#132, AECS Layout, IT Park Road, Kundalahalli,

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CMR INSTITUTE OF TECHNOLOGY



DEPARTMENT OF CIVIL ENGINEERING

Lesson Plan for the Even sem – 2016

<u>Semester – 8</u>

Subject Code: 10CV81

Subject Name: Advanced Concrete Technology

SEMESTER	: 8 th	NAME OF THE FACULTY	: Vibha. N Dalawai
BRANCH	: CV	DATE OF COMMENCEMENT	: 18-01-2016
SUBJECT	: Advanced Concrete Technology	DATE OF CLOSING	: 21-05-2016
SUBJECT CODE	: 10CV81	CLASS STRENGTH	: 67
NO OF HRS/ WK	: 5	TOTAL HRS	: 46

Dates	DAY	Topics planned for the session	Teaching Aids UNITS	Assignments/Tests	planned for the chapter	Topics covered As per plan
21.01.16	1	Importance of Bogue's compounds, Structure of a Hydrated Cement				
Thursday	1	Paste,				
23.01.16	2	Volume of hydrated product,				
Saturday	3					
28.01.16		Porosity of paste and concrete	UNIT 1			
Thursday	1		CHALK			1 D E
30.01.16		Transition Zone, Elastic Modulus,	AND			12.5
Saturday	3		BOARD			
04.02.16		Factors affecting strength and elasticity of concrete,	AND PPT			
Thursday	1					
11.02.16		Rheology of concrete in terms of Bingham's parameter.				
Thursday	3					

		CHEMICAL ADMIXTURES- Mechanism of chemical		
12.02.16	1	admixture, Plasticizers their effect on concrete property in fresh and		25
Friday		hardened state,		
18.02.16		super Plasticizers their effect on concrete property in fresh and hardened	UNIT	
Thursday	3	state,	2CHALK	
25.02.16		Marsh cone test for optimum dosage of super plasticizer, retarder,	AND	
Thursday	1	accelerator, Air-entraining admixtures, new generation Super plasticiser.	BOARD	
03.03.16		MINERAL ADMIXTURE-Fly ash, effect on concrete property in fresh state	AND PPT	
Thursday	3	and hardened state.		
04.03.16		Silica fume, effect on concrete property in fresh state and hardened		
Friday	1	state.GGBS effect on concrete property in fresh state and hardened state.		
10.03.16		MIX DESIGN - Factors affecting mix design, design of concrete mix by	UNIT	
Thursday	3	BIS method using IS10262	3CHALK	
11.03.16		American (ACI)/ British (BS) methods. Provisions in revised IS10262-	AND	
Friday	1	2004.	BOARD	
18.03.16		American (ACI)/ British (BS) methods. Provisions in revised IS10262-	AND PPT	37.5
Friday	3	2004		
19.03.16		American (ACI)/ British (BS) methods. Provisions in revised IS10262-		
Saturday	1	2004.		
31.03.16		DURABILITY OF CONCRETE - Introduction, Permeability of concrete,	UNIT	
	3			
Thursday	5	chemical attack,	4CHALK	
Thursday 01.04.16		chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal	4CHALK	
Thursday 01.04.16 Friday	1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat.	4CHALK AND BOARD	50
Thursday 01.04.16 Friday 07.04.16	1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability.	4CHALK AND BOARD AND PPT	50
Thursday 01.04.16 Friday 07.04.16 Thursday	1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability.	4CHALK AND BOARD AND PPT	50
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16	1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods	4CHALK AND BOARD AND PPT UNIT	50
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday	1 3 1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete,	4CHALK AND BOARD AND PPT UNIT 5CHALK	50
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16	1 3 1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix	4CHALK AND BOARD AND PPT UNIT 5CHALK AND	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday	1 3 1 3	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16	1 3 1 3	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday	1 3 1 3 1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix.	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday	1 3 1 3 1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT UNIT	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday 28.04.16	1 3 1 3 1 3 3	 chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC in compression, tension including pre-cracking stage and post-cracking 	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT UNIT 6CHALK	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday 28.04.16 Thursday	1 3 1 3 1 3	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC in compression, tension including pre-cracking stage and post-cracking stages behavior in flexure and shear,	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT UNIT 6CHALK AND	62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday 28.04.16 Thursday 29.04.16	1 3 1 3 1 3	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC in compression, tension including pre-cracking stage and post-cracking stages behavior in flexure and shear, Ferro cement - materials, techniques of manufacture, properties and	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT 6CHALK AND BOARD	50 62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday 28.04.16 Thursday 29.04.16 Friday	1 3 1 3 1 3 1 3	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC in compression, tension including pre-cracking stage and post-cracking stages behavior in flexure and shear, Ferro cement - materials, techniques of manufacture, properties and application Light weight concrete-materials properties and types.	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT 6CHALK AND BOARD AND PPT	50 62.5
Thursday 01.04.16 Friday 07.04.16 Thursday 15.04.16 Friday 21.04.16 Thursday 22.04.16 Friday 28.04.16 Thursday 29.04.16 Friday 05.05.16	1 3 1 3 1 3 1 3 1	chemical attack, acid attack, efflorescence,Corrosion in concrete. Thermal conductivity,thermal diffusivity, specific heat. Alkali Aggregate Reaction, IS456-2000 requirement for durability. RMC concrete - manufacture, transporting,Placing, precautions,Methods of concreting- Pumping,under water concreting, shotcrete, High volume fly ash concrete concept, properties, typical mix Self compacting concrete concept, materials, tests, properties, application and Typical mix. Fiber reinforced concrete - Fibers types and properties, Behavior of FRC in compression, tension including pre-cracking stage and post-cracking stages behavior in flexure and shear, Ferro cement - materials, techniques of manufacture, properties and application Light weight concrete mix	4CHALK AND BOARD AND PPT UNIT 5CHALK AND BOARD AND PPT 6CHALK AND BOARD BOARD AND PPT	50 62.5

