


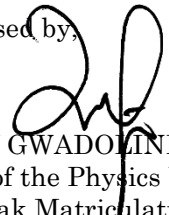
KOLEJ MATRIKULASI SARAWAK
LESSON PLAN
SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	1																	
CHAPTER	Chapter: 1: PHYSICAL QUANTITIES AND MEASUREMENTS																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
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T5A(TUE, 1200hrs, DK1), T5B(TUE, 1100 hrs, DK1), T6A(WED, 1000 hrs, DK2), T6B(WED, 1500 hrs, DK3) 09/07/2024(T5A); 09/07/2024(T5B); 10/07/2024(T6A); 10/07/2024(T6A)	1.1a) Define dimension. 1.1b) Determine the dimensions of derived quantities. 1.1c) Verify the homogeneity of equations using dimensional analysis.			Discussions Thought Experiments Activities	<table><tr><td>ITEM *Appe ndix</td><td>SCOR E</td></tr><tr><td>i</td><td>5</td></tr><tr><td>ii</td><td>6</td></tr><tr><td>iii</td><td>6</td></tr><tr><td>iv</td><td>6</td></tr><tr><td>v</td><td>5</td></tr></table>	ITEM *Appe ndix	SCOR E	i	5	ii	6	iii	6	iv	6	v	5	All objectives achieved. Students are able to understand the materials of the topic.
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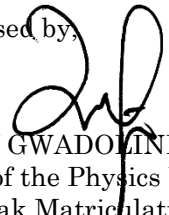
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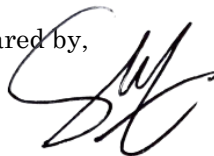
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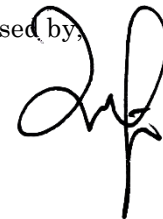
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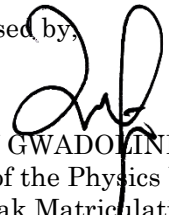
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LECTURER	SHAFIQ BIN RASULAN																	
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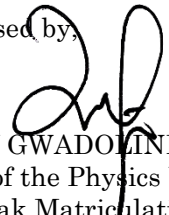
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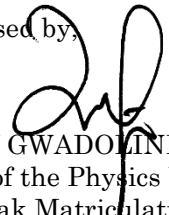
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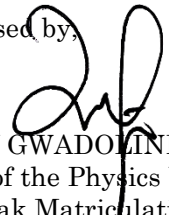
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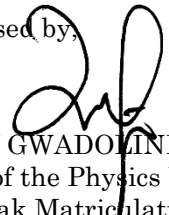
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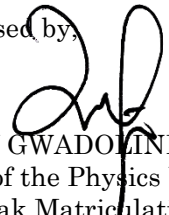
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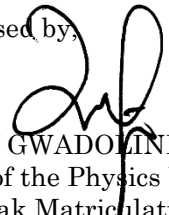
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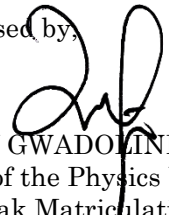
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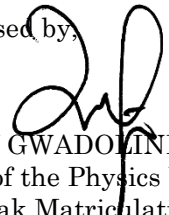
KOLEJ MATRIKULASI SARAWAK
LESSON PLAN
SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																
CODE / COURSE	SP015																
WEEK	4																
CHAPTER	Chapter: 3: DYNAMICS OF LINEAR MOTION																
MODE	TUTORIALS																
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																
SLT	F2F (hour):	1	NF2F (hour):	1													
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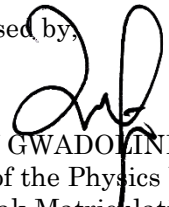
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LECTURER	SHAFIQ BIN RASULAN																	
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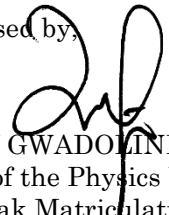
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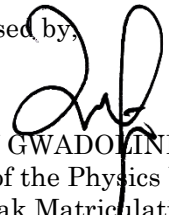
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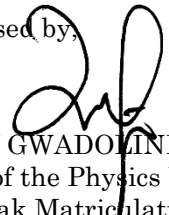
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LECTURER	SHAFIQ BIN RASULAN																	
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WEEK	6																	
CHAPTER	Chapter: 4: WORK, ENERGY AND POWER																	
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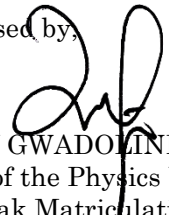
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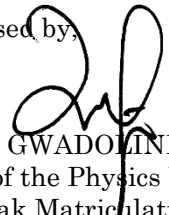
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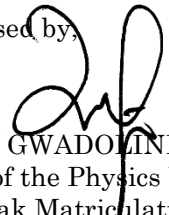
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LECTURER	SHAFIQ BIN RASULAN																
