					5th Semester Winter 2021	
		The	Theory No: 3	ω		
			Subject:	Railway 8	Subject: Railway & Bridge Engineering	
	Week	Period	riod	Numbers of	c	
SI No	No	From	To	Classes to be Scheduled	Topics to be covered	Remarks
-	W 1	01-10-2021	08-10-2021	σı	1.1 Importance of Highway transportation: importance organizations like Indian roads congress, Ministry of Surface Transport, Central Road Research Institute.1.2 Functions of Indian Roads Congress 1.3 IRC classification of roads 1.4 Organisation of state highway department 2.1 Glossary of terms used in geometric and their importance, right of way, formation width, road margin, road shoulder, carriage way, side slopes, kerbs, formation	02/10,03/10,06/10 is Holiday.
2	W 2	11-10-2021 22-10-2021	22-10-2021	σ	2.2 Design and average running speed, stopping and passing sight distance	
ω	W3	25-10-2021	29-10-2021	æ	2.3 Necessity of curves, horizontal and vertical curves including transition curves and super elevation, Methods of providing super elevation3.1 Difference types of road materials in use: sol, aggregates, binders 3.2 Function of soil as highway subgrade 3.3 California Bearing Ratio: methods of finding CBR valued in the laboratory and at site and their significance	

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	9	И	À.	SI No		
W 7	W 6	W 5	W 4	Week No		
17-11-2021	11-11-2021	05-11-2021	30-10-2021	Period From	The	
23-11-2021	16-11-2021	10-11-2021	03-11-2021	To	Theory No: 3 Subject: R	
SI	CΛ	CI	S	Numbers of Classes to be Scheduled	3 Railway &	
5.1 Introduction: Typical cross-sections showing all details of a typical hill road in cut, partly in cutting and partly in filling 5.2 Breast Walls,	4.4 Base Course : Preparation of base course a. Brick soling c. Soling c. Metalling : Water Bound Macadam and Bituminous Macadam 4.5 Surfacing : Types of surfacing a. Surface dressing b. (i) Premix carpet (ii) Semi dense carpet c. Bituminous concrete d. Grouting Methods of constructions as per Ministry of Surface Transport, specifications and quality control 4.6 Rigid Pavements : Construction of concrete roads as per IRC specifications : From laying, mixing and placing the concrete, compacting and finishing, curing, joints in concrete pavement, equipment used.	ent ent		Topics to be covered	k Bridge Engineering	5th Semester Winter 2021
19/11,23/11 is holiday	14/11/2021 is holiday.	12th and 15th Aug'19 are holiday		Remarks		

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Remarks Railway & Bridge Engineering Remarks							
ited Numbers of Scheduled Classes to be Scheduled	25/12,26/12 are holidays	Revision	ω	27-12-2021	23-12-2021	W 15	15
itied Numbers of Classes to be Scheduled To Scheduled To Scheduled To Scheduled To Scheduled To Scheduled To Scheduled Gifferent types of bends 6.1 Necessity of road drainage work, cross drainage works 6.2 Surface and sub-surface drains and storm water drains. Location, spacing and typical details of side drains, side ditches spipe drains in hill roads, details of drains in cutting embankment, pipe drains in hill roads, details of drains in cutting embankment, pipe drains in hill roads, details of croad failures - their causes and remedies 7.2 Maintenance of bituminous road such as patch work and resurfacing 7.3 Maintenance of concrete roads - filling cracks, repairing joints, maintenance of traffic control devices. Output and use of the following plant and equipment 8.1 Hot mixing plant8.2 Tipper, tractors (wheel and crawler) scraper, bulldozer, dumpers, shovels, graders, roller dragline8.3 Asphalt mixer and tar boilers 8.4 Road pavers 8.5 Modern construction equipments for roads. 9.1 Basic concept of traffic study 9.2 Traffic safety and traffic control signal 9.3 Road junctions 9.4 Traffic island and refuge island; advantages and disadvantages 10.1 Meaning of landscaping and arboriculture 10.2 Aesthetics in road side development 15-12-2021 3 Revision		Revision	ω	22-12-2021	20-12-2021	W 14	14
Subject: Railway & Bridge Engineering Numbers of Scheduled To Scheduled To Scheduled different types of bends 6.1 Necessity of road drainage work, cross drainage works 6.2 Surface and sub-surface drains and storm water drains. Location, spacing and typical details of side drains, side ditches spipe drains in hill roads, details of drains in cutting embankment, pipe drains in hill roads, details of drains in cutting embankment, pipe drains in hill roads, details of drains in cutting embankment, pipe drains in hill roads, details of orad failures - their causes and remedies 7.2 Maintenance of bituminous road such as patch work and resurfaceng 7.3 Maintenance of concrete roads - filling cracks, repairing joints, maintenance of traffic control devices. Output and use of the following plant and equipment 8.1 Hot mixing plant8.2 Tipper, tractors (wheel and crawler) scraper, bulldozer, dumpers, shovels, graders, roller dragline8.3 Asphalt mixer and tar boilers 8.4 Road pavers 8.5 Modern construction equipments for roads. 9.1 Basic concept of traffic study 9.2 Traffic safety and traffic control signal 9.3 Road junctions 9.4 Traffic island and refuge island; advantages and disadvantages 10.1 Meaning of landscaping and arboriculture 10.2 Aesthetics in road side development		Revision	ω	18-12-2021	16-02-2021	W 13	13
Subject: Railway & Bridge Engineering Numbers of Classes to be Covered To Scheduled different types of bends 6.1 Necessity of road drainage work, cross drainage works 6.2 Surface and sub-surface drains and storm water drains. Location, spacing and typical details of side drains, side ditches pipe drains in hill roads, details of drains in cutting embankment, typical cross sections 7.1 Common types of road failures – their causes and remedies 7.2 Maintenance of bituminous road such as patch work and resurfacing 7.3 Maintenance of concrete roads – filling cracks, repairing joints, mixing plants.2 Tipper, tractors (wheel and crawler) scraper, bulldozer, dumpers, shovels, graders, roller dragline8.3 Asphalt mixer and tar boilers 8.4 Road pavers 8.5 Modern construction equipments for roads. 9.1 Basic concept of traffic study 9.2 Traffic safety and traffic control signal 9.3 Road junctions	road	and refuge island; advantages and andscaping and arboriculture 10.2	ω	15-12-2021	13-12-2021	W 12	12
Subject: Railway & Bridge Engineering Numbers of Classes to be Covered To Classes to be To Classes to be Classes to be		8.4 Road pavers 8.5 Modern construction equipments for roads. 9 Basic concept of traffic study 9.2 Traffic safety and traffic control signal 9.3 Road junctions	ယ	11-12-2021	09-12-2021	W 11	11
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Subject: Railway & Bridge Engineering Period Numbers of Classes to be Scheduled Topics to be covered	tches 28/11 is holiday.	different types of bends 6.1 Necessity of road drainage work, cross drainage works 6.2 Surface and sub-surface drains and storm wat drains. Location, spacing and typical details of side drains, side differ surface drainage, intercepting drains		29-11-2021	24-11-2021	8 W	∞
Subject: Railway & Bridge Engineering			Numbers Classes to Schedule			Week No	SI No
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John Mary Commission