06.05.16	1	High density concrete-materials, properties and applications, typical mix	UNIT	
Friday	T		7CHALK	
		high performance concrete- materials, properties and applications, typical	AND	87.5
16.05.16		mix	BOARD	
Monday			AND PPT	
17.05.16		Test on Hardened concrete-Effect of end condition of specimen, capping,	UNIT 8	
Tuesday			CHALK	
18.05.16		H/D ratio, rate of loading, moisture condition.	AND	
Wednesday			BOARD	100
19.05.16		Compression, tension and flexure tests.	AND PPT	
Thursday				

Book Type	Code	Author & Title	Publication	n info	
Book Type	couc	Autor & Tite	Edition & Publisher	ISBN #	
Text Book	TB1	Concrete Mix Design- N. Krishna Raju	Sehgal Publishers		
Ref book	RB1	Properties of Concrete- Neville,	Pearson	978 81 775 8587 2	
Ref book	RB2	Concrete Technology- Neville,	Pearson	978 87317 0536 0	
Ref book	RB3	Concrete Technology- A R Shanthakumar	Oxford university press	0 19 567153 8	
Ref book	RB4	Non-Destructive Test and Evaluation of Materials- J.Prasad, C G K Nair	Mc Graw Hill.	978-1259061615	
Ref book	RB5	High Performance Concrete- Prof Aitcin P C	E and FN, London.	978 0419192701	
Ref book	RB6	Properties of Fresh Concrete- Power T.C.	E and FN, London	978-0471695905	
Code book	CB1	ACI Code for Mix Design			
Code book	CB2	IS 10262-2004			

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DEPARTMENT OF CIVIL ENGINEERING

Lesson Plan for the even sem – 2016

<u>Semester – VIII</u>

Subject Code: 10CV82 Subject Name: DESIGN AND DRAWING STEEL STRUCTURES

SEMESTER	: VIII	NAME OF THE FACULTY	: Mohammed Ismail
BRANCH	: CIVIL	TE OF COMMENCEMENT	: 18-01-2016
SUBJECT	: DESIGN AND DRAWING STEEL OF STRUCT	URES DATE OF CLO	OSING : 20-04-2016
SUBJECT CODE	: 10CV822	CLASS STRENGTH	: 61
NO OF HRS/ W	/Κ:6	TOTAL HRS	: 52

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topic s cover ed As per plan
1	1/1	21/01/16	UNIT 1: beam-beam connection -	Board,		
2	2/1	22/01/16	bolted ,welded beam-beam connection – bolted,welded	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3	3/1	23/01/16	beam-beam connection – bolted,welded	,,		
4	3/1	28/01/16	beam-beam connection – bolted,welded			
5	3/1	29/01/16	Beam- column connection – bolted,welded			
4	1/2	30/01/16	Beam- column connection – bolted.welded	,,		
5	2/2	04/02/16	Beam- column connection – bolted,welded	,,	Assignment-1	
6	3/2	05/02/16	Seated unstiffened bolted,welded connection	,,		
7	4/2	11/02/16	Seated unstiffened bolted ,welded connection	,,		
8	4/2	12/02/16	Seated unstiffened bolted ,welded connection	"		
9	5/2	13/02/16	Seated stiffened bolted ,welded	Board,		

