOU

Director's Message

Welcome to the Directorate of Advanced Studies and Research (DASR) at Allama Iqbal Open University (AIOU)

The Directorate of Advanced Studies and Research play a central role in promoting and strengthening postgraduate and doctoral education at AIOU. Our primary responsibility is to facilitate, regulate, and ensure the quality of MPhil and PhD programs across all academic disciplines by the University.

DASR is responsible for managing the admission process of MPhil and PhD students in a transparent and merit-based manner. From the receipt of applications to final enrollment, the Directorate ensure that all procedures are carried out in accordance with the rules, regulations, and guidelines approved by statutory bodies and the Higher Education Commission (HEC) of Pakistan.

In addition to admissions, DASR maintains comprehensive academic records of all MPhil and PhD scholars throughout their research journey. This includes registration, academic notifications, synopsis approvals, progress monitoring, thesis submission, and assessment procedures. DASR also coordinates local and foreign thesis review to ensure high academic standards and international recognition of research output. We work closely with academic departments, supervisors, evaluators, and statutory bodies to facilitate the smooth and timely completion of research degrees.

To support capable and talented scholars, AIOU has launched a fully funded PhD scholarship program, enabling students to pursue their doctoral studies without financial burden. This program also provides opportunities for scholars to engage in teaching and academic activities, allowing them to gain valuable practical experience alongside their research journey.

At DASR, we are committed to promoting a research-oriented academic culture that encourages innovation, critical thinking, and scholarly excellence. Our aim is to support researchers and faculty members by providing an efficient academic environment that upholds integrity, quality, and global research standards.

I encourage prospective MPhil and PhD candidates to pursue their research aspirations at Allama Iqbal Open University and contribute meaningfully to knowledge creation and national development.

I wish all students and researchers a successful and rewarding academic journey.

Prof. Dr. Zafar Iqbal Lillah

Director

Directorate of Advanced Studies and Research (DASR)

Allama Iqbal Open University, Islamabad





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 in 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 doorsteps 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 undergraduate 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 Matric to Ph.D. level in diverse disciplines from four faculties. The 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 Centers 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 facilities are also available in the student's hostel and the Central Library where computers have been provided to enable students to access the latest information available through open source databases.



We Made it

THE WORLD
UNIVERSITY
RANKINGS
TIMES HIGHER EDUCATION

SDG 4 - Quality Education

2022

Ranked 20th in
Pakistan

Ranked 401 - 600
Globally

2023

Ranked 1st in
Pakistan

Ranked 25th
Globally



Times Higher Education
Impact Rankings 2024

AIOU RANKED

#3 OVERALL
IN PAKISTAN

#1 SDG 4  Quality education

#1 SDG 8  Decent work and economic growth

#3 SDG 10  REDUCED INEQUALITIES

#3 SDG 17  Partnerships for the goals

[TIMESHIGHereducation.com](https://www.timeshighereducation.com)





AIOU

RANKED

279 / 1745
GLOBALLY

8TH/107
IN PAKISTAN

2ND
IN FEDERAL

UI GREENMETRIC
WORLD UNIVERSITY RANKINGS
2025

AIOU AT A GLANCE

Current Enrollment
1,027,000



Faculties
04



Academic Departments
37



Regional Offices
54



MERIT BASED SCHOLARSHIPS FOR PHD PROGRAMS

Eligibility Criteria:

- Candidates must have a minimum CGPA of 3.5/4.0 or equivalent grades in their MS/MPhil degree.
- Applicants must submit a well-written research proposal, aligned with the relevant research areas required by the department/faculty concerned.
- While prior research experience or a publication record is preferred, it is not mandatory, allowing opportunities for fresh candidates who demonstrate exceptional potential and passion for teaching, learning and development.
- The candidate must be 35 years old or below on the closing date of the admission.

Scholarship Terms & Conditions:

- The scholarship will cover the full cost of tuition fee for the PhD program.
- The scholar will receive a monthly stipend of Rs. 80,000/- (excluding fee) to support his/her living expenses.
- The scholarship will be for 3 years (36 months), or upto thesis submission whichever earlier or extended upto maximum is 4 years (48 months), decided by the committee on the recommendation of the concerned supervisor and chairman of the department.
- Scholars will have access to the university's research facilities, libraries, laboratories and online databases etc.
- The scholarship duration will be four years, subject to satisfactory progress as reported by the Chairman/Chairperson of the concerned department and supervisor on annual basis.
- The scholarship will be paid on the basis of monthly attendance.
- This is a residential scholarship program, requiring the scholar to remain physically present at the AIOU Main Campus for the duration that the scholarship is being disbursed.



OTHER SCHOLARSHIPS AND FINANCIAL AIDS

❖ **Financial Support Scheme (SSF-101)**

This scheme is formulated to provide financial assistance to the deserving, needy and talented students.

❖ **Earn to Learn Scheme (SSF-102)**

AIOU provides opportunities to the deserving students to earn and learn. This scheme is to encourage and assist the students in the pursuit of higher studies.

❖ **Merit Scholarship Scheme (SSF-103)**

This scheme is an initiative to generate competition among brilliant students of AIOU. The scholarship is offered to the students of all levels/ programs scoring 85% and above marks in their latest results in AIOU.

❖ **Final Year Project Grant Scheme (SSF-105)**

This scheme is designed with the focus of motivating researchers and promotion of market-oriented research by providing financial grants. This grant will be available to BS, BSc (Hons), M.Phil, MS & Ph.D scholars.

❖ **Scholarship for Communities Scheme (SSF-106)**

The financial assistance, through this scheme is available to the following communities:

- Differently Abled Students
- Orphans
- Gender Diverse Individuals
- Offspring of Martyrs
- Inmates/ Prisoners

❖ **Free Education (Matric) Plan for FATA/ Baluchistan & Gilgit/ Baltistan**

The Allama Iqbal Open University has initiated opportunities to support the deprived communities residing in FATA/Baluchistan and Gilgit-Baltistan.

AIOU is offering this facility without any discrimination based on caste and creed.

The SOP's/ TOR's, eligibility criteria of aforementioned financial schemes are available at AIOU website.

STUDENTS SUPPORT SERVICES

Student Facilitation Center (SFC)

The Student Facilitation Center (SFC) was established on October 17, 2022, with the aim to help the student/visitors by providing them solutions under one roof. The Center provides services linked with Student Advisory, LMS/Tutor/Workshop, Admissions & Mailing.

AIOU Call Center

The AIOU Call Center/ Helpline (051-111-112-468) was primarily established in 2011, while the purpose-built dedicated center was established in September 2022, for the provision of information/guidance to the callers.



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

Sr. #	Degree Level	Minimum Duration	Maximum Duration
1.	PhD	3 Years / 5 Semesters	8 Years*
2.	MS/MPhil/MSc (Hons)/MBA/COL MBA	2 Years / 4 Semesters	4 Years**

*&** *As per AIOU& HEC rules.*

The policy of Re-Appear and Again Re-Appear is being dis-continued and the concerned students will have to re-register/enroll or re-admit in the failed course(s).

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Admission Procedure and Requirements for MPhil Programs

The admission of MPhil and Ph.D. shall be announced by Director BASR as per admission calendar of AIOU. Announcement for admission will be made in the leading newspapers of the country.

1. The minimum entry requirements for admission to **MS/MPhil/ or equivalent** programs shall be minimum of 16 years 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 (minimum with 120 credit hours from HEC recognized institution).
2. An eligible candidate shall apply for admission through online portal (<https://aiou.edu.pk/oas-fresh-admission>).
 - Register here through your Cell No. or Email and Login
 - Fill in the Admission Form completely and submit.
 - Print Fee Voucher and deposited the fee in the designated banks or through Jazz Cash, Easy Paisa and Upaisa Mobile App/USSD String *786#, Retailer Agent, Franchise and Branches of Mobilink, Telenor and Ubank.
3. **Admission Test:**
 - a) University is required to:
 - i. Conduct a rigorous admission test as an eligibility condition for admission to

MS/MPhil/Equivalent programs, with a passing score of 50%

OR

- ii. Accept the GRE/HAT General/Equivalent tests, with a passing score of 50%.
4. The criteria for admission and weightage of its components for **MS/MPhil/MSc (Hons)** e.g., **GAT/HAT General (NTS)**, academic qualifications, research/ professional experience, publications, written subject test and interview shall be as follows:

i.	Academic Qualification + Research + Experience	30+5+5=40
ii.	Written Test (at per HEC/AIOU Policy)	40
iii.	Interview	20
	Total	100
 6. Admission to **MPhil** shall be processed and finalized by the Departmental Admission Committee (DAC) duly approved by the Vice-Chancellor.
 7. Admission to MPhil programs will be granted against available seats strictly based on merit/written test/interview as approved by the University. The University reserves the right not to start MPhil programs if a viable group of students is not enrolled.
 8. Concerned Department will inform the selected candidate about their admission in respective program after fulfilling prescribed procedure.
 9. A candidate will become a student of **the MPhil** 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.

10. The Department will consider the next candidate in order of merit for admission in case the selected candidate does not deposit the prescribed fee within the stipulated time. No appeal shall be considered once alternate candidates offer admission.
11. A Student admitted to **MPhil** programs 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.
12. A candidate seeking admission to **MPhil** 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.
13. Fee can neither be refunded nor be adjusted for future admission after finalization of admission and commencement of classes.
14. The Candidates having GRE HAT (General) conducted by ETS with minimum of 50 percentile score or an equivalent as per HEC policy be considered for admission in MS/MPhil/Equivalent programs and shall not have to appear in the departmental admission test conducted by the university.

How to Pay the Fee?

The admission in MPhil programs is purely on merit basis.

No fee is to be paid unless intimated by concerned department of the university. The fee is to be deposited through Fee Voucher (CMS generated) Form only in the specified branches of Banks in Main campus of AIOU Islamabad within stipulated time.

Duration, Credit Requirements, Research Project and Medium of Instructions for MS/MPhil and equivalent programs:

1. The **minimum duration** of MS/MPhil 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 by concerned committee.
 - 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.

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 faces to face teaching hours shall be 48 hours for each course (3 credit hrs.)

3. The duration of synopsis orientation workshop shall be compulsory of two weeks in the beginning of 3rd semester.

Course Work Evaluation:

1. The evaluation of 24 credit hours course work of MPhil shall be conducted by the Controller of Examinations as per prevailing practice of the university.
2. 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 Examinations 50%

Total	100%
--------------	-------------
3. 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 Requirements

1. 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/statistics. However, he/she will be allowed to submit the thesis only after passing all the courses.
2. 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.

Travelling & Boarding / Lodging Expenses

The AIOU does not have lodging and boarding facilities now except at the 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.

Hostel Facilities

The students coming from other cities can avail the hostel facility at reasonable rates (other than fee) subject to availability.

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 1st semester. Financial assistance will be considered from the 2nd semester.

Admission Procedure and Requirements for Ph.D. Programs

1. The Ph.D. program shall be announced by the Director DASR as per admission calendar of AIOU. Announcement for admission will be made in the leading newspapers of the country.
2. **The minimum entry requirement for admission to Ph.D. program shall be MS/MPhil or equivalent degree** with CGPA 3.0 out of 4.0 in semester system or 1st division in the Annual system with (60% marks).
3. If the CGPA/Percentage is not mentioned on the transcript, the candidate must produce equivalent weightage from the parent university.
4. Admission will be awarded strictly on merit, based on the approved criteria (as per HEC/AIOU rules).
5. In-service candidates shall be required to submit their departmental No Objection Certificate (NOC) along with their admission application.
6. **Admission Test:**
 - a) University is required to:
 - i. Conduct the test equivalent to GRE/HAT General developed at the University, with the passing score of 60% **OR**
 - ii. Accept a test equivalent to GRE/HAT General, conducted by testing bodies accredited by HEC, with a passing score of 60%.

7. The university committee for the test at par with GRE (general) consists of at least 3 Ph.D. Faculty members in the subject area will conduct the test with intimation to QA Division HEC within one month of its constitution and the qualifying score for this will be 60%.
8. The criteria for admission and weightage 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

Statement of Purpose

As part of the application for admission to PhD programs, applicants shall be required to submit a statement of purpose, which shall form an integral part of the application. The admissions committee shall use the information provided to ascertain the preparedness and interest of the candidate in pursuing doctoral studies, and whether the department has the requisite resources to train and supervise the doctoral candidate in the subspecialty in which the applicant is interested. A statement of purpose shall, at least, include the following:

- i. Title of the potential research proposal.

- ii. Clear articulation of the current understanding of the intended field and ideas for potential research.
- iii. Explanation of the intended impact of the proposed research.
- iv. The prospective candidates shall demonstrate passion and enthusiasm for the area of research.

How to Apply for Admission?

- I. An eligible candidate shall apply for admission through online portal (<https://aiou.edu.pk/oas-fresh-admission>).
 - Register here through your Cell No. or Email and Login
 - Fill in the Admission Form completely and submit.
 - Print Fee Voucher and deposited the prescribed fee in the designated banks or through Jazz Cash, Easy Paisa and Upaisa Mobile App/USSD String *786#, Retailer Agent, Franchise and Branches of Mobilink, Telenor and Ubank.
- II. Admission to a Ph.D. will be offered against available seats strictly on the basis of merit and as per criteria laid down by the concerned Department. The University reserves the right not to start Ph.D. programs if a viable group of students is not enrolled.
- III. A candidate will become a student of **PhD** program upon depositing the prescribed semester-based fee for the 1st 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.

- IV. A student admitted to **Ph.D.** programs and a specialization thereof, whichever applicable, shall not be allowed to change his/ her program or specialization. The student shall have to apply for a fresh for admission to another program or specialization after discontinuation of the earlier program/specialization as and when next admission is announced.

Important Notice: (About Written Test):

- (a) Admission Test shall be conducted as per schedule announced in Newspaper.
- (b) All candidates to inform about test/interview through only SMS or AIOU website (news section), No call letters by post will be sent to the candidates for test/interview.
- (c) It is advised to candidates for SMS service, correct Cell Number put in online admission form, if the wrong number is entered in the admission form, then all the responsibility will be on the candidates.
- (d) Remember that if your mobile number has been converted to another network. SMS will not be received on it, so add those numbers in admission form which has not been converted to another network, otherwise you are responsible.
- (e) 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 during the Interview.
- (f) Candidates will not be allowed to sit in the Written Test without showing CNIC. No TA/DA is admissible for Test & Interview.

Duration/Credit Hours and Medium of Instructions for Ph.D. programs:

Duration/Credit Hours as per HEC rules adopted by AIOU time to time.

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

Evaluation

Course Work Evaluation

The evaluation of the 18 credit hours of Ph.D. course work will be conducted by Controller of Examinations by appointing teachers (who taught the course in that particular semester) as Examiners recommended by the department concerned.

1. The distribution of marks of each 3 credit hours course work of Ph.D. shall be as follows:

Sr.#	Components	weightage
i.	Continuous Assessment & Mid Term	50% (20+30)
ii.	Final Examination	50%
iii.	Total	100%

2. 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.

Comprehensive Examination

1. The students completing the Ph.D. course work shall be allowed to appear in the Comprehensive Examination arranged and conducted by the department concerned as per the rules of the HEC. The pass percentage in Comprehensive Examination shall be 70% however; no grades will be awarded to the candidate.
2. Each Ph.D. candidate will be given a maximum of two chances to clear the Comprehensive Examination.
3. The department concerned will conduct a written examination (comprehensive exam) of four hours duration based upon its Ph.D. level courses within 90 days of completion of coursework.

Plagiarism Policy

In case a thesis is found to be a plagiarized version of other theses, research work, text, etc., published, or unpublished, the student's candidature for PhD shall be cancelled and he/she shall be debarred forever from admission to any program of the University. In case the plagiarism is proved, after the award of PhD degree, the degree shall be cancelled/withdrawn. The HEC Plagiarism Policy and its SOPs shall be followed for any case found/reported.

