LESSION PLANS FOR A.Y: 2023-24

SEM-II

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Classification of stones	PPT	
2	I	Stone quarrying -precautions in blasting, dressing of stone	PPT	
3	I	Bricks: composition of good brick earth, various methods of manufacturing of bricks	РРТ	en de la companione de
4	Ī	Characteristics of good brick	PPT	
5	I	Timber: Classification of various types of woods used in buildings	PPT	
6	I	Defects in timber	PPT	
7	I	Alternative materials for wood and Aggregates: Classification	PPT	
8	I	Alternative materials for wood and Aggregates: Classification	PPT	
9	I	properties and selection criteria	PPT	
10	I	Cement-Types of cement	PPT	
11	I	Composition and Properties	PPT	
12	I	Uses-Chemical and Mineral admixtures	PPT	
13	I	Acceleration, Retarders	PPT	
14	I	Plasticizers, Water proofers	PPT	
15	I	Mineral admixtures like Fly ash, and	PPT	
16	Ι	Silica fume. Ground Granulated Blast Furnace slag(GGBS)	PPT	
17	I	Makaoline.	PPT	
18	Ī	Effects on concrete properties.	PPT	Unit-I will be completed
19	II	Fresh concrete: Workability – Factors affecting workability	PPT	
20	II	Measurement of workability by different tests	PPT	
21	II	Measurement of workability by different tests	PPT	
22	II	Measurement of workability by different tests	PPT	
23	II	Setting times of concrete – Effect of time and temperature on workability	PPT	
24	II	Segregation & bleeding	PPT	

LESSO	ON PLA	N for CONSTRUCTION MATERIALS A LOGY, 2023-24, I/II, Civil-B. Dr. V. SOW Topic	1 000000	Remarks
Contact Hour	Unit No.	Торіс	Methodology	
Cumulative)			PPT	Part of Part
25	II	Mixing and vibration of concrete	PPT	
26	II	Steps in manufacture of concrete	PPT	Unit-2 will
27	, II	Quality of mixing water.		be completed
28	III	Hardened concrete: Water / Cement ratio – Abram's Law – Gelspace ratio	PPT	
29	III	Nature of strength of concrete – Maturity concept	PPT	
30	III	Strength in tension & compression – Factors affecting strength	PPT	
31	III	Relation between compression & tensile strength - Curing.	PPT	1st Mid Exams
32	III	Testing of hardened concrete: Compression tests Factors affecting strength	PPT	
33	III	Flexure tests	PPT	
34	III	Splitting tests	PPT	
35	III	Non-destructive testing methods – codal provisions for NDT.	PPT	
36	III	Non-destructive testing methods – codal provisions for NDT.	PPT	Unit-3 will be completed
37	IV	Types of Concrete: Ready mix concrete	PPT	
38	IV	Shotcrete	PPT	
39	IV	Light weight aggregate concrete, cellular concrete, Nofines concrete	PPT .	
40	IV	High density concrete	PPT	
41	IV	Fibre reinforced concrete, Different types of fibres, Factors effecting FRC	PPT	
42	IV	Polymer concrete	PPT	
43	IV	High performance concrete	PPT	
44	IV	Self compacting concrete	PPT	
45	IV	Self healing concrete	PPT	Unit-4 will be
46	V	Mix design: Factors in the choice of mix proportions	PPT	completed
47	V	Durability of concrete	200	
48	V	Quality Control of concrete – Statistica Imethods – Acceptance criteria	PPT PPT	

LESSO	ON PLA CHNOI	N for CONSTRUCTION MATERIALS / LOGY, 2023-24, 1/11, Civil-B. Dr. V. SOW	JANYA VANI	11.
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
49	V	Proportioning of concrete mixes by various methods	PPT	
50	V	BIS method of mix design	Chalk & Talk	
51	V	BIS method of mix design	Chalk & Talk	
52	V	Example	Chalk & Talk	
53	V	Example	Chalk & Talk	and the state of t
54	V	Example	Chalk & Talk	Unit-5 will be completed

Head of the Department Department of Civil Engineering AITAM, TEKKALI.