	1	r				
			connection	Chalk, PPT		
10	1/3	18/02/16	Seated stiffened bolted,welded	,,	Assignment –II	
			connection			
11	2/3	25/02/16	Seated stiffened bolted, welded	"		
			connection			
12	3/3	26/02/16	welded plate girder (Design)	,,		
13	4/3	29/02/16	welded plate girder (Design)	,,		
14	5/3	03/03/16	welded plate girder (Drawing)	,,		
15	6/3	04/03/16	welded plate girder (Drawing)	,,		
16	1/4	05/03/16	welded plate girder (Drawing)	,,		
17	2/4	10/03/16	Splices, Column-column of same sections	"		
18	3/4	11/03/16	Splices, Column-column of same	"	Assignment –III	
10	A /A	17/03/16	Splices Column-column of			
15		17703710	different sections	"		
20	5/4	18/03/16	Splices. Column-column of			
	- /	-,,-	different sections			
21	6/4	19/03/16	Bolted roof truss - design			
20	1/5	24/03/16	Bolted roof truss - design	,,		
21	2/5	31/03/16	Bolted roof truss - design	,,		
22	3/5	01/04/16	Bolted roof truss -drawing	,,		
23	4/5	02/04/16	Bolted roof truss –drawing	,,		
24	5/5	06/04/16	Bolted roof truss -drawing	,,		
25	6/5	07/04/16	Drawing of Lacings	Board,		
				Chalk, PPT		
26	7/5	15/04/16	Drawing of Lacings	,,		
27	8/5	16/04/16	Drawing of battens	,,		
28	1/6	21/04/16	Drawing of battens	,,	Assignment -IV	
29	2/6	22/04/16	Welded roof truss -design	,,		
30	3/6	23/04/16	Welded roof truss -design	,,		
31	4/6	28/04/16	Welded roof truss -drawing	,,		
32	1/7	29/04/16	Welded roof truss -drawing	,,		
33	2/7	30/04/16	Welded roof truss -drawing			
33	3/7	5/05/16	Slab bases			
34	4/7	6/05/16	Slab bases	Board,		

				Chalk, PPT	
35	5/7	7/05/16	Gusseted bases	,,	

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DEPARTMENT OF CIVIL ENGINEERING

Lesson Plan for the even sem – 2016

<u>Semester – 8</u>

Subject Code : 10CV833

Subject Name : PAVEMENT DESIGN

NAME OF THE FACULTY SEMESTER : VIII A : Dr Asha M Nair BRANCH : CIVIL DATE OF COMMENCEMENT : 23-01-2015 SUBJECT : PAVEMENT DESIGN DATE OF CLOSING :07-05-2016 SUBJECT CODE : 10CV833 **CLASS STRENGTH** :61 NO OF HRS/ WK : 6 **TOTAL HRS** : 68

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/1	28.01.16	Unit 1	Board, chalk		
			 Introduction: General introduction about the subject, text books and 			

			references			
2	2/1	28.01.16	Desirable characteristics of pavement, Types and components	"		
3	3/1	29.01.16	Design strategies of variables- Functions of sub-grade, sub base, base course, surface course	"		
4	4/1	29.01.16	Comparison between Rigid and flexible pavement	"		
5	5/1	30.01.16	Comparison continued	"		
6	6/1	30.01.16	Difference between Highway pavement and Air field pavement	"		
7	7/1	04.02.16	Comparison continued	"		
8	1/2	04.02.16	Unit 2: Fundamentals of design of pavements: Design life – Traffic factors, Climatic factors, Road geometry	"		
9	2/2	05.02.16	Subgrade strength and drainage	Board,		
				chalk		
10	3/2	05.02.16	Stresses and deflections, Boussinesqs theory – principle, Assumptions – Limitations.	"		
11	4/2	11.02.16	Problems	"	Assignment 1 (comprising of I, 2 and 3 units)	
12	5/2	11.02.16	Busmister theory – Two layered analysis – Assumptions	"		
13	6/2	12.02.16	Problems	"		
14	7/2	12.02.16	Problems	,,		
15	1/3	13.02.16	Unit 3: Design factors: Design wheel load	"		
16	2/3	13.02.16	Contact pressure – ESWL concept	,,		
17	3/3	18.02.16	Determination of ESWL by equivalent deflection criteria	"		
18	4/3	18.02.16	Problems on above	,,		

