

METALLURGY LAB 2021

Lab Manual

List of Experiments

| | | |
|----|--|--------------|
| 1. | Specimen preparation technique | First cycle |
| 2. | Phase diagram | |
| 3. | Heat treatment of steels | Second cycle |
| 4. | Hardenability test | |
| 5. | Specimen identification | |
| 6. | Sand strength & Permeability test | |
| 7. | Tensile, Fatigue & Impact Test. | |
| 8. | Project assignment for each group – a group should consist of 5 members. | |

The title of the project is 'material selection'. This will help you understand the course overall. The project is to select any mechanical equipment (preferably) or any other equipment/system/device of your choice and is expected to do the following activities

- Identify the crucial parts of the selected equipment
- Identify the parts main functions
- Identify the required properties of the parts
- Select the suitable material for the identified part in the equipment scientifically, i.e. Justify the identified material is satisfying the functional requirements.

Finally, submit your project as a group in a poster format, which should be laminated A3 paper size.

Note 1: Marking scheme for the project include poster submission (clarity/aesthetic presentation, technical content, project presentation and viva voce)

Note 2: Marking scheme for lab exercise include in-lab observations, Q&As and lab report.

Note 3: The first cycle of lab exercise include 1 & 2. The second cycle comprises from 3 to 7. You can formally start your project as soon as you complete the lab part.

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