



Department of

Environmental Science and Management

School of Environment and Life Sciences

Independent University, Bangladesh

COURSE OUTLINE

Course Title: Environmental Degradation and Pollution

Course Code: ENV 207

Instructor's details:

Nabila Rahman

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Course Rationale

Environmental pollution is one of the greatest problems that the world is facing today, increasing with every passing year and causing grave and irretrievable damage to the earth. According to World Economic Forum, rising environmental pollution in the developing world is ranked as the sixth most significant global trend this year – and in Asia it's the third. In this context, this course is developed to provide students with basic understanding of environmental pollution in the world and particularly in Bangladesh.

Course Content

The course has topics covering both chemical and biological aspects of environmental pollution. Topics covered include air, water, and noise pollution, controlling air, water, and noise pollution, microbial quality of water, major pathways of biodegradation and concept of bioremediation. Where relevant, case studies from Bangladesh, China and other countries will be used to demonstrate the theories taught in the class.

Course Objectives

The objective of the course is to:

1. Recognize basic terms and apply basic concepts used in environmental pollution.
2. Build-up awareness of air control management techniques and the latest technical methods to reduce pollutants in the air, water and soil.
3. Implement and apply control and management concepts to environmental pollution sources.

Assessment and Evaluation:

Assessment Method	Assessment Tools	Marks Distribution	Sub Total
Continuous Assessment	Class Participation and Attendance	5 + 5 = 10%	10%
Summative Assessment	2 Class Tests	10 x 2 = 20%	90%
	Mid Term Examination	25%	
	Assignment	30%	
	Final Examination	15%	
Total			100%

Grading Scheme

The following chart will be followed for final grading.

A	A-	B+	B	B-	C+	C	C-	D+	D	F
90-100	85-89.9	80-84.9	75-79.9	70-74.9	65-69.9	60-64.9	55-59.9	50-54.9	45-49.9	< 45

Learning Materials

(a) **Textbook(s):**

Understanding Environmental Pollution. Marquita K. Hill, 3rd Edition.

(b) **Reference Book(s):**

1. Noel de Nevers, "Air pollution control engineering", New York, McGraw-Hill, Inc. 1995.
2. Environmental Pollution and Control. Peirce, Ruth F. Weiner, P. Aarne Vesilind. Fourth Edition.
3. Freshwater Microbiology. David C. Sigee.

(c) **Online Materials:** Articles and links to useful websites will be provided wherever applicable.

Course Policy

- (a) **Attendance:** Regular class attendance is mandatory. Points will be taken off for missing classes. Without 70% of attendance, sitting for final exam is **NOT** allowed. According to IUB policy students must enter the classroom within the first 10 minutes to get attendance. Attendance will **NOT** be given if you are not physically present in the class.
- (b) **Lecture Notes and Learning Materials:** The lecture notes and/or other reading materials for each class will be available on the online platform.
- (c) **Class Participation:** Class participation is vital for better understanding of technological issues. Students are invited to class discussion and raise questions.
- (d) **Tutorials:** Students should take tutorials with the instructor during the office hours. Other than the office hours, prior appointment is required.
- (e) **Makeup Class:** Students will be notified in due time for any class cancelation, extra class, make-up class and tutorial class.
- (f) **Exam schedule:** The date and syllabus of quiz, midterm and final exam will be announced ahead of time.
- (g) **Makeup Exams:** There is absolutely **NO** provision for makeup exams.

- (h) **Cheating and Plagiarism:** Cheating and plagiarism on exams, assignments and reports are unacceptable. University policies shall be strictly enforced in this regard.
- (i) **Students with Disabilities:** Students with disabilities are required to inform the Department of any specific requirement for classes or examination as soon as possible.

University Regulations and Code of Conduct

Students must obey the IUB code of conduct and ethical guidelines through [Green Book](#) available in the IUB website. Students must read this [Green Book](#) carefully before starting the class.