		SUBJECT : CM&CT		
		Faculty name: m sai babu		
A.Y 20	23-24	I-II	SEM-I	
cum hr	UNIT NO	TOPIC	TEACHING (*) METHOLOG Y	REMA RKS
1	1	Intoductions to Construction Materials	class	
2	1	classification of stones – stone quarrying	Class	
3	1	precautions in blasting, dressing of stone,	class	
4	1	composition of good brick earth,	class	1
5	1	various methods of manufacturing of bricks	PPT	
6	1	Characteristics of good brick	class	
7	1	Classification of various types of woods used in buildings	class	-
8	1	Defects in timber.	ppt	
6.40.31	1	Alternative materials for wood and Aggregates	class	
9	1	Classification, properties and selection criteria	class	
10		Intoductions to Cement-Types of cement	Class	
11	1	Properties, Uses of cement	class	3.54
12		Chemical and Mineral admixtures	ppt	
13	1	Acceleration, Retarders, Plasticizers, Water proofers,	ppt	- Constant
14 15	1	Fly ash, Silica fume. Ground Granulated	PPT	to the
16	1	Blast Furnace slag(GGBS) and Makaoline	PPT	
17	1	Effects on concrete properties.	class	
18	2	Intoduction to Fresh concrete and Workability	class	
19	2	Factors affecting workability	class	
EL Y	2	Measurement of workability by different tests	ppt	
20	2	Slumpcone, vee bee, flowtest	ppt	
21	2	Setting times of concrete – Effect of time and temperature	class	
22 '	2	Segregation &bleeding		
23		Mixing and vibration of concrete	ppt	
24	2	Steps in manufacture of concrete	class	
25	2	Quality of mixing water.	class	
26	2		class	7 AC 2
27	3	Introduction to hardend concrete Water / Coment ratio Abram's Law Galances ratio	class	
28	3	Water / Cement ratio – Abram's Law – Gelspace ratio	class	
29	3	Nature of strength of concrete - Maturity concept	class	

		Strength in tension & compression	class	
30	3	Factors affecting strength	class	
31	3	Relation between compression & tensile strength - Curing.	class	
32	3	Testing of hardened concrete	PPT	
33	3	Compression tests – Tension tests	PPT	
34	3	Factors affecting strength	class	4.38
35	3		Class	1.1/4.5
36	3	Flexure tests –Splitting tests Non-destructive testing methods	PPT	
37	3		class	
38	3	codal provisions for NDT. Types of Concrete	class	
40	4	Ready mix concrete, Shotcrete, Light weight aggregate	class	
41	4	Nofines concrete, High density concrete, Fibre reinforced	class	
42	4	Different types of fibres, Factors effecting FRC,	class	
43	4	Polymer concrete, High performance concrete	class	
44	4	Self compacting concrete, Self healing concrete.	class	
45	5	Mix design: Factors in the choice of mix proportions	class	
46	5	Durability of concrete – Quality Control of concrete	PPT	
47	5	Statistica Imethods – Acceptance criteria	class	
48	5	Proportioning of concrete mixes by various methods	class	
49	5	BIS method of mix design	class	
50	5	BIS method of mix design	class	

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II-II

AY: 2023-24 IT Sem Stouchiral Analysis A Section

		LESSON PLAN		
Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Ren
(ountainavo)	100.00	Introduction to Static & Kinematic Indokuminacy	CR/BB	
2		Analysis of prior joint can	11	
3	1.	Plane, prinjointed, present	ď	
5	1	Metangot Journe	"	
7	1	retund of Sections	Ч	
9	1	Analysis of Cantilover	ч	
n	1	-Analysis of Simply supported	n	
12	2	Propped Cantileur Bearys	Y	
13	2	Analysis of beams with	1	
14	2	Analytisof toleans with Centric Geccentric loads	η	
16	2	SFD, BMD.	Y	
18	Ŋ	Fixed Beans	1	
19	2	Analytis of beans with	tl	
20	2	A dute at lace a satur		
22	2	SFDBND	Ч	
83	3	Strati Evergy - Anial los	d	
ઢપ	3	Stranewigy-Sharforce		
26	3	Strain energy-BM.	17	
27	3	Costiglianois thrown-I		
28	3	Costiglianois theoren-I		

		LESSON PLAN	Teaching(*) Methodology	Ren
Contact Hour (Cumulative)	Unit No.	A to the second of the second	117.00	1
30	3	publisher Strainerilgy.	CR/BB.	**.
31	4	Three Hinged Archis-	11	
32	7	Elastictheory of archio	11	i i
33	Ÿ.	Eddykthwien	1	
35	ч	Horzontal-Hust, BM, Normal-Hust & Padialshio	11	1
36	4	Parabolic arctrus lost part bad & UDL	u .	
37	4	chings at supports of	ıı,	
39	4	Two hinged archeo.	M	
\%	Ч	Horizontal Hunt, BM, Normal Houst, Radial	V	
4)	4	Shear-parabolic archis	i u	- /
4 3	4	With print had &	n	
44	5	Aralysis of Continuous Beans	21	
46	5	Clapeyon theorem of	11	
47	5	Analysis of beam- problems	ч	7.7
49	5	Moment of Inertia constantantando	H III	
50	5	fixed - Cortinuous bear		
51	5	with over hary.		
52	5	artinas beam with affect moment of	1	
54	5	Inertia-Spans-BND	N.	1
. 55	.5	*Black Board / LCD / OHP / Other Method	, i	

