

LESSON PLAN FOR THE ODD SEM – 2017
SEMESTER – VII

Subject Code : 10CV71	Subject Name : ENVIRONMENTAL ENGINEERING II
SEMESTER : VII	NAME OF THE FACULTY : Ms.Bhavya K.
BRANCH : CIV	DATE OF COMMENCEMENT : 17-08-2017
SUBJECT : ENVIRONMENTAL ENGG II	DATE OF CLOSING : 25-11-2017
SUBJECT CODE : 10CV71	CLASS STRENGTH : 50
NO OF HRS/ WK : 5	TOTAL HRS : 50

Sessio n No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teachin g Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1		14.08.17	Introduction and syllabus briefing	Chalk & Board		
2	1/1	18.08.17	UNIT 1: Introduction Introduction	„		
3	2/1	19.08.17	Necessity for sanitation & methods of domestic waste water disposal	„		
4	3/1	19.08.17	Types of sewerage systems and their suitability	„		
5	4/1	21.08.17	Dry weather flow, factors affecting dry weather flow	„		
6	5/1	22.08.17	Flow variations and their effects on design of sewerage system	„		
7	6/1	28.08.17	Computation of design flow, estimation of storm flow	„		
8	7/1	29.08.17	Rational method and empirical formulae	Chalk &		

			of design of storm water drain. Time of concentration	Board		
9	1/2	29.08.17	UNIT 2: Design of Sewers Hydraulic formulae for velocity	„		
10	2/2	30.08.17	Effects of flow variations on velocity	„		
11	3/2	31.08.17	Self cleansing and non scouring velocities	„		
12	4/2	04.09.17	Design of hydraulic elements for circular sewers flowing full and flowing partially full (No derivations)	„		
13	5/2	06.09.17	Design Problems	„		
14	6/2	06.09.17	Design Problems	„		
15	7/2	07.09.17	MATERIALS OF SEWERS: Sewer materials, shapes of sewers, laying of sewers	PPT		
16	8/2	08.09.17	Joints and testing of sewers, ventilation and cleaning of sewers	PPT	Assignment -I	
17	1/3	12.09.17	UNIT 3: Sewer Appurtenances Catch basins, manholes, Flushing tanks, oil and grease traps	PPT		
18	2/3	13.09.17	Drainage traps. Basic principles of house drainage	PPT		
19	3/3	13.09.17	Typical layout plan showing house drainage connections	Chalk & Board		
20	4/3	14.09.17	Maintenance of house drainage	„		
21	1/4	15.09.17	UNIT 4: Waste Water Characterization Sampling, Significance, techniques and frequency	„		
22	2/4	25.09.17	Physical Characteristics	„		
23	3/4	26.09.17	Chemical Characteristics	„		
24	4/4	26.09.17	Biological Characteristics	Chalk & Board		
25	5/4	27.09.17	Aerobic and Anaerobic activity	„		

26	6/4	28.09.17	COD and BOD	„		
27	7/4	06.10.17	CNS Cycles and their significance	„		
28	8/4	07.10.17	Problems	„		
29	9/4	07.10.17	Problems	„	Assignment -II	

30	1/5	09.10.17	UNIT 5: Disposal of Effluents Disposal of Effluents by dilution, self purification phenomenon	„		
31	2/5	10.10.17	Oxygen sag curve, Zones of purification	„		
32	3/5	13.10.17	Sewage farming, sewage sickness, Effluent Disposal standards for land, surface water and ocean	„		
33	4/5	14.10.17	Numerical Problems on Disposal of Effluents	Chalk & Board		
34	5/5	14.10.17	Numerical Problems on Disposal of Effluents	„		
35	1/6	16.10.17	UNIT 6: Treatment of Waste water Flow diagram of municipal waste water treatment plant	„		
36	2/6	17.10.17	Preliminary & Primary treatment	„		
37	3/6	25.10.17	Screening, grit chambers. Skimming tanks, primary sedimentation tanks	PPT		
38	4/6	26.10.17	Design criteria & Design examples	Chalk & Board		
39	5/6	26.09.17	Design criteria & Design examples	„	Assignment - III	
40	1/7	27.09.17	UNIT 7: Secondary Treatment Suspended growth and fixed film bioprocess	„		
41	2/7	28.10.17	Trickling filter – theory and operation	„		
42	3/7	02.11.17	Types and designs	„		

43	4/7	03.11.17	Activated sludge process- Principle and flow diagram	„		
44	5/7	03.11.17	Modifications of ASP	„		
45	6/7	04.11.17	F/M ratio. Design of ASP	„		
46	1/8	09.11.17	UNIT 8 Anaerobic Sludge digestion	„		
47	2/8	14.11.17	Sludge digestion tanks	„		
48	3/8	15.11.17	Design of Sludge drying beds. Low cost waste treatment method	„		
49	4/8	15.11.17	Septic tank, Oxidation Pond and Oxidation ditches	„		
50	5/8	16.11.17	Design. Reuse and recycle of waste water	„	Assignment - IV	

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 – 20
T2	Class # 21 – 39
T3	Class # 40 - 50

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Textbook	TB1	Dr. B. C. Punmia. “Wastewater Engineering”	2 nd Edition Laxmi	8131805964, 9788131805961
Textbook	TB2	S.K . Garg “Sewage disposal and Air Pollution Engineering”	22 nd Edition Khanna	9788174092304

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DEPARTMENT OF CIVIL ENGINEERING

Reference	RB1	Metcalf & Eddy “Wastewater Engineering: Treatment, Disposal and Reuse ”	5 th Edition McGraw Hill	9780071122504
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Subject Code: 10CV72 **SEMESTER : VII**
NAME OF THE FACULTY : K SHIJINA PADMANABHAN
BRANCH : CIVIL **DATE OF COMMENCEMENT : 16-08-2017**
SUBJECT : DESIGN OF STEEL STRUCTURES
DATE OF CLOSING : 25-11-2017 **CLASS STRENGTH: 51**
NO OF HRS/ WK: 6 **TOTAL HRS : 50**

