



Course Specification

(Bachelor)

Course Title: **Graduation Project**

Course Code: **PHYS26496**

Program: **Physics**

Department: **Physics**

College: **Science**

Institution: **University of Bisha**

Version: **3**

Last Revision Date: 25 July 2023



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A. General information about the course:

1. Course Identification

1. Credit hours: 3 (2 Lecture – 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 physics. The 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:

NA

6. Co- requirements for this course:

NA

7. Course Main Objective(s)

Recognize the fundamental of scientific research.

2. Teaching mode

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.	K.2	Lectures Self-learning	Reports Presentation
2.0	Skills			
2.1	Writing scientific graduation project.	S.1	Solve problems. Self-learning.	Reports Presentation
2.2	Analyze and interpret results.	S.2	Laboratory practices	
3.0	Values, autonomy, and responsibility			
3.1	Apply academic and professional ethical values effectively and efficiently.	V.1	Lectures Self-learning	Questionnaire
3.3	Participate in work teams with responsibility and professionalism.	V.3	Presentation Work group	Reports Presentation

C. Course Content

No	List of Topics	Contact Hours
1.	Project description. Research ethics.	6
2.	Proposed work plan. Theoretical background.	6
3.	Literature survey Research methods and experimental techniques	6
4.	Sampling. Conduct the experimental, theoretical, or numerical tasks.	6
5.	Data collection and interpretation.	6



6.	Discussions the results and conclusion.	6
7.	Write the scientific report: Title Abstract Introduction Methods	6
8.	Write the scientific report: Results Discussions	6
9.	Write the scientific report: Summary and conclusion. References.	6
10.	Revise the draft and re-check until satisfied. Submit 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	3.1	3.2
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 Discussions	End of Semester	50 %

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References - Textbooks related to project subject.





Supportive References	NA
Electronic Materials	<ul style="list-style-type: none"> - 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	Classrooms, Physics lab.
Technology equipment	Data show or smart board.
Other equipment	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Extent of achievement of course learning outcomes.	Teachers, students.	Direct (Final exams), Indirect (Questionnaire).
Effectiveness of teaching.	Teachers, students.	Indirect (Questionnaire)
Effectiveness of assessment.	Teachers, students.	Indirect (Questionnaire)
Quality of learning resources	Teachers, students.	Indirect (Questionnaire)
Quality of facilities available	Teachers, students.	Indirect (Questionnaire)
Fairness of evaluation	Peer reviewer.	Direct (Final exams reevaluation).

G. Specification Approval Data

COUNCIL /COMMITTEE	College of Science Council
REFERENCE NO.	20
DATE	17 August 2023

