

LESSON PLAN

SUBJECT : MECHANICS OF MATERIALS LAB(PR 2); COURSE CODE: CEPC 213


NAME OF FACULTY: SWAPNASHISH PATEL & SOUBHAGYA RANJAN MOHANTY


SEMESTER: 3RD

YEAR: 2025-26 (Winter - 2025)

SESSION	COURSE TO BE COVERED	CLASSES REQUIRED (HOURS)	REMARKS
1	Determine Water Absorption on bricks per IS:3495 (part II), IS:1077 or tile IS:1237.	4	
2	Determine Compressive strength of dry and wet bricks as per IS:3495(part I), IS:1077.	4	
3	Conduct Flexural test on concrete beam on rectangular section as per Indian Standards.	4	
4	Study and understand the use and components of Universal Testing Machine (UTM).	4	
5	Perform Tension test on mild steel as per IS:432(1) and bend rebend test on mild steel	4	
6	Perform tension test on Tor steel as per IS:1608, IS:1139 and bend -rebend test on Tor Steel	4	
7	Conduct compression test on Concrete cube using Compression Testing Machine.	4	
8	Conduct Izod Impact test on three metals. e.g. mild steel/ brass/aluminum/ copper /castiron etc. as per IS:1598.	12	
9	Conduct Charpy Impact test on three metals. e.g. mild steel/ brass/aluminum/ copper /castiron etc. as per IS:1757.	12	
10	Abrasion test of floor tiles	4	
11	Flexural test of floor tiles/roof tile	4	

60 HOURS


Signature of Faculty


Signature of HOD