Format of Thesis

The scholars will be required to observe the Department/University's guidelines regarding format, writing, referencing, paper quality and other related matters. (Detailed information in this regard could be obtained from the Department on request or the information on format will be provided during the thesis orientation workshop).

c. Thesis Evaluation

1. On completion of **Ph.D.** research, the student shall be required to submit 05 spiral bound copies of the thesis to the Supervisor.
2. 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.
3. The thesis will be evaluated as per AIOU rules.
4. The Viva-voce Exam will be conducted after the evaluation as per AIOU rules.
5. The Ph.D. degree shall be awarded on completion of all requirements for the degree.
6. 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.

Research Publications:

For award of Ph.D. degree, a Ph.D. researcher shall be required to publish a research articles meeting the following criteria:

- i. At least:
 - a. One research article in W category journal or two research articles in X category journals, for Science disciplines.

- b. One research article in X category journal or two research articles in Y category journals, for Social Sciences disciplines.

- ii. The PhD researcher shall be the first author of these publications.
- iii. The research article shall be relevant to the PhD research work of the PhD researcher.
- iv. The article shall be published after approval of the research synopsis.
- v. The article shall be published in a relevant research journal.

Instructional Methodology:

Face to Face teaching (Tutorials):

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

Viva Voce:

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

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

FACULTY OF ARABIC & ISLAMIC STUDIES



Prof. Dr. Shah Mohyuddin Hashmi
Dean



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

1. To teach Islamic Studies from Matric to Ph.D. levels as per contemporary requirements.
2. To teach Arabic language and literature from Matric to Ph.D. 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 a leading role in the interpretation of Islamic

Teachings, according to the needs of contemporary Pakistani society.

6. To reconstruct Islamic Thought and defend Islam and the Islamic identity of Pakistan at national and international forums.
7. To prepare Scholars of Islamic Studies who have grasp of the different issues of 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 opportunities for professional growth and development to the scholars of Islamic studies in general and in service personnel.
10. To develop a linkage between different highly reputed institutions of Islamic learning in general and institutions of the Muslim World in particular.
11. To create interfaith harmony and an environment of dialogue between Islamic and other civilizations.

Prospects of the Faculty

1. Faculty is providing education in Arabic, Shari'ah & Islamic Studies to a large number of students.
2. The faculty has prepared several quality books on the different fields of Islamic Studies.
3. The faculty can produce high-quality research work at M.Phil and Ph.D. levels with different specializations.
4. The faculty is regularly publishing its refereed quality research journal Muarf-e-Islami.
5. Some of the programs of the faculty are unique and not

offered in any other Institutions of Pakistan except AIOU such as ATTC, B. Ed Arabic, MA & MPhil Islamic Studies with different specializations.

6. MPhil Islamic Studies is a leading program of the faculty, and it has gained a good repute in scholarly circles of Pakistan.

MPhil Programs Offered in Autumn-2026

- i) MPhil Islamic Studies (General)

Eligibility for MPhil Islamic Studies (All Specializations) Programs

A candidate with having MA in Islamic Studies or an equivalent degree with minimum second division (in both MA Islamic Studies & BA) can apply for admission in MPhil. However, in case of a large number of applications, an 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 weightage is given to the research thesis written for MA Islamic Studies.
- Expertise in Arabic language and Hifz-e-Quran is also considered as an additional qualification during the interview.
- Intermediate and above teaching experience in any recognized college/institution is also given due weightage in admission criteria.
- Published research papers in approved research journals by HEC 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 an equivalent certificate (by Name) from HEC.

- BS/Master degree in Inter-disciplinary education (Social Sciences & humanities) with 9 CH of deficiency courses of Islamic Studies at level 6 with minimum 50% marks

Scheme of Studies for All MPhil of Islamic Studies Programs:

S. No.	Name of Program	MPhil in Islamic Studies
1.	Duration	Course work: 2 Semesters Research work/Thesis: 2 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 a 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.	Face-to-Face Classes	teaching hours (Face to Face) classes for each 3-credit course (these classes are being held in Islamabad).
6.	Workshop	Two-week synopsis orientation workshop at the start of research work after the completion of course work in AIOU Man campus, Islamabad
7.	Components of Course	Sr# Component
		1. Continues Assessment

	Work	2.	Face to Face teaching (48 hrs. per 03 credit hours in each semester)
		3.	Mid-Term Examination
		4.	Final Examination

PhD Programs Offered in Autumn-2026

- i) PhD Islamic Studies (General)
- ii) PhD Islamic Studies (Specialization in Seerat Studies)
- iii) PhD Islamic Studies (Specialization in Hadith & Hadith Sciences)

1. Aims & Objectives of Ph.D. Islamic Studies

The Ph.D. Islamic Studies Program aims to:

- Prepare scholars who have a grasp of Islamic Studies in general and command over the areas of specialization.
- 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 for professional growth and development to scholars in general and in-service personnel.

2. Eligibility for Admission

- MPhil Islamic Studies or equivalent from any recognized university in the First division or CGPA 3.00.

Scheme of Studies of all Ph.D. Programs

Sr. No.	Name of Program	Ph.D. in Islamic Studies	
1.	Duration	Maximum Five Years (10 Semesters)	
2.	Medium of Instruction	(i) Urdu (ii) English (iii) Arabic	
3.	Coursework	18 CH Course Work	
4.	Research work	The thesis of Ph.D. must be a 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.	Face-to-Face Classes	48 teaching hours (Face to Face) classes for each 3credit course (these classes are being held in Islamabad.	
6.	Workshop	Two-week synopsis orientation workshop at the start of research work after the completion of course work in AIOU Man campus, Islamabad	
7.	Evaluation	As per amendments in AIOU rules & regulations, a Ph.D. thesis is necessary to be sent for evaluation to three foreign experts from advanced countries.	
8.	Pre-Requisite of viva voce of Ph.D. Islamic Studies	Unconditional approval from at least two foreign experts. Publication of research paper in HEC-recognized research journal.	
9.	Components of Coursework	Sr.#	Component
		1.	Continues Assessment
		2.	Face to Face teaching (48 hrs per 03 credit hours in each semester)
		3.	Mid-Term Examination
		4.	Final Examination
		5.	Comprehensive Exam

Fee Structure for MPhil Programs

Faculty of Arabic and Islamic Studies:

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.2150/-	This fee will be paid with the fee for first semester
2	Registration fee	Rs.1400/-	Once at the time of Admission
	Technology Fee	Rs.850/-	Each semester
3	Tuition Fee (per Credit)	Rs.1960	A student can take 12 Credit Hours one semester
	Tuition fee for 12 credit hours course.	Rs.23520/-	(Rs.5880/- per 3 credit hours)
5	Total Fee for First Semester	Rs.27920/-	
6	Thesis Fee 12 Credits hours	Rs.11760/-	3 rd & 4 th Semester each
7	Thesis Evaluation Fee	Rs.23520/-	This fee will be paid at the time of submission of the thesis

Fee Structure for PhD Programs

Faculty of Arabic and Islamic Studies:

Admission fee (At the time of first admission)	Rs.3600/-
Registration fee (At the time of 1st admission only)	Rs.3600/-
Technology fee (per student per semester)	Rs.850/-
Tuition Fee (per Credit Hours)	Rs.3500/-
Course Fee (Per 3 credit hours) Rs.10500 x 3 = Rs. 29,340/-	Rs. 31,500/-
Thesis Fee: (in four installments) Rs.31,500/- in Each Semester	Rs.1,26,000/-
Thesis Evaluation Fee (at the time of submission of thesis)	Rs.1,26,000/-
Total Fee for First Semester	Rs.39,550/-

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.

DEPARTMENT OF ISLAMIC THOUGHT, HISTORY AND CULTURE



Dr. Hafiz Muhammad Sajjad
Chairman



The Department of Islamic Thought History and Culture was established to provide advances 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. This department coordinates PhD Islamic Studies (General), MPhil Islamic Studies (General), MA Islamic Studies (General) and B.S Islamic Studies (General), B.S Islamic Studies (in English medium for International Students), Certificate Course "IFTAA" and Certificate Training course of "Imam and Khateeb" Programs.

A. MPhil Islamic Studies (General)

1. Introduction

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 foreign countries. Each year hundreds of candidates apply for admission and only a few candidates can 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 requires 2 to 4 years' time for completion. The student's 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 Islam can be explored. This Program provides scholars an opportunity of exercising independent critical judgment through research skills for the service of Islamic & Muslim communities.

2. Aims & Objectives

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 a better understanding of Islam and contemporary challenges faced by the Muslim Ummah.
- Provide an opportunity of learning the methods of use of basic Islamic sources for Islamization of contemporary knowledge and laws.

- Prepare scholars who have a grasp of Islamic Studies in general and command over the area of specialization.
- 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 for professional growth and development to scholars in general and in-service personnel.

3. Detail of Courses for MPhil Islamic Studies (General)

1st Semester

Sr. #	Course Title	Course Code	Credit Hours
1.	Basic Sources of Islamic Sciences & Thought	ITHC 7501	3
2.	Principles & Methods of Research	ITHC 7502	3
3.	Ijtihad History, Principles & Methods	ITHC 7503	3
4.	Orientalism Critical Study	ITHC 7504	3

2nd Semester

1.	Islamic Thought, History & Culture: Principles & Methodology	ITHC 7505	3
2.	Islam and Modern Economic and Social Issues	ITHC 7506	3
3.	New Dimensions of Research in Islamic Sciences	ITHC 7507	3
4.	Principles, Methods of Islamic Fiqh & Objectives of Shari'ah	ITHC 7508	3

3rd Semester

	Thesis-1	ITHC 8501	6
4th Semester	Thesis-2	ITHC 8502	6

B. Ph.D. Islamic Studies Program

3. Introduction

The Department of Islamic Thought, History and Culture have been offering PhD Islamic Studies. At present the Department is offering an MPhil based PhD program. 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 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 the 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.

4. Aims & Objectives of Ph.D. Islamic Studies

The Ph.D. Islamic Studies Program aims to:

- Prepare scholars who have a grasp of Islamic Studies in general and command over the areas of specialization.
- 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 for professional growth and development to scholars in general and in-service personnel.

5. Eligibility for Admission

- MPhil Islamic Studies or equivalent from any recognized university in the First division or CGPA 3.00.

6. Scheme of Studies of all Ph.D. Programs

Sr. No.	Name of Program	Ph.D. in Islamic Studies	
1.	Duration	Maximum Five Years (10 Semesters)	
2.	Medium of Instruction	(i) Urdu (ii) English (iii) Arabic	
3.	Coursework	18 CH Course Work	
4.	Research work	The thesis of Ph.D. must be a 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.	Face-to-Face Classes	48 teaching hours (Face to Face) classes for each 3credit course (these classes are being held in Islamabad.	
6.	Workshop	Two-week synopsis orientation workshop at the start of research work after the completion of course work.	
7.	Evaluation	As per amendments in AIOU rules & regulations, a Ph.D. thesis is necessary to be sent for evaluation to three foreign experts from advanced countries.	
8.	Pre-Requisite of viva voce of Ph.D. Islamic Studies	Unconditional approval from at least two foreign experts. Publication of research paper in HEC-recognized research journal.	
9.	Components of Coursework	Sr.#	Component
		1.	Continues Assessment
		2.	Face to Face teaching (48 hrs per 03 credit hours in each semester)
		3.	Mid-Term Examination
		4.	Final Examination
		5.	Comprehensive Exam

7. Details of Courses Ph.D.Islamic Studies (General)

1stSemester

Sr. #	Course Title	Course Code	Credit Hours
1.	Applied Research in Islamic Studies	ITHC 9501	3
2.	Principles & Methods of Interpretation	ITHC 9502	3
3.	Muslim Thinkers & Critical Study of their Thought	ITHC 9503	3

2ndSemester

4.	Islamic Epistemology & Islamization of Knowledge	ITHC 9504	3
5.	Comparative Study of World Civilizations	ITHC 9505	3
6.	Challenges to Contemporary Islamic Thought and Possible Solutions	ITHC 9506	3

3rdSemester	Thesis-1	ITHC 9507	9
4thSemester	Thesis-2	ITHC 9508	9
5thSemester	Thesis-3	ITHC 9509	9
6th Semester	Thesis-4	ITHC 9510	9

FACULTY MEMBERS

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DEPARTMENT OF SEERAT STUDIES



Prof. Dr. Shah Moeen Uddin Hashmi
Chairman



The Department of Seerat Studies, a significant segment of the Faculty of Arabic & Islamic Studies was established in 2017 to familiarize the new generation in specific and the whole ummah in general, with the Seerat of the last Prophet Hazrat Muhammad (SAW) and to promote knowledge, research and teachings associated with Prophetic Seerah. So, to develop a deep and academic understanding of Seerah and research in its diverse fields the department is offering various courses at different levels.

To achieve this goal, the department is offering graduate and postgraduate-level programs that include Ph.D. Islamic Studies (Seerat), M. Phil Islamic Studies (Seerat), B.S Islamic Studies (Seerat) and B.S Islamic Studies (Dars-e-Nizami).

Ph.D. Islamic Studies (Specialization in Seerat Studies) Program

1. Introduction

The Department of Seerat Studies has been offering PhD Islamic Studies (Specialization in Seerat Studies). Ph.D. students are required to complete specific course work & research work under the supervision of qualified supervisors. This Program requires 3 to 5 years' 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 the required criteria of HEC. It 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

The program aims to:

- Prepare scholars who have a grasp of Islamic Studies in general and command over the areas of specialization.
- 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 for professional growth and development to scholars in general and in-service personnel.

3. Eligibility for Admission

MPhil Islamic Studies or equivalent from any recognized university in the First division or CGPA 3.00.

4. Details of Course Work (Specialization in Seerat Studies)

1stSemester

Sr. #	Course Title	Course Code	Credit Hours
1.	Applied Research in Islamic Studies	SERT 9501	3
2.	Pre-Islam History and Civilization of Arab	SERT 9502	3
3.	Classical Trends of Seerah Writing	SERT 9505	3

2ndSemester

1.	Geography of Seerah	SERT 9503	3
2.	Modern Trends of Seerah Writing	SERT 9506	3
3.	Fiqh al Seerah	SERT 9507	3

3rdSemester	Thesis-1	SERT 9509	9
4thSemester	Thesis-2	SERT 9510	9
5thSemester	Thesis-3	SERT 9511	9
6thSemester	Thesis-4	SERT 9512	9

FACULTY MEMBERS

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DEPARTMENT OF HADITH & HADITH SCIENCES



Prof. Dr. Shah Mohyuddin Hashmi
Dean/Chairman



The Department of Hadith & Hadith Sciences focuses on the study of Hadith and Sunnah of the Prophet (S.A.W) their collections, preservation, authentication and their interpretation as a source of knowledge & guidance for man's spiritual & moral need as an individual in society. It intends to enable students to work diligently and function benevolently in all avenues of life. The Department of Hadith & Hadith Sciences is committed to restore the full meaning of education by offering an opportunity to study comprehensively and critically and to train students to develop the strong nation with Islamic values and ethics. The department is preparing and offering different programs for specialization in Hadith & Hadith Sciences to its students.

Ph.D. Islamic Studies (Specialization in Hadith & Hadith Sciences) Program.

1. Introduction.

The Department of Hadith & Hadith Sciences has been offering PhD Islamic Studies (Specialization in Hadith & Hadith Sciences). PhD Students are required to complete specific coursework & research work under the supervision of qualified supervisors. This Program requires 3 to 5 years 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 the required criteria of HEC. It 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.

The program aims to:

- Produce Expert Scholars and to equip graduates with a comprehensive understanding of Islamic Studies alongside deep expertise in their chosen research areas.
- Drive Research Excellence and to train a distinct cadre of leaders and professionals capable of directing, executing, and publishing high-impact Islamic research.
- Advance Professional Growth and to create accessible pathways for active educators, researchers, and field professionals to elevate their academic and technical skills.

