





## **DEPARTMENT OF PHYSICS**

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## **TABLE OF SPECIFICATIONS**

Phys 21n - Mechanics and Thermodynamics

1st Semester AY 2021-2022

amination: _v	_ IVIIC	dtermFinal		Date of Examination: 01/28/20						
Content	No. of Meetings	Course Outcome/ Learning Outcome (CO/LO)	%	Taxonomy of Objectives						
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total Items
				45%	30%	10%	5%	10%	0%	
Physical Quantities and Vectors		Convert different units of physical quantities.     Integrate and apply different vector analysis in solving calculusbased problems.								
Physical Quantities	5	Describe the nature of physics. Explain the significance of measurement. Convert units and apply dimensional analysis in solving problems.	30%	9	3				-	12
Vector and Vector Analysis	2	Distinguish between a scalar and a vector. Evaluate vectors and addition of vectors. Calculate and apply: vector sum and vector difference, scalar product and vector product.	15%	4	2			2		8
Kinematics		Describe, prove equations and solve kinematics and dynamics involve in a body or particle.								4
Straight Line Motion	9	Describe straight-line motion in terms of frame of reference, average velocity, instantaneous velocity,	50%	9	8	4	1	1		23