



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Advanced Benthos and Coral Reefs
2	Course number	5501712
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	
5	Program title	Master in Marine Sciences
6	Program code	
7	Awarding institution	The University of Jordan-Aqaba
8	Faculty	Marine Sciences
9	Department	Coastal Environment
10	Level of course	
11	Year of study and semester (s)	First Semester 2014/2015
12	Final Qualification	MSc
13	Other department (s) involved in teaching the course	non
14	Language of Instruction	English
15	Date of production/revision	2012

16. Course Coordinator:

Prof. Fuad A. Al-Horani,
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Office hours;
e-mail; fal_horani@hotmail.com

17. Other instructors:

Prof. Fuad A. Al-Horani,
Tel. 03-2090450-35072
Office hours;
e-mail; fal_horani@hotmail.com

18. Course Description:

As stated in the approved study plan.

Description of bottom living organisms, their distribution within the different habitats in addition to the identification of coral reef ecosystem, distribution and interaction with the different inhabitants and habitats. Special focus will be given to the Gulf of Aqaba and the Red sea.

19. Course aims and outcomes:

A- Aims:

The course will provide the students with the basic understanding of the Marine Benthic habitat and reefs and the associated benthic organisms.

The topics covered in this course will allow the students to better comprehend other courses related to marine habitats and organisms.

Strengthen the students' knowledge about benthic habitat and the major benthic organisms.

Open new research fields for students in the various aspects of the marine habitats, ecosystems, and/or organisms.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

- The Thinking and Meditation about the Great Ability of God in Creation of nature and the biological systems.
- The thinking skills will be developed by encouraging students to conclude answers to different questions that the instructor intends to use during the presentation of the scientific material.
- The instructor intends to stimulate the student's analytical thinking side via connections with general aspects in the marine life or through questions, net searching, and assignments.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to Marine Benthic Habitat	1-2				
Introduction to Coral Reef Ecosystems – Biodiversity and Productivity of Tropical Ecosystems	3				
Benthic Organisms	4-6				
Coral Biology- anatomy, morphology, and Reproduction	7-8				
Coral Symbiotic Interactions	9				
Damaging impacts on reefs Other physical impacts Coral diseases Climate change Acidification Sea level rise, Cyclones, hurricanes, typhoons	10-11				
Coral Reef Management-Damage assessment and economic valuation	12				
Coral Reef Restoration Methods	13				

21. Teaching Methods and Assignments:

Power point lectures, questions and discussions, videos, home works

Assignments such as preparing of reports on topics related to the subject.

Students are requested to present a power point presentation on a subject of his/her choice within the framework of the study material.

Laboratory and field training are offered.

22. Evaluation Methods and Course Requirements:

Mid Term exam, Final Exam, Quizzes, Reports, Talks, Home works, Attendance, General performance

23. Course Policies:

Attendance policies: Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the college shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

B- Absences from exams and handing in assignments on time:

Absences without a medical or emergency excuse acceptable to and approved by the Dean of the college shall receive a mark of zero

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Attempts to cheat during an exam or plagiarism for the written reports shall lead to a mark of zero in the exam or report and might lead to failure in the course with other consequences according to the regulations of the university.

E- Grading policy:

Mid Term 30%, Reports, research projects, Home works, presentations 15%, Quizzes. **10%**, **Final Exam 100%**

94-100	4	A
90-93	3.75	A-
86-89	3.5	B+
81-85	3	B
76-80	2.75	B-
70-75	2.5	C+
0-69	2	C

F- Available university services that support achievement in the course:

Library sources are available, internet, laboratory facilities

24. Required equipment:

Lab top, data show, white board, and the normal facilities of the lab.
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25. References:

A- Required book (s), assigned reading and audio-visuals:

B- Recommended books, materials, and media:

Title: Coral Reefs; An Ecosystem in Transition
 Authors: Dubinsky, Z. and Stambler, N.

Publisher: Springer.
 ISBN: 978-94-007-0113-7
 Title: The Biology of Coral Reefs
 Author(s) Charles R.C. Sheppard, Simon K. Davy, and Graham M. Pilling
 Publisher: Oxford University Press.
 ISBN: 978-0-19-856636-6
 In addition to handling **support material (s)**.

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:
 Head of Department
 Assistant Dean for Quality Assurance
 Course File