

**Lukhdhirji Engineering College, Morbi**

**Mechanical Engineering Department**

**Sem.: 5<sup>th</sup>**

**Subject: Mfg. Technology**

**Subject Code: 3151912**

**Assignment 4: Forming and Shaping processes (CO2)**

1. State the material properties which are important in metal forming.
2. Describe the terms: ingot, slab, bloom and billet.
3. Discuss defects, causes and remedies of forging defects.
4. Describe the piercing and blanking processes.
5. Explain forward and backward extrusion process with suitable sketch.
6. What is the significance of recrystallisation temperature in metal working?
7. What are the advantages of hot working over cold working of metals?
8. Explain the upsetting and drawing down operation with neat sketch.
9. How the tube is manufacturing?
10. Explain strain hardening in foeming process.

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**Vision of the Department:**

To deliver quality engineering education for Mechanical Engineers with Professional competency, Human values and Acceptability in the society.

**Mission of the Department:**

- To nurture engineers with basic and advance mechanical engineering concepts
- To impart Techno-Managerial skill in students to meet global engineering challenges

To create ethical engineers who can contribute for sustainable development of society