A mechanical engineer uses different materials to build machinery or tools. A specific knowledge of materials is required, concerning qualities, properties, costs and general characteristics. When a machine or a tool is made, the most suitable materialmust be chosen by considering its properties, which can be classified as mechanical, thermal, electirical and chemical. Composye materials are made up of to or more materials cobined to improve their mechanical properties concrete is reinforced with steel and is used in building engineering. The main types of materials used in mechanical engineering are metals, ceramics and composite materials. Bronze (formed by mixing cooper and tin) and other alliminium alloys which are used in the aircraft industry. PVC or polyvinyl chloride is a type of plastic used to insulate wires and cables.