KEMENTERIAN PENDIDIKAN MALAYSIA	*CONTINUOUS ASSESSMENT* *MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME* *SARAWAK MATRICULATION COLLEGE*

Stream:	**SCIENCE**	Session:	**2022/2023**
Module:	**I, II**	Semester:	**1**
Course:	**PHYSICS**	Class:	**K1T1, K1T2, K2T3, K2T4, K3T5, K3T6**
Code:	**SP015**		

Course Learning Outcome (CLO)	Task	Student Learning Time		Weightage (%)	Date Set	Date of Submission
		F2F	NF2F			
CLO 3 – Solve problems related to physics of motion, forces and energy, waves, matter, and thermodynamics problems by applying basic concepts and principles in physics. (C 4, PLO 4, CTPS 3, MQF LOD 6)	1. Assignment (Individual)	0.0	3.0	10	3.10.2022	17.10.2022
CLO 2 – Demonstrate manipulative skills during experiments in measurement and uncertainty, free fall and projectile motion, energy, rotational motion of rigid body, simple harmonic motion and standing waves in laboratory. (P 3, PLO 2, MQF LOD 2)	2. Practical Test (Individual)	1.0	3.0	15	1.11.2022 – 10.11.2022	1.11.2022 – 10.11.2022
CLO 3 – Solve problems related to physics of motion, forces and energy, waves, matter, and thermodynamics problems by applying basic concepts and principles in physics. (C 4, PLO 4, CTPS 3, MQF LOD 6)	3. Practical Test Report (Individual)	1.0	3.0	15	1.11.2022 – 10.11.2022	1.11.2022 – 10.11.2022

Continuous Assessment Details

Task	Topic	Assesment Objectives	Learning Outcomes Domain	Taxonomy Level	Transferable Skills	Assesment Criteria
1. Assignment (Individual)	6 Rotational of rigid body	6.1 Rotational kinematics c) Solve problems related to rotational motion with constant angular acceleration. 6.2 Equilibrium of a uniform rigid body b) Solve problems related to equilibrium of a uniform rigid body. 6.3 Rotational dynamics 9.1 Define and use the moment of inertia of a uniform rigid body. c) State and use torque, $\tau = I\alpha$ 6.4 Conservation of angular momentum a) Define and use angular momentum, $L = I\omega$ b) State and use principle of conservation of angular momentum.	LOD 1 – Knowledge	C1 – Remembering C2 – Understanding C3 – Application C4 – Analysing	Critical Thinking and Problem Solving (CTPS 3)	*1.Scoring rubric* (As attached) *2. Marking scheme*

2. Practical Test (Individual)	7	Simple harmonic motion	7.3 Period of simple harmonic motion b) Determine the acceleration, g due to gravity using simple pendulum.	LOD 2 – Practical Skills	P1 – Perception P2 – Set P3 – Guided Response	Critical Thinking and Problem Solving (CTPS 3)	*Scoring rubric* (As attached)
3. Lab Report (individual)	7	Simple harmonic motion	7.3 Period of simple harmonic motion b) Determine the acceleration, g due to gravity using simple pendulum.	LOD 6 - Problem solving and scientific skills.	C1 – Remembering C2 – Understanding C3 – Application C4 – Analysing	Critical Thinking and Problem Solving (CTPS 3)	*Scoring rubric* (As attached)

Prepared By: *Checked By:*   *Endorsed By:*

………………………………………………   ……………………………………………   ……………………………………………………
(Head of Unit/ Lecturer)   (Head of Department)   (Director/ Vice Director)

Official Stamp: Official Stamp: Official Stamp:

Date: Date: Date:

Note: JST1 will be given to each student at the beginning of Semester 1.

1 copy needs to be kept in:
i.   Course file
ii.   Teaching portfolio
iii. Student portfolio

CONTINUOUS ASSESSMENT FEEDBACK
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Details	Task		
	Assignment	**Practical Test**	**Practical Test Report**
Attribute's strength			
Attribute that can be improved			
Others			
Examiner Name & Signature			
Date			

Student's confirmation

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Note (follow-up session if necessary)			
Student's Signature			
Date			

Note: This feedback form will be given to each student in the first week of semester. Students need to submit this form to their respective lecturer for every continuous assessment (PB) assigned.

