



TABLE OF SPECIFICATIONS

Phys 32 – Wave Mechanics and Optics

1st Semester AY 2021-2022

Examination: Midterm X Final

Date of Examination: January 27, 2022

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				28%	28%	__%	44%	__%	__%	
Reflection from Plane Mirrors	1	1. Explain the law of reflection. 2. Distinguish between specular and diffuse reflection. 3. Locate the images formed by plane mirrors.	14.3%	6	5		7			18
Curved Mirrors	1	1. Explain how concave and convex mirrors form images. 2. Describe properties and used of spherical mirrors. 3. Determine the locations and sizes of spherical mirror images.	14.3%	8	8		2			18
Refraction of Light	1	1. Solve problems involving refraction. 2. Explain total internal reflection. 3. Explain some optical effects caused by refraction.	14.3%	5	3		10			18
Convex and Concave Lenses	1	1. Describe how real and virtual images are formed by single convex and concave lenses. 2. Locate images formed by lenses using ray tracing and equations. 3. Explain how chromatic aberration can be reduced.	14.3%	6	6		6			18
Application of Lenses	1	1. Describe how the eye focuses light to form an image. 2. Explain nearsightedness and farsightedness and how eyeglass lenses correct	14.3%	2	2		14			18