

LESSON PLAN FOR WINTER SESSION (2023-24)

PROGRAMME : CIVIL ENGINEERING			NAME OF THE FACULTY: SAIRAM MISHRA
COURSE NAME : CIVIL ENGINEERING LABORATORY-I			SESSION : 2023-24
COURSE CODE : PR 1			DATE : 01/08/23 To 30/11/23
SEMESTER : 3rd			
PERIODS/WEEK: 6			
TOTAL PERIODS:90			
WEEK	PERIODS(3 Hr)	UNITS	TOPICS
Aug 1st week	1	1	I. Material Testing Laboratory: Introduction
	2	2	2. Tests on Cement, Sands, Bricks, Blocks & Aggregates 2.1 Determination of fineness of Cement by sieving.
Aug 2nd week	1	2	2.2 Determination of Normal Consistency of Cement
	2	2	RECORD CHECK
Aug 3rd week	1	2	2.3 Determination of soundness of Cement by Le-Chatelier apparatus
	2	2	2.4 Determination of Compressive Strength of cement
Aug 4th week	1	2	2.5 Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks
	2	2	2.6 Grading of Fine & Coarse aggregate by sieving for concrete
Sept. 1st Week	1	2	2.7 Determination of Specific Gravity of sand
	2	2	2.7 Determination of Bulking of sand
Sept. 2nd Week	1	2	2.8 Determination of Specific Gravity of coarse aggregate
	2	2	2.8 Determination of Bulk density of coarse aggregate
Sept. 3rd Week	1	2	2.9 Grading of Road Aggregates
	2	2	2.10 Determination of Flakiness, Elongation of Road aggregates
Sept. 4th Week	1	2	2.11 Determination of Crushing Value Test of aggregates
	2	2	2.12 Los-Angeles Abrasion Test of aggregate.
Oct. 1st Week	1	2	2.13 Impact test of aggregate
	2	2	2.14 Determination of soundness test of road aggregates
Oct. 2nd Week	1	3	RECORD CHECK
	2	3	II Concrete Laboratory 3.1 Determination of Compressive Strength of concrete cubes
Oct. 3rd Week	1	3	3.2 Determination of Workability of concrete by Slump Cone method
	2	3	3.2 Determination of Workability of concrete by Compaction Factor method
Oct. 4th Week			HOLI DAY
Nov. 1st Week	1	3	3.3 Non Destructive tests on Concrete: Demonstration on Rebound hammer
	2	3	3.3 Non Destructive tests on Concrete: Ultrasonic Pulse Velocity measuring Instrument.
Nov. 2nd Week	1	3	3.3 Non Destructive tests on Concrete: Demonstration on Rebound hammer
	2	3	3.3 Non Destructive tests on Concrete: Ultrasonic Pulse Velocity measuring Instrument.
Nov. 3rd Week	1	3	1. Test on Steel Determination of Young's Modulus of steel in a tensile TEST Machine
	2	3	RECORD CHECK
Nov. 4th Week	1		RECORD CHECK
	2		VIVA-VOCE

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31-7-23

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HOD 31-7-23
Civil engineering

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Academic Coordinator
GP Nabarangpur 31/7/23

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Principal
GP Nabarangpur 31/7/23