TASK SPESIFICATIONS
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Stream :	**SCIENCE**		Session :	**2022/2023**	
Module :	**I, II**		Semester :	**I**	
Course :	**PHYSICS**		Class :	**K1T1, K1T2, K2T3, K2T4, K3T5, K3T6**	
Code:	**SP015**				
Course Learning Outcome (CLO) :	**CLO 3 – Solve problems related to physics of motion, forces and energy, waves, matter and thermodynamics problems by applying basic concepts and principles in physics.** **(C 4, PLO 4, CTPS 3, MQF LOD 6)**				
Type of Assessment:	**Written Assignment**				
Topic :	**6.0 Rotational of rigid body**				
Assesment Objectives:	**Students should be able to:** a) **Solve problem related to rotational motion with constant angular acceleration in rotational kinematics.** b) **Solve problems related to equilibrium of a uniform rigid body.** c) **Define and use the moment of inertia of a uniform rigid body.** d) **State and use torque, $\mid = I \langle$** e) **Define and use angular momentum, $L = I\,\omega$** f) **State and use principle of conservation of angular momentum.**				
Student Learning Time:	**F2F** **0.00**	**NF2F** **3.00**	Weightage (%):	**10**	
Date Set:	**3.10.2022**		Date of Submission:	**17.10.2022**	
Learning Outcomes Domain :	**MQF LOD 6: *Problem Solving***		Taxonomy Level :	**C1 *: Remembering*** **C2 *: Understanding*** **C3 *: Application*** **C4 *: Analysing***	
Assesment Criteria :	**Marking scheme** **Scoring rubric (Attached)**				

Scoring Rubric:

LEARNING OUTCOMES ASSESSMENT GUIDES

Attribute 1 – Critical thinking, problem solving, information management and lifelong learning skills rubric.

Subattribute	1	2	3	4	5
Allocated mark	$\left(\dfrac{Mark\ earned}{Total\ marks}\right) \times 80$				
Originality	Student's solution have 76% to 99% similarity with other students.	Student's solution have 51% to 75% similarity with other students.	Student's solution have 26% to 50% similarity with other students.	Student's solution have 25% or less similarity with other students.	All the solutions is written in student's own word.
Solution methods	Less than 25% solutions are written in correct sequence.	25% to 49% solutions are written in correct sequence.	50% to 74% solutions are written in correct sequence.	75% to 99% solutions are written in correct sequence.	All solutions are written in the correct sequence (1a,1b, 1c, 2a, 2b, 2c).
	Solutions for 3 different questions is written on the same page.	Solution for 1 out of 4 questions are written on a new page.	Solutions for 2 out of 4 questions are written on a new page.	Solutions for 3 out of 4 questions are written on a new page.	The solutions for all 4 questions are written on a new page.
	Less than 20% of the solution method contains formulas and diagrams.	20% of the solution method contains formulas and diagrams.	40% of the solution method contains formulas and diagrams.	60% of the solution method contains formulas and diagrams.	80% of the solution method contains formulas and diagrams.

Late submission:

1. Students are responsible to complete and submit their work before/on the date of submission.

2. Date of submission for each component/full assignment are written clearly on the front page of the assignment handouts.

3. Any late submission will result in penalty of 5% deduction from total mark for **EACH DAY** after date of submission.

4. Assignment will be marked based on the respective total mark allocation before penalty.

5. For example, if the total mark allocation for a coursework is 60%, thus students will be penalised for 3 marks each day of their late submission (5% x 60 = 3). If a student is originally awarded with 48/60 for his/her assignment and submitted 2 days late, thus 6 marks will be deducted (48 - 6 = 42). The final mark will be 42%.

6. Table for mark penalty for each assignment according to their percentage:

Days of late submission	% of mark penalty		
	Coursework = 100%	Coursework = 60%	Coursework = 50%
1	5	3	2.5
2	10	6	5.0
3	15	9	7.5
4	20	12	10.0
5	25	15	12.5
6	30	18	15.0
7	35	21	17.5
8	40	24	20.0
9	45	27	22.5
10	50	30	25.0
11	55	33	27.5
12	60	36	30.0
13	65	39	32.5
14	70	42	35.0
15	75	45	37.5
16	80	48	40.0
17	85	51	42.5
18	90	54	45.0
19	95	57	47.5
ε20	100	60	50.0

7. Students are not allowed to submit a new assignment after date of submission to improve their mark.

8. If a student is not able to submit before/on the date of submission due to poor health/formal events, he/she must provide evidence (MC/formal letter) respectively.

