

DEPARTMENT OF METALLURGICAL ENGINEERING

LESSON PLAN

Discipline: I	Semester:	Name of the Teaching faculty: SWATI PAL
Subject: HEAT TREATMENT LAB	No of Days/Week class allotted:	Semester: THIRD FIFTH Session: 2022-2023 No of weeks:
Week	Class Day	Topics
1st	Day-1	Introduction about Heat treatment lab with ^{samples} its different furnaces, equipments, machins etc.
	Day-2	Study about the purposes of Heat treatment, application of Heat treatment
2nd	Day-1	Come to know about the experiment's which and it's application which are includes in Syllabus.
	Day-2	Introduction about Theory and Equipments needed for Exp-1
3rd	Day-1	Preparation of Sample by Grinding mlc and polishing paper.
	Day-2	Now sample is ready and kept it into the furnace for heat treatment after that see in under microscope
4th		of microstructure
	Day-1	observation, is done by each student under Microscopic observation.
	Day	Conclude the Exp:-1

5th	Day-1	Study about Theory and equipments needed for Exp: 2
	Day-2	Sample preparation day
6th	Day-1	Prepared sample is taking for heat treatment. and left for air cooling.
	Day-2	Measure the hardness and record it, and also take it under microscopic observation and conclude it.
7th	Day-1	Study and briefly about Exp-3
	Day-2	Sample preparation, Heat treatment and observation.
8th	Day-1	Explain about Exp-4
	Day-2	Done Heat treatment and come to conclusion
9th	Day-1	Briefly study about Exp-5
	Day-2	Heat treating the sample and observed its microstructure one by one student
10th	Day-1	Study about the Exp: 6
	Day-2	Heat treatment of the prepared sample is done
11th	Day-1	Come to know the widely the last experimen-7
	Day-2	Complete the heat treatment cycle and conclude it.
12th	Day-1	Revision of Exp-1, 2, 3, 4, by group wise (4 group) Doubt clear class ^{with} taken.
	Day-2	Revision of Exp-5, 6, 7 as same above and discuss about some important question-answer Regarding lab.