The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Course Name: Physics Lab. for life sciences
16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.
Sunday 12-13, Monday 12-13, Tuesday 11-13, Thursday 11-13
0799906648
a.taha@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

18. Course Description:

As stated in the approved study plan.
Students perform 12 experiments of 3 hr/week duration. These experiments are: introduction, Experimental Error & Data Analysis, Measurements & Uncertainties, Collection and Analysis of Data, Vectors, Simple Pendulum, Motion in one Dimension, Gas Laws, Specific Charge of Copper Ions, Measurement of Resistance Ohm’s Law, Measurement of Resistance Wheatstone Bridge, Potentiometer and Joule Heat
19. Course aims and outcomes:

**A- Aims:** The aim of the course is to engage each student in significant experiences with experimental processes and to give such students a good basic understanding of the main physics topics and an introduction to the methods of experimental physics. It will provide a good foundation of basic physics that is applicable to other areas of science and technology.

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

- Students completing this course should understand that physics is an experimental science and that observation and experimentation are as important as concepts and theories.

- State the basic laws of physics in mechanics, electric and thermal physics, and identify how they can be applied in various contexts.

- Laboratory investigations should encourage students to add some of their own ideas to experiments and their interpretation.

20. Topic Outline and Schedule:

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21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:
Provide us in the laboratories with good and efficient equipment setups. There were not enough possibilities in the courses to get in contact with modern technology ways in science. Computer based equipment for data collection and analyses of measurements is not used in the lab experiments.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

23. Course Policies:

A- Attendance policies:
The students should attend to all the laboratory session.

B- Absences from exams and handing in assignments on time:
Is not allowed

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:
Is not allowed

E- Grading policy:
40% course work
20% mid exam
40% final exam

F- Available university services that support achievement in the course:
24. Required equipment:

25. References:

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

   Laboratory experiments physics lab 113/115 N. Saleh, B. Bulos, Kamal A. Alsaleh 1997. the university of Jordan

   B- Recommended books, materials, and media:

26. Additional information:

Name of Course Coordinator: - Ammar Al Husseini----Signature: -------------- Date: -13/12/2016-------------

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

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

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

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