



FORMAN CHRISTIAN COLLEGE
(A CHARTERED UNIVERSITY)

Course Name: Environment & Biodiversity of Pakistan

Course Code ENVR 304 Course Type (Core) Course Credits: 3

Class Timings:

Day Timings
M,W,F 12:00-12:50 PM

Class room
S425

Student Meeting Hours

Tuesday, Thursday
12:00-14:00 pm
Office S160

Instructor Name: Sumaira Akram

Designation: Lecturer (Environmental Sciences)

Instructor Contact Details

Email: sumairaakram@fccollge.edu.pk

Mobile and WhatsApp (03205500282)

Guidelines for contacting instructor: If you have any question, please send me an email. If you do not get reply from email then send me text on my number.

Course Description:

Pre-requisites if any: None

This course is intended to provide students with a comprehensive knowledge about and an appreciation of the environmental resource base of Pakistan in order to participate in an informed manner in its efficient utilization for sustainable development

Course Objectives or Student Learning Outcomes-(SLOs)

At the end of course, students will be able to:

- Describe and interpret the environmental profile of Pakistan
- Document the biodiversity of Pakistan and threats faced by all types of biodiversity
- Understand the basic principles underlying the conservation and management of wildlife
- Develop connection between sources and resources for conservation and sustainability of environment
- To provide understanding of the complexity of energy and environmental issues within a framework of sustainable development

Main Mode of Instruction:

Course material delivery: Course material will be available on [Moodle](#). All students are required to use their Moodle account to access the course. Course material includes textbook chapters, printable lecture slides, videos, reading material etc. Students have to prepare the assignments/activities as instructed and submit on Moodle within due date.

Text Books:

1. State of the Environment-Pakistan, Government of Pakistan, 2005.
2. Environmental Profile of Pakistan, 1989.

WEEKLY PLANNER

Week	Content	Assessment
1	Course Introduction: Environment and Biodiversity	
	Levels of ecological organization: Organism, Population, Community, Ecosystem, Biosphere	
2	Population dynamics: Population growth, density and distribution Demography: Human Population Dynamics	
	Factors affecting human population size: Birth rate & Death rate	
3	Population age structures (Pyramids) and population growth Economic development: Family Planning; Case studies	
	Introduction to Pakistan's Environment	
4	QUIZ-1	Quiz 1
	Demography of Pakistan: Population Dynamics and Urbanization	
	Meteorology, Health and Education of Pakistan	
5	Land and Geography of Pakistan Overview of Major Environmental Developments	
	Ecological Dimensions: Ecological zones, Major ecosystems, Topographic Zones	
6	Environmental and Economic Development Issues Agriculture, Industry, Surface and ground water resources	
7	Land Degradation in Pakistan Air Quality of Pakistan:	
	Major sources of air pollution and its impact on society	
8	Condition of air quality of major cities of Pakistan Revision and Discussion	
	Mid-Exam and ASSIGNMENT 1 DUE	Mid-Term exam
9	Sources of water pollution and its impact on biodiversity and human health	
	Condition of water quality of major cities of Pakistan	

10	Biodiversity:	
	Levels of Biodiversity: Species diversity, Genetic diversity, Ecosystem diversity	
	Biodiversity hotspots	
11	Natural & Anthropogenic causes of biodiversity loss	
	Pakistan's Biodiversity: Terrestrial and Marine	
12	QUIZ-2	Quiz 2
	Major Threats to Pakistan's Biodiversity	
13	National Conservation Strategies and Regulations	
	Ecological Restoration and Sustainable Development	
	Achieving Sustainability: Sustainable Development Paradigm and Sustainable Production and Consumption	Assignment 2
14	Energy Policy and Planning, Energy Efficiency & Conservation, Renewable Sources	
	Global Bio-geochemistry	
	Climate Change and Environmental Impacts	
15	Assignments & Presentations	
16	Revision and Discussion	
	Final exam	Final exam

Course evaluation:

Weightage and Grading:

ACTIVITY	WEIGHTING
Midterm exam	20%
Final exam	25%
Assignment 2	20%
Assignment 1	10%
Quizzes	10%
RATS	5%
Attendance	10%
Total	100%

The grading system for the course is as follows:

GRADES	QUALITY POINTS	NUMERICAL VALUE	MEANING
A	4.00	93-100%	Superior
A-	3.70	90-92%	
B+	3.30	87-89%	
B	3.00	83-86%	Good
B-	2.70	80-82%	
C+	2.30	77-79%	
C	2.00	73-76%	Satisfactory

C-	1.70	70-72%	
D+	1.30	67-69%	
D	1.00	60-66%	Passing

Mobile Phone: Use of mobile phone in the class is prohibited. Students are advised to silence their mobiles before coming to class. Failure to do so will lead to disciplinary action.

Attendance: Students must attend all class meetings to assure the best possible grades; failure to do so will drastically affect the grade. **If a student fails to attend 75% of the lectures, he/she will not be allowed to appear in the Final Examination.** Excused absence on account of family emergency and/or participation in university activities will not count towards class attendance. The weightage of the attendance will be 10% of the grade.

Exams: There will be two lecture exams during the term. Mid Term Exam will be of one-hour duration and the Final Exam will be of two-hour duration. The Mid Term Exam will include the topics covered during the first seven weeks whereas the Final exam will be mainly based on material covered after the Mid Term exam. Both exams will consist of MCQ's and OQ's.

RATS, Quizzes and Assignments: Two assignments will also be given, as well as 2 quizzes and a few (5) RATS (Rapid Assessment Tests). These RATS will be announced one lecture in advance. Failure to attempt at least three (3) RATS will result in zero (0) marks for the RATS.

Missed Exam: Students must take all the exams. If you do not appear in the exam you will be awarded zero point and your grade will be drastically affected. Make up-exam will not be given except on account of death of immediate family member.

Cheating and Plagiarism: There will be no tolerance for cheating/plagiarism. Any student caught cheating on the exam will be awarded zero point and may be dropped from the course. Detailed policy of classroom misconduct, cheating and plagiarism given in the Student Handbook will be strictly followed. Students are responsible for these directions given about dishonesty and plagiarism. Turnitin will be used to check for plagiarism.