

FCE 132: Physics 1B Course Description

The course covers the following key areas; Wave theory of light. Interference. Diffraction, polarization. Electricity and Magnetism: Electrostatics. Capacitors. Resistors. Current, voltage, power. Ohms law, its applications. Measurements. Networks. Chemical effect of current. Magnetic field. Force on a conductor. Electromagnetic induction. Magnetic properties of matter. A.C. circuits. Electromagnetic waves. Electrons. Electron ballistics. Valves. CRO Junction diode. Transistor. Atomic Physics: Radioactivity. Isotopes. The nucleus. X-rays. Photoelectricity. Energy levels.