

## **0402260 Engineering Materials Science**

(3 Credit hours, Prerequisite - )

The course aims to introduce the student to engineering materials and their mechanical properties. This includes the following topics: chemistry, metallurgy and the engineer. The crystalline structure of metals, mechanical properties of engineering materials (tensile, fatigue, creep ... etc.) and its applications. Electrical properties. The formation of alloys ,heat treatment, composite materials, corrosion and oxidation phenomena.