



Course Outline for Physics 1 (SCI 31201)

1st Semester, Academic Year 2023

For Grade 10, Demonstration School of Suan Sunandha Rajabhat University

Credit 1.5 **Total class hours** 60 hours (20 weeks)

Classroom Mathayom 4/1 **Teacher** Ariyaphol Jiwalak

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Teaching Schedule

Week	Topics		Time (hours)
1	CHAPTER 1: Introduction to Physics	Course Introduction, Mathematical method for physics	12
2		Quantities and Units	
3		Significant figures	
4		Error	
5	CHAPTER 2: Linear Motion	Position, Displacement, Distance, Velocity, Speed, and Acceleration	15
6		Graphs of linear motion	
7		Kinematic equations for linear motion with constant acceleration	
8		Free fall	
9		Relative motion	
10	Midterm Exam		3
11	CHAPTER 3: Force and Law of Motion	Force and Mass	15
12		Newton's laws of motion	
13		Frictional force	
14		Gravitational force	
15			
16	CHAPTER 4: Mechanical Equilibrium	Mechanical equilibrium, Center of mass and Center of gravity	12
17		Translation equilibrium and	
18		Rotational equilibrium	
19		Stability	
20	Final Exam		3
	Total		60

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