



Course Specification

— (Bachelor)

Course Title: Arab Gulf and Red Sea Ecosystems

Course Code: EVS 1248

Program: Bachelor of Science in Environmental Science

Department: Biology

College: Science

Institution: Imam Muhammed Ibn Saud Islamic University

Version: 1

Last Revision Date: -

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A. General information about the course:

1. Course Identification

1. Credit hours: 2 (Lecture 2 + 0 + 0)

2. Course type

A. ☐ University ☐ College ☒ Department ☐ Track Others

B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (Level 8 / 4th Year)

4. Course General Description:

This course covers the basics of marine ecology and its systems and physical and chemical properties focusing on the Ecologies of the Arabian Gulf and Red Sea, and identifying their Marine biology and wealth, as well as the challenges they face and the impact of pollution on them, and Comprehend the dimensions of the sustainability challenge for the Arabian Gulf and Red Sea Locally and globally.

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

EVS 1110 EVS 1114

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

None

7. Course Main Objective(s):

The course intends to:

- Describe the Ecology of the Arabian Gulf and Red Sea.
- Discuss The environmental, cultural, and economic importance of the Arabian Gulf and Red Sea.
- Analyze the marine eco-systems in the Arabian Gulf and Red Sea, and their importance and the chemical and physical properties of them.
- Evaluate how human activity impacts on the eco-systems of Arabian Gulf and Red Sea.
- Clarify the dimensions of the sustainability challenge.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	√	100%
2	E-learning	-	-
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	30
2.	Laboratory/Studio	-
3.	Field	-
4.	Tutorial	-
5.	Others (specify)	-
Total		30

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Describe the Ecology of the Arabian Gulf and Red Sea.	K1-K2	-Lectures -Class participation	-Written exams -Class participation -Assessment of assigned work
1.2	Discuss The environmental, cultural, and economic importance of the Arabian Gulf and Red Sea.	K2	-Lectures -Class participation	-Written exams -Class participation -Assessment of assigned work



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.3	Clarify the dimensions of the sustainability challenge.	K3-K4	-Lectures -Class participation	-Written exams -Class participation -Assessment of assigned work
2.0	Skills			
2.1	Analyze the marine ecosystems in the Arabian Gulf and Red Sea, and their importance and the chemical and physical properties of them.	S2-S4	-Lectures -Classroom discussions -Cooperative education	-Classroom participation -Presentations - Written exams
2.2	Evaluate how human activity impacts on the eco-systems of Arabian Gulf and Red Sea.	S1-S3	-Lectures -Classroom discussions -Cooperative education	Classroom participation -Presentations -Assignments -written exams
3.0	Values, autonomy, and responsibility			
3.1	Participate in work and communicate effectively in groups.	V1-V2	--Lectures -Classroom discussions -Research	-Classroom participation -Presentations
3.2	Adhere to assigned tasks with responsibility.	V3-V4	-Lectures -Classroom discussions	-Classroom participation -Presentations



C. Course Content

No	List of Topics (lectures)	Contact Hours
1.	Introduction, Syllabus. An introductory preface to the geography of the Arabian Gulf and Red Sea and their general features.	4
2.	Ecologies of the Arabian Gulf and the Red Sea.	4
3.	Marine biology in the Arabian Gulf and the Red Sea.	2
4.	Wealth of the Arabian Gulf and the Red Sea.	2
5.	Pressures on the beach and marine environments in the Arabian Gulf and Red Sea.	2
6.	Analyze the marine ecology of the Arabian Gulf and the Red Sea and the impact of pollutants thereon.	4
7.	Coral Bleaching, Coral Diseases, Harmful Algal Blooms (HABs)	2
8.	Coastal Development.	4
9.	Coral Reef Management in the Arabian Gulf and the Red Sea.	2
10.	Comprehend the dimensions of the sustainability challenge for the Arabian Gulf and Red Sea Locally and globally.	4
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm 1	Around 4th - 5th week	20%
2.	Midterm 2	Around 7th - 8th week	20%
3.	Quizzes, Participation, and Attendance	During the semester	20%
6.	Final Exam	16th week	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	<p>-Conservation Biology for all. 2010. edited by Sodhi, N. S, and P. R. Ehrlich. Oxford University Press.</p> <p>- Vaughan, Grace O., Noura Al-Mansoori, and John A. Burt. "The arabian gulf." World seas: An environmental evaluation. Academic Press, 2019. 1-23.</p> <p>- Price, A. R. G., Mohiuddin Munawar, and Nuzrat Yar Khan. The Gulf ecosystem health and sustainability. Michigan State University Press, 2002.</p> <p>-Tsfamichael, Dawit. Assessment of the Red Sea ecosystem with emphasis on fisheries. Diss. University of British Columbia, 2012.</p>
Supportive References	- Short, Frederick T. <i>World atlas of seagrasses</i> . Univ of California Press, 2003.
Electronic Materials	•Saudi Digital Library
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom and laboratories
Technology equipment (Projector, smart board, software)	Projector, smartboard
Other equipment (Depending on the nature of the speciality)	Environment-related instruments

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Direct
Effectiveness of students assessment	Program Leader	Direct
Quality of learning resources	Peer Reviewer	Indirect
The extent to which CLOs have been achieved	Program Leader	Direct
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Head of Biology Department
REFERENCE NO.	
DATE	