



**St. Joseph's College**  
**Department of Physics**  
**Teaching Syllabus (2024 – 2025)**

**HKDSE PHYSICS**

	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>
<b>September</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Temperature, heat and internal energy</li> </ul>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Lenses</li> <li>Nature and properties of waves</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Revision</li> <li>Projectile motion</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetic Induction</li> </ul>
<b>October</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Temperature, heat and internal energy</li> </ul>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Nature and properties of waves</li> <li>Light</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Uniform circular motion</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetic Induction</li> </ul> <b>Radioactivity and Nuclear energy</b> <ul style="list-style-type: none"> <li>Radiation and radioactivity</li> <li>Atomic model</li> <li>Nuclear energy</li> </ul>
<b>November</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Temperature, heat and internal energy</li> <li>Change of state</li> </ul>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Light</li> <li>Sound</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Gravitation</li> </ul> <b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Circuit and domestic electricity</li> </ul>	<b>Atomic World</b> <b>Rutherford's atomic model</b> <ul style="list-style-type: none"> <li>Photoelectric effect</li> <li>Bohr's atomic model of hydrogen</li> <li>Particles or waves</li> <li>Probing into nano scale</li> </ul>
<b>December</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Change of state</li> </ul>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Sound</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Circuit and domestic electricity</li> </ul>	<b>Medical Physics</b> <ul style="list-style-type: none"> <li>Making sense of the eye and the ear</li> <li>Medical imaging using non-ionizing radiation</li> <li>Medical imaging using ionizing radiation</li> </ul>
<b>January</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Change of state</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Position and movement</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Circuit and domestic electricity</li> </ul>	<b>Medical Physics</b> <ul style="list-style-type: none"> <li>Making sense of the eye and the ear</li> <li>Medical imaging using non-ionizing radiation</li> </ul>

				radiation <ul style="list-style-type: none"> <li>Medical imaging using ionizing radiation</li> </ul>
<b>February</b>	<b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Change of state</li> <li>Transfer process</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Position and movement</li> <li>Force and motion</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Circuit and domestic electricity</li> </ul>	
<b>March</b>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Reflection of light</li> <li>Refraction of light</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Force and motion</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electrostatics</li> </ul>	
<b>April</b>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Refraction of light</li> <li>Total internal reflection</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Force and motion</li> <li>Work, energy and power</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetism</li> </ul>	
<b>May</b>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Lenses</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Work, energy and power</li> <li>Momentum</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetism</li> <li>Electromagnetic Induction</li> </ul>	
<b>June</b>	<b>Wave Motion</b> <ul style="list-style-type: none"> <li>Lenses</li> </ul>	<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Momentum</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetic Induction</li> </ul>	
<b>July / August</b>		<b>Force and Motion</b> <ul style="list-style-type: none"> <li>Projectile motion</li> </ul>	<b>Electricity and Magnetism</b> <ul style="list-style-type: none"> <li>Electromagnetic Induction</li> </ul> <b>Heat and Gases</b> <ul style="list-style-type: none"> <li>Gases</li> </ul>	

Prepared by,



Mr. Godwin SZETO

Head

Department of Physics