The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Scientific Research Methodologies
2	Course number	0302490
3	Credit hours (theory, practical)	1 credit hour
	Contact hours (theory, practical)	
4	Prerequisites/corequisites	Department approval
5	Program title	B.Sc. in Physics
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Science
9	Department	Physic
10	Level of course	Fourth year level
11	Year of study and semester (s)	2016-2017, second semester
12	Final Qualification	Bachelor degree
13	Other department (s) involved in teaching the course	No other department
14	Language of Instruction	English
15	Date of production/revision	30 Jan 2017

16. Course Coordinator:

Office numbers 303
office hours Sunday 10:00-11:00 and Monday 10:00-11:00
phone numbers Ext. 22066
email addresses alaa.azzam@ju.edu.jo

17. Course Description:

Elements of scientific writing: introduction; methods and methodologies; results; analysis; discussion and conclusions. How to: write a scientific article, give a talk, give a power point presentation, and prepare a poster.

18. Course aims and outcomes:

A- Aims:
To meet the course description
B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to …

1. Perform a research

2. Write a scientific article

3. give a talk

4.	prepare a poster
5.	read the up to date related topics to the selected research topic
6.	discuss the results of his/her research

20. Topic Outline and Schedule:

Topic*	Week	Achieved ILOs*	Reference
Introduction	1	1	Lecture notes
selecting a research topic and collecting information	2	5	Lecture notes
Proposals presentations	3	5	
data analysis	4	1,6	Lecture notes
research proceeding summary-1	5	5,6	
ethics of the scientific research	6	1,2	Lecture notes
research proceeding summary-2	7	5,6	
writing a scientific paper and publication in scientific research	8	1,2,3	Lecture notes
research proceeding summary-3	9	5,6	
presenting the research results as a talk and a poster	10	3,4	Lecture notes
the article submission	11	1,2,3,6	
Presentations and Posters	12	3,4,6	

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following <u>teaching and learning methods</u>:
the teaching method will be by explaining things using data show and internet resources

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment methods and requirements</u>:
the evaluation will be on the proposal and the summary given about the research proceeding and the article, the talk and the poster which will be submitted at the end of the semester.

23. Course Policies:

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A- Attendance policies:

According to the university rules any student exceeds the allowed number of absence, will be divested from continuing the course .

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

The student will get zero until he/she provide official excuse.

C- Health and safety procedures:

No need

D- Honesty policy regarding cheating, plagiarism, misbehaviour:

The university rules will be applied in this case

E- Grading policy:

Proposal submission: 12.5

research proceeding summary-1: 12.5
research proceeding summary-2: 12.5
research proceeding summary-3: 12.5

The article: 25

The poster: 12.5

The talk: 12.5

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

books at the library and the scientific journals available on the internet

24. Required equipment:

computer and data show

25. References:

A. The databases available in the university library
B. The scientific journals available on the internet

Name of Course Coordinator: **Dr. Ala'a Azzam**   Signature: Date: 12 Feb 2017

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