Academic Integrity :

1. Students need to take into account three important aspects in academic integrity: **plagiarisms, copying and late submission.**

2. Each assignment will be marked thoroughly for its academic integrity apart from main facts, supporting facts and any information after submission.

3. Disobeying of any of these academic integrity component will affect student's mark accordingly.

4. Plagiarism is defined as :

    i. An act to copy part of/all information completely from other sources and claim as self-effort intellectual product.

    ii. To display other's intellectual product as their own.

    iii. To copy/plagiarize other's intellectual product without any citations.

5. Students are not allowed to copy other's work. No mark will be awarded to those who involve in this kind of act.

Assessment Criteria

Assignments will be marked based on the rubric attached together accordingly.

Prepared by:	*Checked by:*	*Endorsed By:*
……………………………	……………………………	………………………………
(Head of Unit/ Lecturer)	(Head of Department)	(Director/ Vice Director)
Official Stamp:	Official Stamp:	Official Stamp:
Date:	Date:	Date:

STUDENT'S DECLARATION
MATRICULATION PROGRAMME, MINISTRY OF EDUCATION MALAYSIA

Student's Name :	Course :	Matric No. :
	Code :	
Assignment Title :		

Student's Declaration

I hereby declare that this task is my original work except for the citations and summaries of which I acknowledged the source.

Signature :

Nama :

Date :

Note: This form needs to be attached together with written/printed/model assignment and submitted to the respective lecturer for evaluation.

CONTINUOUS ASSESSMENT FEEDBACK
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Attribute's strength			
Attribute that can be improved			
Others			
Examiner Name & Signature			
Date			

Student's confirmation

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Note (follow-up session if necessary)			
Student's Signature			
Date			

Note: This feedback form will be given to each student in the first week of semester. Students need to submit this form to their respective lecturer for every continuous assessment (PB) assigned.

ASSIGNMENT RUBRIC

Nama   :

Matric No. :

Tutorial   :

Subattribute	1	2	3	4	5	SCORE
Allocated mark	$\left(\dfrac{Mark\ earned}{Total\ marks}\right) \times 80$					
Originality	Student's solution have 76% to 99% similarity with other students.	Student's solution have 51% to 75% similarity with other students.	Student's solution have 26% to 50% similarity with other students.	Student's solution have 25% or less similarity with other students.	All the solutions is written in student's own word.	
Solution methods	Less than 25% solutions are written in correct sequence.	25% to 49% solutions are written in correct sequence.	50% to 74% solutions are written in correct sequence.	75% to 99% solutions are written in correct sequence.	All solutions are written in the correct sequence (1a,1b, 1c, 2a, 2b, 2c).	
	Solutions for 3 different questions is written on the same page.	Solution for 1 out of 4 questions are written on a new page.	Solutions for 2 out of 4 questions are written on a new page.	Solutions for 3 out of 4 questions are written on a new page.	The solutions for all 4 questions are written on a new page.	
	Less than 20% of the solution method contains formulas and diagrams.	20% of the solution method contains formulas and diagrams.	40% of the solution method contains formulas and diagrams.	60% of the solution method contains formulas and diagrams.	80% of the solution method contains formulas and diagrams.	
TOTAL MARKS (100)						
TOTAL PERCENTAGE (10 %)						

Evaluated by:

……………………………..

CONTINOUS ASSESSMENT TABLE

	CONTINUOUS ASSESSMENT *MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME* *SARAWAK MATRICULATION COLLEGE*		
Stream:	**SCIENCE**	Session:	**2022/2023**
Module:	**I, II**	Semester:	**2**
Course:	**PHYSICS**	Class:	**K1T1, K1T2, K2T3, K2T4, K3T5, K3T6**
Code:	**SP025**		

Course Learning Outcome (CLO)	Task	Student Learning Time		Weightage (%)	Date Set	Date of Submission
		F2F	NF2F			
CLO 2 - Solve problems of electricity, magnetism, optics and modern physics. (C4, PLO 2, MQF LOC ii)	Assignment 1 (Individual)	0	2.0	10	27/2/2023	13/2/2023
	Practical Test Lab Report (Individual)	1.0	3.0	15	3/4/2023 – 14/4/2023	Based on the schedule
CLO 3 - Apply the appropriate scientific laboratory skills in physics experiments. (P3, PLO 3, MQF LOC iii a)	Practical Test Experiment (Individual)	1.0	3.0	10	3/4/2023 – 14/4/2023	Based on the schedule
CLO 4 - Interpret and use familiar and uncomplicated numerical and graphical data to solve problems in physics (C4, PLO 7, MQF LOC iii e)	Assignment 2 (Individual)	0	1.0	5	27/2/2023	13/2/2023

