

Course Outline for Physics 3 (SCI 32201)

1st Semester, Academic Year 2023

For Grade 11, Demonstration School of Suan Sunandha Rajabhat University

Credit 1.5 Total class hours 60 hours (20 weeks)

Classroom Mathayom 5/1 Teacher Ariyaphol Jiwalak

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Teaching Schedule

Week	Topics		Time (hours)
1		Course Introduction	
2	CHAPTER 1: Simple harmonic motion	An object attached to a spring	12
3		·	-
4		Simple pendulum	
5		Types of waves, Parts of waves	
6		Speed of waves	
7	CHAPTER 2: Wave	Huygens' principle and	12
'		Principle of superposition	
8		Behavior of waves	
9	CHAPTER 3: Optics	Double-slit interference	3
10	Midterm Exam		3
11	- CHAPTER 3: Optics	Single-slit diffraction, Diffraction gratings	15
12		Reflection and Refraction of light	
13		Vision and Image formation	
14		Image formation by spherical mirrors	
14		and thin lenses	
15		Light color	
16	CHAPTER 4: Sound	Speed of sound waves	12
17		Behavior of sound waves	
18		Hearing	
19		Phenomena related to sound	
20	Final	Exam	3
	Total		60

Evaluation criteria	Homework	50%
	Quiz	10%
	Midterm exam	20%
	Final exam	20%