19	5/3	25.02.16	Determination of ESWL by equivalent Stress criteria			
20	6/3	25.02.16	Problems on above	Board, chalk		
21	7/3	26.02.16	EWL concept	"		
22	8/3	26.02.16	Problems on above	"		
23	1/4	03.03.16	Unit 4: Flexible pavement design	Board,		
			McLeod Method –Assumptions and Principle - Problems	chalk		
24	2/4	03.03.16	Kansas method – Assumptions and Principle -Problems			
25	3/4	04.03.16	Tri-axial method - Assumptions and Principle - Problems			
26	4/4	04.03.16	CBR method – IRC Method (old) - Assumptions and Principle - Problems	"		
27	5/4	05.03.16	CSA Method using IRC 37-2001	"		
28	6/4	05.03.16	Problems on above.	"		
29	7/4	10.03.16	Problems on above.			
30	1/5	10.03.16	Unit 5: Stresses in rigid pavement Principle – Factors - wheel load and its repetition	"	Assignment 2 (comprising of 4, 5 and 6 units)	
31	2/5	11.03.16	Properties of sub grade – properties of concrete.	"		
32	3/5	11.03.16	External conditions – joints – Reinforcement	"		
33	4/5	17.03.16	Analysis of stresses – Assumptions – Westergaard's Analysis – Modified Westergaard equations	"		
34	5/5	17.03.16	Critical stresses – Wheel load stresses, Warping stress – Frictional stress –	Board, chalk		
35	6/5	18.03.16	Combined stresses (using chart / equations) - problems on above.	,,,		

36	7/5	18.03.16	Problems continued	"		
37	1/6	19.03.16	Unit 6: Design of rigid pavement Design of C.C. Pavement by IRC: 38 – 2002 for dual and Tandem axle load	"		
38	2/6	19.03.16	Continued with design	,,		
39	3/6	24.03.16	Problems	"		
40	4/6	31.03.16	Reinforcement in slabs – Requirements of joints	"		
41	5/6	01.04.16	Reinforcement in slabs – Requirements of joints	"		
42	6/6	01.04.16	Types of joints – Expansion joint – contraction joint- warping joint – construction joint – longitudinal joint	"		
43	7/6	02.04.16	Design of joints, Design of Dowel bars,	"		
44	8/6	02.04.16	Design of Tie bars	"		
45	9/6	07.04.16	Problems	"		
46	1/7	07.04.16	Unit 7: Flexible pavement failures, maintenance and evaluation	"		
			Types of failures, causes, remedial/maintenance measures in flexible pavements			
47	2/7	15.04.16	Functional Evaluation by visual inspection and unevenness measurement by using different techniques	"		
48	3/7	15.04.16	Structural Evaluation by Benkelman Beam Deflection Method,	"		
49	4/7	16.04.16	Falling weight deflectometer, GPR Method.		Assignment 2 (comprising of 7 and 8 units)	
50	5/7	16.04.16	Design factors for Runway Pavements			
51	6/7	21.04.16	Design methods for Airfield pavements and problems on above			
52	7/7	21.04.16	Problems	,,,		

53	8/7	22.04.16	Problems	Board, chalk, duster	
54	1/8	22.04.16	Unit 8: Rigid pavement failures, maintenance and evaluation	"	
			Types of failures, causes, in rigid pavements		
55	2/8	23.04.16	Continued with remedial/maintenance measures	"	
56	3/8	23.04.16	Functional Evaluation by visual inspection	"	
57	4/8	28.04.16	Unevenness measurements.	,,	
58	5/8	28.04.16	Design factors for Runway Pavements -	,,	
59	6/8	29.04.16	Design methods for Airfield pavements	,,	
60	7/8	29.04.16	Problems	,,	
61	8/8	30.04.16	Problems	,,	
62		30.04.16	Revision –Unit 1 and Unit 2	,,	
63		05.05.16	Revision - Unit 3	,,	
64		05.05.16	Revision- Unit 4	,,	
65		06.05.16	Revision- Unit 5	,,	
66		06.05.16	Revision- Unit 6	,,	
67		07.05.16	Revision- Unit 7	,,	
68		07.05.16	Revision- Unit 8	,,	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 22
T2	Class # 23 - 45

Improvement Test Class # 46 -

* See calendar of events for the schedules of IATs.

