# KOLEJ MATRIKULASI SARAWAK
## LESSON PLAN
## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 1 | | | | |
| **CHAPTER** | Chapter 1: Physical Quantities And Measurements | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 06/08/2021 0800hrs BT1 | K3 | 1.1a Define dimension.<br>1.2a Define scalar and vector quantities.<br>1.3a State the significant figures of a given number.<br>1.3e State the sources of uncertainty in the results of an experiment. | Discussions<br><br>Thought Experiments<br><br>Activities | ITEM *Appendix / SCORE<br>i / 6<br>ii / 5<br>iii / 6<br>iv / 5<br>v / 6 | All objectives achieved. Students are able to understand the materials of the topic. |

Prepared by,

SHAFIQ BIN RASULAN
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MARY GWADOLINE YUSUS
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## LESSON PLAN
## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 2 | | | | |
| **CHAPTER** | Chapter 2: Kinematics Of Motions | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

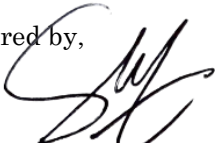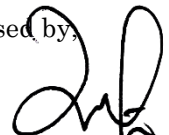| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 13/08/2021 0800hrs BT1 | K3 | 2.1a Define instantaneous velocity, average velocity, uniform velocity, instantaneous acceleration, average acceleration and uniform acceleration.<br>2.1b Interpret the physical meaning of displacement-time, velocity-time and acceleration-time graphs. Refer Equation 1. | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><th>ITEM *Appendix</th><th>SCORE</th></tr><tr><td>i</td><td>6</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> | All objectives achieved. Students are able to understand the materials of the topic. |

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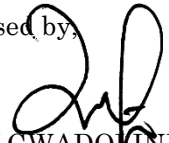Sarawak Matriculation College
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# SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | | | |
|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | |
| **WEEK** | 3 | | | | | | |
| **CHAPTER** | Chapter 2: Kinematics Of Motions<br>Chapter 3: Dynamics Of Linear Motion | | | | | | |
| **MODE** | Lectures | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 20/08/2021 0800hrs BT1 | K3 | 2.3a Describe projectile motion launched at an angle, as well as special cases when angle is zero<br>3.1a Define momentum and impulse, refer equation 2<br>3.2a State the principle of conservation of linear momentum. | Discussions<br><br>Thought Experiments<br><br>Activities | **ITEM** *Appendix* | **SCORE** | All objectives achieved. Students are able to understand the materials of the topic. |
| | | | | **i** | 6 | |
| | | | | **ii** | 6 | |
| | | | | **iii** | 5 | |
| | | | | **iv** | 6 | |
| | | | | **v** | 6 | |

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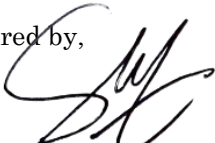Sarawak Matriculation College
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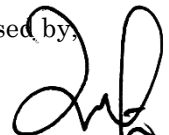Sarawak Matriculation College
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## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 4 | | | | |
| **CHAPTER** | Chapter 3: Dynamics Of Linear Motion | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

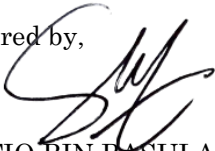| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 27/08/2021 0800hrs BT1 | K3 | 3.2c Differentiate elastic and inelastic collisions. (remarks: similarities & differences)<br>3.3a Identify the forces acting on a body in different situations:<br>i. Weight, W; ii. Tension, T; iii. Normal force, N; iv. Friction, f; and<br>v. External force (pull or push), F.<br>3.4a State Newton's laws of motion. | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><td>ITEM *Appendix</td><td>SCORE</td></tr><tr><td>i</td><td>6</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>6</td></tr></table> | All objectives achieved. Students are able to understand the materials of the topic. |

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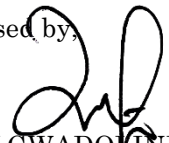Sarawak Matriculation College
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# LESSON PLAN
# SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 5 | | | | |
| **CHAPTER** | Chapter 4: Work, Energy And Power | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 03/09/2021 0800hrs BT1 | K3 | 4.1a State the physical meaning of dot (scalar) product for work, refer equation 4. <br> 4.1b Define and apply work done by a constant force. <br> 4.2a Define and use: i. Gravitational potential energy, ii. Elastic potential energy for spring, iii. Kinetic energy. (Refer Equation 5) | Discussions <br><br> Thought Experiments <br><br> Activities | <table><tr><th>ITEM *Appendix</th><th>SCORE</th></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> | All objectives achieved. Students are able to understand the materials of the topic. |

