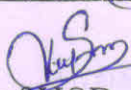


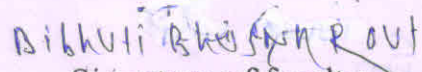
## Lesson Plan

Subject Highway Engineering (Code) Th-4 Name of faculty BIBHUTI, BHUSANI ROUT

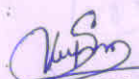
Semester 4th Class allotted 5P/Week Branch Civil Engg.

Discipline	Semester	From date: 10.03.22 To date: 10.06.22	Teaching Aid
Subject:	No. of days/ per week <u>05 days</u>	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	10.03.2022 to 12.03.2022 (03 period)	Ch-1:- Introduction:- Importance highway transportation: Importance organisation like Indian road Congress, Ministry of Surface Transport, Central Road Research	
	14.03.2022 to 19.03.2022 (03 period)	→ Foundation of Indian Road Congress → IRC classification of roads. → Organisation of state highway dept.	
	21.03.2022 to 26.03.2022 (05 period)	Ch-2:- Road Geometrics:- → Glossary of terms used in geometric & their importance, right of way, formation width, road margin, road shoulder, carriage way, slope, kerbs, formation level.	
4	28.03.2022 to 02.04.2022 (05 period)	→ Design & average running speed, stopping & passing sight distance. → Necessity of curves, horizontal & vertical curves including transition curve, Method of super-elevation.	
	04.04.2022 to 09.04.2022 (05 period)	Ch-3:- Road Materials:- Different type of road material in use. → Function of soil as highway subgrade → California Bearing Ratio:- Method of finding CBR, Testing aggregates.	
	11.04.2022 to 16.04.2022 (04 period)	Ch-4:- Road Pavements:- → Road pavement:- Flexible & rigid pavement, their merits & demerits.	
7	18.04.2022 to 23.04.2022 (06 period)	→ Subgrade preparation. → Sub-base course. → Base course. → Surfacing.	

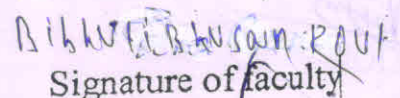
  
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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	25.04.2022	→ Surface dressing	
	to	→ Bituminous Concrete	
	30.04.2022	→ Graveling	
	(06 period)	→ Rigid pavements :-	
9	02.05.2022	Ch-5 :- Hill Roads :-	
	to	→ Introduction :-	
	07.05.2022	→ Breast walls, Retaining Wall, different types of bends.	
	(05 period)		
10	09.05.2022	Ch-6 :- Road Drainage :-	
	to	→ Necessity of road drainage work	
	14.05.2022	Cross drainage works.	
	(05 period)	→ Surface & Sub surface drains	
11	17.05.2022	Ch-7 :- Road Maintenance :-	
	to	→ Common types of road failures :-	
	21.05.2022	→ Maintenance of bituminous road	
	(05 period)	→ Maintenance of concrete roads	
12	23.05.2022	Ch-8 :- Construction Equipments	
	to	→ Hot mixing plant	
	28.05.2022	→ Tipper, tractors, scraper, bulldozer, dumpers, shovels, roller dragline.	
	(06 period)		
13	31.05.2022	→ Asphalt mixer & hot boilers.	
	to		
	04.06.2022	→ Road pavers.	
	(06 period)		
14	06.06.2022	→ Modern construction equipments for roads.	
	to		
	10.06.2022		
	(07 period)		
15			



Signature of HOD



Signature of faculty