

### ASSESSMENT OF PROGRAM LEARNING OUTCOMES (PLO)

**COURSE** : Mathematical Physics I  
**CREDIT** : 3  
**STUDY PROGRAM** : Physics Education  
**PERIOD** : 2019/2020(2)  
**CLASS** : PFU 2019  
**PARTICIPANTS** : 0

#### PROGRAM LEARNING OUTCOMES

PLO 1. Demonstrate their knowledge of classical physics and modern physics.

PLO 2. Formulate a physical system as a physical model by using mathematics.

PLO 11. Demonstrate good scientific manners, critical thinking, and innovation skills in educational, research, and professional fields.

#### COURSE LEARNING OUTCOMES

1. Have the ability to think critically and use appropriate concepts to analyze quantitatively involving physical problems or situations.
2. Have the ability to use physics concepts and appropriate mathematical / computational methods to get solutions of quantitative problems in physics.
3. Applying higher-order thinking processes (critical, creative, logical, and problem-solving) in studying physical processes and symptoms, both inductively and deductively.
4. Using symbolic and numeric language creatively in describing natural processes and phenomena qualitatively and quantitatively.

#### CLO-PLO CORRELATION

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
<b>CLO1</b>	V	V	0	0	0	0	0	0	0	0	V	0
<b>CLO2</b>	V	V	0	0	0	0	0	0	0	0	0	0
<b>CLO3</b>	0	0	0	0	0	0	0	0	0	0	V	0
<b>CLO4</b>	0	V	0	0	0	0	0	0	0	0	V	0
<b>CLO5</b>	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

#### ASSESSMENT PLAN

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
<b>CLO1</b>	Mid Test, Final Exam	Mid Test, Final Exam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Mid Test, Final Exam	0.00
<b>CLO2</b>	Assignment, Mid Test, Final Exam	Assignment, Mid Test, Final Exam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>CLO3</b>	0.00	0.00	0.00	0.00	0.00	Assignment, Participation, Mid Test, Final Exam	0.00	0.00	0.00	0.00	#REF!	0.00
<b>CLO4</b>	0.00	Assignment, Mid Test, Final Exam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Assignment, Mid Test, Final Exam	0.00

<b>CLO5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**STUDENTS' PERFORMANCE**

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
<b>Excellent</b>	40%	40%	-	-	-	-	-	-	-	-	40%	-
<b>Good</b>	60%	60%	-	-	-	-	-	-	-	-	60%	-
<b>Satisfy</b>	0%	0%	-	-	-	-	-	-	-	-	0%	-
<b>Fail</b>	0%	0%	-	-	-	-	-	-	-	-	0%	-