3. Eligibility for Admission.

MPhil Islamic Studies or equivalent from any recognized university in the First division or CGPA 3.00.

4. Details of Course Work (Specialization in Hadith & Hadith Sciences).

1stSemester

Sr.#	Course Title	Course Code	Credit Hours
1)	Principles of Research in Hadith	HADH 9501	3
2)	Hadith as a Source of Islamic Sciences	HADH 9502	3
3)	Contemporary Discussion of Hadith and New Aspects of Research	HADH 9503	3

2ndSemester

1)	Introduction to Sources of Hadith and Selected Text	HADH 9504	3
2)	Study of Text and Commentaries of Hadith	HADH 9506	3
3)	Ilal-ul-Hadith	HADH 9507	3

3rdSemester	Thesis-1	HADH 9551	9
4thSemester	Thesis-2	HADH 9552	9
5thSemester	Thesis-3	HADH 9553	9
6thSemester	Thesis-4	HADH 9554	9

FACULTY MEMBERS

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FACULTY OF EDUCATION



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

DEPARTMENTS OF THE FACULTY

Faculty of Education Comprises of the following Six Departments:

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

Distance, Non-Formal Education and Continuing Education

The department was established in 1984 and was later renamed as Distance, Non-Formal and Continuing Education. This department offers PhD, M Phil and specialized courses in the B.Ed. 1.5 program. The department also offers B.Ed 4-years, B.Ed (ADE Based), certificate and diploma courses in literacy and non-formal education.

Educational Planning, Policy Studies, and Leadership (EPPSL)

The department was established in 1976 and was renamed as EPPSL in 2008. It offers programs in educational planning, management, and leadership. These programs are aimed at producing a managerial cadre of professionals for the educational institutions and organizations in the country. Programs of EPPSL include B.Ed., Postgraduate Diploma, MA (EPM), MPhil and PhD in Educational Planning and Management as well as online courses. The courses of these programs are in accordance with the field requirements of target personnel in the areas of educational planning, management, and leadership.

Secondary Teacher Education

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

The programs/courses of this department comprise MA, MEd B.Ed (4 years) and BS Instructional Design and Technology as professional degree programs. The department also offers MPhil and PhD in Education, which are aimed to prepare highly skilled professionals and leaderships in the field of teacher education.

Elementary Teacher Education

The Department of Elementary Teacher Education was established in 2003. In April 2008, the name of Elementary Teacher Education Department was changed to Early Childhood Education and Elementary Teacher Education Department. The Department offers associate degree in education, Post Graduate Diploma in ECE, BEd (1.5 year), BEd (2.5), BEd (4 years), MPhil and PhD program, it also offers “Education” as subject at Matric, Intermediate and Graduate level. The department is planning to launch, BS (ECCE)

and Certificate of Entrepreneurship in ECCE. The department also plans to offer non-credit research courses and postgraduate diploma for teaching in higher education.

Science Education

The Department of Science Education was established in 1988. The programs and courses of the department are mainly focused on education and training of mathematics and science teachers. Presently the department offers specialized courses in science education at undergraduate and postgraduate level. Specialized courses provide conceptual framework and insight into the teaching of science. The department offers BEd (4 year) BEd (2.5 year) and specialization of Science Education in BEd (1.5 year) and MEd. MPhil and PhD programs; in science education are also offered at the department.

Special Education

The Department was established in 1985. The department imparts education and training to teachers for the special children in four specializations namely visual impairment, hearing impairment, intellectual disabilities, physical disabilities, and mental retardation with particular emphasis to facilitate inclusive education. Parents of special children are also admitted to these programs. Present programs/courses of this department comprise B.Ed (4 years), MEd, MA, MPhil and PhD in the field of Special Education.

Department of Early Childhood Education and Care

The Department of Early Childhood Education & Care (ECE&C) is dedicated to advancing the holistic growth and development of young children by preparing professionals who are equipped to address their developmental, educational, and emotional needs. Guided by a vision to become a leading center of excellence, the department emphasizes quality teacher education, innovative research, and meaningful community engagement.

Through its mission, the department focuses on equipping teachers, caregivers, and practitioners with the knowledge, skills, and values required delivering high-quality ECE&C services. It actively promotes research in child development, parenting, and early learning environments, while also developing culturally relevant curricula and models tailored to diverse contexts

All Programs of Faculty of Education are recognized by HEC.

Fee Tariff for MPhil Programs Faculty of Education

Sr. #	Items	Rate
1	Admission fee (At the time of first admission)	Rs.2150/-
2	Registration fee (At the time of 1st admission only)	Rs.1400/-
3	Technology Fee (per semester)	Rs.850/-
4	Course Fee (3 credit hours)	Rs.5880/-
5	Fee for 12 credit hours (5880 x 4= 23250)	Rs.23250/-
6	Total Fee for First Semester	Rs.27,920/-
7	Research Thesis fee in 3 rd & 4 th Semester Each	Rs. 11760/-
8	Thesis Evaluation Fee (at the time of submission of thesis)	Rs.23,250/-

Fee Tariff for PhD Programs Faculty of Education

Sr. #	Items	Rate
1.	Admission fee (At the time of first admission)	Rs.3600/-
2.	Registration fee (At the time of 1st admission only)	Rs.3600/-
3.	Technology fee (per semester)	Rs.850/-
4.	Course Fee (3 credit hours)	Rs.10500/-
5.	Tuition Fee 9 credit hours (10500 x 3 courses) = 27,270	Rs.31500/-
6.	Total Fee First Semester	Rs. 39,550/-
7.	Thesis Fee: (in four installments) Rs. 29,340/- in Each Semester	Rs.126,000/-
8.	Thesis Evaluation Fee (at the time of submission of thesis)	Rs.126,000/-

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.

DEPARTMENT OF DNF&CE



Prof. Dr. Zafar Iqbal Lillah
Chairman



The department was established in 1984 and was renamed as Distance, Non-Formal and Continuing Education in 2008. It offers specialized degree programs/courses in Distance, Non-Formal and Continuing Education, Adult Education and Educational Technology at B.Ed, MA Education, MEd, MPhil, and PhD (MPhil based) in Education

Moreover, the department also provides on-the-job training in distance learning system to the academic staff of AIOU.

Access to education is one of the fundamental rights of an individual, regardless of age, tribe, or social class. Non-formal education has been put in place to substitute formal learning in localities where people do not have opportunities to acquire formal education, as a way of providing access to education. The Department also offers Certificate & Diploma courses in Literacy and Non-Formal Education.

MPhil Distance and Non-Formal Education (7032)

i. Eligibility

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

MA Education (at least 2nd division) **OR**
 MEd (at least 2nd division) **OR**
 MSED (at least 2nd division) **OR**
 BEd (4 Year) **OR**
 BS Education **OR**
 BEd (2.5 Year)

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

ii. Program Structure

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

Semester-1

a. Core Courses 12 Credit Hours

S. No.	Code	Courses	Credit Hours
1.	STED 7501	Trends and Issues in Education	3
2.	DNFE 7501	Trends and Issues in Distance Education	3
3.	ECED 7501	Advanced Research Method	3
4.	DNFE 7502	Qualitative Research in Education	3

Semester-2

Students can take any two clusters from the following:

b. Specialization 12 Credit Hours

S. No.	Code	Courses		Credit Hours
1.	DNFE 7501	Non-Formal Education-I	Cluster-A	3
	DNFE 7504	Non-Formal Education-II		3
2.	DNFE 7505	Adult Education -I	Cluster-B	3
	DNFE 7506	Adult Education -II		3
3.	DNFE 7507	Educational Technology-I	Cluster-C	3
	DNFE 7508	Educational Technology-II		3
4.	DNFE 7509	Distance Education-I	Cluster-D	3
	DNFE 7510	Distance Education-II		3

Research Work (Total 12 Credit Hours in 3rd – 4th Semester)

Semester	Course Code	Title of Course	Credit Hours
3 rd Semester	DNFE 8501	Thesis-1	6
4 th Semester	DNFE 8502	Thesis-2	6

PhD Distance and Non-Formal Education (9024)

PhD Admission Criteria

- i. Applicants holding MS/MPhil or equivalent, in the relevant area education, completed with minimum 30 credit hours of coursework and research thesis/ project; and achieved at least CGPA 3.0/4.0 or 1st Division will be eligible for applying in PhD program.
- ii. Application and processing fee along with copies of credentials will be uploaded online.
- iii. If a candidate wishes to apply in more than one specialization, he/she has to apply separately for each specialization/ program. Short listing is done on the basis of subject specific criteria as mentioned in the sections below.
- iv. Merit will be determined based on educational qualification, experience, as well as score of subject test and interview conducted by the department.
- v. Selected candidates will be intimated by the concerned department with the advice to deposit fee according to the schedule.

Admissions in PhD are merit based as per criterion approved by HEC and University Statutory bodies.

PhD Distance and Non-Formal Education

Semester-1

Common Courses

9 Credit Hours

Sr. No.	Code	Courses	Credit Hours
1.	ECED 9501	Qualitative Research Design	3
2.	ECED 9502	Quantitative Research Design	3
3.	SPED 9504	Preparing Critique in Educational Research	3

Semester-2

Specialization Courses:

Student may take 02 specialization courses equal to 6 credit hours:

Sr. No.	Code	Courses	Credit Hours
1.	DNFE 9501	Comparative Education	3
2.	DNFE 9502	Adult and Lifelong Education	3
3.	DNFE 9503	Human Resource Management in Distance Education	3

Collateral Area

Each student will take 01 course from this area equivalent to 3 credit hours.

Sr. No.	Code	Courses	Credit Hours
1.	STED 9503	Discourse Analysis	3
2.	STED 9504	Emerging Trends in Pedagogy	3
3.	EPSL 9502	Educational Leadership & Management	3

Research Work (Total 36 Credit Hours in 3rd – 6th Semester)

Semester	Course Code	Title of Course	Credit Hours
3 rd Semester	DNFE-9551	Thesis-1	9
4 th Semester	DNFE-9552	Thesis-2	9
4 th Semester	DNFE-9553	Thesis-3	9
4 th Semester	DNFE-9554	Thesis-4	9

At least one article is to be published before the viva voce exam as per HEC approved policy.

For any queries, please contact at the following address:

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DEPARTMENT OF SCIENCE EDUCATION



Dr. Muhammad Tanveer Afzal
Chairman



Introduction:

Faculty of education recognized the need for promotion of science education and established Department of Science Education on 1988. Initially department worked on different science education programs and produced competent teachers for the country. At present the programs and courses of the department are mainly focused on education and training of science and mathematics teachers. Presently, the department offers specialized programs and courses in science education at different levels. Specialized courses provide conceptual framework and insight into the teaching of science. The department also offers BEd (4-Years), BEd (2.5 Years), BEd (2ADE+ 2 Years), Specialization of Science Education in BEd (1.5Years), MPhil and PhD programs in Science Education. Many PhDs, MPhil, Med and BEd graduated serving in education departments within the country and internationally.

PhD Science Education (8409)

Eligibility:

Graduate holding MS/M. Phil in the relevant area or equivalent with 3.00 CGPA/1st Division will be eligible for applying admission in PhD program. Admission to PhD program will be solely based merit and on approved criteria of the university/HEC.

Program Structure:

PhD Education with specialization in Science Education comprises of 18 credit hours course work and 36 credit hours Research Thesis.

Semester 1

Common Courses

9 Credit Hours

Sr. No.	Code	Courses	Credit Hours
1.	ECED 9501	Qualitative Research Methods	3
2.	ECED 9502	Quantitative Research Methods in Education	3
3.	SPED 9504	Preparing Critique in Educational Research	3

Semester 2

Specialization Course

6 Credit Hours

1.	SCED 9501	Professional Development of Science Teacher	3
2.	SCED 9502	Nature of Science in Science Education	3

Collateral Area Courses (any one from the following)

3 Credit Hours

1.	EPSL 9501	Human Resources Management	3
2.	EPSL 9502	Educational Leadership & Management	3
3.	4809	Comparative Assessment	3
4.	4810	Large Scale Assessment in Education	3

Research Work (Total 36 credit hours) in 3rd – 6th Semester:

Semester-3

1.	SCED 9551	Thesis – I	9
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Semester-4

1.	SCED 9552	Thesis – II	9
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Semester-5

1.	SCED 9553	Thesis – III	9
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Semester-6

1.	SCED 9554	Thesis – IV	9
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At least one article is to be published before viva voce exam as per HEC approved policy.

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FACULTY OF SOCIAL SCIENCES & HUMANITIES



Prof. Dr. Syed Muhammad Amir Shah
Dean



The Faculty of Social Sciences and Humanities was established in 1981 with five Departments. Over the years, it emerged as the largest Faculty of the university. Currently, it consists of fifteen Departments offering various undergraduate, MPhil and PhD

programs in major areas of Social Sciences and Humanities like, Business Administration, Economics, Sociology, Urdu, Mass Communication, Gender and Women Studies, Library & Information Sciences, History, Pakistan Studies, English (Linguistics & Literature) and Teaching of English as a Foreign Language (TEFL), Psychology, Political Science and International Relations. The Faculty of Social Sciences & Humanities also offers several Bachelor level Programs in such professional areas like Bachelor in library& Information Sciences (BLIS), BS-Business Administration, BS-Commerce, Mass Communication and BS English (Linguistics & Literature). Thousands of students belonging to various demographic backgrounds from all over the country are enrolled each year in these Bachelor level Programs.

Aligned 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 offers MPhil/Ph.D. Programs in Iqbaliat, Urdu and Mass Communication, Pakistani Languages, MPhil in Economics, History and Pakistan Studies. MS in Management Sciences, PhD in Business Administration, MPhil in English and Ph.D. in English (Linguistics), History and Sociology

The faculty has expanded vitally, and its programs have gained a high popularity as is clear from the rapidly rising trend of enrolment during the past decade. Further the faculty accorded high priority to improvement of quality education and modified its programs in accordance with the current challenges of the 21st century.

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

Fee Tariff for MPhil Programs
Faculty of Social Sciences & Humanities

Sr. #	Nature of Fee	Amount	Description
1	Admission fee	Rs.2150/-	This fee will be paid with the fee for first semester
2	Registration fee	Rs.1400/-	Once at the time of Admission
	Technology Fee	Rs.850/-	Each semester
3	Tuition Fee (per Credit)	Rs.1960	A student can take 12 Credit Hours one semester
4	Tuition fee for 12 credit hours course.	Rs.23520/-	(Rs.5880/- per 3 credit hours)
5	Total Fee for First Semester		Rs.27920/-
6	Thesis Fee 12 Credits hours	Rs.11760/-	3 rd & 4 th Semester each
7	Thesis Evaluation Fee	Rs.23520/-	This fee will be paid at the time of submission of the thesis

Fee for MBA Program*

3	Tuition Fee (per Course)	Rs.10500/-	A student can take 12 Credit Hours one semester
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* Detail Fee in MBA portion is available.

Fee Tariff for Ph.D. Programs
Faculty of Social Sciences & Humanities

Admission fee (At the time of first admission)	Rs.3600/-
Registration fee (At the time of 1st admission only)	Rs.3600/-
Technology fee (per student per Semester)	Rs.850/-
Tuition Fee (per Credit Hours)	Rs.3500/-
Course Fee (Per 3 credit hours) Rs.10500 x 3 = Rs. 31,500/-	Rs. 31,500/-
Thesis Fee: (in four installments) Rs. 31,500/- in Each Semester	Rs.126,000/-
Thesis Evaluation Fee (at the time of submission of thesis)	Rs.126,000/-
Total Fee for First Semester	Rs.39,550/-

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.

DEPARTMENT OF MASS COMMUNICATION



Dr. Bakht Rawan
Chairman



Introduction

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

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

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

In addition to the above degree programs, the Department also offers BS Mass Communication and Associate Degree in Mass Communication.