Continuous Assessment Details

Task	Topic	Assesment Objectives	Learning Outcomes Clusters	Taxonomy Level	Transferable Skills	Assesment Criteria
1. Assignment 1 (Individual)	4.0 Magnetism	4.1 Magnetic field a) Define magnetic field. b) Identify magnetic field sources. *e.g: Bar magnet & current-carrying conductor (straight wire, circular coil, and solenoid), Earth magnetic field* c) Sketch magnetic field lines for: i. bar magnet and current-carrying conductor (straight wire, circular coil, and solenoid); and ii. Earth magnetic field. 4.2 Resultant magnetic field produced by current-carrying conductor a) Sketch and determine resultant magnetic field diagram at a point *limited to two current carrying straight wires and 2D* b) Determine direction of $\vec{B}$ by using right hand rule. c) Determine the magnitude of magnetic field by using: i. $B = \frac{\mu_o I}{2\pi r}$ for a long straight wire; ii. $B = \frac{\mu_o I}{2r}$ at the centre of a circular coil; iii. $B = \mu_o n I$ at the centre of a solenoid; and iv. $B = \frac{1}{2}\mu_o n I$ at the end of a solenoid.	LOC ii) - Cognitive skills	C1 – Remembering C2 – Understanding C3 – Application C4 – Analysing	Critical Thinking bgand Problem Solving (CTPS 3)	*1.Scoring rubric* (As attached) *2. Marking scheme*

Task	Topic	Assesment Objectives	Learning Outcomes Clusters	Taxonomy Level	Transferable Skills	Assesment Criteria
		4.3 Force on a moving charged particle in a uniform magnetic field a) Explain and use magnetic force, $\vec{F} = q\vec{v} \times \vec{B}$ b) Determine the direction of force. c) Describe circular motion of a charge in a uniform magnetic field. d) Use relationship of magnetic force, $F_B = F_c$ 4.4 Force on a current carrying conductor in a uniform magnetic field a) Explain and use magnetic force, $\vec{F} = I\vec{l} \times \vec{B}$ b) Determine the direction of force 4.5 Forces between two parallel current-carrying conductors a) Explain magnetic force per unit length of two parallel current-carrying conductors. b) Apply magnetic force per unit length, $\frac{F}{l} = \frac{\mu_o I_1 I_2}{2\pi d}$ 4.6 Application of motion of charged particle a) Explain the motion of a moving charged particle in magnetic field and electric field for v, B and E perpendicular to each other. b) Use velocity, $v = \frac{E}{B}$ in a velocity selector. *e.g: Bainbridge mass spectrometer*				

Task	Topic	Assesment Objectives	Learning Outcomes Clusters	Taxonomy Level	Transferable Skills	Assesment Criteria
2. Practical Test (Individual)	1.0 Electric current and direct-current circuits	3.2. Ohm's law and resistivity a) Verify Ohm's law b) determine the effective resistance of the resistors in series and parallel by graphing method	LOC iii a) Functional work skills with focus on : Practical skills	P1 – Perception P2 – Set P3 – Guided Response	Critical Thinking and Problem Solving (CTPS 3)	*Scoring rubric* (As attached)
3. Lab Report (individual)	1.0 Electric current and direct-current circuits	3.2. Ohm's law and resistivity a) Verify Ohm's law b) determine the effective resistance of the resistors in series and parallel by graphing method	LOC ii) - Cognitive skills	C1 – Remembering C2 – Understanding C3 – Application C4 – Analysing	Critical Thinking and Problem Solving (CTPS 3)	*Scoring rubric* (As attached)
4. Assignment 2 (Individual)	4.0 Magnetism	To assess a sample of student work, the lecturer will determine the level to which the student has demonstrated the following outcomes. 1) Analyze a given problem by a) formulating a question b) identifying relevant information c) identifying missing information d) finding additional information needed 2. Represent the information by using a graph, chart, equation, formula, spreadsheet, pictorial representation, etc. for the given problem. 3. Decision making - The thought process of selecting a solution from several alternatives. 4. Method - with or without technology to achieve correct mathematical method using correct units of measurement.	LOC iii e) Functional work skills with focus on : Numeracy skills	C1 – Remembering C2 – Understanding C3 – Application C4 – Analysing	Critical Thinking and Problem Solving (CTPS 3)	*Marking scheme*

