

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.

Lab Manual Engineering Materials And Metallurgy

L Darling-Hammond



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