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 2/1	16/08/17 17/08/17	UNIT-1 INTRODUCTION: Advantages and Disadvantages of Steel structures	PPT		
2	3/1	19/08/17	Loads and Load combinations, Design considerations	PPT		
3	4/1	19/08/17	Limit State Method(LSM) of design,	PPT		
4	5/1 6/1	21/08/17 22/08/17	Failure criteria for steel, Codes, Specifications and section classification	PPT		
5	1/2 2/2	23/08/17 24/08/17	UNIT-2 BOLTED CONNECTIONS: Introduction	Board,	Assignment-1	
6	3/2 4/2	29/08/17 29/08/17	Design strength of ordinary Black Bolts, Design strength of High Strength Friction Grip bolts	„		

			(HSFG)			
7	5/2 6/2	30/08/17 31/08/17	Moment resistant connections, Beam to Beam connections, Beam and Column splices, Semi rigid connections	„		
8	1/3 2/3	01/09/17 04/09/17	UNIT-3 WELDED CONNECTIONS: Introduction, Welding process, Welding electrodes, Advantages of Welding, Types and Properties of Welds,	Board,		
9	3/3 4/3	06/09/17 06/09/17	Types of joints, Weld symbols, Weld specifications, Effective areas of welds, Design of welds, Simple joints	„		
10	5/3 6/3	07/09/17 08/09/17	Moment resistant connections, Continuous Beam to Column connections, Continuous Beam to Beam connections, Beam Column splices, Tubular connections	„		
11	1/4 2/4	09/09/17 11/09/17	UNIT-4 Plastic Behaviour of Structural Steel: Introduction, Plastic theory	Board,	Assignment –II	
12	3/4 4/4	13/09/17 13/09/17	Plastic hinge concept, Plastic collapse load, conditions of plastic analysis	„		
13	5/4 6/4	14/09/17 15/09/17	Theorem of Plastic collapse, Methods of Plastic analysis	„		
14	7/4	22/09/17	Plastic analysis of continuous beams.	„		
15	1/5	23/09/17	UNIT-5	Board,		

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	2/5	26/09/17	Design of Tension Members: Introduction, Types of tension members, Design of strands, Slenderness ratio,			
16	3/5 4/5	26/09/17 27/09/17	Behaviour of tension members, Modes of failure, Factors affecting the strength of tension members	„		
17	5/5 6/5	28/09/17 03/10/17	Angles under tension, Other sections, Design of tension member, Lug angles, Splices, Gussets	„		
18	1/6 2/6	03/10/17 04/10/17	UNIT-6 Design of Compression Members: Introduction, Failure modes,	Board,		
19	3/6 4/6	07/10/17 07/10/17	Behaviour of compression members, Elastic buckling of slender compression members	„		
20	5/6 6/6	09/10/17 10/10/17	Sections used for compression members, Effective length of compression members,	„		
21	7/6 8/6	11/10/17 12/10/17	Design of compression members, Built up compression members	„		
22	1/7 2/7	14/10/17 14/10/17	UNIT-7 Design of Column Bases: , Introduction and basics	Board,	Assignment -III	
23	3/7 4/7	16/10/17 17/10/17	Design of simple slab base			
24	5/7 6/7	23/10/17 24/10/17	Design of gusseted base	„		

25	1/8 2/8	26/10/17 26/10/17	UNIT-8 Design of Beams: Introduction, Beam types, Lateral stability of beams,	Board,		
26	3/8 4/8	27/10/17 28/10/17	factors affecting lateral stability, Behaviour of simple and built-up beams in bending(without vertical stiffeners),	„		
27	5/8 6/8	30/10/17 31/10/17	Design strength of laterally supported beams in Bending, Design strength of laterally unsupported beams	„		
28	7/8	03/11/17	Shear strength of steel beams, Maximum deflection, Design of beams and purlins	„		
29		06/11/17 to 16/11/17	Revision	Board,		

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 – 10
T2	Class # 11 – 19
T3	Class # 20 - 28

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Textbook	TB1	S K Duggal. “ Limit State Design of Steel Structures ”	2 nd Edition McGraw Hill	93-5134-349-9
Textbook	TB2	N.Subramanian. “ Design of Steel Structures ”	12 nd Edition Oxford	0-19-567681-5
Reference	RB1	Bureau of Indian Standards, IS800-2007	Third Revision BIS	-
Reference	RB2	R Agor “ Steel Tables ”	- Birla	

Subject Code: 10CV73

Subject Name: ESTIMATION & VALUATION

SEMESTER : 7 B

NAME OF THE FACULTY : GURUPRASAD H C

BRANCH : CV

DATE OF COMMENCEMENT : 07-08-2017

SUBJECT : ESTIMATION & VALUATION

DATE OF CLOSING : 25-11-2017

SUBJECT CODE : 10CV73

CLASS STRENGTH : 54

NO OF HRS/ WK : 6

TOTAL HRS : 57

Sess ion No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teachin g Aids	Assignment s/ Tests planned for the chapter	Topics covered As per plan
1	1/6	07/08/2017	<u>Introduction to Unit-6.</u>	Chalk and talk		
2	2/6	07/08/2017	Methods for computation of earthwork.	Chalk and talk		
3	3/6	09/08/2017	Methods for computation of earthwork – cross sections – mid section formula or average end area or mean sectional area	Chalk and talk		
4	4/6	09/08/2017	Methods for computation of earthwork Trapezoidal & prismoidal formula with and without cross slopes.	Chalk and talk		
5	5/6	10/08/2017	Methods for computation of earthwork Trapezoidal & prismoidal formula with and without cross slopes.	Chalk and talk		
6	6/6	12/08/2017	Methods for computation of earthwork Trapezoidal & prismoidal formula with and without cross slopes.	Chalk and talk		
7	1/5	14/08/2017	<u>Introduction to Unit-5,</u> Definition and purpose.	Chalk and talk		
8	2/5	14/08/2017	Working out quantities and rates for earth work in different types of soils.	Chalk and talk, role play		
9	3/5	17/08/2017	Working out quantities and rates for cement concrete of different mixes.	Chalk and talk		
10	4/5	17/08/2017	Working out quantities and rates for bricks and stone masonry.	Chalk and talk, role play		
11	5/5	18/08/2017	Working out quantities and rates for flooring, plastering. RCC works.	Chalk and talk		