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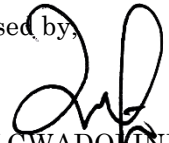Sarawak Matriculation College
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| LECTURER | SHAFIQ BIN RASULAN | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | | |
| **WEEK** | 6 | | | | | | | |
| **CHAPTER** | Chapter 4: Work, Energy And Power<br>Chapter 5: Circular Motion | | | | | | | |
| **MODE** | Lectures | | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | | |
| **SLT** | **F2F (hour):** | | 1 | **NF2F (hour):** | | 1 | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 10/09/2021 0800hrs BT1 | K3 | 4.2b State the principle of conservation of energy.<br>4.2d State and apply work-energy theorem (Refer equation 5)<br>4.3a Define and use average power and instantaneous power (Refer Equation 6)<br>5.1a Define and use: i. angular displacement, $\theta$ ii. period, T iii. frequency, f iv. angular velocity, $\omega$<br>5.2a Describe uniform circular motion. | Discussions<br><br>Thought Experiments<br><br>Activities | **ITEM** *Appendix* <br> i <br> ii <br> iii <br> iv <br> v | **SCORE** <br> 5 <br> 5 <br> 5 <br> 6 <br> 6 | All objectives achieved. Students are able to understand the materials of the topic. |

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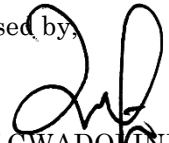Sarawak Matriculation College
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| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 7 | | | | |
| **CHAPTER** | Chapter 5: Circular Motion<br>Chapter 6: Rotation Of Rigid Body | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

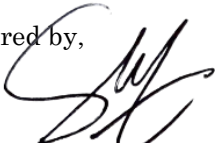| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 17/09/2021 0800hrs BT1 | K3 | 5.3a  Explain centripetal acceleration and centripetal force (Refer equation 7)<br>6.1a Define and use: iangular displacement, θ; ii. average angular velocity, ωav, iii. instantaneous angular velocity, ω; iv. average angular acceleration, αav; and v. instantaneous angular acceleration, α.<br>6.2a State the physical meaning of cross (vector) product for torque (Refer equation 9)<br>6.2b Define and apply torque.<br>6.2c State conditions for equilibrium of rigid body, $\Sigma F = 0$, $\Sigma \tau = 0$ | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><td>ITEM *Appendix</td><td>SCORE</td></tr><tr><td>i</td><td>6</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> | All objectives achieved. Students are able to understand the materials of the topic. |

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| LECTURER | SHAFIQ BIN RASULAN | | | | | | |
|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | |
| **WEEK** | 8 | | | | | | |
| **CHAPTER** | Chapter 6: Rotation Of Rigid Body | | | | | | |
| **MODE** | Lectures | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 24/09/2021 0800hrs BT1 | K3 | 6.3a Define and use moment of inertia (Refer equation 10)<br>6.3d State and use net torque (Refer equation 10)<br>6.4a Explain and use angular momentum (Refer equation 11)<br>6.4b State and use principle of conservation of angular momentum. | Discussions<br><br>Thought Experiments<br><br>Activities | **ITEM** *Appendix* / **SCORE**<br>i — 6<br>ii — 6<br>iii — 6<br>iv — 6<br>v — 5 | | All objectives achieved. Students are able to understand the materials of the topic. |

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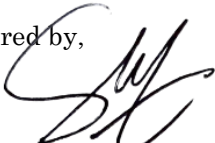Sarawak Matriculation College
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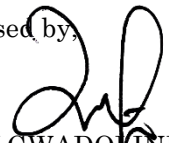Sarawak Matriculation College
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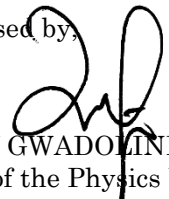
**KOLEJ MATRIKULASI SARAWAK**
**LESSON PLAN**
**SEMESTER I SESSION 2021/2022**

| LECTURER | SHAFIQ BIN RASULAN | | | | | | |
|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | |
| **WEEK** | 9 | | | | | | |
| **CHAPTER** | Chapter 7: Oscillations And Waves | | | | | | |
| **MODE** | Lectures | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 01/10/2021 0800hrs BT1 | K3 | 7.1a Explain SHM. <br> 7.1d Emphasise the relationship between total SHM energy and amplitude. | Discussions <br><br> Thought Experiments <br><br> Activities | **ITEM** *Appendix* | **SCORE** | All objectives achieved. Students are able to understand the materials of the topic. |
| | | | | i | 6 | |
| | | | | ii | 6 | |
| | | | | iii | 5 | |
| | | | | iv | 5 | |
| | | | | v | 5 | |

