

**St. Mary's College**

**FORM FIVE**

**Subject: PHYSICS CSEC**

**COURSE OUTLINE 2017**

**TERM 1**

<b>Proposed Date/Week</b>	<b>Unit/Section</b>	<b>Topic</b>	<b>Modules</b>
1 - 2	SECTION E	ELECTROSTATICS	1. Electric Charge
	ELECTRICITY & MAGNETISM		2. Electric Fields
3		CURRENT ELECTRICITY	3. Current Electricity
			4. Alternating Current
4		ELECTRICAL QUANTITIES	5. Power and Energy
5 - 8		CIRCUITS & COMPONENTS	6. Circuit Diagrams
			7. Cells
			8. I-V Relationships
			9. Resistance
			10. Electricity in the Home
9		ELECTRONICS	11. Rectification
10		MAGNETISM	12. Permanent Magnets
			13. Magnetic Forces
11 - 15		ELECTROMAGNETISM	14. Electromagnetic Fields
			15. Electromagnetic Force
			16. Motors
			17. Loudspeakers
			18. Induced e.m.f.
			19. Transformers

## TERM 2

Proposed Date/Week	Unit/Section	Topic	Modules
1	SECTION F THE PHYSICS OF THE ATOM	MODELS OF THE ATOM	1. Models of the Atom
2		STRUCTURE OF THE ATOM	2. Particles in the atom
3 - 5		RADIOACTIVITY	3. Radioactive Emissions
			4. Half Life
			5. Radioisotopes
6		NUCLEAR ENERGY	6. Nuclear Energy
7 - 12		REVISION	

## TERM 3

Proposed Date/Week	Unit/Section	Topic	Modules
1	Mechanics/Waves	REVISION	
2	Thermal/Kinetic Theory	REVISION	
3	Electricity/Magnetism/Atomic	REVISION	