



# The Islamia University of Bahawalpur

## Tentative Course Plan DEPARTMENT OF GEOGRAPHY

Class: M. Sc Semester- 1<sup>st</sup> Spring Session: 2020-2021

Instructor	Dr. Sher Muhammad Malik	Email:shergeo2000@yahoo.com
Course Title	Geomorphology	Program Morning
Course Number	Geo 21101	Credit Hours 03

Lecture	Monday-Tuesday..... Period (8:00 to 10:00 am)
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### Course Objective:

The course investigates geomorphological phenomenon and capitalize on student's knowledge taken in Geography which tackled geomorphological process in terms of analysis descriptions and classification. The subject also devells on mechanical engraving processes because of geomorphological phenomenon in arid, dry areas in desert forms. It also examines the drainage network in river floors and coastal forms in both mild and hot weather areas. This is in addition to ice forms in cold areas karstic erosion/ weathering as a result of chemical dissolution and its variation according to climates different rocks.

### Course Outcomes:

The course highlights the significance of geomorphological study and the possibility of its contribution to the preparation of engineering projects.

### Methods of Teaching

- Assigned readings
- Group activities & Discussion
- Audiovisual aids lectures
- Web-assisted instruction
- Student-Directed Teaching

Resource Material	1.Books Prescribed: Thorn burry, W.D. Principles of Geomorphology, New York John Wiley. 2. Cotton, C.A. Geomorphology New York John Wiley 3. Holmes, A. Principal of Physical Geology, London, E.L.B.S.& Nelson.
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2.Reference Book		3.Research Papers	
I	Steers,J.A.The unstable earth, Methuen & Co.	i	Kondolf, G. Mathias; Hervé Piégay (2003). <i>Tools in fluvial geomorphology</i> . New York: Wiley.
Ii	Wool bridge S.W. & Morgan an outline of Geomorphology, London, and Longman.	ii	Allen, Philip A. (2008). "Time scales of tectonic landscapes and their sediment routing systems". <i>Geological Society</i> (London) 296: 7-28.
4.Hot Research Papers		5.Web Resources	
I	Knighton, D., 1998, Fluvial Forms & Processes, Hodder Arnold, 383 p. ISBN 0-340-66313-8.	i	www.science.smith.edu/geosciences/geomorphy.
Ii	Van Horn, F. R.2009. A recent landslide in a shale bank near Cleveland., 29: 626.	ii	www.journals.elsevier.com/geomorphology.

Office Help Hours	Monday to Friday: 08:04 pm
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Grading		Exam (Date to be announced) Mid- Exam (30%) Final Exam (50%) Sessional/Assignments (20%)		
Problem Session		2.00 to 4.00pm any day in my office		
SEQUENCE OF TOPICS TO BE COVERED				
weeks	3 Session in week	Topics (outline of main topics and sub topics)	Chapter #	Tutorial /Laboratory
Week 1		i. Development of Science of Geomorphology ii. Views of the Ancients Muslim’s contribution	Chapter.1 History & Development of geomorphology	First day starts with a Brief Introduction
Week 2		ii. Dawn of Modern Geomorphic Ideas iii. Development in Europe iv .Development in North America	Do	Recapitulation
Week 3		Geomorphic Processes.	Chapter.2 Geomorphic Processes.	Quiz
Week 4		Geological Time Scale	Chapter.3 Geological time Scale	
Week 5		i. Weathering ii. Physical iii. Chemical	Chapter.4 Geomorphic Agents	Class Test
Week 6		Mass wasting and categories	Chapter.5 Mass wasting	
Week 7		Eolian Land forms depositional and Erosional	Arid cycle.6	Recapitulation
Week 8		i. Fluvial Geomorphology ii. Fluvial cycle of Erosion	Chapter.7 Fluvial Cycle	
Week 9		Mid Term Exam		
Week 10		Soil forming processes and Soil texture ,	Chapter; 8 Soils	
Week 11		Major soil groups of the world	Do	
Week 12		Karst Topography & its development and major karst region of the world	Chapter.9 Karst Topography	Class test
Week 13		Glacial Processes	Chapter.10 Glaciation	
Week 14		Glacial landforms Erosional & Depositional	Do	
Week 15		Geomorphology of the Coast	Chapter.10 Coastal Geomorphology	
Week 16		do		
Week 17		Final Presentations	Ppt	Final ppts
		Final Term Exam		

**Student Evaluation criteria:**

Attendance	5%
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Workshop / Assignments/Case study	5%
Surprise Test/Sudden Test , Quizzes	5%
Class Participation	5%
Mid Term Paper	30%
Final Term paper	50%
<b>Total</b>	<b>100%</b>

**Student Responsibilities:**

Students must attend class. Failure to attend class may result in failure in the course. Students must also arrive on time and remain in class for the entire period. Cellular Phones and Beeper must be Turned off (Proper classroom decorum [behavior] adopts, Course outlines and calendars explain requirements and assignments, students are responsible for knowing what they say. Students are also responsible for doing all assigned work on time. Excessive absences (more than 03) will result in “F Grade”. Students may prepare Sketchbook for taking notes and for references.

**Instructor/Tutor**