

Adjunct Faculty:

1. Dr. Tabassum Zahidi
Associate Professor
EIA Specialist /Consultant, Islamabad
2. Engr. Muhammad Abid
Flood Irrigation Expert
The World Bank, Islamabad
3. Dr. Riffat Haq (Gender & Environment), Chairperson
Department of Women Studies
AIOU Islamabad
4. Dr. Naeem Ejaz
Assistant Professor
UET, Taxila
5. Arch. Gul Najam Jamy
Technical Advisor, Safety Net Programs
Social Protection & Labour, South Asia Region
The World Bank Islamabad
6. Mr. Nasir Ali
Department of Mathematics and Statistics
Arid Agriculture University, Rawalpindi
7. Engr. Qurat-ul-Ain
Architectural Engineer
Visiting Faculty, AIOU, Islamabad
8. Ar. Omer Shujaat Bhatti
Architect
Riphah International University.

For Further Queries:

Ph: 051-9057742, 051-9057744
051-9057745, 051-9057746

email: anjums41@hotmail.com
hhsci@aiou.edu.pk

This is a value added degree for the professionals. Most of the students are professionals: Architects, Engineers (Civil, Electrical, Mechanical, Environmental, and Industrial), Town Planners, Interior Designers Home Economists (Housing & Interior Designers)

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

Departmental Faculty:

- Prof. Dr. Nomana Anjum
Chairperson
- Dr. Hajra Ahmed
Assistant Professor
- Dr. Zaheer Ahmed
Assistant Professor
- Dr. Mahpara Safdar
Assistant Professor
- Ms. Asma Arfeen
Lecturer
- Ms. Rabeea Zafar
Lecturer
- Arch. Nazia Iftikhar
Lecturer



Home & Health Sciences
Allama Iqbal Open University

MSc Sustainable Environmental Design



Allama Iqbal Open University

MSc SUSTAINABLE ENVIRONMENTAL DESIGN

INTRODUCTION

The emergence of environmental movement has brought forward the interconnection between ecological conditions and built environment. The failure of many buildings on account of performance, functionality and environmental quality has now motivated an increasing number of designers, developers and building users to pursue more environmentally sustainable design and construction strategies.

As part of wide-spread movement for the sustainable development and realization for the significant impact of building design and construction on the overall environment AIOU initiated the continuing education programme for the built environment professionals in 2003. After running this programme for last thirteen years as M.Sc. and MS, now department has planned to accommodate the wider community and broader interest in theory and research at three levels MSc., MS and PhD.

OBJECTIVES

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

1. To prepare learners for the career related disciplines considering the professional interests of individuals in the areas of Environmental Design and Sustainable Architecture.
2. To prepare individuals/professionals for the development and up-gradation of Environment.
3. To enable individuals to integrate and apply knowledge and skills of Sustainable Environmental Design in future studies.

SALIENT FEATURES:

- Recognized by HEC
- Total duration of programme will be 2 years including minor research project.
- Understand the application of ecological principles in the design of sustainable cities.
- Understand sustainable urban technologies and design strategies.
- Comprehend issues of equity and social justice as they relate to sustainable cities and regions.
- Evaluate and monitor the present state and future potential of built environments in terms of sustainability.

ELIGIBILITY:

A professional track, non-thesis degree. Designed to improve professional skills & knowledge.

1. At least sixteen years of education with at least second class in the following disciplines are eligible for admission:
 - Architecture
 - Interior Design
 - BS Home Economics
 - BS Urban Planners
 - BS Geology
 - BS/BSc Environmental Sciences
 - BS Town Planning
 - B.Tech (Hons)



2. 16 Years of schooling or 4 years of education(130) credit hours after HSSC / FA / Fsc Grade 12 or equivalent will be required for admission in the MSc Programme.
3. Professionals holding B.E. Civil, Electrical, Mechanical, Engineering, BE Chemical, Transportation, Industrial, and Environmental Engineering, B. Arch, Bachelor in Town Planning, Interior Design, MSc Home Economics (Housing, Interior Design) Bachelor of Urban Engineering, Architecture Engineering, Interior Architecture, Art & Architecture with at least 2nd class are eligible for admission to MSc in Sustainable Environmental Design.
4. B.Tech Civil, Architecture, Mechanical, Electrical (Hons.) and BS Geology, BS Environmental Engineering and BS Home Economics (Interior & Environmental Design).

Total duration for MSc Sustainable Environmental design is 2 Years. Total credit hours 60 (54 credit hours course work and 6 credit hours Research Project). Total 27 hours interactive lecture sessions for each 03-04 credit hour course.

MODE OF TEACHING:

Allama Iqbal Open University employs Distance learning/media mix or blended mode of learning as methodology of instruction. Study material in the form of practical books, notes, and study manuals is supported with non-broad-cast audio-visual programs and interactive lectures.

University provides especially written/compiled/reprinted books.

COURSE STRUCTURE:

Semester 1

| S.No | Courses | Code | Credit Hours |
|------|----------------------------------------|------|--------------|
| 1 | Environmental Planning & Practice | 3671 | 4 |
| 2 | Climate Responsive Design | 3672 | 4 |
| 3 | Ecological Building Design & Materials | 3673 | 4 |
| 4 | Environmental Aesthetics | 3674 | 4 |

Semester 2

| S.No | Courses | Code | Credit Hours |
|------|--------------------------------------------------------------|------|--------------|
| 1 | Sustainable Communities | 3675 | 4 |
| 2 | Environmental Pollution (air, water, noise, visual) | 3676 | 4 |
| 3 | Water Conservation & Management | 3677 | 4 |
| 4 | Ethics in Built Environment or Sustainable Energy Management | 3678 | 4 |

Semester 3

| S.No | Courses | Code | Credit Hours |
|------|-------------------------------------------------------------|------|--------------|
| 1 | Ecology & Ethics in Design & Architecture | 3680 | 4 |
| 2 | Environmental Control Systems (heating, cooling & lighting) | 3681 | 4 |
| 3 | Waste Management | 3682 | 4 |
| 4 | Culture & Building Design | 3683 | 4 |

Semester 4

| S.No | Courses | Code | Credit Hours |
|------|------------------|------|--------------|
| 1 | Research Methods | - | 3 |
| 2 | Basic Statistics | - | 3 |
| 3 | Project | - | 6 |

Student will conduct Research (Research Project-3686) in 4th Semester of MSc.



International & National Collaborations

Linkage is established with following institutions for the development and Implementation of Environmental design Programme at National and International level.

- All public sector universities offering Architecture and Civil Engineering programmes (NED, UET Lahore, Taxila, Jamshoro and NUST, Islamabad).
- National College of Arts Lahore.
- Dawood College of Engineering & Technology, Karachi
- Council for Works and Housing Research
- Environmental Protection Agency (EPA, CDA, LDA, RDA etc).
- Lead International, Islamabad
- Global Eco-village Network (Findhorn Foundation Scotland)
- Centre for Natural Design Research, University of Dundee UK.