



DEPARTMENT OF PHYSICS

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TABLE OF SPECIFICATIONS

Phys 32 - Wave Mechanics and Optics

1st Semester AY 2021-2022

Examination: X Midterm Final

Date of Examination: November 17, 2021

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						
				% Remembering	90 Understanding	Applying %	Analyzing %	Evaluating	Creating	Total Items
Wave Properties	1	Identify how waves transfer energy without transferring matter. Contrast transverse and longitudinal waves. Relate wave speed, wavelength, and frequency.	14.3%	10	4		4			18
Wave Behavior	1	Relate a wave's speed to the medium in which the wave travels. Describe how waves are reflected and refracted at boundaries between media. Apply the principle of superposition to the phenomenon of interference.	14.3%	12	5,		1		9.°	18
Properties and Detection of Sound	1	Demonstrate the properties that sound shares with other waves. Relate the physical properties of sound waves to our perception of sound. Identify some applications of the Doppler effect.	14.3%	6	8		4			18
The Physics of Music	1	Describe the origin of sound. Demonstrate an understanding of resonance, especially as	14.3%	7	10		1			18