12	6/5	21/08/2017	Working out quantities and rates for centering and form work for different RCC items, wood and steel works for doors, windows and ventilators..	Chalk and talk		
13	1/4	22/08/2017	Introduction to Unit-4 Definition of specifications, objective of writing specifications.	Chalk and talk, role play		
14	2/4	22/08/2017	Essentials in specifications.	Chalk and talk		
15	3/4	24/08/2017	General and detail specifications of common item of works in buildings.	Chalk and talk		
16	4/4	24/08/2017	General and detail specifications of common item of works in buildings.	Chalk and talk		
17	5/4	28/08/2017	General and detail specifications of common item of works in buildings.	role play		
18	1/7	30/08/2017	Introduction to unit-7. CONTRACTS: Types of contract – essentials of contract agreement	role play		
19	2/7	31/08/2017	Legal aspects, penal provisions on breach of contract. Definition of the terms – Tender, earnest money deposit, security deposit, tender forms, documents and types.	role play		
20	3/7	31/08/2017	Acceptance of contract documents. Termination of contract, completion certificate, quality control, right of contractor, refund of deposit.	role play		
21	4/7	04/09/2017	Administrative approval – Technical sanction. Nominal muster roll, measurement books – procedure for recording and checking measurements– preparation of bills,	role play		
22	5/7	04/09/2017	Valuation- Definitions of various terms, method of valuation, Freehold & Leasehold properties,	role play		
23	6/7	05/09/2017	Valuation-. Sinking fund, depreciation and method of estimating depreciation, Outgoings.	Chalk and talk		
24	7/7	08/09/2017	Numerical problems on valuation.	Chalk		

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				and talk		
25	8/7	08/09/2017	Numerical problems on valuation.	Chalk and talk		
26	1/2	11/09/2017	Introduction to Unit-2. Different type of estimates.	Chalk and talk, LCD		
27	2/2	11/09/2017	Approximate methods of estimating buildings, cost of materials.	Chalk and talk, LCD		
28	3/2	12/09/2017	Approximate methods of estimating buildings, cost of materials.	Chalk and talk, LCD		
29	4/2	14/09/2017	Approximate methods of estimating buildings, cost of materials.	Chalk and talk, LCD		
30	4/2	15/09/2017	Estimation of wooden joineries such as doors.	Chalk and talk, LCD		
31	5/2	15/09/2017	Estimation of wooden joineries such as doors.	Chalk and talk, LCD		
32	1/3	23/09/2017	Estimate of Steel truss (Fink and Howe truss)	Chalk and talk, LCD		
33	2/3	23/09/2017	Estimate of Steel truss (Fink and Howe truss)	Chalk and talk, LCD		
34	3/3	25/09/2017	Estimate of Manhole and septic tanks.	Chalk and talk, LCD		
35	4/3	27/09/2017	Estimate of Manhole and septic tanks.	Chalk and talk, LCD		

36	5/3	28/09/2017	Estimate of Manhole and septic tanks.	Chalk and talk, LCD		
37	6/3	28/09/2017	Estimate of RCC Culverts.	Chalk and talk, LCD		
38	7/3	04/10/2017	Estimate of RCC Culverts	Chalk and talk, LCD		
39	8/3	04/10/2017	Estimate of RCC Culverts.	Chalk and talk, LCD		
40	1/1	06/10/2017	Unit-1 Introduction. Study of various drawings with estimates Units of measurement.	Chalk and talk, LCD		
41	2/1	09/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method.	Chalk and talk, LCD		
42	3/1	10/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
43	4/1	10/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
44	5/1	12/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems,	Chalk and talk, LCD		
45	6/1	12/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
46	7/1	13/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing	Chalk and talk,		

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			method, Problemsco-ordinates	LCD		
47	8/1	16/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
48	9/1	17/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems	Chalk and talk, LCD		
49	10/1	17/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
50	11/1	24/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
51	12/1	24/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems	Chalk and talk, LCD		
52	13/1	25/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
53	14/1	27/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk, LCD		
54	15/1	28/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk		
55	16/1	28/10/2017	Abstract Methods of taking out quantities and cost – center line method, long and short wall method or crossing method, Problems.	Chalk and talk		
56	REVISION	31/10/2017	REVISION	Chalk and talk		
57	REVISION	31/10/2017	REVISION	Chalk and talk		

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Sessional #	Syllabus	DATE
T1 (IA -1)	Class # 01 – 24	18-09-2017 to 29 -11-2017
T2 (IA -2)	Class # 25 – 48	06-11-2017 to 08-11-2017
T3 (IA -3)	Class # 48 - 66	17-11-2017 to 20-11-2017

Literature:

Book Type	Code	Author & Title	Publication info Edition & Publisher
TEXT BOOK		Estimating & Costing – B N DUTTA	Chand Publications pvt. Ltd., New Delhi – 2015.
REFERENCE BOOKS		Quantity Surveying - P L BHASIN	Chand Publications pvt. Ltd., New Delhi – 2015.
REFERENCE BOOKS		“Text Book on Estimating, Costing & Accounts – D D Kohli & R C KOHLI	S CHAND Publishers New Delhi. – 2013
REFERENCE BOOKS		Contracts & Estimates – B S PATIL	University Press, New Delhi -209

Subject Code: 10CV74

Subject Name: Design of PSC Structures.

SEMESTER :VII A

NAME OF THE FACULTY

:Raghavendra PK

BRANCH :CV

DATE OF COMMENCEMENT

: 17-08-2017

SUBJECT :Design of PSC Structures.

DATE OF CLOSING

: 09-11-2016

SUBJECT CODE :10CV74

CLASS STRENGTH

: 64

NO OF HRS/ WK : 5

TOTAL HRS

: 55

Session No	Chapter no (No of hrs planned for the chapter)	date	Topics planned for the session	Teaching Aids	Assignments / Tests planned for the chapter
1	1/1	17/08	Unit 1- Materials: High strength steel and concrete, stress strain characteristics	Board, chalk	
2	2/1	18/08	High strength steel and concrete, properties	„	
3	3/1	19/08	Basic principles of pre-stressing: Fundamentals, pre-stressing concept.	Presentation , Board, chalk	
4	4/1	21/08	Pre tensioning methods.	Presentation , Board, chalk	
5	5/1	22/08	Post tensioning methods.	„	
6	6/1	23/08	Anchorage methods.	„	Assignment - I
7	1/2	24/08	Analysis of sections for flexure: Stresses in concrete due to pre-stress and loads. Theory.	Board, chalk	
8	2/2	28/08	Stresses in concrete due to pre-stress and loads. Problems	„	
9	3/2	29/08	Stresses in concrete due to pre-stress	„	

