

DEPARTMENT : MECHANICAL

EMESTER : :

SUBJECT NAME: MATERIAL SCIENCE & METALLURGY

SUBJECT CODE: 3131904

FACULTY NAME: ASSIST. PROF. KEDAR H BADHEKA

## ASSIGNMENT: 4 SOLIDIFICATION AND THEORY OF ALLOY

- 1. Define the concept of solidification of metal with nucleation and growth of crystals.
- 2. Define the effect of structure on mechanical properties.
- 3. Define Gibb's rule.
- 4. Explain hume-rothery rules.
- 5. Brief explanation on lever arm principle.