Note: JST2 will be given to each student in the beginning of semester 2. **ONE** copy needs to be kept in: i. Course file
                                                                                                                  ii. Teaching portfolio
                                                                                                                  iii. Student portfolio

CONTINUOUS ASSESSMENT FEEDBACK
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Attribute's strength			
Attribute that can be improved			
Others			
Examiner Name & Signature			
Date			

Student's confirmation

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Note (follow-up session if necessary)			
Student's Signature			
Date			

Note: This feedback form will be given to each student in the first week of semester. Students need to submit this form to their respective lecturer for every continuous assessment (PB) assigned.

TASK SPESIFICATIONS
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Stream :	**SCIENCE**		Session :	**2022/2023**
Module :	**I, II**		Semester :	**2**
Course :	**PHYSICS**		Class :	**K1T1, K1T2, K2T3, K2T4, K3T5, K3T6**
Code:	**SP025**			
Course Learning Outcome (CLO) :	**CLO 3 – Solve problems of electric current, electronics, magnetism, optics, quantization of light, wave properties of particles and nuclear physics.** **(C 4, PLO 4, CTPS 3, MQF LOD 6)**			
Type of Assessment:	**Written Assignment**			
Topic :	**4.0 Magnetism**			
Assesment Objectives:	**Students should be able to:** **a) Solve problems related to magnetic field, resultant magnetic field produced by current-carrying conductor, force on a moving charged particle in a uniform magnetic field, force on a current carrying conductor in a uniform magnetic field, forces between two parallel current-carrying conductors, torque on a coil and application of motion of charged particle** **b) Determine the magnitude of magnetic field by using:** (i) $\beta = \frac{\mu_0 I}{2\pi r}$ **for a long straight wire.** (ii) $\beta = \frac{\mu_0 I}{2r}$ **at the centre a circular coil** (iii) $\beta = \mu_0 n I$ **at the centre a solenoid.** (iv) $\beta = \frac{1}{2}\mu_0 n I$ **at the end a solenoid.** a) **Determine direction of force.**			

Student Learning Time:	F2F	NF2F	Weightage (%) :	**10**
	0.00	**3.00**		

Date Set:	**27.02.2023**		Date of Submission:	**13.03.2023**
Learning Outcomes Domain :	**MQF LOD 6:** *Problem Solving*		Taxonomy Level :	*C1 : Remembering* *C2 : Understanding* *C3 : Application* *C4 : Analysing*
Assesment Criteria :	**Scoring rubric (Attached)**			

Scoring Rubric:

LEARNING OUTCOMES ASSESSMENT GUIDES

Attribute 1 – Critical thinking, problem solving, information management and lifelong learning skills rubric.

Subattribute	1	2	3	4	5
Allocated mark	$\left(\dfrac{\text{Mark earned}}{\text{Total marks}}\right) \times 80$				
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Solution methods	Less than 25% solutions are written in correct sequence.	25% to 49% solutions are written in correct sequence.	50% to 74% solutions are written in correct sequence.	75% to 99% solutions are written in correct sequence.	All solutions are written in the correct sequence (1a,1b, 1c, 2a, 2b, 2c).
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Late submission:

1.   Students are responsible to complete and submit their work before/on the date of submission.

2.   Date of submission for each component/full assignment are written clearly on the front page of the assignment handouts.

3.   Any late submission will result in penalty of 5% deduction from total mark for **EACH DAY** after date of submission.

4.   Assignment will be marked based on the respective total mark allocation before penalty.

5.   For example, if the total mark allocation for a coursework is 60%, thus students will be penalised for 3 marks each day of their late submission (5% x 60 = 3). If a student is originally awarded with 48/60 for his/her assignment and submitted 2 days late, thus 6 marks will be deducted (48 - 6 = 42). The final mark will be 42%.