			and loads. Problems		
10	4/2	30/08	Stresses in concrete due to pre-stress and loads. Problems	„	
11	5/2	31/08	Center of thrust theory and Problems.	„	
12	6/2	01/09	Cable profiles. (Load balancing concept)	„	
13	7/2	04/09	Cable profiles. (Load balancing concept)	„	
14	8/2	05/09	Stresses in steel due to loads.	„	Assignment - II
15	1/3	07/09	Losses of pre-stress: Various losses encountered in pre-tensioning and post tensioning.	„	
16	2/3	08/09	Various losses encountered in pre-tensioning, problems.	„	
17	3/3	09/09	Various losses encountered in post tensioning, problems.	„	
18	4/3	11/09	Various losses encountered in post tensioning, problems.	„	
19	5/3	12/09	Various losses encountered in post tensioning, problems.	„	
20	6/3	13/09	Determination of jacking force	„	Assignment - III
21	1/4	14/09	DEFLECTIONS: Deflection of a pre-stressed member – Short term and long term deflections	„	
22	2/4	15/09	Elastic deflections under transfer loads and due to different cable profiles.	„	
23	3/4	22/09	Deflection limits as per IS 1343. Effect of creep on deflection, load verses deflection curve.	„	
24	4/4	23/09	Elastic deflections under transfer loads	„	

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			and due to different cable profiles. Problems.		
25	5/4	25/09	Elastic deflections under transfer loads and due to different cable profiles. Problems.	„	TEST-1
26	6/4	26/09	Elastic deflections under transfer loads and due to different cable profiles. Problems.	„	
27	7/4	27/09	methods of reducing deflection	„	Assignment - IV
28	1/5	28/09	LIMIT STATE OF COLLAPSE: Flexure -IS Code recommendations	„	
29	2/5	03/10	Ultimate flexural strength of sections.	„	
30	3/5	04/10	Ultimate flexural strength of sections.	„	
31	4/5	06/10	Ultimate flexural strength of sections, problems.	„	
32	5/5	07/10	Ultimate flexural strength of sections, problems.	„	Assignment – V
33	1/6	09/10	Shear - IS Code recommendations.	„	
34	2/6	10/10	Shear resistance of sections.	„	
35	3/6	11/10	Shear reinforcement.	„	
36	4/6	12/10	Shear reinforcement. Problems.	„	
37	5/6	13/10	Shear reinforcement. Problems.	„	
38	6/6	14/10	Shear reinforcement. Problems.	„	
39	7/6	16/10	Limit state of serviceability – control of deflections and cracking.	„	Assignment - VI
40	1/7	17/10	DESIGN OF END BLOCKS: Transmission of pre-stress in pre- tensioned members. Transmission length.	„	
41	2/7	23/10	Anchorage stress in post-tensioned members.	„	

42	3/7	24/10	Anchorage stress in post-tensioned members. Problems.	„	
43	4/7	25/10	Bearing stress and bursting tensile force-stresses in end blocks-Methods.	„	
44	5/7	26/10	I.S. Code, provision for the design of end blocks reinforcement.	„	
45	6/7	27/10	I.S. Code, provision for the design of end blocks reinforcement.	„	Assignment - VII
46	1/8	28/10	DESIGN OF BEAMS: Design of pre-tensioned and post-tensioned symmetrical.	„	
47	2/8	30/10	Design of pre-tensioned and post-tensioned symmetrical.	„	
48	3/8	31/10	Design of pre-tensioned and post-tensioned asymmetrical.	„	
49	4/8	2/11	Design of pre-tensioned and post-tensioned asymmetrical sections.	„	
50	5/8	03/11	Design of pre-tensioned and post-tensioned asymmetrical sections.	„	
51	6/8	04/11	Permissible stress. Theory and problem	„	
52	7/8	06/11	Design of pre-stressing force and eccentricity.	„	
53	8/8	9/11	Limiting zone of pre-stressing force cable profile.	„	
54		10/11	Revision	„	
55		13/11	Revision	„	
56		14/11	Revision	„	
57		15/11	Revision	„	
58		16/11	revision		

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Pre-stressed Concrete- N. Krishna Raju -	Tata Mc. Graw Publishers.	978-1-25-900336-3
Text book	TB1	Pre-stressed Concrete- P. Dayarathnam :	Oxford and IBH Publishing Co.	978 81 204 0045 0
Ref book	RB1	Design of pre-stressed concrete structures- T.Y. Lin and Ned H. Burns	John Wiley & Sons, New York.	
Code book	CB1	IS: 1343:1980		

DEPARTMENT OF CIVIL ENGINEERING

SEMESTER :VII NAME OF THE FACULTY : Mr Naresh Dixit P S
BRANCH : CIVIL ENGINEERING DATE OF COMMENCEMENT : 01.08.2017
SUBJECT : Matrix method of structural analysis DATE OF CLOSING : 19.11.2017
SUBJECT CODE : 10CV751 CLASS STRENGTH : 12
NO OF HRS/WK : 5 TOTAL HRS : 55

Sessi on No	DATE	Topics planned for the session	Teachin g Aids	Assignments / Tests planned for the chapter	Topics covered As per plan
1	8.08.17	Basics of structural analysis	PPT		
2	9.08.17	Basics of structural analysis	„		
3	10.08.17	Introduction to flexibility matrix	„		
4	12.08.17	Introduction to flexibility matrix	„		
5	17.08.17	Introduction to flexibility matrix	„		
6	17.08.17	Transformation matrix	„	Assignment- I	
7	18.08.17	Analysis of Rigid joint continuous beams	Chalk and Board		
8	19.08.17	Analysis of Rigid joint continuous beams	„		
9	22.08.17	Analysis of Rigid joint continuous beams			
10	23.08.17	Analysis of Rigid joint continuous beams			

