

LESSON PLAN

Name of Faculty : Sahil Bangar

Subject : Highway Engg Practical

Lesson plan Duration : 15 weeks

Discipline : Civil Engg

Semester : 5th

L T P

3 - 4

Week	Lecture Day	PRACTICAL	Delivery Date of Lecture		Whether the Lesson Plan Followed ?
		TOPIC			
		(including Assignments / Seeminar / Group Discussion / Sessional Tests)	Expected	Actual	Yes / No
1st	1	Determination of penetration value of bitumen			
	2	Determination of penetration value of bitumen			
2nd	1	Determination of softening point of bitumen			
	2	Determination of softening point of bitumen			
3rd	1	Determination of ductility of bitumen			
	2	Determination of ductility of bitumen			
4th	1	Determination of impact value of the road aggregate			
	2	Determination of impact value of the road aggregate			
5th	1	Determination of abrasion value (Los Angeles') of road aggregate			
	2	Determination of abrasion value (Los Angeles') of road aggregate			
6th	1	Determination of crushing strength of aggregate			
	2	Determination of crushing strength of aggregate			
7th	1	Internal Viva Voice			
	2				
8th	1	Determination of flakiness and elongation index of aggregate			
	2	Determination of flakiness and elongation index of aggregate			
9th	1	Determination of the California bearing ratio (CBR) for the sub-grade soil			
	2	Determination of the California bearing ratio (CBR) for the sub-grade soil			
10th	1	Internal Viva Voice			
	2				
11th	1	Determination of stripping value of aggregates.			
	2	Determination of stripping value of aggregates.			
12th	1	Demonstration of working of hot mix plant through a field visit			
	2	Discussion on field visit			

13th	1	Visit to highway construction site for demonstration of operation of: Tipper, tractors (wheel and crawler), scraper, bulldozer, dumpers, shovels, grader, roller, dragline, road pavers, paver finisher JCB			
	2	Discussion on construction site Trip			
14th	1	Demonstration of working of mixing and spraying equipment (Asphalt mixer & tar boiler) through a field visit			
	2	Discussion on field Trip			
15th	1	Internal Viva Voice			
	2				