		LESSON PLAN		
Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Ren
57	6	Having Loads - Horimung	CR/BB.	Company of the Compan
58	6	Stand BMOd sidlon	11	
59	6 .	Absolute Nax. BNESF.	-11	
60	6	load.	50	
ଟା	6	UPL langer thank trans Upl Shater than span	(1-	
62	6	Influenti tirus, line	11	
63	9	aldfor SF	,11	
64	6	9LD for BM	и	
65	6	Load position for marini	i chi	
66	,6			1 ;
67	6	BM at Rution Single	1 - h	
68.	6.	point boad	- 11	13.
Total: 68.	Ġ\$ ⁷	rate in the		17.
		Department of the	Department Curt Engineers	
•				e e e e e e e e e e e e e e e e e e e
			7.	
	en L			All the second second
	1 and			
		*Black Board / LCD / OHP / Other Method		1



Aditya Institute of Technology and Management Lesson Plan for Geotechnical Engineering Lab(II-II)(2023-24)

B Harish

S.No	Name of the Experiment	Hours
1	Introduction to Geotechnical Engineering Lab	
	Atterberg's Limits.	3
2	Grain size analysis - Sieve Analysis	3
3	Field Density-Core cutter	3
4	Field Density- Sand replacement methods	3
5	Relative Density of Sand	3
6	Permeability of soil - Constant	3
7	Permeability of soil - Variable head tests	3
8	Compaction test	3
9	CBR test	3
10	Unconfined Compression test	3
11	Direct Shear test.	3
12	Vane Shear test.	3
	Total	36

Mead of the Owl Engineers.

Department of Owl Engineers.

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LESSON PLAN

Course Name: Python Programming
Branch: CIVIL Class / Semester: II/I

Code: 20ESI204 Academic Year:2023-24

Period	Unit No.	Topic	Teaching Methodology	Remarks
7	I	Introduction to Python Control Structures		
1071		History	PPT	
1		Features, Installing	PPT	
2			PPT	
3		Operators	PPT	·/런 꼭!
4		Operators	PPT	
5		Statements and Expressions	PPT	
6		Conditional Statements	PPT	
7		Conditional Statements	PPT	
8		Loops	111	
	II	Data Types		
0		Mutable vs immutable data	PPT	
9		type		The second of the
, ,		Introduction to Numbers,	PPT	
10		Integers,	}	
1		Floating Point Real Numbers	PPT	
11		Complex Numbers, Operators	PPT	p 1 1 1 1 1 1
12	11 - 22	Built-in Functions	PPT	
13	<u> 1</u> 18731	Related Modules	PPT	
14		Sequences - Strings	1	
15		Lists	PPT	
16		Tuples	PPT	
17		Dictionaries	PPT	
18		Set Types	PPT	
10	III	Functions & File Handling		
19		Definitions, Declaration	PPT	
20		Parameter passing	PPT	
21		calling functions	PPT	
22		creating a file, opening a file	PPT	
23		I/O with file (read, write, append),	PPT	
24		closing a file	PPT	
25		Programs	PPT	
26		Programs	PPT	
20	IV	Modules		
27	1 2 2	Modules and Files	PPT	
28		Namespaces	PPT	
29		Importing Modules	PPT	
. 30		Importing Module Attributes		Head (
50		Module Built-in Functions	PPT	Departme

of Civil Engineer

32		Packages	PPT	to market by any or the first region.
33		Other Features of Modules	PPT	
34		Other Features of Modules	PPT	-
	V	Classes in Python		
35		Principles of Object Orientation	PPT	
36		Creating Classes, Instance Methods and Special Methods	PPT	
37		Class Variables and Inheritance	PPT	
38		Data base connectivity	PPT	
39		Programs demonstrating on oops	PPT	
40		Programs demonstrating on oops	PPT	
	VI	Regular Expressions		
41		Introduction to Regular Expressions	PPT	
42		Special Symbols	PPT	
43		Characters	PPT	- 69
44	1.32	Res and Python	PPT	-1.4
45		Res and Python	PPT	2 - 3 -
46		Programs	PPT	
47		Programs	PPT	
48		Programs	PPT	