11	24.08.17	Analysis of Rigid joint portal frames			
12	25.08.17	Analysis of Rigid joint portal frames	„		
13	26.08.17	Analysis of Rigid joint portal frames	„		
14	29.08.17	Analysis of Rigid joint portal frames	„		
15	30.08.17	Analysis of Rigid joint portal frames	„		
17	1.09.17	Analysis of Rigid joint portal frames	„		
17	2.09.17	Analysis of Rigid joint portal frames			
18	10.09.17	Analysis of Rigid joint portal frames	Board, chalk, duster		
19	13.09.17	Analysis of Rigid joint portal frames	„		
20	14.09.17	Introduction to stiffness method	„	Assignment- II	
21	15.09.17	Stiffness matrix	„		
22	17.09.17	Displacement transformation matrix	„		
23	19.09.17	Analysis of truss	„		
24	20.09.17	Analysis of truss	„		
25	21.09.17	Analysis of truss	„		
26	22.09.17	Analysis of truss	„		
27	23.09.17	Analysis of truss	Board, chalk, duster		
28	26.09.17	Analysis of rigid joint frames and continuous beams	„		
29	27.09.17	Analysis of rigid joint frames and	„		

		continuous beams			
30	28.09.17	Analysis of rigid joint frames and continuous beams	„		
31	29.09.17	Analysis of rigid joint frames and continuous beams	„		
32	3.10.17	Analysis of rigid joint frames and continuous beams	„		
33	5.10.17	Analysis of rigid joint frames and continuous beams	„		
34	6.10.17	Analysis of rigid joint frames and continuous beams	„		
35	7.10.17	Direct stiffness method	„		
36	8.10.17	Direct stiffness method	„		
37	13.10.17	Analysis of beams frames and truss by direct stiffness method	„		
38	17.10.17	Analysis of beams frames and truss by direct stiffness method	„	Assignment-III	
39	18.10.17	Analysis of beams frames and truss by direct stiffness method	„		
40	19.10.17	Analysis of beams frames and truss by direct stiffness method	„		
41	20.10.17	Analysis of beams frames and truss by direct stiffness method	„		
42	21.10.17	Introduction to matlab	„		
43	27.10.17	Introduction to matlab	Board, chalk, duster		
44	28.10.17	Introduction to matlab	„		

45	2.11.17	Introduction to matlab	„		
46	3.11.17	Introduction to matlab	„		
47	4.11.17	Introduction to matlab	„		
48	7.11.17	Introduction to matlab	„		
49	8.11.17	Introduction to matlab	„		
50	9.11.17	Introduction to matlab			

Signature of faculty

Signature of HOD

Signature of Principal

Syllabus for Internal Assessment Tests (IAT)*

IAT #	Syllabus
IAT-1	1-19
IAT-2	20-44

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Matrix analysis of framed structures	CBS Publisher	9788123911519
Text Book	TB2	Computational structural mechanics	6 th edition , Khanna Publishers	9788120317345
References	RB1	Structural analysis- Matrix approach	Mc Graw hill	9780070667358

SEMESTER : VII NAME OF THE FACULTY : Mrs. Azhaginiyal A
 BRANCH : CIVIL ENGINEERING DATE OF COMMENCEMENT : 16.08.2017
 SUBJECT : Highway Geometric design DATE OF CLOSING : 16.11.2017
 SUBJECT CODE : 10CV755 CLASS STRENGTH : 50
 NO OF HRS/WK : 5 TOTAL HRS : 50

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
1	1/1	16.08.2017	Introduction : Geometric control factors- topography	Board, chalk, duster		
2	2/1	17.08.2017	Design speed, Design vehicle	PPT		
3	3/1	21.08.2017	Traffic. Capacity , Volume	„		
4	4/1	22.08.2017	Environment and other factors as per IRC	„		
5	5/1	22.08.2017	Environment and other factors as per AASHTO	„		
6	6/1	23.08.2017	PCU concept, Factors controlling PCU for different design purpose	„		
7	1/2	24.08.2017	Cross Sectional elements: Pavement surface characteristics, Light reflecting characteristics	PPT		

8	2/2	30.08.2017	Camber – objectives and types, Methods of providing cambers in the field	„		
9	3/2	31.08.2017	Carriage way, Kerb and median, Shoulders, Bus Bays Parking lanes, service roads	„		
10	4/2	31.08.2017	Cycle tracks and drive ways	„		
11	5/2	01.09.2017	Right of way, factors influencing right of way	„		
12	6/2	04.09.2017	Design of road humps as per latest IRC provisions	„	Assign ment- I	
13	1/3	07.09.2017	Sight distance: Importance	Chalk and Board		
14	2/3	08.09.2017	Types of sight distance	„		
15	3/3	08.09.2017	Sight distance at uncontrolled intersections			
16	4/3	09.09.2017	Derivation of sight distance, Factors affecting sight distance			
17	5/3	11.09.2017	IRC standards and AASHTO standards			
18	6/3	14.09.2017	Problems on Sight distance	„		
19	1 / 4	15.09.2017	Horizontal Alignment : Definition, checking the stability of vehicle while moving on horizontal curve	„		
20	2/4	15.09.2017	Super elevation, Ruling minimum And maximum radius, Assumptions – problems	„		
21	3 /4	22.09.2017	Method of providing super Elevation for different curves	„		

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22	4/4	23.09.2017	Extra widening of pavement on curves , Objectives – Mechanical widening – psychological widening	„		
23	5/4	27.09.2017	Transition Curve Objectives – Ideal requirements – Types of transition curve			
24	6/4	28.09.2017	Method of evaluating length of transition curve	Board, chalk, duster		
25	7/4	28.09.2017	Set back distance on horizontal curve and problems on above	„		
26	8/4	03.10.2017	Problems – VTU questions	„	Assignment- II	
27	1/5	04.10.2017	Gradient –Vertical curve design criteria-	„		
28	2/5	09.10.2017	Types of summit and valley curves	„		
29	3/5	10.10.2017	Design of vertical curves based on SSD – OSD	„		
30	4/5	10.10.2017	Night visibility considerations	„		
31	5/5	11.10.2017	Design standards for hilly roads	„		
32	6/5	12.10.2017	Problems on above.	„		
33	1/6	16.10.2017	Principle	Board, chalk, duster		
34	2/6	17.10.2017	At grade Junctions	„		
35	3/6	23.10.2017	Grade separated Junctions	„		

