



**The University of Jordan**

**Accreditation & Quality Assurance Center**

**COURSE Syllabus**

1	Course title	Research Methods
2	Course number	5501715
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)	Seond 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,*  
*Tel. 03-2090450-35072*  
*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.*

Study of the scientific methods and the general principles of scientific research in the fields of marine sciences represented significant achievements in this area in terms of various specialized data processing, as well as design of experiments, information retrieval and writing scientific and technical report, protect intellectual property and discoveries. Students shall prepare and submit reports as well as present seminars on selected topics and considers these reports and seminars within assess student work during the semester.

**19. Course aims and outcomes:****A- Aims:**

This course is primarily designed to expose you to the core ideas behind research methods in marine sciences and other related sciences. The major components of designing research in marine sciences will be addressed. An additional goal of this course is for you to develop the ability to conduct your own research. You will design, conduct, and present a theoretical research project as part of this course.

The detailed objectives include;

Develop your ability to look for literature, find and read the proper literature, summarize it and do the proper citation according to journal style.

Develop your ability to write a proposal of your own, write a research article of your own.

Develop your ability to speak comfortably and clearly. You will orally present on your research project in the form of power point presentation. This presentation will be informal and low-pressure; it should last approximately 20 minutes.

Major goal is for you to work on your writing skills. You will have to write a lot for this course. Being able to clearly express complex ideas in writing is one of the most valuable skills you can develop in study.

**If possible)**...A final goal is for you to develop a basic understanding of statistics. You will be exposed to basic statistical reasoning and to the available statistical software.

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

- To be able to write scientific reports, scientific papers, design experiments, proposals, presentation of work, looking up the needed references, citations and references.

**20. Topic Outline and Schedule:**

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to the course and Research Ethics Start of major project...info.	1-2				
Literature collection, summarizing literature, citations and referencing according to journal style	2-3				
Experimental Design and data collection and analysis	4-6				
Proposal writing	7-8				
Report writing	9-10				

Major Project-Paper writing	11-13				
-----------------------------	-------	--	--	--	--

### 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.

**25. References:**

A- Required book (s), assigned reading and audio-visuals:  
  
B- Recommended books, materials, and media:  
  
Hand outs  
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