BB: CLASS ROOM

PPT: POWER POINT PRESENTATION

LCD

TEXT BOOKS

1. Wesley J.C hun "Core Python Applications Programming", 3rd Edition, 2012, Prentice Hall.

2. Brian jones, David Beazley — Python Cookbook I, 3rd Edition.

REFERENCES BOOKS

1. Mark Lutz "Programming Python, 4th Edition" O'Reilly Media.

2. Think Python, Allen Downey, Green Tea Press

Web Links

https://docs.python.org/3/tutorial/index.html https://pythonprogramminglanguage.com

LESSON PLAN

Course Name: Python Programming

Branch: CEClass / Semester: II/II

Academic Year:2023-24

Period	Unit No.	Topic	Teaching Methodology	Remarks
		Introduction to Python		
	I	Control Structures		
1		History	PPT	
2		Features, Installing	PPT	
3		Operators	PPT	
4		Operators	PPT	
5		Statements and Expressions	PPT	
6		Conditional Statements	PPT	
7		Conditional Statements	PPT	
8		Loops	PPT	
8	II	Data Types		
		Mutable vs immutable data	DDT	
9		type	PPT	
		Introduction to Numbers,		
10		Integers,	PPT	
10		Floating Point Real Numbers		
11	1 1 1 1 1 1	Complex Numbers, Operators	PPT	
11		Built-in Functions	PPT	
12		Related Modules	PPT	
13		Sequences - Strings	PPT	
14		Lists	PPT	
15			PPT	
16		Tuples	PPT	
17		Dictionaries	PPT	
18		Set Types	111	
	III	Functions & File Handling	PPT	
19		Definitions, Declaration	PPT	Transfer or the
20		Parameter passing		
21		calling functions	PPT	
22		creating a file, opening a file	PPT	13 1 A.
23		I/O with file (read, write, append),	PPT	
24		closing a file	PPT	
25		Programs	PPT	
26		Programs	PPT	
20	IV	Modules	The second of th	
27	17	Modules and Files	PPT	
28		Namespaces	PPT	
29		Importing Modules	PPT	
30		Importing Module Attributes	PPT	
31		Module Built-in Functions	PPT	
32		Packages	PPT	
		Other Features of Modules	PPT	
33	1,000	Other Features of Modules	PPT	

1	V	Classes in Python		
35		Principles of Object Orientation	PPT	
36		Creating Classes, Instance Methods and Special Methods	PPT	
37		Class Variables and Inheritance	PPT	
38		Data base connectivity	PPT	
39		Programs demonstrating on oops	PPT	
40		Programs demonstrating on oops	PPT	
	VI	Regular Expressions		
41		Introduction to Regular Expressions	PPT	
42		Special Symbols	PPT	
43		Characters	PPT	
44		Res and Python	PPT	
45		Res and Python	PPT	
46	1	Programs	PPT	
47		Programs	PPT	
48		Programs	PPT	

BB: CLASS ROOM

PPT: POWER POINT PRESENTATION

LCD

TEXT BOOKS

1. Wesley J.C hun "Core Python Applications Programming", 3rd Edition, 2012, Prentice Hall.

2. Brian jones, David Beazley - Python Cookbook I, 3rd Edition.

REFERENCES BOOKS

1. Mark Lutz "Programming Python, 4th Edition" O'Reilly Media.

2. Think Python, Allen Downey, Green Tea Press

Web Links

https://docs.python.org/3/tutorial/index.html https://pythonprogramminglanguage.com

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Introduction to Geotechnical Engineering	BB	
2	I	Soil formation, Geological cycle	BB	
3	I	Inter-relationships and Soil Characterization, Types of soil	BB	
4	I	Phase diagrams, Basic terms	BB&LCD	
5	I	Functional relationships based on index properties	ВВ	
6	I	Physical characterization of soil Dry and Wet sieve analysis	BB	and the second
7	I	Water content and specific gravity	BBB	
8	1	Atterberg's Indices,	BB&LCD	
9	I	Soil Structures, Soil Water and its types	BB&LCD	
10	I	Standard nomenclature & IS Soil Classification	BB	
11	I	NUMERICALS	BB	
12	I	Numericals.	ВВ	Unit-1 will be completed
13	II	Introduction to permeability Darcy's law and its validity,	ВВ	
14	II	Factors affecting permeability,	BB	
15	II	Laboratory permeability tests,	BB	
16	II	Permeability of stratified soil masses,	BB	
17	II	Seepage pressure, 2-D flow and Laplace's equation, Flow net construction,	BB	
18	II	Quick condition, Piping Failure.	ВВ	
19	III	Numericals	BB	Unit-2 will be completed
20	III	Introduction to the stress on the soil	BB	
21	III	Numericals	BB	
22	III	Stresses when No Flow Takes Place Through the Saturated Soil Mass	BB	