36	4/6	24.10.2017	Channelization , Features of Channelising Island	„		
37	5/6	27.10.2017	Median opening	„		
38	6/6	28.10.2017	Gap in median at junction	„		
39	1/7	28.10.2017	Rotary Intersection: Elements –	„		
40	2/7	30.10.2017	Advantages – Disadvantages	„		
41	3/7	31.10.2017	Design guide lines	„		
42	4/7	02.11.2017	Problem on the above – Grade separated intersection	„		
43	5/7	04.11.2017	Three legged inter section – Diamond inter change	„		
44	6/7	09.11.2017	Half clover leaf, clover leaf - Disadvantages and disadvantages	„	Assign ment- III	
45	1/6	09.11.2017	Highway Drainage: Importance – sub surface drainage –surface Drainage	Board, chalk, duster		
46	2/6	10.11.2017	Design of cross sections	„		
47	3/6	13.11.2017	Hydrological – Hydraulically Considerations	„		
48	4/6	14.11.2017	Design of filter media	„		
49	5/6	15.11.2017	Design of cross section- problems on above	„		
50	6/6	21.11.2017	REVISION			

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IAT #	Syllabus
IAT-1	1-19
IAT-2	20-44

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Highway Engineering, Khanna, S.K., and Justo, C.E.G.,	10 th Edition, Nem Chand and Bros. Roorkee	13-9788185240800
Text Book	TB2	Principles and Practices of Highway Engineering, Dr.L.R.Khadyali, N.B.Lal	6 th edition , Khanna Publishers	9788174091659
References	RB1	Transportation Engineering – K P Subramanium	1st edition, Scitech Publications, Chennai	9788188429066
References	RB2	IRC 37 -2001, IRC 58-2002	2nd Revision, Indian Roads Congress	NA

Relevant IRC codes and MoRT & H specifications

SUBJECT CODE : 10CV757 **NAME OF THE FACULTY** : Karnapa Ajit
SUBJECT NAME : SOLID WASTE MANAGEMENT **BRANCH** : CIVIL
SEMESTER : VII **CLASS STRENGTH** :
DATE OF COMMENCEMENT : 07-08-2017 **DATE OF CLOSING** : 25-11-2017
NO OF HRS/ WK : 5 **TOTAL HRS** : 52

Session Number	Date	Unit	Topic	Teaching aids	Assignment
1	07-08-17	Unit1	Solid waste management - Scope and definition	Power point presentation	
2	08-08-17	Unit 1	Classification – Municipal, Commercial, Industrial	Chalk & talk	
3	09-08-17	Unit 1	Physical characteristics	Chalk & talk	
4	10-08-17	Unit-1	Chemical Characteristics	Chalk & talk	
5	11-08-17	Unit-1	Functional elements of management	Chalk & talk	
6	12-08-17	Unit-1	Methods of quantification	Chalk & talk	
7	14-08-17	Unit-2	Introduction to systems of collection collection	Chalk & talk	
8	16-08-17	Unit-2	Collection equipments, garbage chutes	Power point presentation	
9	17-08-17	Unit -2	Transfer stations – Bailing and compacting	Power point presentation	
10	18-08-17	Unit-2	Route optimization techniques	Chalk & talk	
11	19-08-17	Unit-2	Numerical problems	Chalk & talk	Assignment 1
12	21-08-17	Unit-2	Numerical problems	Chalk & talk	
13	22-08-17	Unit-3	Separation of waste components	Chalk & talk + Power point	
14	23-08-17	Unit-3	Volume reduction techniques	Chalk & talk	
15	24-08-17	Unit -3	Size reduction	Chalk & talk	
16	28-08-17	Unit-3	Chemical reduction methods	Chalk & talk	
17	29-08-17	Unit-3	Biological processing methods Composting – aerobic and	Chalk & talk + Power point	

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			anaerobic		
18	30-08-17	Unit-3	Numerical problems	Chalk & talk	
19	31-08-17	Unit-4	Introduction to incineration process	Chalk & talk + Power point	
20	01-09-17	Unit-4	3 Ts Factors affecting process	Chalk & talk	
21	04-09-17	Unit-4	Types of incineration	Chalk & talk + Power point	
22	05-09-17	Unit-4	Air pollution prevention	Chalk & talk	
23	06-09-17	Unit-4	Pyrolysis	Chalk & talk + Power point	
24	07-09-17	Unit-4	Design criteria for incineration	Chalk & talk	
25	08-09-17	Unit-4	Numerical problems	Chalk & talk	Assignment 2
26	09-09-17	Unit-5	Aerobic composting	Chalk & talk + Power point	
27	11-09-17	Unit-5	Anaerobic composting	Chalk & talk + Power point	
28	12-09-17	Unit-5	Factors affecting composting	Chalk & talk	
29	13-09-17	Unit-5	Indore process	Chalk & talk	
30	14-09-17	Unit-5	Bangalore process	Chalk & talk + Power point	
31	15-09-17	Unit-5	Mechanical and semi Mechanical process	Chalk & talk	
32	22-09-17	Unit-5	Vermi composting method	Chalk & talk	
33	23-09-17	Unit-6	Types of sanitary landfill	Chalk & talk + Power point	
34	25-09-17	Unit-6	Trench area Ramp and pit method	Chalk & talk	
35	26-09-17	Unit-6	Selection of site	Chalk & talk	
36	27-09-17	Unit-6	Steps in landfill construction	Chalk & talk	
37	28-09-17	Unit-6	Cell design aspects	Chalk & talk	
38	03-10-17	Unit-6	Methods to prevent site pollution	Chalk & talk	

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39	04-10-17	Unit-6	Leachate and gas collection, Control methods	Chalk & talk	
40	06-10-17	Unit-6	Significance of geosynthetic fibres	Chalk & talk + Power point	
41	07-10-17	Unit-7	Introduction to disposal methods Site selection	Power point	
42	09-10-17	Unit-7	Open dumping	Chalk & talk + Power point	
43	10-10-17	Unit-7	Ocean dumping. Feeding to hogs	Chalk & talk	Assignment 3
44	11-10-17	Unit-7	Sanitary landfilling concept	Chalk & talk	
45	12-10-17	Unit-7	Merits and demerits of various processing techniques	Chalk & talk	
46	13-10-17	Unit-7	Introduction to bio medical wastes	Chalk & talk + Power point	
47	14-10-17	Unit-7	Disposal of biomedical wastes	Chalk & talk	
48	16-10-17	Unit-8	Identification of recoverable materials	Power point	
49	17-10-17	Unit-8	Energy and material recovery concepts	Chalk & talk	
50	23-10-17	Unit-8	Reuse in industries	Chalk & talk	
51	24-10-17	Unit-8	Environmental significance of plastic wastes	Chalk & talk	
52	25-10-17	Unit-8	Reuse of plastic wastes	Chalk & talk	
53	26-10-17	Unit-1	Solid waste characterization numericals	Chalk & talk	
54	27-10-17	Unit-1	Solid waste characterization numericals	Chalk & talk	
55	28-10-17	Unit-2	Route optimization problems	Chalk & talk	
56	30-10-17	Unit-2	Route optimization problems	Chalk & talk	
57	31-10-17	Unit -3	Waste segregation	Case study	