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WEEK	7																
CHAPTER	Chapter: 4: WORK, ENERGY AND POWER																
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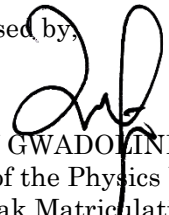
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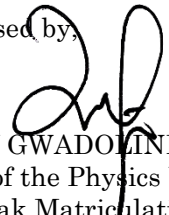
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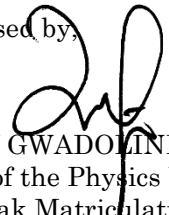
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CODE / COURSE	SP015																
WEEK	8																
CHAPTER	Chapter: 5: CIRCULAR MOTION																
MODE	TUTORIALS																
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																
SLT	F2F (hour):	1	NF2F (hour):	1													
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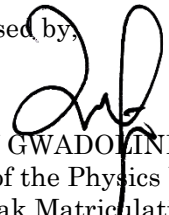
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CODE / COURSE	SP015																
WEEK	8																
CHAPTER	Chapter: 5: CIRCULAR MOTION																
MODE	TUTORIALS																
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																
SLT	F2F (hour):	1	NF2F (hour):	1													
CLASS (DAY, TIME, VENUE) DATE	LEARNING OUTCOME		T&L STRATEGIE S & TOOLS	REFLECTION	REMARKS												
T5A(THUR, 1100hrs, BT1), T5B(WED, 0900 hrs, DK2), T6A(THUR, 0900 hrs, BT3), T6B(THUR, 0800 hrs, BT3) 29/08/2024(T5A); 28/08/2024(T5B); 29/08/2024(T6A); 29/08/2024(T6A)	5.2a) Describe uniform circular motion. 5.2b) Convert units between degrees, radian, and revolution or rotation.		Discussions Thought Experiments Activities	<table><tr><td>ITEM *Appe ndix</td><td>SCOR E</td></tr><tr><td>i</td><td>5</td></tr><tr><td>ii</td><td>5</td></tr><tr><td>iii</td><td>5</td></tr><tr><td>iv</td><td>5</td></tr><tr><td>v</td><td>5</td></tr></table>	ITEM *Appe ndix	SCOR E	i	5	ii	5	iii	5	iv	5	v	5	All objectives achieved. Students are able to understand the materials of the topic.
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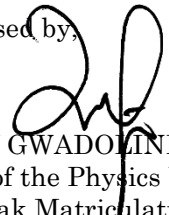
KOLEJ MATRIKULASI SARAWAK
LESSON PLAN
SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	8																	
CHAPTER	Chapter: 5: CIRCULAR MOTION																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
CLASS (DAY, TIME, VENUE) DATE	LEARNING OUTCOME			T&L STRATEGIES & TOOLS	REFLECTION	REMARKS												
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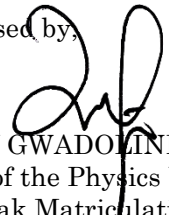
KOLEJ MATRIKULASI SARAWAK
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SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	9																	
CHAPTER	Chapter: 6: ROTATION OF RIGID BODY																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
CLASS (DAY, TIME, VENUE) DATE	LEARNING OUTCOME			T&L STRATEGIE S & TOOLS	REFLECTION	REMARKS												
T5A(TUE, 1200hrs, DK1), T5B(TUE, 1100 hrs, DK1), T6A(WED, 1000 hrs, DK2), T6B(WED, 1500 hrs, DK3) 03/09/2024(T5A); 03/09/2024(T5B); 04/09/2024(T6A); 04/09/2024(T6A)	6.1a) Define and use – angular displacement, average angular velocity, instantaneous angular velocity, average angular acceleration, instantaneous angular acceleration. (Refer Equation 8) 6.1b) Analyse parameters in rotational motion with their corresponding quantities in linear motion (Refer Equation 8) 6.1c) Solve problem related to rotational motion with constant angular acceleration (Refer Equation 8)			Discussions Thought Experiments Activities	<table><tr><td>ITEM *Appe ndix</td><td>SCOR E</td></tr><tr><td>i</td><td>5</td></tr><tr><td>ii</td><td>5</td></tr><tr><td>iii</td><td>6</td></tr><tr><td>iv</td><td>5</td></tr><tr><td>v</td><td>6</td></tr></table>	ITEM *Appe ndix	SCOR E	i	5	ii	5	iii	6	iv	5	v	6	All objectives achieved. Students are able to understand the materials of the topic.