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TAN HEND				Remark
Contact Hour	Unit No.		BB	
(Cumulative) 23	III	Stresses When Flow Takes Place	ВВ	
		Through the Soil from Bottom to Top,	BB	
24	III	numericals Capillary		Unit-3 will
25	III	Effective Pressure Due to Capillary		completed
26	IV	Introduction to compressibility	BB	
27	IV	Definitions, Differentiate between compaction and consolidation,	BB	
28	IV	Compaction mechanism and proctor tests,	ВВ	
29	IV	field compactions methods, factors affecting compaction	BB	
30	IV	Consolidation mechanism through	BB& Student	
31	13.7	spring analogy	Seminar	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31	IV	fundamental definitions and numericals	BB	
32	IV	Terzaghi's one dimensional consolidation theory	BB	
33	IV	Time factor, preconsolidation pressure	BB	Unit-4 will b
34	V	Causes of stresses in soil,	BB	completed
35	V	Boussinesque's equation for Point load	BB & LCD	
36	V	Boussinesque's equation for Strip Load	BB & LCD	
37	V	Boussinesque's equation for circular Load	BB	
38	V	Westergard's equation	BB	*******
39	V	Pressure Bulb	BB	
40	V	Stress distribution on horizontal and vertical planes	BB	
41	V	Stresses due to different shapes of footings	ВВ	
42		Newmark's influence chart		
43		Numericals	BB BB	
44	V	Numericals		
45			BB	Unit-5 will be
46		Introduction to shear strength of Soil	BB	completed
47	V I	Monr's strength theory.	BB	
	VI	Mohr- coulomb's strength theory, Modified Mohr coulomb's theory,	BB	

			DD.	
48	VI	shears parameters through lab and	BB	
		field tests based on drainage		
	L 1	conditions,	77	
49	VI	Direct Shear test	BB	
	VI	Triaxial test	BB	
50	VI		BB	
51	\ VI	Numericals	BB	Unit-6 will be
52	VI	Numericals	ВВ	completed
	1			

Department of Civil Linging

Contact Hour (Cumulative)	Unit No.	Civil-B. Sri G. Anil Kumar Topic	Teaching Methodology	Remarks
1	I	Insitu densification methods in granular Soils	PPT	
2	I	Vibration at the ground surface	PPT	
3	I	Vibration at depth	PPT & Chalk & Talk	
4	I	Impact at the Ground Surface and at depth	PPT & Chalk & Talk	
5	I	Impact at depth	PPT & Chalk & Talk	
6	I	Insitu densification methods in Cohesive soils	PPT & Chalk & Talk	
7	I	Preloading	PPT & Chalk & Talk	
8	I	Vertical drains	PPT & Chalk & Talk	
9	I	Sand Drains and geodrains	PPT & Chalk & Talk	
10	I	Stone columns	PPT & Chalk & Talk	
11	II	thermal methods	PPT & Chalk & Talk	Unit-1 will be completed
12	II	Stabilization of Soils	Chalk & Talk	
13	II	Methods of stabilization-	Chalk & Talk	
14	II	cement- stabilization	Chalk & Talk	
15	II	Lime- stabilization	Chalk & Talk	1 1
16	II	bituminous and polymer stabilization	Chalk & Talk	
17	II	chemical stabilization with calcium	Chalk & Talk	
18	II	sodium silicate stabilization	Chalk & Talk	. · · · · · · · · · · · · · · · · · · ·
19	II	Gypsum stabilization	Chalk & Talk	
20	II	mechanical- stabilization	Chalk & Talk	Unit-2 will be completed
21	III	Dewatering Introduction	Chalk & Talk	

