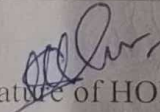
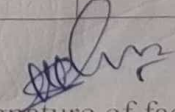


Lesson Plan

Subject Engineering Materials (Code) TH-3 Name of faculty Sahyabada Phadane.
 Semester 3rd Class allotted 4 p/w 49/63 Branch Mechanical Engineering

Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson		
Week	Date/Period			
1	15/09/22	Material Classification - Ferrous & Non Ferrous		White board & Marker
	to	Properties of materials.		
	16/09/22	Performance Requirements.		
2	19/09/22	Material reliability and Safety		White board & Markers
	to	Characteristics and application of ferrous materials.		
	24/09/22	Classification, Composition & Application		
3	26/09/22	Alloy Steel.		White board & Marker
	to	Tool steel		
	01/10/22	"		
4	10/10/22	Concept of phase diagram & Cooling Curves		White board & Markers
	to	"		
	15/10/22	"		
5	17/10/22	Features of Iron-Carbon diagram with stable micro-constituents of Iron & steel		White board & Marker
	to	"		
	22/10/22	"		
6	25/10/22	Crystal definition, Classification.		White board & Marker
	to	Classification of Imperfection.		
	29/11/22	"		
7	31/12/22	Types and Causes of point defects.		White board & Marker
	to	Types and Causes of line defects.		
	05/11/22	"		


Signature of HOD


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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	17/11/22	Effect of Imperfections on mechanical Properties.	White board & Marker
	to 19/11/22	Determination by slip and twinning Effect of dislocations on mechanical properties	
9	14/11/22	Purpose of heat treatment.	White board & Marker
	to	Process of heat treatment.	
	19/11/22	Surface "	
10	21/11/22	Surface hardening	White board & Marker
	to	"	
	26/11/22	"	
11	28/11/22	Effect of heat treatment on Properties of Steel.	White board & Marker
	to	Hardenability of Steel.	
	03/12/22	Aluminum Alloys.	
12	05/12/22	Copper Alloys	White board & Marker
	to	"	
	10/12/22	Predominating elements of Lead Alloys, Zinc Alloys, Nickel Alloys.	
13	12/12/22	Low Alloy Material like P-91, P-22	White board & Marker
	to	Classification, Composition, properties and uses of copper base etc.	
	13/12/22	"	
14	19/12/22	Classification, Composition of Iron base.	White board & Marker
	to	"	
	27/12/22	Properties & Application of thermosetting & thermoplastic polymers	
15	29/12/22	"	White board & Marker.
	to	Classification, Composition, properties & uses of particulate based & FRC.	
	24/12/22	"	
		Classification & uses of Ceramics.	

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