LESSON PLAN FOR WINTER SESSION (2024-25)

PROGRAMME : CIVIL ENGINEERING	NAME OF THE FACULTY: AMLAN MOHANTY
COURSE NAME : CIVIL ENGINEERING LABORATORY-I	SESSION : 2024-25
COURSE CODE : PR 1	DATE : 1/07/24 To 22/11/24
SEMESTER : 3rd	
PERIODS/WEEK: 6	
TOTAL PERIODS:90	

WEEK	PERIODS(3 Hr)	GROUP	UNITS	TOPICS
July 1st Week	1	II	1	**I. Material Testing Laboratory:** **1. Test on Steel** Determination of Young's Modulus of steel in a tensile testing machine.
	2	I	2	**I. Material Testing Laboratory:** **1. Test on Steel** Determination of Young's Modulus of steel in a tensile testing machine.
	3	II	1	**2. Tests on Cement, Sands, Bricks, Blocks & Aggregates** **2.1** Determination of fineness of Cement by sieving.
	4	I	2	**2. Tests on Cement, Sands, Bricks, Blocks & Aggregates** **2.1** Determination of fineness of Cement by sieving.
July 2nd Week	5	II	2	**2.2** Determination of Normal Consistency of Cement
	6	I	2	**2.2** Determination of Normal Consistency of Cement
	7	II	2	**2.2** Determination of Initial and Final setting time of Cement
	8	I	2	**2.2** Determination of Initial and Final setting time of Cement
July 3rd Week	9	II	2	**2.2** Determination of Initial and Final setting time of Cement
	10	I	2	**2.2** Determination of Initial and Final setting time of Cement
	11	II	2	**2.3** Determination of soundness of Cement by Le-Chatelier apparatus
	12	I	2	**2.3** Determination of soundness of Cement by Le-Chatelier apparatus
July 4th Week	13	II	2	**2.3** Determination of soundness of Cement by Le-Chatelier apparatus
	14	I	2	**2.3** Determination of soundness of Cement by Le-Chatelier apparatus
	15	II	2	**2.4** Determination of Compressive Strength of cement
	16	I	2	**2.4** Determination of Compressive Strength of cement
Aug. 1st Week	17	II	2	**2.5** Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks
	18	I	2	**2.5** Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks
	19	II	2	**2.6** Grading of Fine & Coarse aggregate by sieving for concrete
	20	I	2	**2.6** Grading of Fine & Coarse aggregate by sieving for concrete
Aug. 2nd Week	21	II	2	**2.7** Determination of Specific Gravity of sand
	22	I	2	**2.7** Determination of Specific Gravity of sand
	23	II	2	**2.7** Determination of Bulking of sand
	24	I	2	**2.7** Determination of Bulking of sand
Aug. 3rd Week	25	II	2	**2.8** Determination of Specific Gravity of coarse aggregate
	26	I	2	**2.8** Determination of Specific Gravity of coarse aggregate
	27	II	2	**2.8** Determination of Bulk density of coarse aggregate
	28	I	2	**2.8** Determination of Bulk density of coarse aggregate
Aug. 4th Week	29	II	2	**2.9** Grading of Road Aggregates
	30	I	2	**2.9** Grading of Road Aggregates
	31	II	2	**2.10** Determination of Flakiness, Elongation of Road aggregates
	32	I	2	**2.10** Determination of Flakiness, Elongation of Road aggregates
Sept. 1st Week	33	II	2	**2.12** Los-Angeles Abrasion Test of aggregate.
	34	I	2	**2.12** Los-Angeles Abrasion Test of aggregate.
	35	II	2	**2.11** Determination of Crushing Value Test of aggregates
	36	I	2	**2.11** Determination of Crushing Value Test of aggregates
Sept. 2nd Week	37	II	2	**2.11** Determination of Crushing Value Test of aggregates
	38	I	2	**2.11** Determination of Crushing Value Test of aggregates
	39	II	2	**2.13** Impact test of aggregate
	40	I	2	**2.13** Impact test of aggregate
Sept. 3rd Week	41	II	2	**2.14** Determination of soundness test of road aggregates
	42	I	2	**2.14** Determination of soundness test of road aggregates
	43	II	2	**2.14** Determination of soundness test of road aggregates
	44	I	2	**2.14** Determination of soundness test of road aggregates

Sept. 4th Week	45	II		RECORD CHECK
	46	I		RECORD CHECK
	47	II	3	**II Concrete Laboratory** **3.1** Determination of Compressive Strength of concrete cubes
	48	I	3	**II Concrete Laboratory** **3.1** Determination of Compressive Strength of concrete cubes
Oct. 1st Week	49	II	3	**II Concrete Laboratory** **3.1** Determination of Compressive Strength of concrete cubes
	50	I	3	**II Concrete Laboratory** **3.1** Determination of Compressive Strength of concrete cubes
	51	II	3	**II Concrete Laboratory** **3.1** Determination of Compressive Strength of concrete cubes
	52	I	3	**3.2** Determination of Workability of concrete by Slump Cone method
Oct. 2nd Week	53			**Puja Holidays**
	54			
	55			
	56			
Oct.3rd Week	57	II	3	**3.2** Determination of Workability of concrete by Slump Cone method
	58	I	3	**3.2** Determination of Workability of concrete by Slump Cone method
	59	II	3	**3.2** Determination of Workability of concrete by Compaction Factor method
	60	I	3	**3.2** Determination of Workability of concrete by Compaction Factor method
Oct. 4th Week	61	II	3	**3.3** Non Destructive tests on Concrete: Demonstration on Rebound hammer
	62	I	3	**3.3** Non Destructive tests on Concrete: Demonstration on Rebound hammer
	63	II	3	**3.3** Non Destructive tests on Concrete: Ultrasonic Pulse Velocity measuring Instrument.
	64	I	3	**3.3** Non Destructive tests on Concrete: Ultrasonic Pulse Velocity measuring Instrument.
Nov 1st Week	65	II		RECORD CHECK
	66	I		RECORD CHECK
	67	II		VIVA-VOCE
	68	I		VIVA-VOCE

14/8/24
Concern faculty

28/8/2024
HOD
Civil engineering

Academic Coordinator
GP Nabarangpur

Principal
GP Nabarangpur