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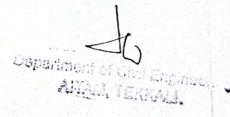
ontact Hour	Unit	Civil-B. Sri G. Anil Kumar Topic	Teaching Methodology	Remarks
Cumulative)	No.	Dewatering- by sumps and interceptor	Chalk & Talk	
22	III			
	777	ditches single and multi stage well points	Chalk & Talk	
23	III	system of dewatering		
	777	vacuum well point-system	Chalk & Talk	
24	III	Horizontal wells-criteria for selection	Chalk & Talk	
25	III	of fill material around drains		
26	III	electro osmosis method of dewatering	Chalk & Talk	Unit-3 will be completed 1st Mid
	3.4			Exams
27	IV	Geosynthetics: Types, functions	Chalk & Talk	
28	IV	functions & applications of geotextiles (woven; nonwoven; knitted)	Chalk & Talk	
20	117	functions & applications geogrids,	Chalk & Talk	
29	IV	geonet,		
20	IV	functions & applications	Chalk & Talk	
30	1 1 1	geomembranes, gabions,		
31	IV	functions & applications geocells and	Chalk & Talk	Unit-4 will be completed
31	1 1 7	geosynthetic clay liners.		completed
32	V	Reinforce earth - introduction	Chalk & Talk	
32	,			
33	V	principles – components of reinforced earth	Chalk & Talk	
		1 ' main ainles	Chalk & Talk	
34	V	design principles		400
		of reinforced earth walls stability checks-reinforced earth	Chalk & Talk	
35	V	soil nailing & its applications	Chalk & Talk	Unit-5 will be
36	V	son naming & its appreciations		completed
37	V	soil nailing methods	Chalk & Talk	
38	VI		Chalk & Talk	
39	VI		Chalk & Talk	
40	VI	grouts and their applications-	Chalk & Talk	
41	V	grouting methods-	Chalk & Talk	



		Civil-B. Sri G. Anil Kumar		D
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
42	VI	stages of grouting	Chalk & Talk	
43	VI	Hydraulic fracturing in soils and rocks-	Chalk & Talk Chalk & Talk	Unit-5 will b
44	VI	post grout test.	Chair & Tuni	2nd Mid
45		Grand Test		Exams

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		for FOUNDATION ENGINEERING, Sri. B.HARISH Topic	Teaching	Remarks
Contact Hour (Cumulative)	Unit No.		Methodology	
Yak Wandania	I	Methods of site exploration	BB	
2	I	soil samplers	BB	
	I	sampling procedures	BB	
3 4	Ī	trail pits	BB & LCD	
5	I	borings	BB & LCD	
	I	OCAMINE	BB& Student	
6	1	Penetration tests	Seminar	
	I	Plate load test	BB	
7	I	Analysis of borehole logs	BB	
8	I	geophysical investigation methods	BB	77 7 1 11 1-
9	+ <u>1</u>		BB	Unit-1 will be completed
10	1	Preparation of soil investigation report.	nn.	Completed
11	II	Stability of Slopes - Introduction	BB	
12	II	types of slopes	BB	
13	II	types of failures and their failure	BB	
13		mechanisms	BB	
14	II	factor of safety	BB	
15	II	analysis of finite and infinite slopes	the first that the second	
16	II	wedge failure	BB	
17	II	Swedish circle method	BB	
18	II	friction circle method	BB	
19	II	Richon's Simplified method	BB	Unit-2 will
20	II	Taylor's stability number and Stability of slopes of earth dams under different conditions	ВВ	be completed
		Rankine's theory of earth pressure	BB	
23	III	earth pressures in layered soils	BB	The section of the se
26	III	Coulomb's earth pressure theory	BB	
27	III	1 1 inal mothod	BB	Unit-3 will be
29	III	Culmann's graphical method		completed
30	IV	Types - choice of foundation - Location	BB	
	+	of depth Factors effecting bearing capacity	BB	
31	IV	C.C. Dooring	BB	
32	IV	11 170 11 1 1 - 10	BB	
34	IV	111	BB	
35	IV	effect of water table-		
37	IV	- allowable bearing pressure;		
38	I/	1 41 ant	BB	





		allowable settlements of structures.	BB	Unit-4 will be completed
39	IV		ВВ	100 100 100 2
40	V	Pile foundation: Types of piles	BB	
42	V	Load carrying capacity of piles based on static pile formulae	BB & LCD	
44	V	Dynamic pile formulae	BB	
45	V	Pile load tests	BB	Unit-5 will be
47	V	Load carrying capacity of pile groups in sands and clays – Settlement of pile	ВВ	completed
		groups.	BB & LCD	
48	VI	Types – Different shapes of wells	BB	
50	VI	Different shapes of wells	BB & LCD	
52	VI	Components of wells		Unit-6 will be
55	VI	Sinking of wells – Tilts and shifts.	BB & LCD	completed

