



TABLE OF SPECIFICATIONS

PhSc 118 – Astronomy

1st Semester AY 2021-2022

Examination: _____ Midterm X Final

Date of Examination: December 16–17, 2021

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				50%	50%	0%	0%	0%	0%	
Module 3: Planets of the Solar System	6	CO4: Describe and distinguish the differences between the planets of the solar system.	50%	15	15					30
Module 4: Moons, Comets and Inter-stellar Objects	6	CO5: Discuss the basic composition of each Jovian planet's ring system and describe their major moons. Understand Pluto's discovery, orbital characteristics, and composition.	50%	15	15					30
Total	12		100%	30	30					60
Item Arrangement				T.I 1–19 T.II 1–11	T.I 20–25 T.II 12–25 T.III 1–4 T.IV 1–6					

Type/s of Test: (ex: *Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc.*)

- Test I Multiple Choice (25 items)
- Test II Fill-in the Blanks / Identification (25 items)
- Test III Problem Solving / Analysis (4 items)
- Test IV Essay (6 items)



TABLE OF SPECIFICATIONS

ESci 114 – Physics for Engineers (lab)

1st Semester AY 2021-2022

Examination: ___ Midterm X Final

Date of Examination: December 18-20, 2021

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				0 %	60 %	20 %	20 %	0 %	0 %	
Ex No 1: Forces and Motion	2	a. Explore the forces acting on a body that rests on the Earth surface. b. Explore unbalanced forces. c. Understand the effects of the forces of friction during the motion of objects. d. Explore experimentally the Second Law of Newton.	16.67		3	1	1			5
Ex No. 2: Energy Forms and Changes	2	a. Predict how energy will flow when objects are heated or cooled, or for objects in contact that have different temperatures. b. Describe the different types of energy and give examples from everyday life. c. Describe how energy can change from one form to another. d. Explain conservation of energy in real-life systems.	16.67		3	1	1			5
Ex No. 3: Collision Lab	2	a. Compute for the momentum of an object. b. Compute for the resultant velocity of a colliding object. c. Differentiate the momentum of objects with varying elasticity after collision. d. Compute for the kinetic energy of an object, given mass and velocity.	16.67		3	1	1			5
Ex No. 4: Masses and Springs	2	a. Determine the factors which affect the period of oscillation. b. Correlate the relationship between the velocity and acceleration vectors, and their	16.67		3	1	1			5



TABLE OF SPECIFICATIONS

PhSc 119 – Meteorology

1st Semester AY 2021-2022

Examination: _____ Midterm ☒ Final

Date of Examination: December 18–20, 2021

Content	No. of Meetings	Course Outcome/Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				40%	40%	0%	20%	0%	0%	
Module 3: Fundamentals of Tropical Meteorology	7	CO4: Understand the physics behind the formation of lightning and thunderstorms. Understand the formation of ITCZ and its impact to tropical weather. Discuss ENSO and its climate impacts.	50%	8	8		4			20
Module 2: Data Gathering and Information Dissemination	7	CO5: Identify the principles of remote sensing, its instruments and methods of observation. Identify the roles of PAGASA and its role in data gathering and information dissemination.	50%	8	8		4			20
Total	14		100%	16	16		8			40
Item Arrangement				T.I 1-8 T.II 1-8 T.III 1-2	T.I 9-20 T.II 9-10 T.III 1-2		T.I 21-24 T.V 11-12 T.III 3-4			

Type/s of Test: (ex: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc.)

Test I Multiple Choice (24 items)
Test II Fill-in the Blanks / Identification (12 items)
Test III Essay (4 items)