Literature:

			Publication info		
Book Type	Code	Author & Title	Edition & Publisher	ISBN #	
Text Book	TB1	"Principles & Practices of Highway Engineering- L R Kadiyalli & N B. Lal	Khanna Publishers.	81-7409- 165-3	
Text Book	TB2	"Highway Engineering" - Khanna & Justo	Nem Chand & Brothers	8185240779	
References	RB1	"Pavement Analysis & Design - Yang H. Huang	Prentice Hall; 2 edition	978- 0131424739	

10CV843– Urban Transport Planning

Name of the Faculty: Preethi Raj

Total No of Hrs: 60

Hrs / week: 5

Class Chapter Title # / Reference		Торіс	Percentag co	ge of portion vered
	Literature		Referen ce(%)	Cumulative
1		Scope of Urban transport planning	12.5%	12.5%
2	RB1 -29.1-	Scope of Urban transport planning		
3	29.3	Inter dependency of land use and traffic		
4	RB2 – 1.1.1 -	Inter dependency of land use and traffic		
5	1.10	System Approach to urban planning		
6		System Approach to urban planning		
7		System Approach to urban planning		
8		System Approach to urban planning		

9		STAGES IN URBAN TRANSPORT PLANNING	12.5%	25%
10	-	Trip generation		
11	RB1- 29.4,	Trip production		
12	30.1, 31.1, 32.1, 32.1, 34.1,	Trip distribution		
13	33.1	Modal split		
14	RB2 – 8.1,	Modal split		
15	0.2, 0.3, 0.3	Modal split		
16		Trip assignment		
		Trip assignment		
17		URBAN TRANSPORT SURVEY	12.5%	37.5%
18		Definition of study area-Zoning		
19	RB1 – 30.1,	Definition of study area-Zoning		
20	30.2, 30.3,	Types of Surveys		
21	30.4, 30.13,	Types of Surveys		
22	30.15	Types of Surveys		
23	RB2 – 7.2.5,	Inventory of transportation facilities		
24	7.4.3 – 7.5	Inventory of transportation facilities		
25		Expansion of data from sample.		
26		Expansion of data from sample.		
27		TRIP GENERATION:	12.5%	50%
28	DD1 01 1	Trip purpose		
29	RDI - 31.1-	Factors governing trip generation and attraction		
30	RB2 - 8.2	Category analysis		
31		Problems on above		
32		Problems on above		
33	-	TRIP DISTRIBUTION:	12.5%	62.5%
34	-	Methods – Growth factors methods – Synthetic methods		
35	DD1 221	Methods – Growth factors methods – Synthetic methods		
36	32.7	Methods – Growth factors methods – Synthetic methods		
37	RB2 – 8.3	Fractor and Furness method and problems on the		
		above.		
38		Fractor and Furness method and problems on the		
39			12.5%	75%
1	1		1	1

40		Factors affecting – characteristics of split		
41	RB1 – 34.1-	Factors affecting – characteristics of split		
42	RB2 – 8.4	Model split in urban transport planning		
43		Model split in urban transport planning		
44		Model split in urban transport planning		
45		problems on above		
46		problems on above	-	
47		TRIP ASSIGNMENT:	12.5%	87.5%
48		Assignment Techniques		
49	DD1 33 1	Traffic fore casting	-	
50	33.5, 36.1-	Land use transport models	-	
51	36.5	Lowry Model	-	
52	RB2 – 8.5	Garin Lowry model		
53		Garin Lowry model	-	
54		Applications in India – (No problems on the above		
55		URBAN TRANSPORT PLANNING FOR SMALL AND	12.5%	100%
		MEDIUM CITIES:		
56		Introduction		
57	RB1 – 37.1-	Difficulties in transport planning LHGYFEENXEA	1	
58	57.5	Difficulties in transport planning	1	
59		Recent Case studies	1	
60		Difficulties in transport planning – Recent Case studies	1	

Syllabus for Sessionals :

Sessional #	Syllabus
T1	Class # 1-22
T2	Class # 23- 46
Т3	Class # 47-60

Literature:

Book type	Code	Author & Title	Publication Info	
			Edition &	ISBN #
			Publisher	
Reference Book	RB1	Traffic Engineering and	Khanna	81-7409-220-X
		Transport Planning- L.R.	Publishers	

		Kadiyali		
Reference Book	RB2	Transportation Engineering & Planning – C.S. Papacostas &	Eastern Economy Edition – PHI	978-81-203-2154-0
		P.D. Prevedouros		
Reference Book	RB3	Principles of urban transport system planning - B.G.	Scripta Book Co., Washington D.C.	
		Hutchinson	Book Co	