

GOVT. POLYTECHNIC MAYURBHANJ
LESSON PLAN OF MATERIAL TESTING LAB ACADEMIC YEAR (2025-26) WINTER

Discipline: Metallurgy Engineering			Semester: 3rd semester	Name of the Teaching Faculty: SUBRAT KUMAR BEHERA
Subject: MATERIAL TESTING LAB			No of Period /Week class allotted: 08	Semester from Date: 14/07/2025 to 21/11/2025
Sub Code: MTPC215				

Month	Week	Day	Unit	Topic
JULY	3 RD	1 ST		Briefing about the Syllabus
		2 ND		Briefing about the Syllabus
	4 TH	1 ST		Determination of yield strength, ultimate tensile strength (UTS), percentage elongation, and behaviour of metallic material.
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	5 TH	1 ST		Lab record writes
		2 ND		
AUGUST	2 ND	1 ST		Lab record submission and check
		2 ND		
	3 RD	1 ST		Study the operation of different hardness testers such as Brinell, Vickers and Rockwell hardness testers
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	4 TH	1 ST		Lab record writes
		2 ND		
	5 TH	1 ST		MONTHLY TEST-II
		2 ND		MONTHLY TEST-II
SEPTEMBER	1 ST	1 ST		Lab record submission and check
		2 ND		
	2 ND	1 ST		Determine VHN value of given specimen by Brinell cum Vickers tester
		2 ND		Determine the Rockwell hardness number of given specimen by Rockwell hardness tester
	3 RD	1 ST		Lab Record Write Lab Record Submission & Check
		2 ND		
	4 TH	1 ST		Determine the Rockwell hardness number of given specimen by Rockwell hardness tester
		2 ND		Determine VHN value of given specimen by Brinell cum Vickers tester
	5 TH	1 ST		MAHA SAPTAMI
		2 ND		MAHASTAMI
OCTOBER	2 ND	1 ST		Lab record writes Lab record submission and check
		2 ND		
	3 RD	1 ST		KUMAR PURNIMA
		2 ND		TECHNICAL SEMINAR
	4 TH			Lab Record Write Lab Record Submission & Check
		1 ST		
		2 ND		
				Determine the impact strength of supplied specimen by impact testing machine.
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NOVEMBER	5 TH	1 ST		Determine the impact strength of supplied specimen by impact testing machine.
		2 ND		Lab Record Write Lab Record Submission & Check
	2 ND	1 ST		Lab record writes
		2 ND		Determine on Virtual Lab on Charpy and Izod Impact Testing of Materials
	3RD	1 ST		Determine on Virtual Lab on Charpy and Izod Impact Testing of Materials
		2 ND		Lab record writes Lab record submission and check
	4th	1 st		Experimental practice and mock test
		2 nd		Experimental practice and mock test