



Course Specification

(Bachelor)

Course Title: Environmental Impact Assessment & Management

Course Code: APEP3605

Program: Diploma - Technology of Environmental Protection

Department: Department of Biology

College: Faculty of Sciences

Institution: Umm Al-Qura University

Version: 2

Last Revision Date: 12 / 2024

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A. General information about the course:

1. Course Identification

1. Credit hours:

2 Credits (1 theoretical)

2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (2nd Year /3rd Level)

4. Course General Description:

1. Course Description

The purpose of Environmental Impact Assessment (EIA) is to encourage consideration of the environment in the planning and decision-making process to arrive at actions that avoid or minimize adverse impacts on the environment. Environmental Impact Assessment (EIA) is a process of evaluating the likely environmental impacts of a proposed project or development, considering inter-related socio-economic, cultural and human-health impacts, both beneficial and adverse. EIA is basically a tool used to assess the positive and negative environmental, economic and social impacts of a project. This is used to predict the environmental impacts of a project in the pre-planning stage itself so that decisions can be taken to reduce the adverse impacts. In this course students will develop basic understanding of the history, need, structure, process, involved methods and challenges. Students will also: learn criteria for selecting method for impact assessment, overview of methods, parameters for public participation and technique for writing reports. At the completion of the course students should be able to:

- Introduce the concepts, procedures and methodology of Environmental Impact Assessment (EIA).
- Develop a critical awareness of factors which affect the use of EIA as part of project management.
- Expose the need for environmental impact assessments and how to prepare the various documents.

5. Pre-requirements for this course (if any):

Wildlife Ecology and Protection

6. Co-requisites for this course (if any):

7. Course Main Objective(s):

2. Course Main Objective

After completing this course, students should be able to:

- 1.Explain and assess the process, and underlying principles and concepts, of environmental impact assessment.



2. Explore the methods and techniques used in the stages of the environmental impact assessment process.
3. Evaluate the operation of environmental impact assessment in some countries.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		80%
2	E-learning		20%
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30h
2.	Laboratory/Studio	14h
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Understand the concept and basic process of environmental impact assessment	K1	1. Lectures and student research papers.	- Homework and Quizzes.
1.2	Discuss the stages and operation of environmental impact assessment process	K1 & K2	2. The using of visual display such as PowerPoint. 3. Homework assignments.	- Midterm and final written exams. - Evaluation of reports.



Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.3	Discuss current trends in environmental impact assessment.	K1	Discussions	-Group discussions and participation in the lecture.
1.4	Provide the opportunity to pursue aspects of environmental assessment or wider environmental management.	K1		-Course work reports.
1.5	Explore the need for environmental impact assessments	K1 & K3		
2.0	Skills			
2.1	Evaluate the wider role of environmental impact assessment in the context of sustainable planning.	S1	1.Interactive lectures.	- Exam must contain questions that can measure these skills.
2.2	Discuss impact assessment concepts.	S1, S2	2.Seminars.	- Quiz and exams.
2.3	Evaluate information to make decisions.	S3 & S4	3.Participation of students in discussions during the lecture.	- Discussions after the lecture exam.
2.4	Conduct screening, scoping, report review stages of EIA	S3, S4, & S6	4.Trying to explain the issues in regular and motivated manner.	
2.5	Write reports	S5 & S6		
2.6	Analyze and synthesize previous research	S6		
3.0	Values, autonomy, and responsibility			
3.1	Developing oral presentations	V3 & V4		-Evaluation of student essays and assignments.
3.2	Work effectively in groups	V3		-Marks given to for good reports and presentations.
3.3	Perform self-directed learning.	V2	• Oral presentations.	Evaluating during the discussion in lecture and reports. Part of the grad is put for student's written participation
3.4	Communicating personal ideas and thoughts	V1	• Internet search assignments and essays.	
3.5	Write reports	V4	• Incorporating the use and utilization of computer in the course requirements.	
3.6	To apply, describe, discuss, or contribute reports	V1, V2 & V4		

C. Course Content

No	List of Topics	Contact Hours
1.	-Introduction to Environmental impact assessment (EIA). -History of Environmental impact assessment -Historical Development Under Islamic law	2
2.	-Environmental impact assessment Procedure - Scoping & Screening and -Establishing Baseline Conditions. - Impact prediction methodologies and mitigation measures	2
3.	- Environmental impact assessment Methods, Tools and Techniques - Public Involvement in Environmental impact assessment. Alternatives in Environmental impact assessment.	2
4.	-Impact Management - Mitigation & Preparation of Environment Management Plans. -Environmental impact assessment Reporting & Review of Environmental impact assessment Quality. Decision Making & Project Management, Implementation & Follow up.	2
5.	Environmental impact assessment Case Examples.	2
6.	Midterm- Exam	2
7.	Natural Disasters -Definition -Types of Natural Disasters (Geological Disasters: Avalanche, Landslides, Earthquakes, Sinkholes and Volcanic Eruption). - Hydrological Disasters: Flood, Tsunami and volcanic eruption. - Meteorological Disasters: Cyclonic Storm, Blizzard, Cold waves, Heat waves, Drought, Hailstorms and Tornadoes.	4
8.	-The Role of Technology in Disaster Management - Risk management – overview, importance and processes	2
9.	Environmental Policy, Legislation, and Regulation	2
10.	Environmental Law: International Perspective	2
11.	Environmental Policy, Legislation, and Regulation	2
12.	Environmental Low in Saudi Arabia	2
13.	Administrative control and judicial control in environmental protection	2
14.	Features and principles of environmental law	2
Total		



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz 1 (Theory)	3	5%
2.	Midterm examination (Theory)	6	15%
3.	Midterm examination (practical)	7	10%
4.	Group project	9-10	10%
5.	Final examination (practical)	15	20%
6.	Final examination (Theory)	16	40%
	TOTAL	100%	

Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	The areas of class rooms are suitable, concerning the number of enrolled students; and air conditioned. Lecture room equipped with a black board and Data show. Instructors use their own laptop.
Supportive References	Glasson, J., Therivel, R. and Chadwick, A. (2012) Introduction to Environmental Impact Assessment, 4th edition, Routledge, London. Therivel, R. and Wood, G. (2017) Methods of Environmental and Social Impact Assessment, Routledge, 4th edition.
Electronic Materials	https://www.nature.scot/sites/default/files/2018-05/Publication%202018%20-%20Environmental%20Impact%20Assessment%20Handbook%20V5.pdf https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/296952/geho0411btrf-e-e.pdf
Other Learning Materials	CD prepared by the staff members containing U-tube videos. Multi- media associated with the textbook and the relevant websites. Biological charts.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	The areas of class rooms are suitable, concerning the number of enrolled students; and air conditioned. Lecture room equipped with a black board and Data show. Instructors use their own laptop.
Technology equipment (projector, smart board, software)	Class rooms are already provided with data show, audio-visual equipment.



Items	Resources
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Faculty	Course report
Effectiveness of Students assessment	Students	Course Evaluation Template
	Program leader / Head of the	
Quality of learning resources	Department Quality Committee	Annual program report
The extent to which CLOs have been achieved		

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.) **Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)) **Assessment Methods** (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Umm Al-Qura University Council
REFERENCE NO.	851141114462/190635
DATE	22/11/1446