PHD IN MASS COMMUNICATION (9001)

PhD in Mass Communication involves 18 credit hours course work followed by comprehensive research to generate body of knowledge on the mass communication phenomena. The coursework comprises International Communication and Globalization, Approaches to Mass Communication: Mass Communication Theory and Effects (Part-1), Approaches to Mass Communication: Mass Communication Theories and Effects (Part-2), Media Debates, Content Analysis Research in Mass Communication, and Political Communication. This program will make students learn the global perspective of Mass Communication, and help them explore media-society

relationships. Besides, the students will be able to debate, and independently investigate the issues relating to political and sociological perspectives of Mass Media and Communication at national and international levels.

Objectives

The PhD Mass Communication program has been designed to advance higher studies and research in Mass Communication enabling students to critically analyze the relationships between media and society.

Eligibility for Admission

The minimum entry requirement for admission to PhD Mass Communication program shall be MPhil in Mass Communication with first division or CGPA (3.0) from any recognized University.

1. Merit will be determined by the Department of Mass Communication according to the approved criteria.
2. Only short-listed candidates will be called for test/interview.
3. The Department enrolls limited number of students to the program.
4. After selection of merit student can deposit admission fee through voucher downloaded from their OAS portal.

Duration

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

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.

Research Work

The minimum period to complete PhD thesis after confirmation of candidature (date of notification by Directorate of BASR) shall be three semesters provided the maximum period of five years is not affected. (Detailed information regarding thesis can be had from the Department).

Scheme of Studies

There will be 18 credit hours course work and 36 credit hours of thesis. Details are given below:

1st Semester:

Sr. No.	Code	Course	Credit Hours
1	MASS 9501	International Communication and Globalization	03
2	MASS 9502	Media Debates	03
3	MASS 9503	Political Communication	03

2nd Semester:

Sr. No.	Code	Course	Credit Hours
1	MASS 9504	Content Analysis Research in Mass Communication	03
2	MASS	Approaches to Mass Communication:	03

	9505	Mass Communication Theories and Effects (Part one)	
3	MASS 9506	Approaches to Mass Communication: Mass Communication Theories and Effects (Part two)	03

3rd Semester

1	MASS 9551	Thesis – I	09
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4th Semester

1	MASS 9552	Thesis – II	09
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5th Semester

1	MASS 9553	Thesis – III	09
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6th Semester

1	MASS 9554	Thesis – IV	09
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DEPARTMENT OF PAKISTANI LANGUAGES



Dr. Abdullah Jan Abid
Chairman



The Department of Pakistani Languages offers a PhD in Pakistani Languages and Literature. PhD students are required to complete specific coursework and conduct research under the supervision of qualified faculty members of the department. This program requires a specified period for completion.

Students carry out their research under the supervision of the faculty of the Department of Pakistani Languages. However, the degree is awarded only after the thesis has been evaluated by three foreign experts from technologically advanced countries, as required by the Higher Education Commission.

This program is designed to carry out research in various fields of Pakistani Languages so that new aspects of these languages could be discovered by applying independent critical judgment through the research skills.

PhD Pakistani Languages and Literature (9501)

1. Aims and Objectives

PhD Program is designed to:

- i. Produce scholars who have a grasp of discipline in general and a command over the area of specialization.
- ii. Establish a cadre of specialists and professionals in Pakistani Languages and Literature who can provide effective leadership in guiding and conducting quality research in Pakistani Languages.
- iii. Provide opportunities for professional growth and development to scholars in general and in-service personnel.

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

- i. MPhil Pakistani Languages and Literature from AIOU with minimum CGPA 3.0 out of 4.

3. Scheme of Studies

A candidate seeking admission to the PhD Program shall submit an online application through the University website upon the announcement of admissions by the University.

Details of Course Work of PhD in Pakistani Languages & Literature

Semester	Course offered	Course Code	Credit Hours
1st Semester	General Linguistics	PKL 9501	03
	Pakistani Languages: Common Literary and Linguistic Heritage (i)	PKL 9502	03
	Pakistani Languages: Common Literary and Linguistic Heritage (ii)	PKL 9503	03
2nd Semester	World Classical Literature	PKL 9504	03
	Translation Skills	PKL 9505	03
	Thesis Writing	PKL 9506	03
3rd Semester	Thesis-1	PKL 9551	09
4th Semester	Thesis-2	PKL 9552	09
5th Semester	Thesis-3	PKL 9553	09
6th Semester	Thesis-4	PKL 9554	09
Total Credit Hours			54

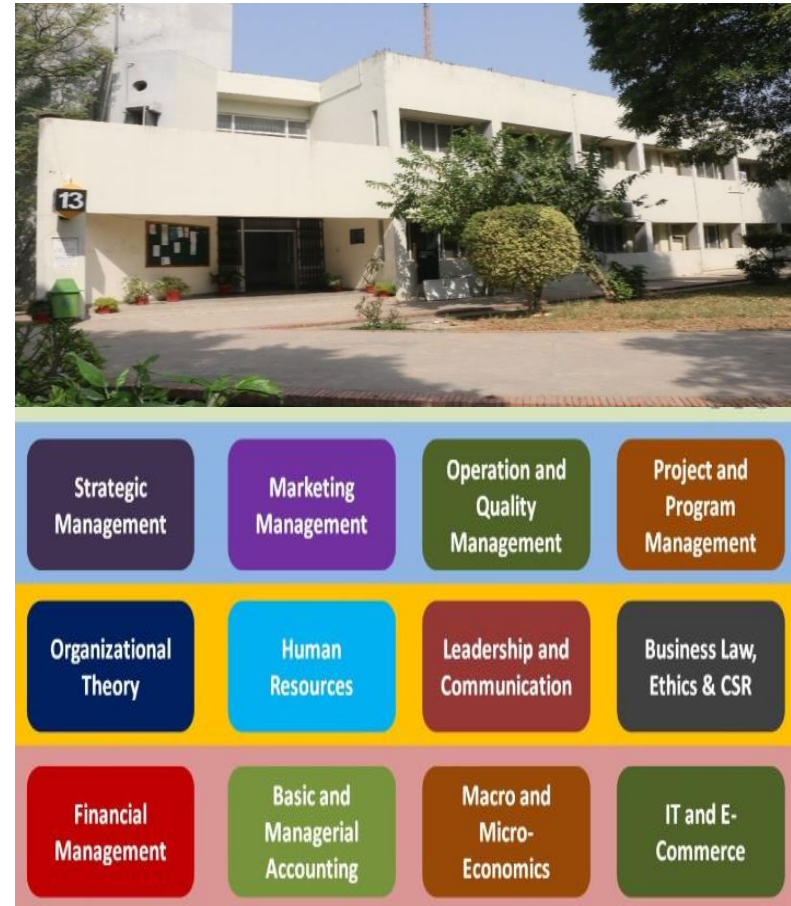
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DEPARTMENT OF BUSINESS ADMINISTRATION



Prof. Dr. Syed Muhammad Amir Shah
Dean/Chairman



The Department of Business Administration was established in 1986 to impart managerial education and skills in the discipline of Business Administration. Since its inception, the Department has made tremendous progress towards achieving its 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 Ph.D. Business Administration. The department introduced the 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 the development of professions equipped with modern business techniques. These programs are designed to provide an opportunity to upgrade your skills and enhance the professional qualifications of future managers. Further, we believe 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 Ph.Ds and MPhil/MS.

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

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

MASTER OF BUSINESS ADMINISTRATION (MBA) PROGRAM 1.5 Years (1427) and 2-Years (1428)

1. Introduction

The purpose of the MBA Program is to enable business and non-business students and professionals to better respond to organizational demands and to help them acquire the skills needed for managing themselves and meet organizational needs in a better way. The courses of the MBA are aimed at developing an understanding of the ways in which individuals and groups behave concerning an organization and have expertise in management. It also focuses on the way organizations shape individual action and are in-turn shape society. The specialized courses of the MBA Program will enable the students to develop an understanding of the 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 activities with an organization. At the Department of Business Administration, the combination of theory and practice blended to formulate its Programs.

1. Program Summary

	For Non-Business Graduates	For Business Graduates
Program Duration	2 Years	1.5 Years
Program Credit Hours	60	30

2. Objectives

- i. To develop the business graduates as per the requirements of the public and private sector organizations and to equip them

to cater to the needs of complex and dynamic business environments.

- 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 new ways of identifying and dealing with opportunities and problems, and face future business challenges.

3. Duration and Specializations

As per guidelines of HEC, the MBA will be 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 applicants having business education while the maximum period will be 4 years. MBA is a program at 18 years of education will be offered on a face-to-face basis. However, the 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. Scheme of Studies

The details of courses and tentative semester-wise offering of courses in MBA Programs are as below. 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 the scheme of studies provided by the department to fulfill the degree requirements.

Semester-I

Sr.#	Course Title	Course Code	Credit Hours
1.	Financial Accounting	MGT 7531	3
2.	Management Theory & Practice	MGT 7532	3
3.	Marketing Management	MGT 7533	3
4.	Business Mathematics & Statistics	MGT 7534	3
5.	Business Communication	MGT 7535	3

Semester-II

1.	Managerial Accounting	COMM 7507	3
2.	Business Research	MGT 7536	3
3.	Production & Operations Management	MGT 7537	3
4.	Consumer Behavior	MGT 7538	3
5.	Project Management	MGT 7539	3

Semester-III

Sr. #	Course Title	Course Code	Credit Hours
1.	International Business & Finance	MGT 7540	3
2.	Financial Management	MGT 7542	3
3.	Organization Behaviour	MGT 7560	3
4.	Human Resource Management	MGT 7561	3
5.	Managerial Economics	MGT 7562	3

Semester-IV

1.	Business Policy & Strategy	MGT 7541	3
2.	Elective – I		3
3.	Elective – II		3
4.	Elective – III		3
5.	Elective – IV		3

OR

1.	Business Policy & Strategy	MGT 7541	3
2.	Elective – I		3
3.	Elective – II		3
4.	Research Project	MGT 8505	6

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

List of Elective Courses:

Sr. #	Course Title	Course Code	Credit Hours
1.	Corporate Finance	MGT 7563	3
2.	Organizational Theory and Design	MGT 7564	3
2.	Investment and Securities Management	MGT 7565	3
3.	Strategic Marketing	MGT 7566	3
4.	Financial Markets & Institutions	MGT 7567	3
5.	Analysis of Financial Statements	8551	3
4.	Behavioral Finance	5595	3
5.	Strategic Human Resource Development	8539	3
6.	Human Resource Change Management	8542	3
7.	Industrial & Organizational Psychology	8596	3
8.	International Marketing	8527	3
9.	E-Marketing	8529	3
10.	Strategic Brand Management	8548	3
11.	Marketing of Services	8528	3
12.	Distribution Channels	8530	3
13.	International Human Resource Management	8541	3
14.	Risk Management & Insurance	8546	3
15.	Retail Management	8549	3
16.	Islamic Banking	8552	3
17.	International Financial Management	8543	3
18.	Leadership in Organizations	5597	3

For Business Graduates (1.5 Years):

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

Semester-I

Sr. #	Course Title	Course Code	Credit Hours
1.	Managerial Accounting	COMM 7507	3
2.	Production & Operations Management	MGT 7537	3
3.	International Business and Finance	MGT 7540	3
4.	Consumer Behavior	MGT 7578	3

Semester-II

1.	Business Policy & Strategy	MGT 7541	3
2.	Financial Management	MGT 7542	3
3.	Advanced Research Methods	MGT 7543	3
4.	Corporate Governance	MGT 7544	3

Semester-III

1.	Elective – I		3
2.	Elective – II		3
OR			
3.	Research Project	MGT 8505	6

List of Elective Courses

Sr. #	Course Title	Course Code	Credit Hours
1.	Corporate Finance	MGT 7563	3
2.	Organizational Theory and Design	MGT 7564	3
3.	Investment & Securities Management	MGT 7565	3
4.	Strategic Marketing	MGT 7566	3
5.	Financial Markets & Institutions	MGT 7567	3
6.	Analysis of Financial Statements	8551	3
7.	Human Resource Change Management	8542	3
8.	Strategic Brand Management	8548	3
9.	International Marketing	8527	3
10.	Marketing Services	8528	3
11.	E-Marketing	8529	3
12.	Distribution Channels	8530	3
13.	Strategic Human Resource Development	8539	3
14.	International Human Resource Management	8541	3
15.	Human Resource Change Management	8542	3
16.	Risk Management & Insurance	8546	3
17.	Retail Management	8549	3
18.	Islamic Banking	8552	3
19.	Industrial & Organizational Psychology	5596	3
20.	International Financial Management	8543	3
21.	Leadership in Organizations	5597	3

Assignments

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

Classes

MBA requires tutorials component (equivalent to 48 hours in each course) in this program. Attendance in classes is compulsory in this program. No relaxation on any ground will be provided to the students in this regard. However, depending on the situation, the Department of Business Administration reserves the right to offer these classes online. The classes will be organized to provide the students with proper guidance in course contents through intensive lectures, group discussions, etc. The schedule of classes will be chalked out by the Department and intimated to students well in time.

8. Evaluation Scheme

Component Assessment	Marks	Weightage 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 for each component.

To take the final examination, the student has to pass 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.

A minimum marks 50% in the mid-term Examination.

Viva Voce

Non Credit viva voce will have to be passed by every student after the completion of the course work.

Fee Structure for MBA Programs

Item	Fee
Registration Fee: (At the time of first admission)	Rs.1400/-
Admission Fee: (At the time of first admission)	Rs.2150/-
Per Credit Hours Fee	Rs.3500/-
Course Fee :(per course)	Rs.10500/-
Project Fee: (6 credit hours)	Rs.21,000/-
Project Evaluation Fee: (Once at the time of submission of Project)	Rs.21,000/-
Technology Fee (per semester)	Rs.850/-

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FACULTY OF SCIENCES



Prof. Dr. Sher Muhammad
Dean



The **Faculty of Sciences (FoS)** is a core academic unit of **Allama Iqbal Open University (AIOU)**. Established in **1982** with five teaching departments, the FoS has progressively expanded in scope and capacity. At present, it comprises **ten teaching and research departments**, offering a wide range of undergraduate and postgraduate programs to **more than 10,000 enrolled students**.

The FoS functions in compliance with the provisions of the **AIOU Act** and follows the University's guiding philosophy of **"Education for All as Convenient."** With this mandate, each department of FoS is committed to achieve the set goals and mission through national and international collaboration, hosting projects, providing conducive environment to both faculty and students, enabling student access to well-equipped research laboratories. In addition to these, the FoS has adopted innovative academic and administrative mechanisms within the **non-formal education system**, particularly at the postgraduate level. These include flexible delivery of theoretical coursework and restructured arrangements for

practical and laboratory-based training. Such adaptations have significantly enhanced access for **in-service professionals** and other learners who are unable to pursue education through conventional on-campus modes.

The FoS is committed to extend quality higher education to marginalized and underserved societies through inclusive, flexible, and innovative educational practices. Furthermore, the FoS has designed its academic programs to accommodate learners facing logistical constraints—such as employment responsibilities and family commitments—as well as those encountering academic challenges due to limited prior educational opportunities.

**Fee Tariff for
MSc Hons/MS/MPhil Programs Faculty of
Sciences**

Item	Rates
Admission Fee (at the time 1 st semester)	Rs.2150/-
Registration Fee	Rs.1400/-
Technology Fee per semester	Rs.850/-
Course Fee (3 credit hours)	Rs.10050/-
Fee for 12 credit hours' theory work (10050 x 4= 40200)	Rs.40200/-
Total Fee (First Semester)	Rs.44,600/-
Research Thesis fee in 3 rd Semester Lab Charges*	Rs.22300/- Rs.69950/-
Research Thesis fee in the 4 th Semester	Rs.22300/-
Thesis Evaluation Fee (at the time of submission of thesis)	Rs.40,200/-

***Note: Lab Charges Fee for the following programs only:**

1. Chemistry,
2. Microbiology and Molecular Genetics
3. Environmental Sciences
4. Agricultural Technology

**Fee Tariff for
Ph.D. Programs Faculty of Sciences**

Item	Rates
Admission Fee (at the time 1 st semester))	Rs.3600/-
Registration Fee	Rs.3600/-
Technology Fee per semester	Rs.850/-
Course Fee (per credit hours)	Rs.4190/-
Tuition Fee 3 credit hours Rs.12570 (12570 x 3 courses) = 37,710	Rs.37710/-
Total Fee (First Semester)	Rs. 45,760/-
Thesis Fee (in 3 rd , 4 th , 5 th , 6 th Semester)	Rs.37710/- Per semester
Thesis Evaluation Fee (at the time of submission of thesis)	Rs.150,840/-

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.

