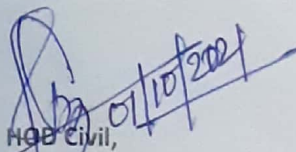


DEPARTMENT OF CIVIL ENGINEERING ,OSME KEONJHAR

Lesson Plan for Winter-2021

Discipline: <u>Civil Engg.</u>	Semester- <u>3rd</u>	Name of the faculty : <u>Er.Sashidhar Behera</u>
Subject –Civil engineering lab-I (Pr-1)	No of classes /per week class allotted: <u>06hrs</u>	No. of weeks: 15
WEEK	PERIODS AVAILABLE	TOPIC TO BE COVER
1st	3	Briefing about syllabus and Introduction ,How To Make Lab Record , Observation , Safety ,Lab Manual ,Notes Etc.
2nd	3	<u>Chapter-1: Material Testing Laboratory</u> Determination of Young's Modulus of steel in a tensile testing machine.
	3	Determination of fineness of Cement by sieving
3rd	3	Determination of normal Consistency Of Cement
	3	Determination of initial and final setting time of Cement
4th	3	Determination of soundness of Cement by Le-Chatelier apparatus.
	3	Determination of Compressive Strength of cement
5th	3	Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks.
	3	Grading of Fine & Coarse aggregate by sieving for concrete
6th	3	Determination of Specific Gravity and Bulking of sand.
7th	3	Determination of Specific Gravity and Bulk density of coarse aggregate
	3	Grading of Road Aggregates.
8th	3	Determination of Flakiness, Elongation of Road aggregates
9th	3	Determination of Crushing Value Test of aggregates.
10 th	3	Los-Angeles Abrasion Test of aggregate
	3	Impact test of aggregate.
11th	3	Determination of soundness test of road aggregates.
	3	Record submission.
12th	3	<u>Chapter-2: Concrete Laboratory</u> Determination of Compressive Strength of concrete cubes.
	3	Determination of Workability of concrete by Slump Cone method.
13th	3	Determination of Workability of concrete by Compaction Factor method.
	3	Non Destructive tests on Concrete Demonstration on Rebound hammer.
14 th	3	Non Destructive tests on Concrete Ultrasonic Pulse Velocity measuring Instrument.
	3	Record Submission
TOTAL	72	


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