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58	02-11-17	Unit -4	Incineration design examples	Chalk & talk	
59	03-11-17	Unit -4	Incineration design examples	Chalk & talk	
60	04-11-17	Unit-5	Indore method of composting	Case study	
61	09-11-17	Unit-5	Bangalore method of composting	Case study	
62	10-11-17	Unit-6	Sanitary landfill – cell design	Chalk & talk	
63	13-11-17	Unit-7	Disposal methods – comparative study	Chalk & talk	
64	14-11-17	Unit-8	Material recovery	Case study	
65	15-11-17	Unit-8	Energy recovery	Case study	
66	16-11-17		Question paper discussion	Chalk & talk	

Sessional #	Syllabus
T1	Class # 01 - 30
T2	Class # 31 -52

Literature

Book Type	Code	Author & Title	Publication info
Text Book	TB1	G. Tchobanoglous, Integrated Solid Waste Management	Mc Graw Hill, Indian Edition
Text Book	TB2	S. Peavy, R. Rowe, Environmental Engineering	Mc Graw Hill, International Edition
Reference Book	RB3	A. D. Bhide and S. S. Sundaresan, Solid waste management in developing countries	Indian National Scientific Documentation Centre, 1983
Code	CB1	Solid waste handling manual	CPHEO, 2000 and 2016
Code	CB2	Biomedical waste handling manual	CPHEO, 2000

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SEMESTER :VII NAME OF THE FACULTY : Dr Asha M Nair
BRANCH : CIVIL ENGINEERING DATE OF COMMENCEMENT : 16.08.2016
SUBJECT : Pavement Materials and Construction DATE OF CLOSING : 19.11.2016
SUBJECT CODE : 10CV763 CLASS STRENGTH : 30
NO OF HRS/WK : 5 TOTAL HRS : 51

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covered As per plan
1	1/1	16.08.2017	UNIT 1 AGGREGATES Introduction to pavements, types of pavements and requirements.	Board, chalk, duster		
2	2/1	17.08.2017	Aggregates: Origin, classification, requirements, properties Tests on road aggregates	„		
3	3/1	19.08.2017	Tests on road aggregates-	„		
4	4/1	23.08.2017	Concepts of size and gradation – design gradation,maximum aggregate size	„		
5	5/1	23.08.2017	Aggregate blending by different methods to meet specification.	„		
6	6/1	24.08.2017	Numericals to understand blending	„		
7	1/2	28.08.2017	UNIT II BITUMEN AND TAR Bitumen and Tar : Origin and preparation	„		

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8	2/2	29.08.2017	Properties and chemical constitution of bitumen	Board, chalk, duster		
9	3/2	01.09.2017	Requirements of bitumen to be used as road binding materials	„		
10	4/2	01.09.2017	Tests on bitumen	„		
13	1/4	04.09.2017	UNIT-IV BITUMINOUS MIXES Mechanical properties, dense and open textured mixes,	„		
14	2/4	05.09.2017	Flexibility and brittleness of mixes	„	Assignment- I	
15	3/4	06.09.2017	Bituminous mix, design methods using Rothfuch's Method and specifications			
16	4/4	09.09.2017	Marshal mixed design criteria			
17	5/4	09.09.2017	Marshall mix design criteria			
18	6/4	11.09.2017	Voids in mineral aggregates, voids in total mix Density, flow, stability, Percentage voids filled with bitumen.	„		
19	7/4	12.09.2017	Numerical examples on bituminous mixes	„		
20	1/3	13.09.2017	UNIT-III BITUMINOUS EMULSIONS AND CUTBACKS Preparation of emulsion and cutbacks	„		
21	2/3	22.09.2017	characteristics, uses	„		
22	3/3	22.09.2017	Tests on emulsions and cutbacks	„		
23	4/3	23.09.2017	Adhesion of Bituminous Binders to Road aggregates:			

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24	5/3	25.09.2017	Adhesion failure, mechanism of stripping	Board, chalk, duster		
25	6/3	26.09.2017	Tests and methods of improving adhesion.	„	Assignm ent- II	
26	1/6	03.10.2017	UNIT-V EQUIPMENT IN HIGHWAY CONSTRUCTION: Various equipment for excavation	„		
27	1/5	03.10.2017	Excavation equipment working principle advantages and limitations	„		
28	2/5	04.10.2017	Various equipment for grading	„		
29	3/5	06.10.2017	Grading equipments working principle advantages and limitations	„		
30	4/5	07.10.2017	Compaction equipments – their working principle, advantages and limitations.	„		
31	5/5	11.10.2017	Special equipment for bituminous Cement concrete pavement	„		
32	6/5	11.10.2017	Special equipment for bituminous stabilized soil road construction	„		
33	1/6	12.10.2017	UNIT-VI SUBGRADE: Earthwork grading and construction of embankments	Board, chalk, duster		
34	2/6	13.10.2017	Earthwork grading and construction of embankments	„		
35	3/6	14.10.2017	Earthwork grading and construction in cuts	„		
36	4/6	22.10.2017	Preparation of subgrade for pavement	„		
37	5/6	22.10.2017	Quality control tests on subgrade	„		