DEPARTMENT OF AGRICULTURAL SCIENCES



Prof. Dr. Sher Muhammad
Chairman



The Department of Agricultural Sciences (DAS) was established in 1975. Previously, the DAS was focusing on strengthening the ag. sector and rural communities through teaching & bridging social gaps. Now DAS is trying to transform conventional agriculture to more resilient and sustainable farming in the country. To achieve the set goals, DAS has already functioned with full capacity in providing bioproducts (biofertilizers & biopesticides), advisory services to grow vegetables and crops with resource efficient means and shifted core degree courses from ODL mode to F2F mode.

State of the art labs equipped with the latest tools have been established in order to promote cutting edge technologies among farming communities after successful evaluation & verification. The DAS aims to impart skills and build capacity in agri. graduate to explore opportunities in private public entrepreneurship. The DAS has redefined its mission & vision in changing world scenarios. State of the art knowledge and trained manpower are the dire need of the hour to bring resilience in food systems & feed the population with safe and quality foods.

Programs:

The DAS offers the following program/courses at different levels.

Program at Postgraduate Level

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

Besides Postgraduate programs the Department also offers Higher Secondary School Certificate (HSSC), Secondary School Certificate (SSC) and STEP courses.

1. PhD Agricultural Extension (9401)

a) Introduction

Education is a continuous life long process. It is the most effective tool of creating a high productive manpower. Agricultural Education in Pakistan needs to integrate the goals of improving human, social and ethical attributes in the students, with specific requirements to

produce graduate who can perform various tasks in the agricultural economy of the country, both in the public and private sectors.

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

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

b) Objectives:

PhD Program in Agricultural Extension is designed to:-

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

c) Admission Requirements

1. The minimum entry requirement for admission to PhD in Agricultural Extension shall be M.Sc (Hons) Agricultural Extension with first division or 3.0 CGPA. **OR**

MSc (Hons) Agriculture degree with first division or 3.0 CGPA with deficiency courses. The deficiency courses will be given by PhD admission committee to those candidates whose basic eligible degree is other than Agricultural Extension specialization from approved courses of MSc (Hons) Agricultural Extension Program.

d) Courses of PhD Agricultural Extension

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

1st Semester

Sr. No.	Course Code	Course Title	Credit Hours
1	AGSI 9519	Application of Extension Methods	3(3+0)
2	AGSI 9525	Communication Strategies in Agricultural Extension	3(3+0)
3	AGSI 9522	Agricultural Extension in Developing Countries	3(3+0)

2nd Semester

1	AGSI 9526	Diffusion of Innovation	3(3+0)
2	AGSI 9520	Community Development and Gender Issues	3(3+0)
3	AGSI 9521	Special Topics	3(3+0)

Research Work (3rd – 6th Semester of 36 Cr. Hrs.)

Semesters	Course Code	Course Title	Credit Hours
3 rd Semester	AGSI 9551	Thesis-1	9
4 th Semester	AGSI 9552	Thesis-2	9
5 th Semester	AGSI 9553	Thesis-3	9
6 th Semester	AGSI 9554	Thesis-4	9
Total Credit Hours			54

2. MPhil Agricultural Technology (7025)

The main purpose of MPhil Agricultural Technology degree is to explore the high level of technical innovation currently being applied to agricultural production. The major challenges to sustainable agriculture in Pakistan are unavailability of quality seed, declining soil health, fragile cropping systems, looming water crisis, environmental degradation owing to indiscriminate use of farm chemicals, post-harvest losses, minimal value addition and product differentiation, inadequate food storage and preservation, poor marketing system and low production of meat, poultry and eggs. Achieving sustainability in food production and food security continues to be a challenge in the developing world including Pakistan. Over the past two decades, global food production has increased largely because of advances in innovative agriculture technology. MPhil Agricultural Technology degree will provide students with a solid foundation in agricultural business practices, expanding their career options in agro-based industries. It can also be the first step in securing a

more advanced degree in the field of Agri-Tech. This degree will acquire popularity for two reasons. First, mass food production and mega-farming requires mastery of ever-more sophisticated scientific farm operations, postharvest techniques as well as meat, poultry, and egg production. Second, to ensure food security and minimize post-harvest losses in the country. Hence, this program will be offered to people who want to use their skills to address the problems of hunger and sustainable development in the country. In addition, sustainable agriculture (organic, ecological and environment friendly technologies) is of wide interest around the world. Global warming and related trends have led to an awareness of the need to preserve natural resources such as clean water and fertile soil around the world. This degree will give students the comprehensive technical knowledge to formulate minerals, chemical and bioproduct indigenous materials available on farm. The students will be able to select/identify material indigenously available on farms and have capacity to convert them into valuable products for enhancing crop productivity.

b) Aims:

MPhil Agricultural Technology is an entrepreneurship-based degree. It will generate highly technical manpower who will be job producers not job seekers. Each course in this program is a complete entrepreneurship. After obtaining this degree, the students will be engaged in the flower industry, seed industry, organic agriculture industry, food industry, milk meat and dairy industry.

c). Objectives:

- i. To generate, integrate, and apply knowledge to individuals pursuing a higher degree in agriculture technology.
- ii. To enable MPhil Agricultural Technology holders to work as the technical experts for progressive farmers, agro-based

industries to increase products and improve quality of production.

- iii. The degree holders will play important roles in greater efficiencies and lower prices of agricultural produce, safer growing conditions, and safer foods as well as reduced environmental and ecological impact.

d) Admission Requirements:

The candidates possessing B.Sc. (Hons.)/BS Agriculture, B.Sc. (Hons.)/BS Agriculture Biotechnology, B.Sc. (Hons.)/BS Animal Husbandry and B.Sc. (Hons.)/BS Food Technology degree with at least 2nd division or equivalent CGPA/GPA from national and international HEC recognized institutions will be eligible for admission in MPhil Agricultural Technology.

Courses of MPhil Agricultural Technology:

1st Semester

Sr. No.	Code	Title of Course	Credit Hours
1	AGSI 7501	Commercial Flower Production	3(2+1)
2	AGSI 7502	Seed Production and Technology	3(2+1)
3	AGSI 7503	Entrepreneurship in Agriculture	3(2+1)
4	AGSI 7504	Digital Agriculture	3(2+1)

2nd Semester

1	STAT 7501	Experimental Statistics	3(2+0)
2	AGSI 7505	Plant Nutrition and Bioproduct Development	3(2+1)
3	AGSI 7506	Animal Nutrition and Feed Technology	3(2+1)
4	AGSI 7507	Value Added Agriculture	3(2+1)
3rd Semester		AGSI 8501 Thesis-1	6
4th Semester		AGSI 8502 Thesis-2	6

Total 36 Credit Hours

3. MSc (Hons) Livestock Management (2701)**a) Introduction:**

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

At present, higher education in livestock is imparted by formal agricultural and veterinary universities in Pakistan, which are not catering in-service personnel. However, AIOU has its character having varieties of educational methodologies within itself. The

AIOU conducted a survey to get an idea about higher education in Livestock Management and received a positive response from candidates who could not improve their qualification from formal institutes. After which the department of Agricultural Sciences (DAS) decided to offer MSc (Hons) in Livestock Management through a distance learning system, especially for those who could not enhance their qualification through formal system.

b) Objectives:

1. To develop human resources necessary for transferring the subsistence scale of livestock farming into commercial livestock production.
2. To provide an opportunity for continued professional development for the scientists in the area of marketing.
3. To provide information on the concepts of livestock development, public health, and their integration in livestock production practices.
4. To create awareness about livestock farming production, practices which will in turn promote community-based livestock development.
- 5.

c) Eligibility:

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

d) Scheme of Studies**1st Semester**

Sr. No.	Code	Title of Course	Credit Hours
1.	STAT 7502	Statistics	3(3+0)
2.	AGSI 7509	Meat Production	3(2+1)
3.	AGSI 7512	Biochemistry	3(2+1)
4.	AGSI 7529	Rangeland Management in Pakistan	3(3+0)

2nd Semester

Sr. No.	Code	Title of Course	Credit Hours
1.	AGSI 7508	Small Ruminant Production	3(2+1)
2.	AGSI 7510	Livestock Management Practices	3(2+1)
3.	AGSI 7511	Dairy Production	3(2+1)
4.	AGSI 7513	Livestock Industry	3(3+0)

Research Work (3rd and 4th Semester of 12 Cr Hrs.)

AGSI 8505	Thesis-1	6
AGSI 8506	Thesis-2	6

Total 36 Credit Hours**4. MSc (Hons) Agricultural Extension (3501)****a) Introduction**

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

Allama Iqbal Open University being concerned with the educational part of the Agricultural Extension system has initiated master level courses in agricultural extension for enhancing the knowledge and skill of the Agricultural Scientist.

The program is design to produce graduates capable of planning and managing agricultural project and extension services.

b) Objectives

Main objectives of the program are:

1. To improve the level of knowledge and skills of the prospective students.

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

c) Eligibility

Candidates possessing BSc (Hons) Agricultural Extension degree with 2nd division.

OR

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

Scheme of Studies: Agricultural Extension Courses

1st Semester

Sr. No.	Code	Title of Course	Credit Hours
1	AGSI 7514	Agriculture Extension Education	3(3+0)
2	AGSI 7515	Extension Program Development	3(3+0)
3	AGSI 7526	Evaluation Research	3(3+0)
4	AGSI 7527	Agricultural Extension Systems	3(3+0)

2nd Semester

Sr. No.	Code	Title of Course	Credit Hours
1	AGSI 7516	Adult Learning & Rural Development	3(3+0)
2.	AGSI 7520	Human Resource Development	3(3+0)
3	AGSI 7525	Scientific & Technical Writing in Agriculture Extension	3(3+0)
4	AGSI 7528	The Process & Strategies of Communication in Agriculture Extension	3(3+0)

Research Work (3rd and 4th Semester of 12 Cr Hrs.)

AGSI 8507	Thesis-1	6
AGSI 8508	Thesis-2	6

Total 36 Credit Hours

5. MSc (Hons) Rural Development (3901)

(a) Introduction

Despite the existence of large urban centers, Pakistan is still predominantly a rural society with approximately 70 percent of the population living in the rural areas. Rural development implies comprehensive and sustainable development for people and places in rural areas. It depends on several interrelated components including development appropriate production technology, dissemination of modern technology to the farming community, formulation of suitable policies for growth in the farm and rural non-farm economies, conservation and sustainable use of natural resources, and provision of infrastructure and

social services. All countries in the world are subject to continual social and economic change, and the rural sectors of developing countries and countries in transition are pivotal in this process. It is recognized that in a context of increasing globalization and understanding of the underlying driving forces of this process and its consequences is critical.

Achieving rural development and responding to these global challenges will require trained professionals with a wide range of relevant expertise. These are needed to work in government agencies, non-governmental organization (NGOs) and in the private sector. Professionals are needed who can formulate appropriate policies, plans, design and implement development projects, disseminate appropriate technology and information to farmers and small-scale entrepreneurs and manage business and the efficient delivery of services in rural areas. Recognizing the growing needs and requirements for trained professionals in rural development AIOU has decided to initiate a Masters level program in Rural Development. This program provides graduates with an interdisciplinary base from which to approach the diverse issue involved in rural change. It is designed for students interested in pursuing careers that are interactive with the potential and problems associated with the rural sector. The program is multidisciplinary in its course contents, and will provide an opportunity for in depth study of the key elements of rural development and relevant professional practice.

b) Objectives

The program gives students the opportunities to develop:

1. A critical awareness of the social, economic and management issues underlying socio-economic change.
2. Conceptual and analytical skills relevant to the social and economic dimensions of agriculture and related industries.

3. A set of potential skills pertinent to working in the public private or NGO domains.
4. The ability to change with, and influence, rational debates concerning the optimal direction of rural sector change.
5. Sufficient knowledge and understanding of the major problems socio-cultural and economic conditions of rural areas in Pakistan.

c) Eligibility

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

e) Scheme of Studies

1st Semester

Sr. No.	Code	Title of Course	Credit Hours
1.	AGSI 7517	Sustainable Rural Development	3(3+0)
2.	AGSI 7518	Regenerating Agriculture	3(3+0)
3.	AGSI 7519	Rural Poverty Alleviation	3(3+0)
4.	AGSI 7520	Human Resource Development	3(3+0)

2nd Semester

Sr. No.	Code	Title of Course	Credit Hours
1.	AGSI 7521	NGO Management	3(3+0)
2.	AGSI 7522	Research for Development	3(3+0)
3.	AGSI 7523	Natural Resources Management	3(3+0)
4.	AGSI 7524	Managing Projects in Rural Development	3(3+0)

Research Work (3rd and 4th Semester of 12 Cr Hrs.)

AGSI 8503	Thesis-1	6
AGSI 8504	Thesis-2	6

Total 36 Credit Hours

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

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DEPARTMENT OF STATISTICS



Prof. Dr. Irshad Ahmed Arshad
Chairman



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 a significant impact on our lives and are a key to discoveries and innovation. Over time, with concerted efforts, the Department has grown to its full potential and is vigorously involved in participating in 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 the private sector.

The vision of the 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 the 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

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

- i. Ph.D. Statistics
- ii. MPhil Statistics
- iii. BS (4 years) Statistics
- iv. BS (4 years) Statistics
- v. BS (4 Years) Statistics (Data Sciences)
- vi. BS (4 years) Statistics (Data Analytical)
- vii. BS (2 Years) Statistics

All the courses and programs are designed to meet the challenging statistical needs of 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 the 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 the main campus only. However, in the near future, the Department also intends to offer degree programs at regional headquarters.

MPhil Statistics (7802)

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 and BS 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 2nd 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)

1st Semester

Semester	No. of Subjects	Credit Hours	Total Credit Hours
1 st	4	3	12
2 nd	4	3	12
3 rd	STAT-8501	6	6
4 th	STAT-8502	6	6

List of Courses:

Sr. No.	Course Title	Course Code	Credit Hours
1.	Probability and Stochastic Processes	STAT 7505	3(3+0)
2.	Advanced Econometrics	STAT 7510	3(3+0)
3.	Survey Sampling	STAT 7511	3(3+0)
4.	Advanced Statistical Inference	STAT 7512	3(3+0)
5.	Research Methodology	STAT 7513	3(3+0)
6.	Linear Model	STAT 7514	3(3+0)
7.	Categorical Data Analysis	STAT 7515	3(3+0)
8.	Advanced Design of Experiments		3(3+0)
9.	Statistical Pattern		3(3+0)

	Recognition		
10.	Bayesian Inferential Statistics		3(3+0)
11.	Advanced Regression Analysis		3(3+0)
12.	Regression Models for Count Data		3(3+0)
13.	Ecological Statistics		3(3+0)
14.	Financial Stochastic Models		3(3+0)
15.	Statistical Genetics		3(3+0)
16.	Generalized Linear Models		3(3+0)
17.	Meta Analysis		3(3+0)
18.	Decision Trees		3(3+0)
19.	Advanced Operations Research		3(3+0)
20.	Advanced Statistical methods in Quality Control		3(3+0)
21.	Applied Smoothing Techniques		3(3+0)
22.	Convergence in Probability		3(3+0)
23.	Structural Equation Models		3(3+0)
24.	Causal Inference		3(3+0)
25.	Applied Time Series Modeling		3(3+0)
26.	Randomized Response Techniques		3(3+0)
27.	Sampling and Sampling Distributions		3(3+0)

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

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DEPARTMENT OF COMPUTER SCIENCE



Dr. Saleem Iqbal
Chairman



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 computer and hardware labs. We practice the multi-method teaching methodology i.e. face-to-face regular classes for BS (Computer Science), MS (Computer Science) and Ph. D (Computer Science). The online methodology is practiced for PGD (Computer Science / Data 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 following areas:

- Ubiquitous Computing
- Software Defined Networks
- Image/Video Processing
- Data Analytics/Big Data
- Data Science
- Artificial Intelligence
- Information Security and E-learning

PhD Computer Science (9201)

The PhD (Computer Science) program is offered at the Department of Computer Science, Main Campus Islamabad. It comprises of 18 credit hours of course work, followed by 36 credit hours of research work (Thesis). The PhD in Computer Science program at AIOU is a rigorous and advanced academic endeavor that provides students with the opportunity to delve deeply into the multifaceted world of Computer Science. This program is designed to cultivate exceptional researchers and scholars who will contribute to the cutting-edge advancements and innovations in the field. Through comprehensive coursework, intensive research, and collaborative mentorship, students in this program acquire profound expertise and critical thinking skills, preparing them for influential roles in academia, industry, and beyond.

