

Department of Geography

Introduction

The origin of the Department of Geography can be traced back to 1931-32, when Geography was introduced as a subject. The Department was formally established in 1936. A number of eminent scholars and professors contributed to the growth of the Department. Professors of stature associated with the department over the years include Prof. Muhammad Nazir, Prof. A.N. Kapur, Prof. Aziz Ahmad Sheikh, Prof. Mian Muhammad Aslam, Prof. Aziz-Ur-Rehman, Prof. Muhammad Nawaz, Prof. Syed Muhammad Khalid, Dr. M.H. Bukhari, Muhammad Ahmad and Khadim Ali Khan. The faculty at the department is cognizant of the concerns and challenges of the globalized world. The department has recently redesigned and updated its BSc (Hons) and MS/MPhil courses to meet the market demand and to equip the young minds for advanced professional careers. BSc (Hons) and MS/MPhil programmes cover Geography, Geomatics, Spatial/Urban Planning, Landuse Planning and Management, Water Resource Management, Disaster Management, Climate Change Spatial Modelling etc.

Academic Programmes

The Department of Geography offers

- BSc (Hons)
- MS/MPhil Degree Programmes.

MS Program in Geography

MS Programme in Geography was started in the year 2012. This Programme provides postgraduate opportunities in Geography for students to enhance their education. The programme offers applied courses which fulfil the need of the market and provide an understanding of the environment in order to address problems / issues of the area.

The MS programme in Geography covers applied areas in the subject of Geography. The courses include Advanced Physical Geography, Advanced Human Geography, recent fields like Geography of Transportation, Fluvial Morphology, Disaster Risk Management, Urban and Regional Planning, Climate Change Studies Spatial Modelling etc. as well as techniques like Remote Sensing, GIS, along with their applications in different fields.

Objectives of MS Programme:

- To provide quality education in academics and research.
- To educate advance Physical Geography concepts in areas of climate studies, fluvial morphology, etc.
- To impart advanced Human Geography concepts in areas of demography, transportation, urban and regional planning, etc.
- To introduce recent techniques of Remote Sensing and GIS with their applications.
- To provide candidates the opportunity post-graduate studies in Geography to broaden their education as well as research.

The programme covers applied areas which fulfill the need of market and let the learner to understand and control environment and its related problems and issues.

In view of academic and research development, collaborations between the Department of Geography and other departments and universities were established to promote academic activities, data sharing, and to conduct workshops and seminars. The following links/ MOU are actively working with the Department of Geography:

- Department of City and Regional Planning (CRP) UET, Lahore.
- Punjab Housing and Town Planning Agency, (PHATA) Lahore.
- Pakistan Meteorological Department, Lahore.
- Flood Forecasting Division, Lahore.
- UNDP, Islamabad.

- NDMA, Islamabad.
- SUPARCO, Pakistan.
- Pakistan Red Crescent Society, Punjab, Lahore.
- Pennstate University, USA
- The Diagnostic Lab, UVAS, Lahore
- The Urban Unit, Punjab

The Department of Geography regularly conducts workshops on Digital Cartography and advanced courses in the subject (Disaster Risk Management, First Aid, Basic Life Support Systems, Medical Geography, Climate Change. etc). The workshops have been conducted in collaboration of Karachi University, UET, and Punjab Housing and Town Planning Agency, Lahore from 2008 onwards.

Facilities

The Department of Geography is located at a vantage point of the University. Resources available to staff and students within the department include:

- Map Library
- Cartographic Software
- GIS Labs for BSc (Hons), and MS/MPhil students
- Computing and Automated Cartography
- Departmental library
- Geomatics tools (Total Station, GPS, Auto level, etc)

Library

The Department has a reference Library of more than 1,200 books. New editions on GIS, Remote Sensing, Climate Change, Spatial Planning, Digital Cartography, Image Processing, Data Base Management System, Geomatics, etc are also added annually, a few research Journals (National Geographic) are also available in the Library.

Garrett Geography Society

The Garrett Geography Society provides the students and staff members a platform for regular activities related to discipline of Geography. The society also arranges Study tours, Invited Lectures, Seminars and Functions on a regular basis.

Research Groups

Following research groups are active in the Department:

- Environmental Monitoring and Management
- Urban Planning in GIS Perspective
- Traffic Management Using GIS Techniques
- Meteorology
- Disaster Risk Management

Seminars/Lectures/Workshops

The department arranges refresher courses, lectures on recent technologies, discussions, and exhibitions regularly throughout the academic year. The department also organizes workshops on medical geography, climate change, role of youth in disaster management, etc. for academics from all over the country.

1. In 2008, 2010 and 2011 the Department of Geography arranged workshops on Digital Cartography (GIS, Remote Sensing and Spatial Planning)
2. In 2011 the department of Geography arranged a National Workshop on "GIS/GPS Application in Epidemiology of Human and Animal Diseases and Biological Science Research" with the collaboration of Diagnostic Lab, UVAS Lahore and Penn-State University USA
3. In 2012 the Department of Geography arranged two days workshop on "Disaster Risk Management" with the collaboration of NDMA, PDMA Punjab, and UNDP.
4. In 2013 the Department of Geography has arranged an International workshop on "New Horizons in Geography" with the collaboration of Hamburg University, Germany.

- In 2015 workshop on "Remote Sensing" in collaboration with SUPARCO and CRP, UET, Lahore was conducted.
- in 2016 and 2017 workshops were conducted in collaboration on DRM with PRCS, Punjab.

