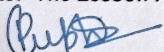
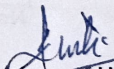


Department of Civil Engineering
Government Polytechnic Sundernagar Distt Mandi (H.P) -175018

Lesson Plan for Mechanics of Materials (Practical G1) (Semester- 3rd) Session: (August-December, 2025)				
S.No	MONTH	WEEK	CONTENTS	REMARKS
1	August	2	Study and understand the use and components of Universal Testing Machine (UTM).	
		3	Checking of Practical- 1 & Viva- Voce. Perform Tension test on mild steel as per IS:432(1).	
		4	Checking of Practical- 2 & Viva- Voce. Perform tension test on Tor steel as per IS:1608, IS:1139.	
		5	Checking of Practical- 3 & Viva- Voce.Determine Water Absorption on bricks per IS:3495 (part II), IS:1077 or tile IS:1237.	
2	September	1	Checking of Practical- 4 & Viva- Voce.Determine Compressive strength of dry and wet bricks as per IS:3495(part I), IS:1077	
		2	Checking of Practical- 5 & Viva- Voce. Conduct Abrasion Test on flooring tiles (anyone) e.g., Mosaic tiles, Ceramic Tiles as per IS: 13630 (part7), Cement Tile as per IS: 1237.	
		3	Checking of Practical- 6 & Viva- Voce. Perform Single Shear and double shear test on any two metals e.g., Mild steel/ brass/aluminium/copper / cast iron etc as per IS:5242	
		4	Checking of Practical- 7 & Viva- Voce. Plot Shear force and Bending Moment diagrams for simply supported beams.	
		5	Checking of Practical- 8 & Viva- Voce.Conduct Flexural test on timber beam on rectangular section in both orientations as per IS:1708, IS:2408.	
3	October	3	Checking of Practical- 9 & Viva- Voce. Conduct Flexure test on floor tiles IS:1237, IS:13630 or roofing tiles as per IS:654, IS:2690.	
		4	Checking of Practical 10 & Viva - Voce	
		5	Revision of Practicals & Viva - Voce	
4	November	2	House Test as per academic calender.	
		3	Revision of Practicals & Viva - Voce	
		4	Revision of Practicals & Viva - Voce	
		5	Revision of Practicals & Viva - Voce	

Note:- The Lesson Plan is tentative, subject to availability of time,students & faculty.

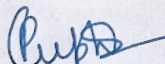

Signature of Teacher
 (Er Pratik Gupta)

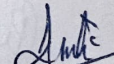

Signature of H.O.D
 (Er Anita Joshi)

Department of Civil Engineering
Government Polytechnic Sundernagar Distt Mandi (H.P) -175018

Lesson Plan for Mechanics of Materials (Practical G2) (Semester- 3rd) Session: (August-December, 2025)				
S.No	MONTH	WEEK	CONTENTS	REMARKS
1	August	2	Study and understand the use and components of Universal Testing Machine (UTM).	
		3	Checking of Practical- 1 & Viva- Voce. Perform Tension test on mild steel as per IS:432(1).	
		4	Checking of Practical- 2 & Viva- Voce. Perform tension test on Tor steel as per IS:1608,	
		5	Checking of Practical- 3 & Viva- Voce. Determine Water Absorption on bricks per IS:3495 (part	
2	September	1	Checking of Practical- 4 & Viva- Voce. Determine Compressive strength of dry and wet bricks as per IS:3495(part I), IS:1077	
		2	Checking of Practical- 5 & Viva- Voce. Conduct Abrasion Test on flooring tiles (anyone) e.g., Mosaic tiles, Ceramic Tiles as per IS: 13630 (part7), Cement Tile as per IS: 1237.	
		3	Checking of Practical- 6 & Viva- Voce. Perform Single Shear and double shear test on any two metals e.g., Mild steel/ brass/aluminium/copper / cast iron etc as per IS:5242	
		4	Checking of Practical- 7 & Viva- Voce. Plot Shear force and Bending Moment diagrams for simply supported beams.	
		5	Checking of Practical- 8 & Viva- Voce. Conduct Flexural test on timber beam on rectangular section in both orientations as per IS:1708, IS:2408.	
3	October	2	Checking of Practical- 9 & Viva- Voce. Conduct Flexure test on floor tiles IS:1237, IS:13630 or	
		3	Checking of Practical 10 & Viva - Voce	
		5	Revision of Practicals & Viva - Voce	
4	November	2	House Test as per academic calender.	
		3	Revision of Practicals & Viva - Voce	
		4	Revision of Practicals & Viva - Voce	
		5	Revision of Practicals & Viva - Voce	

Note:- The Lesson Plan is tentative, subject to availability of time, students & faculty.


Signature of Teacher
 (Er Pratik Gupta)


Signature of H.O.D
 (Er Anita Joshi)