

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

DP Hallahan



Lab Manual Engineering Materials And Metallurgy:

Adopting the Tune of Phrase: An Psychological Symphony within **Lab Manual Engineering Materials And Metallurgy**

In a world eaten by monitors and the ceaseless chatter of instant interaction, the melodic elegance and mental symphony developed by the published word frequently diminish into the background, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, set within the pages of **Lab Manual Engineering Materials And Metallurgy** an enchanting literary treasure full of organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that captivating masterpiece conducts viewers on a psychological journey, well unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths with this touching analysis, we will examine the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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