Contact Hour (Cumulative)	Unit No.	Topic Topic	Teaching Methodology	Remarks
25	III	Circular slab design – Simply supported conditions with Uniformly Distributed Loads	Chalk & Talk	
26	III	Circular slab design – Fixed end conditions with Uniformly Distributed Loads	Chalk & Talk	
27	III	Circular slab design – Fixed end conditions with Uniformly Distributed Loads	Chalk & Talk	
28	III	Flat slab design	Chalk & Talk	
29	III	Flat slab design	Chalk & Talk	
30	III	Flat slab design	Chalk & Talk	Unit-3 will be completed 1st Mid Exams
31	IV	Piles and pile caps: Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
32	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
33	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
34	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
35	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
36	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
37	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
38	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	
39	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	77 2 4 - 10 b
40	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	Unit-4 will be completed
41	V	Multistory building system –detailing for Ductility	Chalk & Talk	
42	V	Multistory building system –detailing for Ductility	Chalk & Talk	
43	V	Multistory building system –detailing for Ductility	Chalk & Talk	

Head of the Department Department of Civil Engineering.

AITAM, TEKKALI:



N OF REINFORCED CONCRETE, 2023-24,

LESSON PL	AN for	ADVANCED DESIGN OF RED	Teaching Methodology	Remarks
Contact Hour (Cumulative)	Unit No.		Chalk & Talk	and the second
	I	Retaining walls introduction	Chalk & Talk	
1	1 1	Design of cantilever relations	Chalk & Talk	
2	1	Design of cantilever retailing wan	Chalk & Talk	
3	I	Design of cantilever retaining won	Chalk & Talk	
5	I	Design of counterfort retaining wan	Chalk & Talk	
6	I	Design of counterfort retaining wall	Chalk & Talk	
7	I	Design of counterfort retaining wall	Chalk & Talk	
8	I	Design of counterfort retaining wall	Chalk & Talk	-
9	I	Design of combined footing	Chalk & Talk	Unit-1 will be
10	I	Design of combined footing	Chalk & Talk	completed
11	II	Design of RCC water tanks on ground- introduction	Chalk & Talk	
12	II	Design of RCC water tanks on ground- circular	Chalk & Talk	The second secon
13	II	Design of RCC water tanks on ground- circular	Chalk & Talk	
14	II	Design of RCC water tanks on ground- circular	Chalk & Talk	
15	II	Design of RCC water tanks on ground- square	Chalk & Talk	
16	II	Design of RCC water tanks on ground- square	Chalk & Talk	
17	II	Design of RCC water tanks on ground- square	Chalk & Talk	
18	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk	
19	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk	
20	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk	Unit-2 will be
21	III	Slabs: Yield line theory of slabs	Chalk & Talk	completed
22	III	Yield line theory of slabs	Chalk & Talk	de la companya de la
23	III	Circular slab design – Simply supported conditions with Uniformly Distributed Loads	Chalk & Talk	Definition of the second of th
24	III	Circular slab design – Simply supported conditions with Uniformly Distributed Loads	Chalk & Talk	

A		III/II, Civil-A. Sri. S. Ramlal		
Contact Hour	Unit	Topic	Teaching	Remarks
(Cumulative)	No.		Methodology	
44	V	Design for earthquake	Chalk & Talk	
45	V	Design for earthquake	Chalk & Talk	
46	V	Design for earthquake	Chalk & Talk	
47	V	Design for earthquake	Chalk & Talk	
48	V	Design of wind forces	Chalk & Talk	
49	V	Design of wind forces	Chalk & Talk	
50	V	Design of wind forces	Chalk & Talk	Unit-5 will be completed
51	VI	Different types of loadings on bridges according to IRC	Chalk & Talk	
52	VI	Design of RCC Culvert-deck slab for IRC Class AA loading	Chalk & Talk	
53	VI	Design of RCC Culvert-deck slab for IRC	Chalk & Talk	
54	VI	Class AA loading Design of RCC Culvert-deck slab for IRC	Chalk & Talk	
55	VI	Class AA loading Design of RCC Culvert-deck slab for IRC	Chalk & Talk	
56	VI	Class A loading Design of RCC Culvert-deck slab for IRC	Chalk & Talk	
57	VI	Class A loading Design of RCC Culvert-deck slab for IRC	Chalk & Talk	Unit-6 will be completed
		Class A loading		2 nd Mid
58		Grand Test	j' ,	Exams

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Department of Civil Engineering
AITAM, TEKKALI.

