Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment







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T6. Course Specifications (CS)



Course title: Project



Course code: 23064800-2





المملكة العربية السعودية الهيئة الوطنية الوطنية والاعتماد الأكاديمي

Course Specifications

Institution: Umm AL – Qura University	Date: 12/3/1439
College/Department : Jamoum University College	- Physics Department

A. Course Identification and General Information

1. Course title and code: Project (code: 23064800-2)									
2. Credit hours: 3 Hrs.									
3. Program(s) in which the course is offered. BSc Physics (If general elective available in many programs indicate this rather than list programs)									
4. Name of faculty member responsible	e for the cou of the staff								
5. Level/year at which this course is of									
6. Pre-requisites for this course (if any)	:								
7. Co-requisites for this course (if any)	:								
8. Location if not on main campus: Al-	Jamoum								
9. Mode of Instruction (mark all that ap	oply)								
a. traditional classroom	✓	What percentage?	20%						
b. blended (traditional and online)	✓	What percentage?	10%						
c. e-learning		What percentage?	10%						
d. correspondence	d. correspondence								
f. other		What percentage?							
Comments:									



B Objectives

1. What is the main purpose for this course?

The course is dealing with a specific research point. this point is carried by the student under the supervision of one of the academic stuff. the research point can be classified to two groups:

A- Theoretical research projects and B- Experimental research project.

- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
- 1.Explain strategy of the project in the beginning of the semester
- 2. Highlighting the day life applications whenever exist.
- 3. Encourage students to search details in the web and references in the library.
- 4- Encourage the student to build an example of different experiments related to course and comparing it with experiments in the lab.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

It mainly works on developing different scientific skills and improving the way of scientific thinking.

1 Topics to be Covered		
Topics	No of	Contact
	Weeks	hours
This course is dealing with a specific research point . this research point is		
carried by the student under the supervision of one of the academic stuff.		
the research point can be classified to two groups:		
A- Theoretical research projects, And B- Experimental research project.		
So the point of study will be varied according to the students and the		
instructor of the course		
	14	42 hrs
	weeks	

Practical part:

The time of the practical depend on the selected point under study per each project.

	2. Course components (total contact hours and credits per semester):									
Lecture Tutorial Laboratory or Studio Practical Other: Total							Total			
	Contact hours 42 42						42			
	Credit 3									

3. Additional private study/learning hours expected for students per week.	2	
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

<u>First</u>, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table).

<u>Second</u>, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes.

Third, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Define the physical quantities, physical phenomena, and basic principles. Describe the physical laws and quantities using mathematics	 Demonstrating the basic principles through lectures. Discussing phenomena with illustrating pictures and diagrams. Lecturing method: Board, Power point. 	Solve some example during the lecture. Discussions during the lectures Exams: a) Quizzes (E-learning) b) Short exams (mid- term exams)
1.2	Describe the physical laws and quantities using mathematics	4. Discussions5. Brain storming6. Start each chapter by general idea and the benefit of it.	c) Long exams (final) d) Oral exams
1.3	Determine the physical quantities at the Lab.	 Doing team research or team project. Doing team work to perform some experiments Perform the experiments correctly. Demonstrate the results correctly. Write the reports about the experiment. Discussion with the student about the results 	Writing scientific Reports. Lab assignments Exam.



2.0	Cognitive Skills				
2.1	Apply the laws of physics to calculate some quantities.	1. Preparing main outlines for teaching.	1. Exams (Midterm, final, quizzes)		
2.2	Solve problems in physics by using suitable mathematics.	2. Following some proofs.3. Define duties for each chapter	2. Asking about physical laws previously taught		
2.3	Analyse and interpret quantitative results.	4. Encourage the student to look for the information in different references.	3. Writing reports on selected parts of the		
2.4	Apply physical principle on day life phenomena.	5. Ask the student to attend lectures for practice	course. 4. Discussions of how to simplify or analyze		
2.5	Derive the physical laws and formulas.	solving problem.	some phenomena.		
3.0	Interpersonal Skills & Responsibility				
3.1	Show responsibility for self-learning to be aware with recent developments in physics	 Search through the internet and the library. Small group discussion. Enhance self-learning skills. 	 Evaluate the efforts of each student in preparing the report. Evaluate the scientific reports. 		
3.2	Work effectively in groups and exercise leadership when appropriate.	Develop their interest in Science through: (lab work, visits to scientific and research institutes).	Evaluate the team work in lab and small groups.Evaluation of students presentations.		
4.0	Communication, Information Technology, Numer	rical			
4.1	Communicate effectively in oral and written form.	• Incorporating the use and utilization of	Evaluating the scientific reports.		
4.2	Collect and classify the material for the course.	computer, software, network and multimedia through courses	Evaluating activities and homework		
4.3	Use basic physics terminology in English.	• preparing a report on some topics related to			
4.4	Acquire the skills to use the internet communicates tools.	the course depending on web sites			
5.0	Psychomotor				
5.1	Use experimental tools safely and correctly.	Follow up the students in lab and during	Practical exam.		
5.2	Determine the physical quantity correctly at the Lab.	carryout all experimental work.	Giving additional marks for the results with high and good accuracy		

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5. Map course	5. Map course LOs with the program LOs. (Place course LO #s in the left column and program LO #s across the top.)															
Course LOs #	Program Learning Outcomes (Use Program LO Code #s provided in the Program Specifications)															
	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2
1.1																
1.2																
1.3																
2.1																
2.2																
2.3																
2.4																
2.5																
3.1																
3.2																
4.1																
4.2																
4.3																
4.4																
5.1																
5.2																



6. Sc	6. Schedule of Assessment Tasks for Students During the Semester								
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment						
1									
2									
3									
4									

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Each student will supervise by academic adviser in physics Department and the time table for academic advice were given to the student each semester. (2 hrs per week)

E Learning Resources

1. List Required Textbooks

Selected according to the research point under study.

- 2. List Essential References Materials (Journals, Reports, etc.)
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
- 4. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
- 5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- * Lecture room organized for face to face learning
- * Library
- *Laboratory for optics
- * Boards
- * Suitable lightening system



- * Air condition units
- * Fiber optic networks and wireless
- * Computers and data show
- 2. Computing resources (AV, data show, Smart Board, software, etc.)
- * computers with data show
- * Available numbers of computers for students
- * Updating the computer each year.
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Checked later if needed

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Evaluating the instructor by the student using questionnaires

Following up the progress of student in the course

Evaluating the progress of student by the projects and reports

Evaluating the course by specialized committees.

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department

Self-evaluation

Student evaluation

Evaluation by other instructor in the same department or outside it

- 3 Processes for Improvement of Teaching
 - Preparing the course as PPT.
 - Using scientific flash and movies.
 - Coupling the theoretical part with laboratory part
 - Periodical revision of course content.
- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - The instructors of the course are checking together and put a unique process of evaluation.
 - Feedback evaluation of teaching from independent organization.
 - Independent evaluation by another instructor that give the same course in another faculty.
 - Evaluation by the accreditation committee in the university.
- 5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
 - 1- The following points may help to get the course effectiveness
 - Student evaluation
 - Course report
 - Program report
 - Program Self study
 - 2- According to point 1 the plan of improvement should be given.