Course Specification
(Bachelor)

Course Title:	Environmental Impact Assessement
Course Code:	BIO-1252
Program:	Bachelor of Science in Biology.
Department:	Biology
College:	Science
Institution:	Imam Mohammad Ibn Saud Islamic University (IMSIU)
Version:	01
Last Revision Date:	*Pick Revision Date.*

Table of Contents

A. Course Identification

1. Credit hours:	2 (1Lectures + 2 Laboratory + 0 Tutorials).
2. Course type	
a.	University ☐ College ☐ Department ☑ Others ☐
b.	Required ☑ Elective ☐
3. Level/year at which this course is offered:	Level 4 / Second Year
4. Pre-requisites for this course (if any)**:**	Ecology and Biodiversity - BIO 251.
5. Co-requisites for this course (if any)**:**	None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	√	100%
2	**Blended**		
3	**E-learning**		
4	**Distance learning**		
5	**Other**		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	15
2	**Laboratory/Studio**	30
3	**Tutorial**	0
4	**Others** (specify)	0
	Total	45

B. Course Objectives and Learning Outcomes

1. Course Description

Understand principles, process, and necessary tools and techniques for environmental impact assessment, mitigation and monitoring. Evaluate impacts from project's activities on natural resources, ecological system and community.

2. Course Main Objective

After successful completion of this course, students will be able to: Understand principles, process, and necessary tools and techniques for environmental impact assessment, mitigation and monitoring. Evaluate impacts from project's activities on natural resources, ecological system and community.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	To define principle of environmental impact assessment.	1.1-1.2
1.2	To recognize processes of environmental impact assessment.	1.1-1.2
1.3		
1...		
2	**Skills :**	
2.1	To contrast theoretical of each resource dimension to the environmental impact assessment.	2.3
2.2	To develop analytical thinking.	2.1
2.3	To apply integrated knowledge to enhance skills on environmental impact assessment.	2.2- 2.3
2...		
3	**Values:**	
3.1	To show ability to work in a team and solve the problem regarding the environmental issues.	2.1- 2.2- 3.1
3.2	To illustrate the principle and result of assessment on environmental impact from assignment.	3.1- 3.2
3.3	To operate laboratory instruments and computers.	3.3
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Introduction (Background of EIA, SEA, HIA). The steps and EIA processes.	2
2	Acts, laws, and regulations. Assessment of impact on ecosystem dimension (Terrestrial ecosystem).	2
3	Assessment of impact on ecosystem dimension (Aquatic ecosystem). Assessment of impact on physical environmental dimension (soil and land use).	2
4	Assessment of impact on physical environmental dimension (water resource and air). Assessment of Quality of life dimension (health and socioeconomic).	2
5	Assessment of Quality of life dimension (health and socioeconomic). Public participation and public hearing in EIA process.	4
6	Mitigation and monitoring. Conclusion and students' presentation.	2
7	Oral presentation.	1
Total		15

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	To define principle of environmental impact assessment.	Class discussion	Group work Homework.
1.2	To recognize processes of environmental impact assessment.	Self-study.	Oral test Report and presentation
…			
2.0	**Skills**		
2.1	To contrast theoretical of each resource dimension to the environmental impact assessment.	Self-study is an important method for students' learning.	Questions in lectures. Short quizzes and exams.
2.2	To develop analytical thinking.	Introduce some concepts by examples from real life problems (i.e. Laboratory).	Participation through class work and Homework.
2.3	To apply integrated knowledge to enhance skills on environmental impact assessment.	Encourage students to communicate their biology thinking to ask and answer question when they arise. Motivate students to work cooperatively with their class mates to develop individual skills	Work portfolio.
3.0	**Values**		
3.1	To show ability to work in a team and solve the problem regarding the environmental issues.	Motivate students to ask questions and to give response to the teacher's questions.	Homework's, quizzes, exams and participation.
3.2	To illustrate the principle and result of assessment on environmental impact from assignment.	Encourage the students to be self-starters to finish the chemical problems properly. Writing laboratory reports.	Evaluating the laboratory written reports and calculation skills.
3.3	To operate laboratory instruments and computers.	Computer lab. Presentations	Examinations, Laboratory performance and reports.

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm 1	Around 6th -7th week	15%
2	Midterm 2	Around 11th - 12th week	15%
3	Quizzes, Attendance, Participation, Home works.	All the semester	10 %
4	Lab reports.	All the semester	5%
5	Lab Exam.	Around 15th week	15 %
6	Final Exam.	Around 15th - 16th week	40 %
7	Total		100%
8			

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :
Personal office hour.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Eccleston HC. Environmental Impact Statements. Canada: John Wiley & Sons, Inc.; (2000). ISBN13: 978-0471358688. Lee N, George C, editors. Environmental Assessment in Developing and Transitional Countries - Principles, Methods & Practice. (2000). ISBN-13: 978-0471985570.
Essential References Materials	http://www.kryeministri-ks.net/repository/docs/Final_EIA_Veterinary_Laboratory321.pdf. http://nnsa.energy.gov/sites/default/files/nnsa/inlinefiles/Appendix%20B.pdf.
Electronic Materials	https://books.google.com.sa/books?
Other Learning Materials	CDs for Ecology.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Each classroom is equipped with PC and retro projector with a maximum of 30 students.
Technology Resources (AV, data show, Smart Board, software, etc.)	The computers are equipped with different software's.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Specific laboratory equipment for this course including posters, models of different experimental animals, dissection instruments, light microscopes, dissection microscopes, microtome instrument, slide preparations, mixer, fluorescent microscopes, instruments for measurements of environmental parameters, centrifuges, incubators, ovens and other glasswares.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
At the end of the course each student will complete an evaluation form which it will be used by the faculty to evaluate the course feedback and the instructor.	Students	Direct
At the end of each semester the course coordinator completes a report, including a summary of student questionnaire responses appraising progress and identifying changes that need to be made if necessary.	Course coordinator	Direct
Reviewing the course reports submitted at the end of each semester.	Peer Reviewer	Indirect
Follow up of faculty members by specialized committees devoid of bias and criticism.	Specialized committees	Indirect
Check a sample of marking by independent faculty member.	Faculty	Indirect

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)

H. Specification Approval Data

Council / Committee	Head of biology department
Reference No.	
Date	