

ASSIGNMENT: 01

1. Define welding and classify welding.
2. Explain TIG & MIG welding. and list out its advantages
3. Explain submerged arc welding (SAW).
4. Explain SMAW with advantage & disadvantage.
5. Explain friction welding.
6. Explain electron beam welding (EBM).
7. Explain LASER beam welding.
8. Explain gas welding and cutting.
9. Explain plasma arc cutting.
10. Explain welding defects with figure.

ASSIGNMENT: 02

1. Explain elastic and plastic deformation process.
2. Different between hot working & cold working.
3. Explain terms :
 - ingots
 - slab
 - bloom
 - billet
4. Classification of extrusion process & explain direct & indirect process.
5. Classification of forging process & explain open die forging.
6. What are the press working operations? Explain all cutting process.
7. What are the forming operations? Explain bending operation.
8. Explain how forging improves the mechanical properties of components? Difference between drop forging & press forging.

ASSIGNMENT: 03

1. Define casting and write down its advantage & disadvantage.
2. Explain any four patterns with figure.
3. Explain any five types of core.
4. Explain furnace & write difference types of furnace.
5. Explain any two furnaces with figure.
6. Explain cupola furnace.
7. Explain Gating system.
8. Explain any 2 types of moulding process.

ASSIGNMENT: 04

1. Explain any four[EDM, ECG, ECM, USM, PAM, LBM]
2. Explain any four finishing process.

ASSIGNMENT: 05

1. Explain the principle of location.
2. Explain locating method & locating devices.
3. What are the types of clamping?
4. Enlist different types of jig.
5. What are the different types of jig bushes used?
6. Explain milling fixture and lathe fixture.
7. What is principle of clamping?