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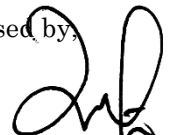Sarawak Matriculation College
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| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 10 | | | | |
| **CHAPTER** | Chapter 7: Oscillations And Waves | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

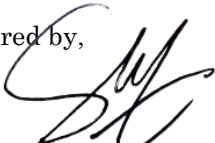| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 14/10/2021 0800hrs BT1 | K3 | 7.4a Define wavelength.<br>7.4b Define and use wave number (Refer equation 14)<br>7.4d Distinguish between particle vibrational velocity and wave propagation velocity. | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><td>ITEM *Appendix</td><td>SCORE</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> | All objectives achieved. Students are able to understand the materials of the topic. |

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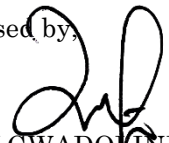Sarawak Matriculation College
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|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | |
| **WEEK** | 11 | | | |
| **CHAPTER** | Chapter 7: Oscillations And Waves | | | |
| **MODE** | Lectures | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 21/10/2021 0800hrs BT1 | K3 | 7.5a State the principle of superposition of waves for the constructive and destructive interferences. <br> 7.5c Compare between progressive waves and standing waves. | Discussions <br><br> Thought Experiments <br><br> Activities | <table><tr><td>**ITEM** *Appendix*</td><td>**SCORE**</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>5</td></tr></table> | All objectives achieved. Students are able to understand the materials of the topic. |

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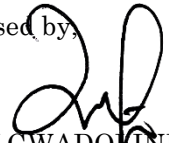Sarawak Matriculation College
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|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | |
| **WEEK** | 12 | | | | | | |
| **CHAPTER** | Chapter 7: Oscillations And Waves<br>Chapter 8: Physics Of Matter | | | | | | |
| **MODE** | Lectures | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 28/10/2021 0800hrs BT1 | K3 | 7.7a State Doppler Effect for sound waves.<br>8.1c Explain elastic and plastic deformations. | Discussions<br><br>Thought Experiments<br><br>Activities | **ITEM** *Appendix* | **SCORE** | All objectives achieved. Students are able to understand the materials of the topic. |
| | | | | i | 5 | |
| | | | | ii | 6 | |
| | | | | iii | 6 | |
| | | | | iv | 6 | |
| | | | | v | 6 | |

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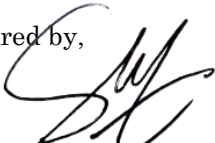Sarawak Matriculation College
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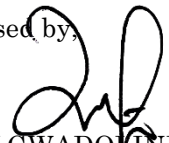Sarawak Matriculation College
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|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 13 | | | | |
| **CHAPTER** | Chapter 8: Physics Of Matter | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 04/11/2021 0800hrs BT1 | K3 | 8.2a Define and use Young's Modulus (Refer equation 19) | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><td>**ITEM** *Appendix*</td><td>**SCORE**</td></tr><tr><td>i</td><td>5</td></tr><tr><td>ii</td><td>6</td></tr><tr><td>iii</td><td>5</td></tr><tr><td>iv</td><td>6</td></tr><tr><td>v</td><td>5</td></tr></table> | All objectives achieved. Students are able to understand the materials of the topic. |

Prepared by,

SHAFIQ BIN RASULAN
Physics Lecturer
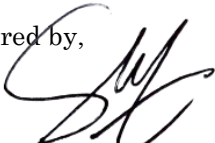Sarawak Matriculation College
Date:

Endorsed by,

MARY GWADOLINE YUSUS
Head of the Physics Unit
Sarawak Matriculation College
Date:

# KOLEJ MATRIKULASI SARAWAK
# LESSON PLAN
# SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | | | | |
| **WEEK** | 14 | | | | | | | |
| **CHAPTER** | Chapter 8: Physics Of Matter | | | | | | | |
| **MODE** | Lectures | | | | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | | | | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | | REMARKS |
|---|---|---|---|---|---|---|
| Friday 11/11/2021 0800hrs BT1 | K3 | 8.3a Define heat conduction. | Discussions  Thought Experiments  Activities | **ITEM** *Appendix* | **SCORE** | All objectives achieved. Students are able to understand the materials of the topic. |
| | | | | i | 6 | |
| | | | | ii | 6 | |
| | | | | iii | 6 | |
| | | | | iv | 6 | |
| | | | | v | 6 | |