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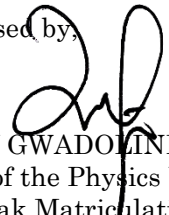
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CODE / COURSE	SP015																	
WEEK	9																	
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MODE	TUTORIALS																	
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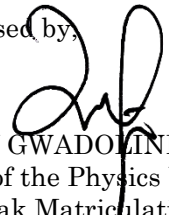
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LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	9																	
CHAPTER	Chapter: 6: ROTATION OF RIGID BODY																	
MODE	TUTORIALS																	
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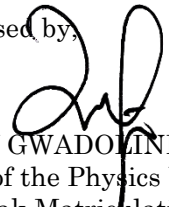
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SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	10																	
CHAPTER	Chapter: 6: ROTATION OF RIGID BODY																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
CLASS (DAY, TIME, VENUE) DATE	LEARNING OUTCOME			T&L STRATEGIES & TOOLS	REFLECTION	REMARKS												
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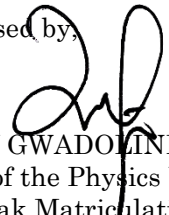
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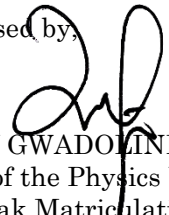
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LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	10																	
CHAPTER	Chapter: 6: ROTATION OF RIGID BODY																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
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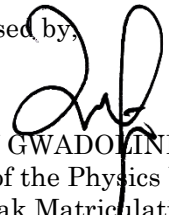
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LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	11																	
CHAPTER	Chapter: 7: OSCILLATIONS AND WAVES																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
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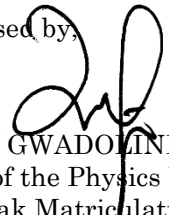
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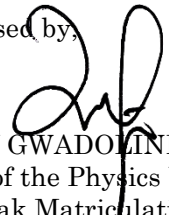
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WEEK	11																	
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MODE	TUTORIALS																	
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WEEK	12																	
CHAPTER	Chapter: 7: OSCILLATIONS AND WAVES																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
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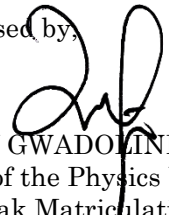
KOLEJ MATRIKULASI SARAWAK
LESSON PLAN
SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	12																	
CHAPTER	Chapter: 7: OSCILLATIONS AND WAVES																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
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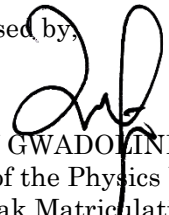
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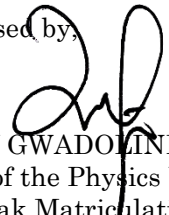
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SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	13																	
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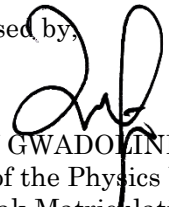
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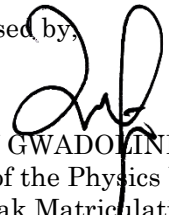
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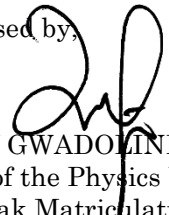
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SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	14																	
CHAPTER	Chapter: 7: OSCILLATIONS AND WAVES																	
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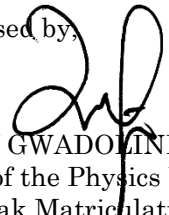
