Course Report

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

General Physics II
(PHYS 217)

A separate Course Report (CR) should be submitted for every course and for each section or campus location where the course is taught, even if the course is taught by the same person. Each CR is to be completed by the course instructor at the end of each course and given to the program coordinator.

A combined, comprehensive CR should be prepared by the course coordinator and the separate location reports are to be attached.

Course Report

For guidance on the completion of this template refer to the NCAAA hand books or the NCAAA Accreditation System help buttons.

Institution: **Majmaah University**	Date of Course Report: **22/ 03/ 1436**
College/ Department **College of Science, Al-Zulfi / Physics Department**	

A. Course Identification and General Information:

1. Course title: **General Physics II** Code: **PHYS 217** & **PHIS 104**
   Section: **132** & **63**

2. Name of course instructor: **Dr. Mohd. Shakir Khan**

   Location: **College of Science, Al-Zulfi**

3. Year and semester to which this report applies. **1435-1436 - 1st semester**

4. Number of students starting the course? **20** Students completing the course? **8**

5. Course components (actual total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	**30**		**26**			**56**
Credit	**2**		**1**			**3**

B. Course Delivery:

1. Coverage of Planned Program:

Topics Covered (Theory)	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned.
Electric charge, The electric current, Insulators and conductors, Coulomb's law, Point charge, The potential of point charges	2	2	
The electric field, Electric field of multiple point charges, Electric potential, The electric potential of many charges	2	2	
The electric field of continuous charge distribution, current density, examples of various shapes (disks, rings, spheres, planes)	2	2	
Capacitor and Capacitance, Energy stored in	2	2	

a capacitor, The parallel plate capacitor			
Electric dipole, The potential of dipole, motion of point charge and electric dipole in electric field, Electric flux	2	2	
Gauss's law, Application of Gauss's law, Conductor in electrostatic equilibrium	2	2	
Fundamental circuits, Ohm's law, Series resistors, Parallel resistors, Batteries, Conductivity and resistivity	2	2	

Topics Covered (Practical)	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned.
Introduction and instructions about the laboratory.	2	2	
To verify Ohm's Law.	2	2	
To determine the value of an unknown resistance.	2	2	
To verify the law of parallel combination of resistors.	2	2	
To verify the law of series combination of resistors.	2	2	
Measuring the charging and discharging curve of a capacitor.	2	2	
Determining the time constant & the capacitance of the capacitor.	2	2	
To determine the resonance frequency f_0 by recording the resonance curve.	2	2	
To determine the band width and quality factor Q & To determine the inductance value L of a coil.	2	2	
Seminar/ Presentation	2	2	

2. Consequences of Non Coverage of Topics:

For any topics where the topic was not taught or practically delivered, comment on how significant you believe the lack of coverage is for the course learning outcomes or for later courses in the program. Suggest possible compensating action.

Topics (if any) not Fully Covered	Effected Learning Outcomes	Possible Compensating Action
N/A	**N/A**	**N/A**

3. Course learning outcome assessment:

	List course learning outcomes	List methods of assessment	Summary analysis of assessment results
1.	Describe the basic laws of electrostatics, current electricity, and magnetic effect of current, electromagnetic induction, alternating current, sound and optics.	• Quizzes • Midterm exams • Final exams	The average score is about 91%; Students well understood these topics.
2.	Define Coulomb's law to calculate electro-static force and Gauss's law to calculate electric field and Ohm's law to measure voltage, current and resistance.		
3.	Apply the gained mathematical and experimental knowledge in any physical phenomena to understand its behavior.	• Evaluation of lab reports • Practical exam • Viva voce • Quizzes • Numericals • Midterm exams • Final exams	The average score is about 91% Students understood these concepts but found difficulty in mathematical calculations.
4.	Solve the numerical problems with confidence.		
5.	Work in a group and learn time management.	• Active class participation • Performing sincerely in lab exam (observation) • Presentation • Quizzes • Discussions	The average score is about 90% Students understood these concepts but found difficulty in explaining.
6.	Present a short report in a written form and orally using appropriate scientific methods.		
7.	Ask questions with teacher in the class, solve problems, and use computers.	• Quizzes • Lab Reports/ Presentation writing • Home work	The average score is about 91% Students understand these topics but found difficulty in drawing graphs and writing mathematical formulae.
8.	Students should be able to use computer tools in the class.		

Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

I think increasing the time devoted to lecture class participation; oral presentation as well as the working in group will be useful in improving the teaching strategies.

4. **Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework).**			
List Teaching Methods set out in Course Specification	Were these Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with those difficulties.
	No	Yes	
Lecturing, Team work, presentations, assignments, Quizzes, Exercise		√	Students are not qualified to use MS Excel software for drawing graphs and MS office software to writing the lab reports.
To perform experiments and analysis the experimental data		√	
Home work		√	

Note: In order to analyze the assessment of student achievement for each course learning outcome, student performance results can be measured and assessed using a KPI, a rubric, or some grading system that aligns student work, exam scores, or other demonstration of successful learning.

C. Results:

1. **Distribution of Grades:**

Letter Grade	Number of Students	Student Percentage	Explanation of Distribution of Grades
A+	**1**	**7.14%**	**95 - 100**
A			90 - 94
B+	**1**	**7.14%**	**85 - 89**
B	**1**	**7.14%**	**80 - 84**
C+			75 - 79
C	**1**	**7.14%**	**70 - 74**
D+	**1**	**7.14%**	**65 - 69**
D	**3**	**21.43%**	**60 - 64**
F	6		< 60
Denied Entry	3 + 1		
In Progress	0		
Incomplete	0		
Pass	**8**		
Fail	6		
Withdrawn	2		

2. Analyze special factors (if any) affecting the results.
- Attending the lecture classes. - English Language difficulties. - Students are not qualified in Mathematical calculations.

3. Variations from planned student assessment processes (if any) (see Course Specifications).
There were no variations.
a. Variations (if any) from planned assessment schedule (see Course Specification).

Variation	Reason

b. Variations (if any) from planned assessment processes in Domains of Learning (see Course Specification).	
Variation	Reason

4. Student Grade Achievement Verification (e.g. cross-check of grade validity by independent evaluator).	
Method(s) of Verification	Conclusion
Not completed	The most of the exams are applied written on the paper systems in the class and lab at a direct method between the instructor and the student through some discussions to know the level of the students.

D. Resources and Facilities:

1. Difficulties in access to resources or facilities (if any).	**2. Consequences of any difficulties experienced for student learning in the course.**
a) The necessary references do not exist at the library of the college. b) The students are not reading (The magazines, books, lab manuals ...etc.).	This may have an influence on the students for preparation of some different topics of the course in the requested form. We solve the problem by performing the experiments.

E. Administrative Issues:

1. Organizational or administrative difficulties encountered (if any).	**2. Consequences of any difficulties experienced for student learning in the course.**
1) The students do not know the academic laws.	- There are some students attain good and high grades. - The difficulty to choose the appropriate program.

F. Course Evaluation:

1. Student evaluation of the course (Attach survey results report).
a. List the most important recommendations for improvement and strengths. - Provide books to the students from the library at lower price. - Improve the English language of the students.
b. Response of instructor or course team to this evaluation. -Providing lecture notes to the students. -Upload more tutorial exercises on website.
2. Other Evaluation (e.g. by head of department, peer observations, accreditation review, other stakeholders).
a. List the most important recommendations for improvement and strengths. Exam style and instructors' notes.
b. Response of instructor or course team to this evaluation. Promised to do so and arrange with the course coordinator.

G. Planning for Improvement:

1. Progress on actions proposed for improving the course in previous course reports (if any).

Actions recommended from the most recent course report(s)	Actions Taken	Results	Analysis
A student should not take the course before completing its pre-requisite.	Positive response	Students have been quite prepared to take the course as they have a good background in nuclear physics.	
Tutorial classes	Not enough time provided	Little change	

2. List what actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation).

- ✓ Improve the English scientific language of the students
- ✓ Improve the exam style
- ✓ Solve more critical thinking problems with students

3. Action Plan for Improvement for Next Semester/Year				
Actions Recommended	Intended Action Points and Process	Start Date	Completion Date	Person Responsible
a. All reference books must be provided in the college library	Purchasing many reference books for the course	Beginning semester	About two weeks from the beginning semester	Library's committee
b. Try to rely more on online materials	All lectures should be available online on the lecturer's website	Beginning semester	End Semester	Lecturer

Name of Course Instructor: Dr. Mohd. Shakir Khan

Signature: _____ Date Report Completed: 13/ 01/ 2015

Program Coordinator: Dr. Thamer Alharbi

Signature: _____ Date Received: _____