

**Course Title: ELECTRICITY & ELECTRONICS (A)**

<b>Unit Title</b>	<b>Line</b>	<b>Unit Description</b>
<b>Term 1: Introduction to Electronics</b>	2	Students will learn to construct simple electronic circuits that illustrate Ohm's Law. They will recognize common electronic components and explain their function. Competently use digital and analog measuring instruments and the cathode ray oscilloscope. Identify electrical hazards and apply safety procedures. Students will explore career opportunities and requirements for the electronics industry and have an awareness of history of the development of the electronics industry.
<b>Term 2: Semiconductor Devices</b>	2	Students will learn the principles behind soldering and to construct simple functional circuits. They will build and analyse simple discrete transistor amplifiers circuits and switching circuits. Describe the operation, application and construction of various types of diodes and transistors. Have an understanding and apply the principles behind amplifiers.