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38	6/6	23.10.2017	Quality control tests on subgrade	„		
39	1/7	25.10.2017	UNIT-VII FLEXIBLE PAVEMENTS: Specifications of materials	„		
40	2/7	26.10.2017	Construction method for flexible pavements	„		
41	3/7	30.10.2017	Construction method for flexible pavements	„		
42	4/7	30.10.2017	Construction method for flexible pavements	„		
43	5/7	31.10.2017	Field control checks on pavements	„		
44	6/7	02.11.2017	Field control checks on pavements	„	Assignm ent- III	
45	1/8	03.11.2017	UNIT VIII CEMENT CONCRETE PAVEMENTS: Specifications	„		
46	2/8	03.11.2017	Method of cement concrete pavement construction	„		
47	3/8	10.11.2017	Method of cement concrete pavement construction	„		
48	4/8	10.11.2017	Quality control tests	„		
49	5/8	13.11.2017	Quality control tests	Board, chalk, duster		
50	6/8	14.11.2017	Construction of various types of joints.	„		
51	7/8	15.11.2017	Discussion on old VTU Question papers	„		

Signature of faculty

Signature of HOD

Signature of Principal

Syllabus for Internal Assessment Tests (IAT)*

IAT #	Syllabus
IAT-1	1-19
IAT-2	20-44
Improvement Test	45-52

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Highway Engineering, Khanna, S.K., and Justo, C.E.G., : Nem	10 th Chand and Bros. Roorkee	
Text Book	TB2	Principles and Practices of Highway Engineering, Dr.L.R.Khadyali, N.B.Lal	6 th edition , Khanna Publishers	
References	RB1	Bituminous Materials in Road Construction',	HMSO Publication	
References	RB2	Soil Mechanics for Road Engineers	HMSO Publication.	

Relevant IRC codes and MoRT & H specifications.

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SEMESTER : VII NAME OF THE FACULTY : Mrs. Namitha B
BRANCH : CV DATE OF COMMENCEMENT : 16.8.2017
SUBJECT : Air pollution and Control DATE OF CLOSING : 16.11.2017
SUBJECT CODE : 10CV765 CLASS STRENGTH : 30
NO OF HRS/WK : 5 TOTAL HRS : 50

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignme nts/ Tests planned for the chapter	Topics covered As per plan
1	1/1	16.08.17	Definition – classification of air pollution	Board, chalk, duster		
2	1/1	16.08.17	Characterization of air pollutants	„		
3	1/1	17.08.17	Emission sources, behavior and fate of air pollutants	„		
4	1/1	18.08.17	Chemical reactions in the atmosphere	„		
5	1/1	19.08.17	Photochemical smog	„		
6	1/1	23.08.17	Coal-induced smog, Air Pollution Inventories	„		
7	1/2	23.08.17	Effects On Human Health	„	Assignme nt- I	
8	1/2	24.08.17	Effects on Animals,	Board, chalk, duster		
9	1/2	28.08.17	Effects on Plants and Materials	„		

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10	1/2	29.08.17	Major Environmental Air Pollution Episodes – London Smog,	„		
11	1/2	1.09.17	Los Angeles Smog	„		
12	1/2	1.09.17	Bhopal Gas Tragedy.	„		
13	1/2	4.09.17	Introduction – Meteorological Variables	„	Assignment -II	
14	1/3	5.09.17	Primary and Secondary Lapse Rate	„		
15	1/3	6.09.17	Inversions	„		
16	1/3	9.09.17	Stability Conditions, Windrose	„		
17	1/3	9.09.17	General Characteristics of Stack Plumes	„		
18	1/3	11.09.17	Meteorological Models	„		
19	1/3	12.09.17	Factors to be considered in Industrial Plant Location and Planning	„		
20	1/3	13.09.17	Factors to be considered in Industrial Plant Location and Planning	„		
21	1/4	22.09.17	Factors to be considered in Industrial Plant Location and Planning	„		
22	1/4	22.09.17	Noise pollution – sources	„		
23	1/4	23.09.17	Noise pollution –measurement units, effects			
24	1/4	25.09.17	Noise pollution – control	Board, chalk, duster		

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25	1/4	26.09.17	Sampling and Measurement of Gaseous and Particulate matter	„	Assignment –III	
26	1/4	3.10.17	Stack Sampling, Analysis of Air Pollutants, Smoke and Smoke Measurement	„		
27	1/5	3.10.17	Air Pollution Control Methods – Particulate, Emission Control, Gravitational Settling Chambers, Cyclone Separators, Fabric Filters, Electrostatic Precipitators,	„		
28	1/5	4.10.17	Wet Scrubbers, Selection of a Particulate Collecting Equipment,	„		
29	1/5	6.10.17	Control of Gaseous Emissions	„		
30	1/5	7.10.17	Adsorption by Liquids, Adsorption by Solids, Combustion Odours and their control.	„		
31	1/5	11.10.17	Air Pollution due to Gasoline Driven and Diesel Driven Engines	„		
32	1/5	11.10.17	Air Pollution due to Gasoline Driven and Diesel Driven Engines	„		
33	1/6	12.10.17	Air Pollution due to Gasoline Driven and Diesel Driven Engines	Board, chalk, duster	Assignment –IV	
34	1/6	13.10.17	Effects, Direct and Indirect Methods of control	„		
35	1/6	14.10.17	Effects, Direct and Indirect Methods of control	„		
36	1/6	23.10.17	Effects, Direct and Indirect Methods of control	„		
37	1/6	23.10.17	Acid Rain	„		

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38	1/6	24.10.17	Acid Rain	„		
39	1/6	25.10.17	Global Warming	„		
40	1/7	26.10.17	Ozone Depletion in Stratosphere	„		
41	1/7	30.10.17	Indoor Air Pollution	„		
42	1/7	30.10.17	Indoor Air Pollution	„		
43	1/7	31.10.17	Environmental Policy	„	Assignme nt -V	
44	1/7	2.11.17	Environmental Policy	„		
45	1/7	3.11.17	Environmental Acts	„		
46	1/8	10.11.17	Environmental Acts	„		
47	1/8	10.11.17	Water, Air and Noise Pollution Standards.	„		
48	1/8	13.11.17	Revision	„		
49	1/8	14.11.17	Revision	Board, chalk, duster		
50	1/8	15.11.17	Revision	„		

Sessional #	Syllabus
T1	Class # 01 – 20
T2	Class # 21 – 45
T3	Class # 46 - 50

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	S.K Garg.Environmental engineering2	16th edition Khanna Publisher,2006	81-7409-057-6
Reference Book	RB1	B.C Punmia,A.K JAIN Environmental engineering 2	Lakshmi publication	978-81-318-0596-1