Program Objectives:

The objectives of the program are to:

1. Promote research excellence through original and impactful investigations in specific subfields of Computer Science.
2. Facilitate scholars with indigenous research and development projects for better training and education.

3. Encourage interdisciplinary collaboration for innovative problem-solving.

Eligibility:

A candidate is eligible to apply for admission in PHD (Computer Science) program having MS/MPhil (18 years) of education in Computer Science or in any other computing related discipline with research thesis and securing a minimum of:

- CGPA of 3.00/4.00 (Semester System) or
- First Division, 60% (Marks) Annual System

Scheme of Studies:

Semester 1

Course Title	Cr. Hours
PhD Elective- I	3 (3 + 0)
PhD Elective -II	3 (3 + 0)
PhD Elective -III	3 (3 + 0)

Semester 2

PhD Elective -IV			3 (3 + 0)
PhD Elective -V			3 (3 + 0)
PhD Elective -VI			3 (3 + 0)
3 rd Semester	Thesis-1	CS-9551	9
4 th Semester	Thesis-2	CS-9552	9
5 th Semester	Thesis-3	CS-9553	9
6 th Semester	Thesis-4	CS-9554	9

PhD Courses List (Elective):

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

Course Code	Course Titles	Credit Hours
CS-9501	Internet Systems and Application	3
CS-9502	Digital Image Processing	3
CS-9503	Topics in Machine Learning	3
CS-9504	Advanced Database System Design	3
CS-9505	Computer Vision	3
CS-9506	Data Analytics	3
7701	Software Development Tools & Processes	3
7703	Advance Data Mining	3
7704	System Simulation	3
7706	Topics in Video Computing	3
7707	Image and Video Compression	3
7709	Multimedia Systems	3
7710	Computer Animations in Education	3
7711	Philosophy of Cognition	3
7712	Educational Technology: Design & Evaluation	3
7714	Knowledge Engineering	3
7715	PhD Research Seminar I Research Paper I	NC
7716	PhD Research Seminar II Research Paper II	NC
	Advances in Next Generation Networks	3
	Computer and Cyber Security	3
	Research Trends on AI	3
	Social Media Content Analysis	3

Note:

1. PhD seminars will be delivered by students so that their program is effectively monitored. The department will monitor and make arrangements for this noncredit activity. Conference presentations will be encouraged.
2. **Conduct of Classes/Mode of Teaching:** PhD Computer science classes shall be conducted Face-to-Face mode at the Main Campus, Islamabad.

MS Computer Science (7024)

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.

Program Objectives:

The objectives of the program are to:

- 1) Facilitate students to acquire knowledge, techniques and skills necessary to become practitioners in the field of Computer Science
- 2) Guide students to acquire research skills 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 in Annual System or 2.0 CGPA (on a scale of 4.0) or equivalent CGPA in Semester System*.

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

** Conversion of Marks to CGPA will be done as per AIOU conversion formula (for those who studied in Semester system but CGPA were not applied in their university).*

Selection Criteria:

Candidate must have to qualify Test (Subject) being conducted and/or recognized by Department of Computer Science and will attain 50% marks (minimum). 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**

Course Title	Credit Hours
Core-I	3
Core-II	3
Core-III	3
Elective-I	3

Semester 2

Course Title	Credit Hours
Core-IV	3
Elective-II	3
Elective-III	3
Elective-IV	3

Subtotal: 24 Credit Hours (Course work)

3rd& 4thSemester: Research Work

Code	Title	Credit Hours
CS 8501	Thesis-1	6
CS 8502	Thesis-2	6

Total: 36 Credit Hours

MS Courses List (Core):

Code	Course Title	Credit Hours
CS 7501	Theory of Computation	3 (3 + 0)
CS 7502	Advanced Algorithm	3 (3 + 0)
CS 7503	Research Study	3 (3 + 0)
CS 7505	Theory of Programming Languages	3 (3 + 0)
CS 7511	Distributed Systems	3 (3 + 0)
CS 7516	Advanced Computer Architecture	3 (3 + 0)

MS Courses List (Elective):

The following is the list of elective courses for MS (CS):

Code	Course Titles	Credit Hours
CS 7504	Distributed Databases	3(3+0)
CS 7506	Advanced Computer Networks	3(3+0)
CS 7507	Big Data Analytics	3(3+0)
CS 7508	Tools and Techniques in Data Science	3(3+0)
CS 7509	Network Transfer Protocol	3(3+0)
CS 7510	Information System Security	3(3+0)

CS 7512	Data Warehousing & Mining	3(3+0)
CS 7513	Object-Oriented Software Engineering	3(3+0)
CS 7514	Case Tools & Applications	3(3+0)
CS 7515	Advance Topics in DBMS	3(3+0)
CS 7517	E-Commerce Applications	3(3+0)
CS 7518	Software Project Management	3(3+0)
CS 7519	Software Quality Assurance	3(3+0)
CS 7520	Deep Learning	3(3+0)
CS 7521	Data Visualization	3(3+0)
CS 7522	Natural Language Processing	3(3+0)
CS 7523	Software Engineering Laboratory	3(3+0)
CS 7524	Applied Cryptography	3(3+0)
CS 7525	Advance Topics in Software Engineering	3(3+0)
CS 7526	Integrated Services over Packet Network	3(3+0)

Conduct of Classes/Mode of Teaching:

Classes will be conducted at the main campus, Islamabad.

Assessment:**Course Work Assessment**

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

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

Note:

- The Mid-Term/Presentation/Workshop will be defined by the teacher department concerned.
- The overall pass percentage for a course shall be 65% (in aggregate); however, passing the final examination component with 65% shall be mandatory. It is nonetheless mandatory to maintain a minimum of 75% attendance to appear in the final examination.

For further information, you may contact the department by email: dcs@aiou.edu.pk or by telephone 051-9250091 or 051-9055383

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DEPARTMENT OF PHYSICS



Dr. Syed Raza Ali Raza
Chairman



Established in 1998 to address the growing demand for scientific in Pakistan, the Department of Physics at Allama Iqbal Open University (AIOU) has evolved into a premier center for theoretical and experimental research. From its inception offering HSSC courses to the launch of MSc (1999), MPhil (2011) and PhD (2015) programs, the department has consistently expanded its academic footprint. Today, it is home to a vibrant community of scholars and students, fostering an outstanding teaching and research environment dedicated to solving complex problems in energy, environment, and materials science.

The Department currently offers a comprehensive range of degree programs designed to produce highly trained human resources:

- **BS Physics** (4-Years)
- **BS Physics** (4-Years) with Data Science Minor
- **BS Physics** (2.5-Years) BSc Based
- **BS Physics** (2-Years) AD Based
- **Associate Degree** (2-Years)
- **MPhil Physics**
- **PhD Physics**

The department boasts cutting-edge laboratories that bridge the gap between theoretical concepts and practical application.

- **Advance Characterization Facilities:**

To support high-level research in material design and nanomaterial synthesis, the department is equipped with sophisticated instrumentation. Including X-ray Diffractometers (XRD), UV-visible Spectrometers, Portable XRF, FTIR Spectrometers, and FTIR Microscopes along with Thermoelectric and Electrical characterizations setups. These facilities not only serve AIOU students but also provide analytical services to external researchers and national institutes.

- **High-Performance Computing (HPC):**

Our computational research capabilities were significantly upgraded with the addition of a high-performance Server PC (4-TB RAM, 208 physical cores). Researchers have access to licensed industry-standard software-including **Wien2k**, **VASP**, and **Quantum ATK**-enabling complex Modeling & Simulation of materials at the atomic level.

- **Modern Teaching Labs:**

Our laboratories are outfitted to demonstrate core concepts across Mechanics, Optics, Electronics, Nuclear Physics, and

Solid-State Physics, allowing students to replicate Nobel Prize-winning experiments of 20th century. The department has acquired specialized equipment for Environmental Gamma Spectroscopy and Solar Radiation Monitoring.

Research Focus & Specializations

The following list consolidates the department's key areas of specializations and research:

- **Renewable Energy:**

Energy for Sustainable Development including Solar Cells, Supercapacitors, Hydrogen and Oxygen Evolution reaction Materials, Thermoelectric and Hydrogen Storage research.

- **Materials Modeling and Simulation: :**

DFT design of technological advanced from diodes, heterostructures, transistors etc. Moreover, simulation of solar cells.

- **Materials Science and Nanotechnology: :**

Nanofabrication and Synthesis of energy harvesting, environmental remediation, biomedical, magnetic materials. Optical, structural, electrical, photocatalytic studies.

- **Semiconductor Nanodevice Fabrication and Characterizations:**

Nanowires, nanosheets, metals oxide, and perovskites thin films heterojunctions-based photodetectors sensors, solar cells etc.

- **Condensed Matter Physics:**

Theoretical modeling and calculation of equilibrium and out of equilibrium transport properties of low dimensional materials.

The faculty has successfully secured research funding from national in international agencies for projects in computational material design and renewable energy. The department is a hub for academic exchange, having organized over 100 international and national conferences, workshops, and seminars.

The department strong linkage to organizations like NCP, NILOP, and PAEC, NESCOM ensure that our graduates are well-prepared to serve in prestigious national and international organizations.

PhD Physics Program (8901)

1. Duration of the Program

The minimum duration for the Ph.D. program shall be six semesters (03 years) and the maximum duration of the program shall be 10 semesters (05 years). Students will have to complete coursework in the first two semesters & then carry out research work in the last four semesters. Students have to complete 18 credit hours of coursework and 36 credit hour of research work. The minimum period for the completion of course work shall be two semesters (one year) and maximum four semesters (two years).

2. Eligibility

- i. The minimum entry requirement for admission to Ph.D. program shall be an MS/MPhil in Physics degree with CGPA of 3.0 out of 4.0 in the semester system or 1st division in the Annual system.

- ii. Test equivalent to GAT/GRE subject in the area of specialization chosen at the Ph.D. level must be cleared with a minimum of 60% marks prior to admission for the Ph.D. program as per HEC requirements.
- iii. The university committee for the test at par with GRE (subject) consists of at least 3 Ph.D. Faculty members in the subject area who will conduct the test with intimation to QA Division HEC within one month of its constitution and the qualifying score for this will be 60%.
- iv. The criteria for admission and weightage of its components e.g., academic qualifications, research professional experience, publications and interview shall be as follows:

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

3. Components of Course Instructions

1. The number of compulsory face-to-face teaching hours shall be 45 for each course (3 credit hours).
2. The duration of the synopsis orientation workshop shall be two weeks.

4. Scheme of Studies

Three compulsory courses (each of 3 credit hours) will be offered in the 1st semester and the remaining 3 optional courses will be opted for by the students in the 2nd semester from the list given below. Each course is for 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 the first year or 1 st & 2 nd Semester	18 Cr. Hrs.
Thesis/ Dissertation during the second year or 3 rd 4 th 5 th & 6 th semester	36 Cr. Hrs.
Total credit hours for completion	54Cr. Hrs.

Semester 1 (Compulsory)

S.#	Course Title	Code	Cr. Hrs.
1	Advanced Mathematical Physics	PHY 9501	3(3+0)
2	Experimental Techniques in Physics	PHY 9502	3(3+0)
3	Statistical Physics	PHY 9504	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 for only three)

Sr. #	Course Title	Course Code	Credit Hours
1.	Environmental Physics	9705	3(3+0)
2.	Hydrogen Energy Technology	9707	3(3+0)
3.	Advanced Semiconductor Physics	PHY 9508	3(3+0)
4.	Energy Audit and Thermal Energy Conservation	9708	3(3+0)

5.	Energy Resources & Technologies	9709	3(3+0)
6.	Research Methods & Techniques	9710	3(3+0)
7.	Magnetism & Magnetic	9711	3(3+0)
8.	Particle Physics	9712	3(3+0)
9.	Medical Physics	9713	3(3+0)
10.	Material Science	9714	3(3+0)
11.	Nano Science & Nanotechnology	9715	3(3+0)
12.	Climatology and Astronomy	9716	3(3+0)
13.	Environmental Degradation and Sustainability	9717	3(3+0)
14.	Optical Properties of Solids	PHY 9505	3(3+0)
15.	Electronic Structure Calculations	PHY 9506	3(3+0)
16.	Physics of Thin Films	PHY 9507	3(3+0)
17.	Physics of Surfaces and Interfaces	9721	3(3+0)
18.	Spintronics, Applications & Devices	9722	3(3+0)
19.	Advanced Condensed Matter Physics	9723	3(3+0)

Research Work for Ph.D. (3rd – 6th Semester)

Semester	Course Title	Code	Cr. Hrs.
3 rd Semester	Thesis-1	PHY 9551	9
4 th Semester	Thesis-2	PHY 9552	9
5 th Semester	Thesis-3	PHY 9553	9
5 th Semester	Thesis-4	PHY 9554	9
Total Credit Hours of Thesis:			36

MPhil Physics Program (6501)

1. Eligibility

- The minimum entry requirements for admission to **MS/MPhil** program shall be BS/MSc in Physics minimum of 16 years 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.
- Passed a test equivalent to GRE/GAT general conducted by the department concerned with minimum of 50% cumulative marks or as further advised by HEC from time to time.
- The criteria for admission in MPhil program is based on following components:

Component	Weightage
Academic Qualification + Research + Experience	30+5+5=40
Written Test (at per HEC/AIOU Policy)	40
Interview	20
Total	100

2. Scheme of Studies

Semester-wise Course Offering

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

Semester 1 (Core Courses)

S.#	Course Title	Course Code	Credit Hours
1	Mathematical Physics	PHY 7501	3+0
2	Electrodynamics	PHY 7502	3+0
3	Solid State Physics	PHY 7503	3+0
4	Experimental Techniques	PHY 7505	3+0

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

Semester 2 (Optional Courses)

S.#	Course Title	Code	Cr. Hrs
1.	Physics of Solar Cells	PHY 7506	3(3+0)
2.	Condensed Matter Physics	PHY 7507	3(3+0)
3.	Semiconductor Physics	PHY 7508	3(3+0)
4.	Theory and Practice of DFT Calculations	PHY 7509	3(3+0)
5.	Introduction to Nanoscience and Nanotechnology	PHY 7510	3(3+0)
6.	Advanced Quantum Mechanics	1702	3(3+0)
7.	Computational Physics	1704	3(3+0)
8.	Atomic & Molecular Physics	1705	3(3+0)
9.	Laser Physics	1710	3(3+0)
10.	Quantum Optics	1711	3(3+0)
11.	Plasma Physics	1712	3(3+0)
12.	Nuclear Physics	1716	3(3+0)
13.	Quantum Field Theory	1721	3(3+0)
14.	Crystallography	1724	3(3+0)
15.	Physics of Glasses	1726	3(3+0)
16.	Physics of Metals & Alloy	1728	3(3+0)
17.	Non-Crystalline Materials	1729	3(3+0)
18.	Renewable Energy Resources	1730	3(3+0)

19.	Environmental Physics	7792	3(3+0)
20.	Antenna Theory	7793	3(3+0)
21.	E.M. Field Analysis	7794	3(3+0)
22.	Microelectronics	7795	3(3+0)
23.	High Frequency Electrodynamics	7796	3(3+0)
24.	Quantum Information Theory	7797	3(3+0)
25.	Electron Microscopy	7798	3(3+0)
26.	Climatology	8771	3(3+0)
27.	First-Principles Computation	8772	3(3+0)
28.	Statistical Mechanics	8776	3(3+0)
29.	Physics of Semiconductor Devices	8777	3(3+0)
30.	Magnetism in Condensed Matter	8778	3(3+0)
31.	Quantum Theory-I	8779	3(3+0)
32.	Quantum Theory-II	8780	3(3+0)

3rd Semester & 4th Semester (Research)

1.	Thesis-1	PHY 8501	06
2.	Thesis-2	PHY 8501	06
Total Credit Hours of Thesis			12

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DEPARTMENT OF CHEMISTRY



Dr. Muhammad Sher
Chairman



The Department of Chemistry was established in March 1998. Its faculty consists of one Professor, two Associate professors, four Assistant Professor, three Lecturers and two Research Associates. The department has the most modern equipment/ instrumentation in its teaching and research labs in the Science Block at AIU's main campus. These equipment/ instrumentations include CHNS Analyzer, Thermal Analyzer, UV-Visible, Fluorescence and FTIR Spectrophotometers, GC-MS, HPLC, Atomic Absorption spectrometer, ICP-OES and Electrochemical System etc.

