

Lukhdhirji Engineering College, Morbi

Mechanical Engineering Department

Sem.: 5th

Subject: Mfg. Technology

Subject Code: 3151912

Assignment 3: Foundry Technology (CO1)

1. What is pattern? Explain various types of pattern with neat sketch.
2. State & explain various pattern allowances with neat sketch.
3. Enlist various molding sands and explain in detail.
4. List the essential properties of molding sand. State the effect of each properties on casting.
5. How do you classify different tools and equipment used in foundries?
6. Explain precision investment casting stating its advantages, limitations, and applications.
7. Explain the method used for determining the permeability of any molding sand.
8. List casting defects and give their causes and remedies.
9. What is gating system? What are its functions? Explain with neat sketch types of gating system used in casting.
10. Make a neat sketch of cupola, indicating its various zone. Describe its construction and working.

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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