

GOVERNMENT POLYTECHNIC JAIPUR

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DEPARTMENT OF METALLURGICAL ENGINEERING

LESSON PLAN For Material Testing Lab

Discipline: I	Semester:	Name of the Teaching faculty/ Lab Assistant	
Subject: Material Testing Lab	No of Days/Week class allotted: 16	Semester: 4th	Session: 20-21
Week	Class Day	Topics	
1st	Ep.1 (3P)	Study the Brinell hardness testing machine.	
	Ep.2 (3P)	Study the Brinell hardness testing machine with their component.	
	Ep.1 (3P)	Determine the BHN value of steel specimen	
	Ep.2 (3P)	determine the BHN value of steel specimen.	
2nd	Ep.1 (3P)	Determine the BHN value of cast iron.	
	Ep.2 (3P)	Determine the BHN value of cast iron.	
	Ep.1 (3P)	))	
	Ep.2 (3P)	))	
3rd	Ep.1 (3P)	To study the impact tester machine.	
	Ep.2 (3P)	To study the impact tester machine.	
	Ep.1 (3P)	To determine the impact strength of steel specimen by Izod method.	
	Ep.2 (3P)	To determine the impact strength of Izod method.	
4th	Ep.1 (3P)	determine the impact strength of Charpy method.	
	Ep.2 (3P)	determine the impact strength of Charpy method.	
	Ep.1 (3P)	Study the universal testing machine.	
	Ep.2 (3P)	To study the universal testing machine.	

5th	Q.1 (3P)	Determine the tensile strength of steel specimens.
	Q.2 (3P)	
6th	Q.1 & Q.2 (6P)	Determine the tensile strength of steel specimens.
	Q.1 (3P)	study the vickers hardness tester
	Q.2 (3P)	study the vickers hardness tester
	Q.1 (3P)	study the vickers hardness tester.
7th	Q.1 (3P)	Determine the hardness of steel specimens by using vickers hardness tester.
	Q.2 (3P)	
	Q.1 (3P)	
	Q.2 (3P)	
8th	Q.1 (3P)	Determine the hardness of steel specimens by using vickers hardness tester. study the Rockwell hardness tester.
	Q.2 (3P)	
	Q.1 (3P)	
	Q.2 (3P)	
9th	Q.1 (3P)	Determine the Rockwell hardness by using 'B' scale. study the Rockwell hardness tester.
	Q.2 (3P)	
10th	Q.1 (3P)	students are study the fatigue testing machine & job preparations for fatigue limit test.
	Q.2 (3P)	
11th	Q.1 (3P)	students are determine the fatigue limit of given specimen.
	Q.2 (3P)	
12th		students are determine the fatigue limit of given specimen.

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