The department has developed all the courses for undergraduate, graduate, postgraduate and PhD levels following the guidelines provided by the Higher Education Commission (HEC). These courses are reviewed from time to time through the 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. The Department has also signed MOU with the university of Rostock, Germany. By this MOU, our Ph.D. 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 Ph.D. students.

At present, the Department of Chemistry is offering the following programs:

1. BS Chemistry (FSc based, ADS based and BSc based) Organic, Inorganic/Analytical and Physical Chemistry Specialization.
2. MPhil Chemistry
3. PhD Chemistry

MPhil (7001) and PhD Chemistry (8501)

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

1. Objectives

MPhil and PhD Chemistry programs are research-based degrees. The main objective of these programs is to inculcate a culture of

research and innovation through high-quality work. The capacity to devise, design and conduct research that has real academic weight.

2. Eligibility

(a) MPhil Chemistry

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

(b) PhD Chemistry

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

3. Scheme of Studies for MPhil Chemistry

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

List of MPhil Chemistry Theory Courses
Semesters: I & II

Course Code	Course Title	Credit Hours
CHEM 7501	Advanced Heterocyclic Chemistry	3
CHEM 7502	Advanced Organic Synthesis	3
CHEM 7503	Advanced Stereochemistry	3
CHEM 7504	Organometallic Chemistry	3
CHEM 7505	Structure Elucidation of Organic Compounds by Spectroscopy	3
CHEM 7506	Plastic Materials	3
CHEM 7507	Theoretical background of Organic Lab. Techniques	3
CHEM 7508	Scientific Writing & Research Methods	3
CHEM 7509	Advanced Techniques in Chemistry	3
CHEM 7510	Computational Chemistry	3
1700	Medicinal Chemistry	3
1745	NMR Spectroscopy	3
1753	Natural Products	3
1754	Reactive Intermediates in Organic Chemistry	3
1761	Organic Polymer Chemistry	3
1763	Chemistry of Primary Metabolites	3

1773	Organic Spectroscopy	3
1774	Homogenous Catalysis	3
7119	Advanced Photo Chemistry	3
Research Work (3rd & 4th Semester)		
CHEM 8501	Thesis-1	6
CHEM 8502	Thesis-2	6

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

(b) Scheme of Studies for Ph.D. Chemistry

- Initially, the student is required to complete 18 credit hours of Ph.D. course work. After completions of course work, he/she has to pass comprehensive Examination.
- Besides the completion of Ph.D. coursework and other requirements, a candidate has to complete research work and thesis as per AIOU rules.
- For a 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
CHEM 9501	Reaction Mechanism	3 (3+0)
CHEM 9502	Special Topics in Chemistry	3 (3+0)
CHEM 9503	Instrumental Methods of Analysis	3 (3+0)
CHEM 9504	Advanced Nuclear Magnetic Resonance (NMR) Spectroscopy	3 (3+0)
CHEM 9505	Mass Spectrometry	3 (3+0)
CHEM 9506	Theoretical Aspects of Spectroscopy	3 (3+0)
1756	Organic Photochemistry	3 (3+0)
1757	Pericyclic Chemistry	3 (3+0)
1762	Quantum Organic Chemistry	3 (3+0)
1768	Special Techniques in Organic Synthesis	3 (3+0)
1789	Literature Review and Seminar	3 (3+0)

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

Ph.D. Chemistry Research Work & Thesis (Semester III – VI)

Semester	Course Code	Course Title	Credit Hours
3 rd Semester	CHEM 9551	Thesis-1	9
4 th Semester	CHEM 9552	Thesis-2	9
5 th Semester	CHEM 9553	Thesis-3	9
6 th Semester	CHEM 9554	Thesis-4	9

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DEPARTMENT OF NUTRITIONAL SCIENCES AND ENVIRONMENTAL DESIGN



Dr. Zaheer Ahmed
Chairman



Pakistan is a developing country, and it is the need of the hour to improve the standard of education in all disciplines especially in science and technology to better cope with the challenges of the 21st century. The Department was first established in 1981. During the 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 have been set up 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 gradation of a 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 Ph.D. level programs. Many of these courses are supported by audio-visual programs.

Currently the Department is offering the following programs:

1. Ph.D. Food and Nutrition
2. MS Community Health & Nutrition
3. MS Environmental Design
4. Postgraduate Diploma in Environmental Health & Safety
5. Postgraduate Diploma in Public Health & Nutrition
6. Postgraduate Diploma in Sustainable Environment Design
7. BS Human Nutrition and Dietetics
8. A range of courses at SSC and HSSC level

A. PHD FOOD AND NUTRITION (9101)

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 have 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 need based research program that focuses on the research based prevention strategies of a 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 for 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 have 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's 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.** The following degree holders are eligible for admission in this program.

- MS/M. Phil Food & Nutrition (Home Economics)
- MS/M. Phil Human Nutrition
- MS/M. Phil Community Health & Nutrition (AIOU)
- MSc (Hons.) Food Technology
- MSc (Hons.) Food Safety and Quality Management

Note: The Department reserves the right to withhold admissions to 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 each week will be held at the main campus Islamabad only.

5. 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 a 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 a PhD, the student has to complete all other formalities, prescribed by the Higher Education Commission of Pakistan.

Course Code	Course Title	Credit Hours
Semester – I (12 Credit Hours)		
EDHN 9501	Nutrition Through Life Cycle	3 (2+1)
EDHN 9502	Principles of Nutritional Assessment	3 (2+1)
EDHN 9503	Food Safety and Health	3 (2+1)
Semester – II (09 Credit Hours)		
EDHN 9504	Nutrition and Dietetics for Health Care	3 (2+1)
EDHN 9505	Functional Foods (Updated/Revised)	3 (2+1)
EDHN 9506	Advances in Food and Nutrition	3 (2+1)
Semester – III & IV (36 Credit Hours)		
EDHN 9551	Thesis-1	9
EDHN 9552	Thesis-2	9
EDHN 9553	Thesis-3	9
EDHN 9554	Thesis-4	9

B. MS COMMUNITY HEALTH AND NUTRITION (7105)

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 and Health Professionals 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 for 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 the scheme of studies, course contents and write-up of the study material. It is offered as per the 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. The following degree holders are eligible for admission to 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. Scheme of Studies

MS Community Health & Nutrition Program

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. The minimum duration for submission of a thesis is two Semester (One Year).

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	EDHN 7519	Hospital Dietetics	3 (2+1)
2	EDHN 7520	An Introduction to Human Nutrition	3 (2+1)
3	EDHN 7521	Functional Foods and Nutraceuticals	3 (2+1)
4	EDHN 7522	Biostatistics for Public Health	3 (2+1)

2nd Semester

Sr. #	Course Code	Title of Course	Credit Hours
1	EDHN 7502	Research Methods	3 (2+1)
2	EDHN 7523	Applied Human Nutrition	3 (2+1)
3	EDHN 7524	Food Analysis	3 (2+1)
4	EDHN 7525	Community Nutrition	3 (2+1)

3rdSemester	Thesis-1	EDHN 8501	6
4thSemester	Thesis-2	EDHN 8502	6

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DEPARTMENT OF MATHEMATICS



Dr. Zahid Iqbal
Chairman



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 the Research Complex, Science Block to Block No.07 and started functioning over there. Presently the department is offering courses in Mathematics at Secondary School Certificate (SSC), Higher Secondary School Certificate (HSSC) and Bachelor levels. Currently the Department is offering the following programs:

- Ph.D. Mathematics
- MPhil Mathematics
- BS Mathematics

MPhil Mathematics is in the pipeline after consulting the 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 to the needs of information technology and other sciences disciplines.

MPhil Mathematics (7901)

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 expertise of distinguished mathematicians is hired to teach the students of the MPhil Mathematics Program.

1. Objectives

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

2. 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		

3. Eligibility

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

4. Scheme of Studies:

Semester-I

Sr.#	Course Title	Credit Hours
1.	Optional-I	3(3+0)
2.	Optional-II	3(3+0)
3.	Optional-III	3(3+0)
4.	Optional-IV	3(3+0)

Semester-II

1.	Optional-V	3(3+0)
2.	Optional-VI	3(3+0)
3.	Optional-VII	3(3+0)
4.	Optional-VIII	3(3+0)

List of Courses

Sr.#	Course Title	Course Code	Credit Hours
1.	Theory of Fluids	MATH 7501	3(3+0)
2.	Advanced Ring Theory	MATH 7502	3(3+0)
3.	Probability and Stochastic Processes	MATH 7503	3(3+0)
4.	Advanced Topology	MATH 7504	3(3+0)
5.	Mathematical Techniques for BVPs	MATH 7505	3(3+0)
6.	Computational Fluid Dynamics	MATH 7506	3(3+0)
7.	Discrete-Time Finance	MATH 7507	3(3+0)
8.	Numerical Solutions of PDEs	MATH 7508	3(3+0)
9.	Theory of Group Actions	MATH 7509	3(3+0)
10.	Theory of Group Graphs	MATH 7510	3(3+0)
11.	Ordered Vector Spaces	MATH 7511	3(3+0)
12.	Fixed Point Theory	MATH 7512	3(3+0)
13.	Advanced Partial Differential Equations	7748	3(3+0)

14.	Advanced Analytical Dynamics-I	7736	3(3+0)
15.	Theory of Semi Rings	7740	3(3+0)
16.	Cellular Automata and Groups	7752	3(3+0)
17.	General Relativity		3(3+0)
18.	Advanced Analysis of spectral Methods		3(3+0)
19.	Group Methods for Differential Equations		3(3+0)
20.	Representation Theory		3(3+0)
21.	Algebraic Geometry		3(3+0)
22.	Geometric group Theory		3(3+0)
23.	Theory of LA Semi groups		3(3+0)
24.	Advanced Galois Theory		3(3+0)
25.	Quandle Theory		3(3+0)

Semester-III	Thesis-1	MATH-8501	6
Semester-IV	Thesis-2	MATH-8502	6
Total Credit Hours			36

PhD Mathematics (9018)

PhD Mathematics Program provides students an opportunity to become apprentice mathematicians. Graduates of this program can pursue careers in research and development sectors of public and private institutions, the financial industry, data analytics industry and academia. The faculty at the Department works across a wide spectrum of Mathematical fields with research in Pure, as well as Applied Mathematics. Some examples of interests within Pure Mathematics are Algebraic Geometry, Algebraic Topology, Combinatorial Commutative Algebra, Functional Analysis, Fixed Point Theory, Operator Theory and Symmetries of Differential Equations, while those in Applied Mathematics include Computational Statistical Mechanics, Numerical Methods, Mathematical and Computational Biology, Stochastic Processes, Epidemiology and Cancer Kinetics.

Objectives:

- Impart in depth knowledge and application of methodology to investigate original research problems through a systematic and focused approach
- Enable students to produce publishable research for journals and conferences of international repute
- Enable students to conduct independent research

Program Outcomes

- Students will be able to exhibit specialized knowledge and ability to use appropriate research methodology in the relevant field of study
- Students will be able to conduct systematic and focused research

- Students will be able to publish research papers in journals and conferences of international repute
- Students will be able to conduct and supervise independent research and can produce knowledge

Summary of the Program:

Total Credit Hours	54 Credit Hours	Course Work	18 Credit Hours
		Research Work	36 Credit Hours
Minimum Duration	06 Semesters (03 Years)		
Areas of Specialization	Pure Mathematics Applied Mathematics		

Evaluation:

a. Course Work Evaluation

1. The evaluation of the 18 credit hours of PhD course work will be conducted by Controller of Examinations by appointing teachers (who taught the course in that particular semester) as Examiners recommended by the department concerned.
2. a) The distribution of marks of each 3 credit hours course work of PhD shall be as follows:

i) Continuous Assessment & Mid Term	50% (20+30)
ii) 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.

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

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 must be paid for attaining the hostel and this facility is subject to availability.

Mode of Teaching:

Each course will be of (3+0) credit hours. It is proposed to hold two workshops during the semester. There will be at least 45 hours face to face teaching for each course.

Places of Offering:

Main Campus AIOU, Islamabad only.

Eligibility:

Candidates having M. Phil/MS in Mathematics with minimum CGPA 3.00/4.00 from a HEC recognized university.

Admission Procedure:

- i. A candidate holding **MS/MPhil or equivalent** degree shall apply for admission through online portal (<https://aiou.edu.pk/oas-fresh-admission>).
 - Register here through your Cell No. or Email and Login
 - Fill the Admission Form completely and Submit
 - Print Fee Voucher and deposited the fee in the designated banks or through Jazz Cash, Easy Paisa and Upaisa Mobile App/USSD String *786#, Retailer Agent, Franchise and Branches of Mobilink, Telenor and Ubank.

For further information and query please visit website at: <http://support.aiou.edu.pk/> or following contact numbers 051-9572386

- ii A candidate will become student of **PhD** program upon depositing the prescribed semester based fee for the 1st 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.
- iii 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.

Duration/Credit Hours and Medium of Instructions for PhD programs:

1. The minimum duration of a PhD program shall be six semesters (three years) and maximum duration shall be ten semesters (five-years) and can be extended upto eight years if allowed by competent authority i.e. (Executive Council) on the recommendations of concerned Dean and supervisor.
 - a) The PhD program will be of an 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

Scheme of Studies: (Any six courses will be offered)

Semester-I&II

Sr. No.	Course Code	Course Title	Credit Hours
1.	MATH 9509	Numerical Analysis of Spectral Methods	3(3+0)
2.	MATH 9507	Variational Inequalities and Applications	3(3+0)
3.	MATH 9508	Continuous-Time Finance	3(3+0)
4.	MATH 9502	Non-Newtonian Fluids	3(3+0)
5.	MATH 9511	Stochastic Differential Equations	3(3+0)
6.	MATH 9501	Numerical Methods for variational Inequalities	3(3+0)
7.	MATH 9506	Momentum and Thermal Boundary Layer Theory	3(3+0)
8.	MATH 9514	Knot Theory	3(3+0)
9.	MATH 9517	Theory of Semiring- II	3(3+0)
10.	MATH 9504	Theory of Semirings-I	3(3+0)

11.	MATH 9512	Algebraic Lie Theory	3(3+0)
12.	MATH 9513	Advanced Group Actions	3(3+0)
13.	MATH 9516	C* Algebra	3(3+0)
14.	MATH 9510	Banach Algebra	3(3+0)
15.	MATH 9503	Advanced Convex Analysis	3(3+0)
16.	MATH 9515	Mathematical Programming	3(3+0)
17.		Advance in Fixed Print Theory	3(3+0)

Semester III-VI

Comprehensive Examination + Proposal Submission + Research Work and Thesis Writing.

