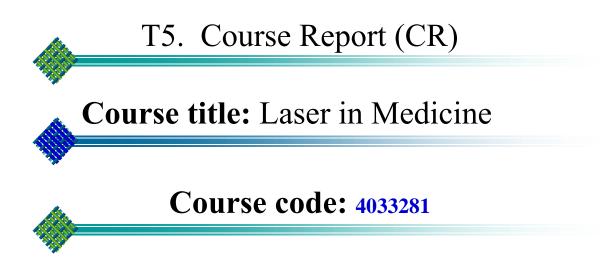


Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment



Prof. Mohamed M.Sabry Department of Physics College of Applied Science mmsalaheldin@uqu.edu.sa



Course Report

For guidance on the completion of this template refer to the NCAAA handbooks.

Institution: Umm AL – Qura University	Date :
College/Department : College of Applied Scie	ence – Department of Physics

A Course Identification and General Information

1. Course title Laser in MedicineCode 4033281-2Sections 1							
2. Name of course instructor Prof. Mohamed Sabry Location Main Campus							
3. Year and seme	3. Year and semester to which this report applies. 3 rd Year / Level 5						
. Number of stud	ents starting	the course?	6 Students	completing the	e course?	6	
5. Course compo	5. Course components (actual total contact hours and credits per semester):						
	Lecture Tutorial Laboratory/Studio Practical Other: Total						
Contact Hours	30	0	0			30	
Credit	2		0				

B- Course Delivery

Topics	No of Weeks	Contact hours
Laser Principles	5	10
1. Theory of temporal and spatial coherence		
2. Coherence Length and Spectral Line Width		
3. The optical properties of Laser beam		
4. Electromagnetic Modes in a Cavity		
5. Theory of Laser Emission		
6. Major Types of Lasers		
7. Measuring Laser Power and Focusing Laser Energy		
Optical and Thermal Response of Tissue to Laser Radiation	4	8
1. The Optical Response Of Tissue		
2. Thermal Response Of Tissue		
3. Interaction of Laser Light With Living Systems		



Therapeutic and Diagnostic Application of Lasers in Ophthalmology	4	8
 Basic Ocular Anatomy and Physiology and Transmission and Absorptive Properties of Ocular Tissues Photothermal Laser Applications Photodisruptive Laser Applications Photochemical Laser Applications: Photoablation and Photodynamic Therapy 		
Laser Safety and classification	2 15 weeks	4 30 hrs

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.

3. Course learning outcome assessment.

	List course learning outcomes	List methods of assessment for each LO	Summary analysis of assessment results for each LO
1	Recognize facts, principle and concepts of elementary Physics	a) Quizzes b) Short exams (mid- term	
2	Describe concepts,	exams)	
3	Apply the laws of physics.	c) Long exams (final) d) Homework	
4	Solve problems in Physics by using suitable mathematical principles	f) solving problems in class	Passed
5	Express the physical phenomena mathematically.		
6	Show responsibility for self- learning to be aware with recent developments in physics	a) lab reports b) lab exam	Passed
7	Work effectively in groups and exercise leadership when appropriate.	c) small group discussiond) problems with openended answers	Fassed

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

Usage of flipped classroom and blended learning improve the students skills in addition to their academic progress.



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 They Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with.
	No	Yes	
 Lectures Homework Short quizzes Two periodic exams Final exam Presentation Small group discussion 		イイイイイ	

C. Results

. Distribution o	f Grades		
Grade	Number of	Student Percentage	Analysis of Distribution of Grades
	Students		
95-100	0		3
90-94	0		
85-89	0		
80-84	0		2
75-79	2	33%	
70-74	1	17%	
65-69	1	17%	
60-64	1	17%	
< 60	1	17%	
Denied Entry	0	0%	0 95-100 90-94 85-89 80-84 75-79 70-74 65-69 60-64 < 60 Denied Entry
In Progress			
Incomplete			
Pass	5		
Fail	1		
Withdrawn			



2. Analyze special factors (if any) affecting the results

Students level of English language is very poor.

3. Variations from planned student assessment processes (if any) (see Course Specifications).

a. Variations (if any) from planned assessment schedule (see Course Specifications)

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

4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator).

Method(s) of Verification	Conclusion

D Resources and Facilities

1. Difficulties in access to resources or	2. Consequences of any difficulties experienced for
facilities (if any)	student learning in the course.

E. Administrative Issues

1 Organizational or administrative	2. Consequences of any difficulties experienced for
difficulties encountered (if any)	student learning in the course.
E Course Evolution	

F Course Evaluation

1 Student evaluation of the course (Attach summary of survey results)

Survey Attached

a. List the most important recommendations for improvement and strengths

- English as a studying language has to be improved
- Labs should be introduced for this course

b. Response of instructor or course team to this evaluation

2. Other Evaluation (eg. by head of department, peer observations, accreditation review, other stakeholders)

a. List the most important recommendations for improvement and strengths

b. Response of instructor or course team to this evaluation



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	Action Results	Action Analysis			
a.						
b.						

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

3. Action Plan for Next Semester/Year							
Actions Recommended for Further Improvement	Intended Action Points (should be measurable)	Start Date	Completion Date	Person Responsible			

Name of Course Instructor: _____Mohamed Sabry_____

Signature: _____Mohamed Sabry_____ Date Report Completed: 20/4/1440 H_

Program Coordinator: Dr. Fahad A. Alhashmi

Signature: Fahad A. Alhashmi

Date Received: _____