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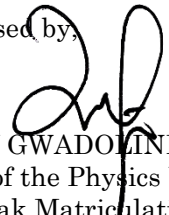
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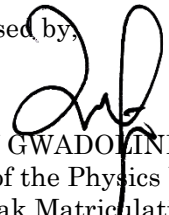
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LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
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CHAPTER	Chapter: 8: PHYSICS OF MATTER																	
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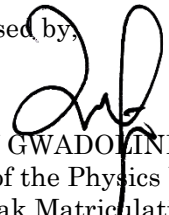
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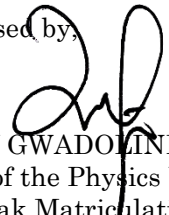
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MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
CLASS (DAY, TIME, VENUE) DATE	LEARNING OUTCOME			T&L STRATEGIE S & TOOLS	REFLECTION	REMARKS												
T5A(THUR, 1500hrs, DK3), T5B(FRI, 1000 hrs, BT1), T6A(FRI , 1100 hrs, BT1), T6B(FRI, 0800 hrs, MF) 24/10/2024(T5A); 25/10/2024(T5B); 25/10/2024(T6A); 25/10/2024(T6A)	8.2a) Define and use Young's Modulus (Refer Equation 19) 8.2b) Apply strain energy from force-elongation graph. (Refer Equation 19) 8.2c) Apply strain energy per unit volume from stress-strain graph. (Refer Equation 19)			Discussions Thought Experiments Activities	<table><tr><td>ITEM *Appe ndix</td><td>SCOR E</td></tr><tr><td>i</td><td>5</td></tr><tr><td>ii</td><td>5</td></tr><tr><td>iii</td><td>5</td></tr><tr><td>iv</td><td>6</td></tr><tr><td>v</td><td>6</td></tr></table>	ITEM *Appe ndix	SCOR E	i	5	ii	5	iii	5	iv	6	v	6	All objectives achieved. Students are able to understand the materials of the topic.
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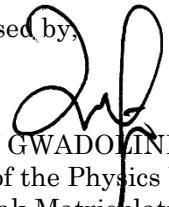
KOLEJ MATRIKULASI SARAWAK
LESSON PLAN
SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	16																	
CHAPTER	Chapter: 8: PHYSICS OF MATTER																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
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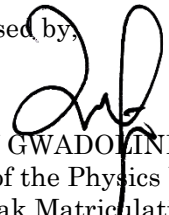
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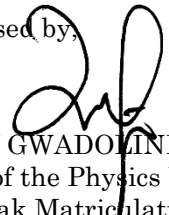
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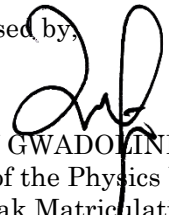
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SEMESTER I SESSION 2024/2025

LECTURER	SHAFIQ BIN RASULAN																	
CODE / COURSE	SP015																	
WEEK	17																	
CHAPTER	Chapter: 9: KINETIC THEORY OF GASES AND THERMODYNAMICS																	
MODE	TUTORIALS																	
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																	
SLT	F2F (hour):	1	NF2F (hour):	1														
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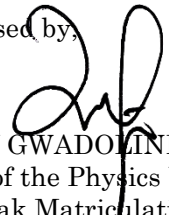
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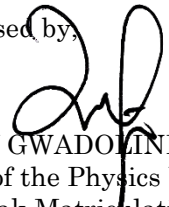
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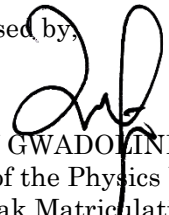
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LECTURER	SHAFIQ BIN RASULAN																
CODE / COURSE	SP015																
WEEK	18																
CHAPTER	Chapter: 9: KINETIC THEORY OF GASES AND THERMODYNAMICS																
MODE	TUTORIALS																
CLO	CLO2: Solve problems related to mechanics, waves, matter, heat and thermodynamics.																
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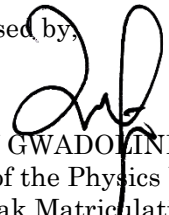
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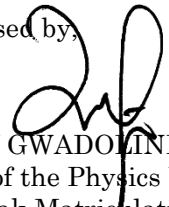
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