Synopsis/Research Work:

On the completion of 18 credit hours of course work, the successful students will appear in comprehensive and viva voce examinations. The students who scored 70 % in the comprehensive and viva voce examinations will embark upon research of 36 credit hours for four semesters. The department will hold two-weeks Synopsis Orientation Workshop (SOW) The purpose of the SOW is to guide the PhD 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 PhD rules and regulations

of the university.

How to Apply?

Please apply online by visiting university website (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.

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DEPARTMENT OF ENVIRONMENTAL SCIENCES



Dr. Sofia Khalid
Chairperson



The approval for the establishment of the Department of Environmental Sciences was granted by the Executive Council in February 1998. The department was initiated to create awareness and understanding of the knowledge and skills required for sustainable environmental management. The purpose of its establishment is to educate future generations and improvement of quality of life and welfare of human beings through research for the environmentally sustainable and socially equitable use of natural resources. The department is determined to provide quality education to its wards through scientific and project-based learning curricula.

The Department of Environmental Sciences is committed to educating its students for the sustainable development of society, ensuring economic stability with an eco-centric approach to development. Students from different fields can opt for environmental sciences not only as a degree of substantial market values but also for their personal development on important moral values of environmental stewardship, so they can contribute significantly to the achievement of a better and sustainable society.

The Department is continuously growing and flourishing both on quality teaching and research facilities to facilitate its students in better learning. Undoubtedly the current era is a modern new world of environmental challenges that questions the safety and stability of life on Earth. Through its developing labs and faculty, the Department of Environmental Sciences aims a holistic educational approach for the students to deal with the challenges of the modern era.

The Department is offering undergraduate and MPhil programs:

- i. BS Environmental Science 4- Years
- ii. BS Environmental Science (2.5 Years)
- iii. BS Environmental Science AD based (2 Years)
- iv. MPhil Environmental Science (2 Years)
- v. PhD Environmental Science (3 Years)

The Department has well -established lab facilities to foster the developing research ideas of the enrolled students, with competent faculty to guide them.

MPhil Environmental Sciences (7031)

1. Introduction

The Department of Environmental Science offers M. Phil Environmental Sciences (2 years) degree for graduates from versatile relevant fields.

2. Objectives

MPhil Environmental Sciences is research-based degree program that intends to:

- a. Foster novel ideas to achieve environmental sustainability.
- b. Capacity building of the students to address environmental challenges with scientific knowledge and technological advancements.

3. Eligibility

The minimum admission requirement for to MPhil will be the completion of Sixteen Years of Education in any of the given subjects, that is Environmental Science, Chemistry, Botany, Zoology, Geography, Geology (Earth Science), Biochemistry, Microbiology, Agriculture, Forestry, Horticulture, Entomology, Range Management, Public Health. Civil or Environmental Engineering Epidemiology, Climate Change, Climatology, GIS&RS, Solid Waste Management, Ecologies Wild Life Management, Material Science, Geophysics, Nanotechnology, Energy Systems, Renewable Energy, Environmental Conservation.

Any student seeking admission should have at least 50% marks in the previous degree program.

4. Scheme of Studies

- i. A student will have to complete a total of 24 CH of course work in the first and second semesters.
- ii. In the third & fourth semesters, students will conduct research and thesis (12 CH) on approved topics as per AIOU rules.
- iii. The minimum period to complete a research thesis shall be two semesters.
- iv. The maximum period for the completion of the MPhil Degree program is four years (8 semesters) only.

Semester-wise lay-out of courses

Semester I		
Course Code	Course Title	Credit Hours
ENVS 7501	Strategic Environmental Assessment and Management	3 (3+0)
ENVS 7502	Advances in Ecology	3 (3+0)
ENVS 7519	Environmental Analytical Techniques	3 (3+0)
ENVS 7520	Climate Change Studies	3 (3+0)

Semester II

	Course Title	Credit Hours
	Elective – I	3 (3+0)
	Elective – II	3 (3+0)
	Elective – III	3 (3+0)
	Elective – IV	3 (3+0)
Total Credit Hours for Course Work		24

Note: Any four courses will be offered in the 2nd semester, from the list of approved elective courses.

Research Work

Semester	Course Title	Course Code	Credit Hours
3 rd Semester	Thesis 1	ENVS 8501	6
4 th Semester	Thesis 2	ENVS 8502	6

List of Elective Courses

Course Code	Course Title	Credit Hours
ENVS 7503	Principles and Applications of	3 (3+0)

	Bioremediation	
ENVS 7504	Wildlife and Forest Conservation	3 (3+0)
ENVS 7505	Climatology	3 (3+0)
ENVS 7505	Waste Management	3 (3+0)
ENVS 7506	Air Pollution and its Control	3 (3+0)
ENVS 7507	Environmental Microbiology and Public Health	3 (3+0)
ENVS 7508	Cell and Tissue Culture Technology	3 (3+0)
ENVS 7509	Edaphology	3 (3+0)
ENVS 7510	Limnology	3 (3+0)
ENVS 7511	Allelopathy	3 (3+0)
ENVS 7512	Plant Stress Physiology	3 (3+0)
ENVS 7513	Cleaner Production Technologies	3 (3+0)
ENVS	Applications of Remote sensing (RS) and Geographical Information System (GIS)	3 (3+0)
ENVS	Green Economy	3 (3+0)
ENVS	Global Environmental Challenges	3 (3+0)
ENVS	Global Environmental Politics	3 (3+0)
ENVS	Environmental Auditing	3 (3+0)

PhD Environmental Sciences (9028)

1. Introduction

Environmental Sciences is a decision support sciences, which has emerged as a result of convergence of a wide range of disciplines, therefore, its scope is wide as inter and multi-disciplinary field of knowledge. Its ambit is as wide as environment itself. The PhD Environmental Sciences program is offered at Department of Environmental Sciences with the minimum duration for the Phd program shall be six semester (03 years) and the maximum duration of program shall be 10 semesters (05 years)/ as per AIOU policy. Students will have to complete coursework in the first two semesters & then carry out research work in the last four semesters. Students have to complete 18 credit hours of coursework and 36 credit hours of research work. The minimum period for the completion of course work shall be two semesters (one year) and maximum four semesters (two years). A student can only start the research work after successful completion of 18 CH course work and as per AIOU policy and approval of research titles and supervisory committee.

2. Objectives

The PhD degree program in Environmental Sciences is proposed with the following objectives:

- a. To developing human resources equipped with skills needed to mitigate impacts of climate change and adapt necessary measures or attitude to contribute to development of sustainable life style in the society.
- b. To promote research that can open new opportunities for understanding and mitigating environmental problems of national and international concern, which is needed to take environmentally sound decisions on different projects, policies, or plans.

3. Eligibility

The PhD program shall be announced by the Director DASR as per admission calendar of AIOU.

The minimum admission requirement for PhD Environmental Sciences shall be completion of eighteen years of education in Environmental Sciences, Environmental Studies, Chemistry, Botany, Zoology, Geography, Geology (Earth Sciences), Material Science, Sustainable Environmental Design, Environmental Design, Biochemistry, Microbiology, Agriculture, Forestry, Horticulture, Entomology, Range management, Veterinary Medicine, Medical Lab Technology, Public Health, Environmental Engineering, Epidemiology, Climate Change, Climatology, GIS and Remote Sensing, Solid Waste Management, Ecology, Wild Life Management, Nanotechnology, Energy Systems, Renewable Energy, Environmental Conservation, Geophysics. At least 60% marks in the previous degree program / as per HEC/AIOU policy. Candidates must have cleared HEC testing requirements for PhD i.e. either GRE, GAT/HAT or equivalent test by the university as per HEC policy. The criteria for admission and weightage of its component for PhD Environmental Sciences, academic qualifications research professionals written subject test and interview shall be as follows:

Academic Qualifications + Research + Experiences	50 (40+5+5)
Written Test	30
Interview	20

(Only those students will be called for interviews who secure more than 60% marks in the university written entry test.

4. Scheme of Studies

Semester I		
Course Code	Course Title	Credit Hours
	Elective – I	3 (3+0)
	Elective – II	3 (3+0)
	Elective – III	3 (3+0)
Semester II		
	Elective – IV	3 (3+0)
	Elective – V	3 (3+0)
	Elective – VI	3 (3+0)
Total Credit Hours for Course Work		18

List of Elective Courses for PhD Environmental Sciences

Course Code	Course Title	Credit Hours
ENVS 9501	Research Planning and Report Writing	3 (3+0)
ENVS 9502	Green Economy	3 (3+0)
ENVS	Advances in Biotechnology	3 (3+0)
ENVS	Advances in Virology	3 (3+0)
ENVS 9505	Alternative Energy Resources	3 (3+0)
ENVS 9506	Climate Change Adaptation and Mitigation	3 (3+0)
ENVS	Disaster Risk Management	3 (3+0)

ENVS	Occupational Health and Safety	3 (3+0)
ENVS	Remote Sensing and GIS	3 (3+0)
ENVS	Methods in Vegetation Ecology	3 (3+0)
ENVS	Invasive Plant Species	3 (3+0)
ENVS 9512	Greenhouse Gas Inventory	3 (3+0)
ENVS 9513	Hazardous Waste Management	3 (3+0)

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 Lecturer

DEPARTMENT OF BIOLOGY



Dr. Rizwana Kausar
Assistant Professor



The approval for the establishment of the Department of Biology was granted by the Executive Council in February 1998. The objective of its establishment is to provide human resources/skilled personnel in various areas of Biology. Furthermore, the purpose is to educate future generations and improvement of quality of life and welfare of human beings through research for the environmentally sustainable and socially equitable use of natural resources. The Department is unique in imparting distance-learning and face-to-face education in Pakistan in the field of Biology. The mission of the Department of Biology is to educate students in various disciplines of Life Sciences including those who could not continue their education due to economic or job constraints.

The department is enriched with highly qualified regular faculty to fulfill teaching and research requirements. Well-equipped research and teaching labs are available in the Science Block at AIOU main campus to cater practical and research requirements. These equipment/instrumentations include Water Distillation Unit, Thermo cycler, Gel documentation system, Centrifuge, Biosafety cabinet, Autoclave, Microscopes, Spectrophotometer, SPAD, Microtome, Polyacrylamide gel electrophoresis (PAGE) apparatus, Horizontal Agarose gel electrophoresis apparatus, Ice Maker, ELISA etc.

The Department has developed all the courses for BS and M. Phil programs following the guidelines provided by the Higher Education Commission (HEC). The outlines of said courses are reviewed from time to time and are updated by incorporating recent trends in the discipline. At present, the Department is offering the following programs:

- i. BS Botany
- ii. BS Biochemistry
- iii. BS Microbiology
- iv. M. Phil Program Microbiology & Molecular Genetics

MPhil Microbiology & Molecular Genetics (9030)

1. Objectives

MPhil program is a research-based degree. The main objective of this program is to enable students to develop scientific and technical expertise to use microbial resources and human genetic information for the betterment of mankind. The students will be equipped to design, conduct and present original research.

2. Eligibility

A person who has completed minimum Sixteen Years of

Education in Biology, Microbiology, Biochemistry, Molecular Biology, Bio-Sciences, Botany (Plant Sciences), Zoology (Animal Science), Microbiology and Molecular genetics ,Genetics, Bioinformatics, Biotechnology, Medical Lab Technology (MLT),) MBBS/ BDS/ DVM, D-Pharmacy, from a recognized University is eligible to apply for MPhil “Microbiology and Molecular Genetics” program. He/she should have at least 50% marks in the last degree and no third division in relevant academic degrees/certificates. Admission will be entirely on merit and restricted to the number of seats available.

1. Scheme of Studies

- I. A student will have to complete total 24 CH of course work in the first and second semesters.
- II. In the third & fourth semesters, student will conduct research and thesis (12 CH) on approved topic as per AIOU rules
- III. In the third & fourth semesters, student will conduct research and thesis (12 CH) on approved topic as per AIOU rules.
- IV. The maximum period for the completion of M. Phil Degree program is four years (8 semesters).

Semester-wise Layout of Courses

1st Semester		
Course Code	Course Title	Credit Hours
BIO 7501	Research Techniques and Instrumentation	3 (3+0)
BIO 7502	Advanced Microbiology	3 (3+0)
BIO 7503	Biosafety and security	3 (3+0)
BIO 7504	Advanced Molecular Biology	3 (3+0)

2nd Semester

	Course Title	Credit Hours
	Elective – I	3 (3+0)
	Elective – II	3 (3+0)
	Elective – III	3 (3+0)
	Elective – IV	3 (3+0)
Total Credit Hours for Course Work		24

Note: Any four courses will be offered in the 2nd semester, from the list of approved elective courses.

Research Work

Semester	Course Title	Course Code	Credit Hours
3 rd Semester	Thesis 1	BIO 8501	6
4 th Semester	Thesis 2	BIO 8502	6

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Assistant Professor
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3. Dr. Saba Farooq

Lecturer
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4. Dr. Samar Naseer

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5. Ms. Zainab Syed

Lecturer
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6. Dr. Sadia Latif

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MANDATORY 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 appearing in test of admission, he/she should presume non-selected.
- iii. **A student already admitted to any 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.**
- iv. A course taken by any student cannot be change during the semester.
- v. **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 commence in May and November respectively. The continuing students will Enroll online on AIOU website and deposit fee within due date.**
- vi. The fee shall not be refunded once paid for admission nor will it be adjusted for any other program.
- vii. On payment of the registration fee, each student will be issued a student Id. This Id must be quoted in all the future correspondence, course(s), code numbers and semester.
- viii. Study material shall be available on the university website for study and download purposes.
- ix. 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.
- x. A student who fails in continuous assessment component, he/she is not eligible to reappear but will be allowed to re-register for the same course at its next offering semester by the university.
- xi. It is the responsibility of the student to remain in touch with the department regarding the selected program.
- xii. After completion of a program successfully, a student must 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 Matric certificate of the student shall be considered as correct name. The Examination Department shall also issue a certificate/ degree in the said name.
- xv. In the case of provision of forged documents for admission, not only the admission will be refused/ceased 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. Efforts have been made to ensure the accuracy of the information contained in the prospectus. The university would, however, not be responsible for any errors or omissions. The university reserves the right to introduce changes, without any prior notice, in the information given, including additions, withdrawal or re-structuring of courses. Admission to the university is subject to the university's registration procedure.

PROCEDURE FOR DEPOSITING FEE

1. Applicants will deposit admission processing fee (Rs.500) in designated banks or through Telcos.
2. Eligible candidates for (**Merit Based Programs**) are required to deposit admission fee in any branch of the following banks:
 - i. First Women Bank Limited (FWBL)
 - ii. Allied Bank Limited (ABL)
 - iii. Muslim Commercial Bank (MCB)
 - iv. National Bank of Pakistan (NBP)
3. 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 details, please visit the university website.

Successful candidates are supposed to deposit their fee as per the procedure laid down by the university in the intimation.

Fee can neither be refunded nor be adjusted for future admission after finalization of admission.

CANCELLATION OF ADMISSION

Admission of already admitted student or a new candidate may be cancelled in accordance with University's Rules 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) Plagiarizing
- (d) If he/she fails in fulfilling all the requirements of qualifying for the degree within the maximum time limit prescribed for the program.

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.

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