<u>Lesson plan for 3rd</u> semester civil engineering

Name of teaching faculty:

Discipline/Deptt: Civil Engineering

Semester: 3rd

Subject (Practical): CIVIL ENGINEERING LABORATORY-1

No. of periods per week: 6

Total Periods: 90

Veek	Periods Unit/Chapter Topics to be covered			
žt.	3	1	Determination of Young's Modulus of steel in a tensile testing machine.	
	3	1	Determination of Young's Modulus of steel in a tensile testing machine.	
nd	3	2.1	Determination of fineness of Cement by sieving.	
	3	2.2	Determination of normal Consistency, initial and final setting time of Cement	
3 ^{rà}	3	2.2	Determination of normal Consistency, initial and final setting time of Cement	
	3	2.3	Determination of soundness of Cement by Le-Chatelier apparatus.	
4 th	3	2.4	Determination of Compressive Strength of cement.	
	3	2.5	Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks.	
5 th	3	2.6	Grading of Fine & Coarse aggregate by sieving for concrete.	
	3	2.7	Determination of Specific Gravity and Bulking of sand.	
6 th	3	2.8	Determination of Specific Gravity and Bulk density of coarse aggregate.	
	3	2.8	Determination of Specific Gravity and Bulk density of coarse aggregate.	
7 th	3 ~	2.9	Grading of Road Aggregates.	
	3	2.10	Determination of Flakiness, Elongation of Road aggregates.	
Stin	3	2.11	Determination of Crushing Value Test of aggregates.	
	3	2.11	Determination of Crushing Value Test of aggregates.	
9 th	3	2.12	Los-Angeles Abrasion Test of aggregate.	
	3	2.13	Impact test of aggregate.	
10 th	3	2.14	Determination of soundness test of road aggregates.	
	3	2.14	Determination of soundness test of road aggregates.	
11 th	3	3.1	Determination of Compressive Strength of concrete cubes.	
10%	3	3.1	Determination of Compressive Strength of concrete cubes.	
12 th	3	3.2	Determination of Workability of concrete by: a) Slump Cone method,	

114	5	>>	7
	7		

	3	3.2	Determination of Workability of concrete by: a) Slump Cone method,
			, , ,
13 th	3	3.2	Determination of Workability of concrete b) Compaction Factor method
	3	3.2	Determination of Workability of concrete b) Compaction Factor method
14 th	3	3.3	Non Destructive tests on Concrete: a) Demonstration on Rebound hammer
	3	3.3	Non Destructive tests on Concrete: a) Demonstration on Rebound hammer
15 th	3	3.3	Non Destructive tests on Concrete b) Ultrasonic Pulse Velocity measuring Instrument.
	3	3.3	Non Destructive tests on Concrete b) Ultrasonic Pulse Velocity measuring Instrument.

Manas Ranjan Pradhan 16/9/2003 Lect. Ceivil)