



Course Specification

— (Bachelor)

Course Title:	Graduation project
Course Code:	MPHY26483
Program:	Medical Physics
Department:	Physics
College:	Science
Institution:	University of Bisha
Version:	1
Last Revision Date:	5 September 2023

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A. General information about the course:

1. Course Identification

1. Credit hours: 3 (2 Lectures + 1 Laboratory)

2. Course type

A. University College Department Track Others

B. Required Elective

3. Level/year at which this course is offered: 8th Level / 4th year

4. Course general Description

In general, the aim of this course is to guide students to conduct scientific research and write a research report in selected experimental, theoretical, or numerical subjects in various fields of medical physics. Graduation project will cover several topics in experimental, theoretical, or numerical subjects in various fields of physics. Description will be made, according to the subject, by the project supervisor.

5. Pre-requirements for this course (if any):

NA

6. Co- requirements for this course (if any):

NA

7. Course Main Objective(s)

Recognize the fundamental of scientific research.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	4	100%
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4.	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	





5.	Others (specify)	
	Total	60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Recognize the basic of theoretical project.	K1	Lecturing	Reports Presentation
2.0	Skills			
2.1	Writing scientific graduation project.	S1	Self-learning	Reports Presentation
2.2	Analyze and interpret results.	S2	Lecturing Practices lab	
2.3	Communicate positively with others.	S4	Presentation Work group	
3.0	Values, autonomy, and responsibility			
3.1	Apply academic and professional ethical values effectively and efficiently.	V1	Self-learning	Questionnaire
3.2	Exhibit self-learning skills independently.	V2	Self-learning	Reports Presentation
3.3	Ability to work in team effectively.	V3	Work group	

C. Course Content

No	List of Topics	Contact Hours
1.	Project description, Definition of research, Types of research, Scientific method and research ethics.	6
2.	Proposed work plan. Theoretical background.	6
3.	Theoretical background. Literature Survey.	6
4.	Experimental task Data collection and interpretation.	6
5.	Experimental task	6



	Data collection and interpretation.	
6.	Experimental task Data collection and interpretation.	6
7.	Experimental task Results discussion, and conclusions.	6
8.	Experimental task Results discussion, and conclusions.	6
9.	Write the scientific report.	6
10.	Write the scientific report.	6
Total		60

Table: The matrix of consistency between the content and the learning outcomes of the course.

	Course Learning Outcomes						
	1.1	2.1	2.2	2.3	3.1	3.2	3.3
Topic 1	√			√	√	√	√
Topic 2	√			√	√	√	√
Topic 3	√			√	√	√	√
Topic 4				√	√	√	√
Topic 5		√		√	√	√	√
Topic 6		√		√	√	√	√
Topic 7		√		√	√	√	√
Topic 8		√		√	√	√	√
Topic 9			√	√	√	√	√
Topic 10			√	√	√	√	√

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Reports, presentation, questionnaire	1-15	50%
2.	Research project report and final oral presentation	End of Semester	50%



E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Textbooks related to project subject.
Supportive References	Textbooks related to project subject.
Electronic Materials	- Blackboard. - PowerPoint presentations. - Digital library of University of Bisha https://ub.deepknowledge.io/Bisha
Other Learning Materials	NA

2. Required Facilities and equipment

Items	Resources
facilities	Laboratory research
Technology equipment	Projector or smart board
Other equipment	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students.	Indirect (Questionnaire).
Effectiveness of students assessment	Students, Staff members, Program Leader.	Indirect (Questionnaire).
	Peer Reviewer.	Direct (Review exam)
Quality of learning resources	Students, Staff members, Program Leaders.	Indirect (Questionnaire).
The extent to which CLOs have been achieved	Students, Staff members, Program Leader.	Indirect (Questionnaire).
	Course coordinator.	Direct (Course Learning Outcomes Assessment).

G. Specification Approval Data

COUNCIL /COMMITTEE	College of Science Council
REFERENCE NO.	\





DATE

5 September 2023

