

DEPARTMENT OF METALLURGICAL ENGINEERING

LESSON PLAN for Metallurgy Lab

Discipline: I	Semester:	Name of the Teaching faculty/ Lab
Subject: Metallurgy Lab	No of Days/Week class allotted: 06	Sushankha Shukla Saker Semester : 5th No of weeks: 23-24
Week	Class Day	Topics
1st	Pr 1 (3P) Pr 2 (3P)	To study the Metallurgical Microscope & know the objective Metallurgical microscope & their working function. Study the Metallurgical Microscope & know about their function. Study the Lavalor & compare of the Microscope & compare their compound. Study the Lavalor & compare of the Microscope.
2nd	Pr 1 (3P) Pr 2 (3P) Pr 1 (3P) Pr 2 (3P)	Study & determine the grain size & determine the grain size Study & determine the grain size of single & multiple grain size of grain size of single & multiple grain size. Study the Microstructure of carbon steel & see the microstructure by microscope. Study the Microstructure of carbon steel
3rd	Pr 1 (3P) Pr 2 (3P)	Study the Microstructure of carbon steel & determine the their structure by microscope. Study the Microstructure with carbon steel
4th	Pr 1 (3P) Pr 2 (3P)	preparation of the specimen for metallography Preparation of the specimen for metallography Study the Metallographic examination. Study the metallographic examination.

5th	Q.1. (3P)	study the micro structure of low alloy steel
	Q.2. (3P)	study the microstructure of low alloy steel. & observed by microscope.
6th	Q.1. (3P)	study the microstructure of low alloy steel.
	Q.2. (3P)	study the microstructure of low alloy steel.
	Q.1. (3P)	To study the metallographic preparation technique.
	Q.2. (3P)	To study the metallographic structure of non-ferrous metal.
7th	Q.1. (3P)	To study the metallographic preparation technique of non-ferrous metal
	Q.2. (3P)	"
8th	Q.1. (3P)	Intercept microstructure with phase diagram
	Q.2. (3P)	Intercept microstructure with phase diagram
	Q.3. (3P)	Intercept microstructure with phase diagram
	Q.4. 3P	Intercept microstructure with phase diagram.
9th	Q.1. (3P)	Microscopic observation of phase of brass.
	Q.2. (3P)	Microscopic observation of phase of brass.
	Q.3. (3P)	Microscopic observation of bronze.
	Q.4. (3P)	Microscopic observation of bronze.
10th	Q.1. (3P)	Microscopic observation of bronze.
	Q.2. (3P)	Microscopic observation of bronze.
11th	Q.1	Record check & evaluated for experiment & sessional exam is done of the metallography microscope.
	Q.2	students are give sessional & record check & evaluate the record of metallography microscope.
12th	Q.1	Record check of experiment of microstructure of low alloy steel & sessional is done.
	Q.2	Record check of observation bronze & students are evaluate to give sessional exam
	Q.2	students are give their sessional & record check, evaluate for experiment by teacher.