6.   Table for mark penalty for each assignment according to their percentage:

Days of late submission	% of mark penalty		
	Coursework = 100%	Coursework = 60%	Coursework = 50%
1	5	3	2.5
2	10	6	5.0
3	15	9	7.5
4	20	12	10.0
5	25	15	12.5
6	30	18	15.0
7	35	21	17.5
8	40	24	20.0
9	45	27	22.5
10	50	30	25.0
11	55	33	27.5
12	60	36	30.0
13	65	39	32.5
14	70	42	35.0
15	75	45	37.5
16	80	48	40.0
17	85	51	42.5
18	90	54	45.0
19	95	57	47.5
≥20	100	60	50.0

7.   Students are not allowed to submit a new assignment after date of submission to improve their mark.

8.   If a student is not able to submit before/on the date of submission due to poor health/formal events, he/she must provide evidence (MC/formal letter) respectively.

Academic Integrity:

1. Students need to take into account three important aspects in academic integrity: **plagiarisms, copying and late submission.**

2. Each assignment will be marked thoroughly for its academic integrity apart from main facts, supporting facts and any information after submission.

3. Disobeying of any of these academic integrity component will affect student's mark accordingly.

4. Plagiarism is defined as :

    i.   An act to copy part of/all information completely from other sources and claim as self-effort intellectual product.

    ii. To display other's intellectual product as their own.

    iii. To copy/plagiarise other's intellectual product without any citations.

5. Students are not allowed to copy other's work. No mark will be awarded to those who involve in this kind of act.

Assessment Criteria

Assignments will be marked based on the rubric attached together accordingly.

Prepared by: *Verified by:*   *Endorsed By:*

………………………………….   …………………………………   ………………………………………
(Head of Unit/ Lecturer)   (Head of Department)   (Director/ Vice Director)

Official Stamp: Official Stamp: Official Stamp:

Date: Date: Date:

STUDENT'S DECLARATION
MATRICULATION PROGRAMME, MINISTRY OF EDUCATION MALAYSIA

Student's Name :	Course :	Matric No. :
	Code :	
Assignment Title :		

Student's Declaration

I hereby declare that this task is my original work except for the citations and summaries of which I acknowledged the source.

Signature :

Nama :

Date :

Note: This form needs to be attached together with written/printed/model assignment and submitted to the respective lecturer for evaluation.

CONTINUOUS ASSESSMENT FEEDBACK
MINISTRY OF EDUCATION MALAYSIA MATRICULATION PROGRAMME

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Attribute's strength			
Attribute that can be improved			
Others			
Examiner Name & Signature			
Date			

Student's confirmation

Details	Task		
	Assigment	**Practical Test**	**Practical Test Report**
Note (follow-up session if necessary)			
Student's Signature			
Date			

Note: This feedback form will be given to each student in the first week of semester. Students need to submit this form to their respective lecturer for every continuous assessment (PB) assigned.

SARAWAK MATRICULATION COLLEGE
PHYSICS 2 SP025
SEMESTER 2, SESSION 2022/2023

ASSIGNMENT RUBRIC

Nama　　　　:

Matric No.　:

Tutorial　　:

Subattribute	1	2	3	4	5	SCORE
Allocated mark	$\left(\dfrac{\text{Mark earned}}{\text{Total marks}}\right) \times 80$					
Originality	Student's solution have 76% to 99% similarity with other students.	Student's solution have 51% to 75% similarity with other students.	Student's solution have 26% to 50% similarity with other students.	Student's solution have 25% or less similarity with other students.	All the solutions is written in student's own word.	
Solution methods	Less than 25% solutions are written in correct sequence.	25% to 49% solutions are written in correct sequence.	50% to 74% solutions are written in correct sequence.	75% to 99% solutions are written in correct sequence.	All solutions are written in the correct sequence (1a,1b, 1c, 2a, 2b, 2c).	
	Solutions for 3 different questions is written on the same page.	Solution for 1 out of 4 questions are written on a new page.	Solutions for 2 out of 4 questions are written on a new page.	Solutions for 3 out of 4 questions are written on a new page.	The solutions for all 4 questions are written on a new page.	
	Less than 20% of the solution method contains formulas and diagrams.	20% of the solution method contains formulas and diagrams.	40% of the solution method contains formulas and diagrams.	60% of the solution method contains formulas and diagrams.	80% of the solution method contains formulas and diagrams.	
TOTAL MARKS (100)						
TOTAL PERCENTAGE (10 %)						

Evaluated by;

…………………………….