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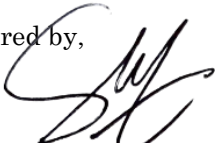Sarawak Matriculation College
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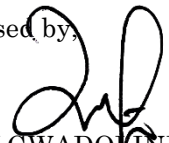Sarawak Matriculation College
Date:

# KOLEJ MATRIKULASI SARAWAK
## LESSON PLAN
## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| CODE / COURSE | SP015 | | | | |
| WEEK | 15 | | | | |
| CHAPTER | Chapter 8: Physics Of Matter | | | | |
| MODE | Lectures | | | | |
| CLO | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| SLT | F2F (hour): | 1 | NF2F (hour): | 1 | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 18/11/2021 0800hrs BT1 | K3 | 8.4a Define coefficient of linear expansion, α, area expansion, β and volume expansion, γ | Discussions  Thought Experiments  Activities | ITEM *Appendix / SCORE<br>i / 5<br>ii / 5<br>iii / 6<br>iv / 5<br>v / 6 | All objectives achieved. Students are able to understand the materials of the topic. |

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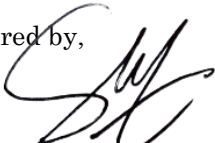Sarawak Matriculation College
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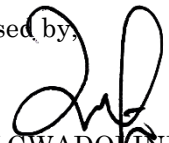Sarawak Matriculation College
Date:

# KOLEJ MATRIKULASI SARAWAK
## LESSON PLAN
## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 16 | | | | |
| **CHAPTER** | Chapter 9: Kinetic Theory Of Gases And Thermodynamics | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

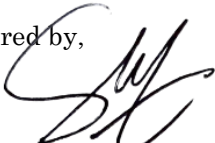| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 25/11/2021 0800hrs BT1 | K3 | 9.1a State the assumptions of kinetic theory of gases.<br>9.1b Describe root mean square (rms) speed of gas molecules (Refer equation 22)<br>9.2a Explain and use translational kinetic energy of a molecule (Refer equation 23)<br>9.2b Define degree of freedom.<br>9.2c Identify number of degrees of freedom, ffor monoatomic, diatomic and polyatomic gas molecules. | Discussions<br><br>Thought Experiments<br><br>Activities | <table><tr><th>ITEM *Appendix</th><th>SCORE</th></tr><tr><td>i</td><td>6</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> | All objectives achieved. Students are able to understand the materials of the topic. |

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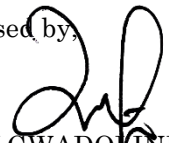Sarawak Matriculation College
Date:

# KOLEJ MATRIKULASI SARAWAK
## LESSON PLAN
## SEMESTER I SESSION 2021/2022

| LECTURER | SHAFIQ BIN RASULAN | | | | |
|---|---|---|---|---|---|
| **CODE / COURSE** | SP015 | | | | |
| **WEEK** | 17 | | | | |
| **CHAPTER** | Chapter 9: Kinetic Theory Of Gases And Thermodynamics | | | | |
| **MODE** | Lectures | | | | |
| **CLO** | CLO1: Describe basic concepts of mechanics, wave, matters, heat and thermodynamics | | | | |
| **SLT** | **F2F (hour):** | 1 | **NF2F (hour):** | 1 | |

| DAY DATE TIME VENUE | CLASS | LEARNING OUTCOME | T&L STRATEGIES & TOOLS | REFLECTION | REMARKS |
|---|---|---|---|---|---|
| Friday 02/12/2021 0800hrs BT1 | K3 | 9.2d State the principle of equipartition of energy.<br>9.2e Discuss internal energy of gas.<br>9.3a State the First Law of Thermodynamics (Refer equation 24)<br>9.4a Define the following thermodynamic processes: i. Isothermal; ii. Isochoric; iii. Isobaric and iv. Adiabatic.<br>9.4b Analyse P-V graph for all the thermodynamic processes. | Discussions<br><br>Thought Experiments<br><br>Activities | ITEM *Appendix / SCORE:<br>i — 5<br>ii — 6<br>iii — 5<br>iv — 6<br>v — 5 | All objectives achieved. Students are able to understand the materials of the topic. |

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**LESSON PLAN**
**SEMESTER I SESSION 2021/2022**