Academic Links

- MoU has been signed between the Department of Geography GC University Lahore City and Regional Planning (CRP), University of Engineering and Technology, Lahore for Academic collaboration in 2008.
- MoU has been signed between the Department of Geography GC University, Lahore and Punjab Housing and Town Planning Agency, (PHATA), Lahore for internship, research, data sharing etc in 2010.
- MoU has been signed between the Department of Geography GC University Lahore and Pakistan Meteorology Department Lahore for internship, data sharing etc in 2011. After signing MoU with Punjab Meteorology Department (PMD), Lahore the Department of Geography has also updated its BS (Hons) program in order to equip the students with the skills required at PMD. Therefore the new combination of Geography with Mathematics and Economics has been introduced in the new academic session for job opportunities.
- In 2012 MoU was signed between the Department of Geography GC University Lahore and National Disaster Management Authority (NDMA), Islamabad for disaster risk management.
- In 2014 MoU was signed between the Department of Geography and SUPARCO, Pakistan.
- In 2015 MoU was signed between the Department of Geography and Pakistan Red Crescent Society, Punjab.
- In 2016 MoU was signed between Department of Geography and the Urban Unit, Punjab.
- Department of Geography GC University Lahore and SUPARCO and Urban Unit Punjab has signed MoU in 2014 and 2015 respectively.

Future Prospects

The BS (Hons) degree holder from this department can apply for MS in Geography and MS in GIS and Remote Sensing NUST, Islamabad. Graduates have a number of career openings in both private and public sectors and they can become experts in Physical and Human Geography, Spatial/Urban Planners, Land use surveyors using advanced technology (GPS, Total Station, and Auto-level etc), and GIS experts in the relevant fields.

BA (Hons)		
Year- I (Semester- I)		
Course Code	Course Title	Credit Hours
GEOG-1101	Introduction to Physical Geography-I	2
GEOG-1101	Introduction to Practical Geography-I P	1
Semester- II		
Course Code	Course Title	Credit Hours
GEOG-1201	Climatology	2
GEOG-1201P	Introduction to Practical Geography-II P	1
Year-2		
Semester-III		
Course Code	Course Title	Credit Hours
GEOG-2101	Man & Environment	3

Year-2		
Semester- IV		
Course Code	Course Title	Credit Hours
GEOG-2201	Introduction to Cartography and Surveying	3
GEOG-2202	Regional Study of South Asia with Special Reference to Pakistan	3

Year-3		
Semester-V		
Course Code	Course Title	Credit Hours
GEOG-3101	History and Development of Geographic Thought and Concepts	3
GEOG-3102	Remote Sensing	3
GEOG-3104	Geomatics I	3
GEOG-3104P	Geomatics I (Practical)	1
GEOG-3105	Geographical Information Systems	3
GEOG-3105P	Geographical Information Systems (Lab Work)	1
GEOG-3107	Environmental Geography	3

Semester-VI		
Course Code	Course Title	Credit Hours
GEOG-3201	Settlement Geography	3
GEOG-3202	Geomorphology	3
GEOG-3203	Digital Image Processing (DIP)	3
GEOG-3205	Spatial Analysis	3
GEOG-3205P	Spatial Analysis (Lab Work)	1
GEOG-3206	Population Geography	3

Year-4		
Semester-VII		
Course Code	Course Title	Credit Hours
GEOG-4101	Data Base Management System	3
GEOG-4101P	Data Base Management System (Practical)	1
GEOG-4102	Geomatics - II	3
GEOG-4102P	Geomatics - II (Practical)	1
GEOG-4103	Digital Cartography	3
GEOG-4104	Research Methods	3
GEOG-4299	Project / Internship	3

Semester-VIII
Students will study 14 credit hours from the following list subject to availability of the faculty

Course Code	Course Title	Credit Hours
GEOG-4201	Disaster Risk Management	3
GEOG-4202	Land Information System	3
GEOG-4203	Urban Geography	3
GEOG-4204	Water Resource Management	3
GEOG-4299	Project / Internship	3



MS Geography		
Semester- I		
Course Code	Course Title	Credit Hours
EOG-7101	Advance Physical Geography	3
GEOG-7102	Advance Human Geography	3
GEOG-7103	Techniques in Geography	3
GEOG-7104	Research Design & Methods of Data Collection	3
(Any four of the followings subject can be opted on availability of Faculty)		
Semester- II		
Course Code	Course Title	Credit Hours
GEOG-7201	Meteorology	3
GEOG-7202	Computer Cartography	3
GEOG-7203	Geography of Natural Hazards and Disasters	3
GEOG-7204	Urban and Regional Planning	3
GEOG-7205	Geography of Transportation	3
GEOG-7206	Spatial Modeling	3
GEOG-7207	Fluvial Morphology	3
GEOG-7208	Climate Change Studies	3
Semester- III & IV		
Course Code	Course Title	Credit Hours
GEOG-7499	Thesis	12

Semester- III & IV

Department of Geography
Chairperson
 Prof. Dr. Ali Iqtidar Mirza
Assistant Professor
 Syed Yasir Usman
Lecturer
 Shakeel Mahmood
 Khuram Chohan
 Zonish Javed
 Shahid Karim
Visiting / Faculty
 Muhammad Atif Butt
 Amna Afzal
 Sana Shoukat
 Robia Shaheen

