



Assessment Areas/Issues	Assessor	Assessment Methods
	Students	topics covered.
Effectiveness of student's assessment	Independent member teaching staff	Survey. • Check marking by an independent member teaching staff of samples of student work.
Quality of learning resources	Students	• Survey
The extent to which CLOs have been achieved	•Developmental quality unit	• Learning outcomes assessment.
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL MEETING
REFERENCE NO.	4 TH
DATE	2023/09/28



No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
4	Lab. Exam	Week 16-17	20%
5	End Semester Exam (40%)	Week 17-18	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Physics, by J. Walker, 4th edition (January 2, 2009) J Kane and M. M. Stenfkim, Physics, J. Wiely & Sons Inc., (1988).
Supportive References	R. A. Serway and R. J. Beichner, "Physics for Scientists and Engineers with Modern Physics", 10 th Ed., John W. Jewett, and ISBN-13: 9781337553292 ISBN-10: 1337553298, (2019). D. Halliday, R. Resnick and J. Walker, "Fundamental of Physics", Wiley & sons. Inc. New York, 11th Ed., (2018).
Electronic Materials	<ul style="list-style-type: none"> Blackboard @psau.edu.sa www.youtube.com
Other Learning Materials	<ul style="list-style-type: none"> Power point presentation (Slides). General physics 106 for PYP Lecture Notes Prepared by the Department of Physics and displayed in Website / Blackboard of Faculty Member

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms with Smart boards with seating facilities for at least 30 students
Technology equipment (projector, smart board, software)	Data show. Computers and internet network.
Other equipment (depending on the nature of the specialty)	Educational materials, PHYSICS' tools and teaching aids.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> Peer Reviewer observation. 	<ul style="list-style-type: none"> Review of recommended teaching strategies and checking



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.0	Values, autonomy, and responsibility			
3.1	Strengthen students' learning and continuing personal and professional development	V2	Exercises during Lecture and Tutorials	Internal Exams End Semester Exam
3.2	Adapt to work effectively individually and in team	V1	Laboratory work, special assignments and search for data and information on their own. Engage students in carrying out internet search	Oral exams Evaluation of study essay's, assignments and search work Observation of students' ethical & moral behavior.

C. Course Content

No	List of Topics	Contact Hours
1.	Units and Dimension.	3
2.	Nuclear physics.	6
3	Electromagnetic wave	3
4	Images.	6
5	Coulomb's Law and Electric Fields	6
6	Electric potentials.	6
7	Capacitance.	6
8	Electric current and Ohm's law.	6
9	Motion in one and two dimensions and Newton law of Motion	6
10	Experimental Part	32
Total		80

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Mid Term Exam	8 -9	20%
2.	Participation and Homework	Through the course	10%
3.	Homework Lab -	Through the course	10%





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	Define the terms; position, displacement, instantaneous velocity, time interval, average velocity, acceleration, free fall, fundamental force and equation of motion Newton's laws, Work and Energy.	K1		
1.2	Define the terms of, atomic mass, mass number, atomic number, nucleus, half-life, activity, radioactive decay.	K1	Lecturing Tutorials	✓ Written Examinations In-class tests. ✓ Laboratory Exams and reports.
1.3	Outline the next concepts to students: electric charge, coulomb, electron, electronic charge, conservation of charge, ion, electrostatic force, conduction, electric field, field lines, field strength, uniform field, Gauss Law .	K2	Laboratory classes Assignments Worksheets	✓ Regular class MCQs. Final written Exam at the end of the semester.
1.4	Describe the knowledge of the different terms of; reflecting and refracting of light, dispersion and the rainbow, human eye and the camera, the compound microscope, telescopes and lens aberrations.	K3		
2.0	Skills			
2.1	Explain subject-specific theories, concepts and principals of physics in biological science	S1	Lectures	✓ Written Examinations In-class tests.
2.2	Analyze to solve scientific problems	S2	Classes	✓ Laboratory Exams and reports.
2.3	Formulate hypotheses and theories in physics	S1	Laboratory	✓ Regular class MCQs.
2.4	Collect record and analyze the experimental data using appropriate techniques in the laboratory.	S3	Practical lessons and project	Final written Exam at the end of the semester.





A. General information about the course:

Course Identification

1. **Credit hours:** 4(3,0,1)

2. Course type

a. University College Department Track Others

b. Required Elective

3. **Level/year at which this course is offered:**

4. Course general Description

This course directed primarily towards students working towards a B.Sc. in medicine and health sciences. Though the contents predominates laws of Physics like measurements and units; nuclear physics; wave properties; images in mirrors and lenses; electricity; electric current and Ohm's law; fluid and viscosity; motion in one dimension; kinematics and so. But the emphasis is on the life sciences. This course explains these laws of Physics in the context of health and medical sciences in order to make student understand their application in their field of specialization.

5. **Pre-requirements for this course (if any):** None

6. **Co- requirements for this course (if any):** None

7. Course Main Objective(s)

This course is designed for students in Health Science to enable them to understand the application of the basic concepts of physics which are relevant to their further studies.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	5*16	100%
2.	E-learning		
	Hybrid		
3.	<ul style="list-style-type: none"> Traditional classroom E-learning 		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	3*16=48
2.	Laboratory/Studio	2*16=32
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		80





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T-104
2022

Course Specification

Course Title: General Physics
Course Code: Phys106
Program: B.Sc. Physics for Health Science
Department: Physics
College: Science and Humanities
Institution: Prince Sattam bin Abdul Aziz University
Version: T-104 2022
Last Revision Date: / 0 / 2023

