

LESSON PLAN

Metallurgy
Engineering

Semester:
5th semester

Name of the Teaching Faculty:
Mr Bichitra Kumar Sahoo

Treatment Lab
code: Pr 1

No of days /week
class
allotted:06/week

Semester from Date:07/08/2023 to 30/11/2023
No of weeks:18

Month	Week	No of periods available	Class Day	Practical topics to be covered
August	1 st	03P	08-08-2023	Briefing about the Syllabus
		03P	09-08-2023	Study about different heat treatment furnaces
	2 nd	03P	16-08-2023	Lab Record Write
		03P	22-08-2023	Preparation of samples plain carbon steel (cutting), grinding
	3 rd	03P	23-08-2023	Annealing of plain carbon steel
		03P	29-08-2023	Annealed sample preparation for metallography
	4 th	03P	05-09-2023	Polishing of sample
		03P	12-09-2023	Observation of the microstructure of annealed sample
	5 th	03P	13-09-2023	Lab record check
	6 th	03P	26-09-2023	Normalizing of plain carbon steel
September	7 th	03P	27-09-2023	Polishing of sample for study of microstructure
		03P	03-10-2023	Polishing of sample
	8 th	03P	04-10-2023	Observation of normalized sample
		03P	10-10-2023	Hardening of sample by water and oil
	9 th	03P	11-10-2023	Polishing of samples for metallography
		03P	17-10-2023	Polishing of sample
	10 th		18-10-2023	
	11 th	03P	31-10-2023	Study of microstructure of hardened plain carbon steel
		03P	01-11-2023	Lab Record Write
	12 th	03P	07-11-2023	Lab Record Submission & Check
		03P	08-11-2023	
October	13 th	03P	14-11-2023	Micro hardness measurements of heat treated sample
		03P	15-11-2023	Image analysis of heat treated samples
	14 th	03P	21-11-2023	Study of microstructure, hardness of samples before and after heat treatment
		03P	22-11-2023	
	15 th	03P	28-11-2023	Lab Record Submission & Check
		03P	29-11-2023	VIVA
November				

B. Sahoo

PREPARED BY
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DEPT. OF METALLURGY
OSME, KEONJHAR

T. Sahoo
11/08/2023
HOD

METALLURGY ENGINEERING
OSME, KEONJHAR

Principals
11/08/23
PRINCIPAL

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