		III/II, Civil-A. Dr. V. SOWJANYA V	Teaching	Remarks	
Contact Hour	Unit No.	Topic	Methodology		
(Cumulative)	I	Retaining walls introduction	Chalk & Talk		
1	I	Design of cantilever retaining wall	Chalk & Talk		
2	I	Design of cantilever retaining wall	Chalk & Talk		
3	I	Design of cantilever retaining wall	Chalk & Talk		
4		Design of counterfort retaining wall	Chalk & Talk		
5	I	Design of counterfort retaining wall	Chalk & Talk		
6	I	Design of counterfort retaining wall	Chalk & Talk		
7	I	Design of counterfort retaining wall	Chalk & Talk	**************************************	
8	I	Design of counterfort retaining wan	Chalk & Talk	7-17-17	
9	I	Design of combined footing	Chalk & Talk	Unit-1 will	
10	I	Design of combined footing	Chair & Tunk	be completed	
11	II	Design of RCC water tanks on ground- introduction	Chalk & Talk		
12	II	Design of RCC water tanks on ground- circular	Chalk & Talk		
13	II	Design of RCC water tanks on ground-	Chalk & Talk		
14	II	circular Design of RCC water tanks on ground- circular	Chalk & Talk		
15	II	Design of RCC water tanks on ground-	Chalk & Talk		
16	II	Design of RCC water tanks on ground-	Chalk & Talk		
17	II	Design of RCC water tanks on ground-	Chalk & Talk		
18	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk		
19	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk		
20	II	Design of RCC water tanks on ground- rectangle	Chalk & Talk	Unit-2 will be completed	
21	III	Slabs: Yield line theory of slabs	Chalk & Talk		
22	III		Chalk & Talk		
23	III	conditions with Uniformly Distributed Loads	W 0 m U		
24	III	Cilu aumnorted	Chalk & Talk		

ESIGN OF REINFORCED CONCRETE, 2023-24,

Contact Hour	Unit No.	ADVANCED DESIGN OF RELITION OF IGHT OF IT IN THE IT IS A SOWJANYA Topic	Methodology	Remark
(Cumulative) 25	111	Circular slab design – Simply supported conditions with Uniformly Distributed	Chalk & Talk	
26	111	Loads Circular slab design – Fixed end conditions with Uniformly Distributed Loads	Chalk & Talk	
27	111	Circular slab design – Fixed end conditions with Uniformly Distributed Loads	Chalk & Talk	
28	III	Flat slab design	Chalk & Talk	
29	III	Flat slab design	Chalk & Talk	
30	III	Flat slab design	Chalk & Talk	Unit-3 will be complete 1" Mid Exams
31	IV	Piles and pile caps: Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
32	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
33	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	
34	IV	Design of bored cast-in-situ piles (bearing and friction types)	Chalk & Talk	200
35	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
36	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
37	IV	Design of Pile cap for three piles using bending method	Chalk & Talk	
38	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	
40	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	
41	IV	Design of Pile cap for four piles using bending method	Chalk & Talk	Unit-4 will be completed
42	V	Multistory building system –detailing for Ductility	Chalk & Talk	
	V	Multistory building system –detailing for Ductility	Chalk & Talk	
43	V	Multistory building system –detailing	Chalk & Talk	

		for Ductility		
LESSON PLA	AN for	ADVANCED DESIGN OF REINFOR	CED CONCRETE	, 2023-24,
		III/II, Civil-A. Dr. V. SOWJANYA	VANI	
Contact Hour	Unit	Topic	Teaching	Remarks
(Cumulative)	No.	함께 보여 보다면 하는 것이 모였다.	Methodology	
44	V	Design for earthquake	Chalk & Talk	
45	V	Design for earthquake	Chalk & Talk	
46	V	Design for earthquake	Chalk & Talk	
47	V	Design for earthquake	Chalk & Talk	
48	V	Design of wind forces	Chalk & Talk	
49	V	Design of wind forces	Chalk & Talk	
50	V	Design of wind forces	Chalk & Talk	Unit-5 will be completed
51	VI	Different types of loadings on bridges according to IRC	Chalk & Talk	
52	VI	Design of RCC Culvert-deck slab for IRC Class AA loading	Chalk & Talk	
53	VI	Design of RCC Culvert-deck slab for IRC Class AA loading	Chalk & Talk	
54	VI	Design of RCC Culvert-deck slab for IRC Class AA loading	Chalk & Talk	30 Minutes
55	VI	Design of RCC Culvert-deck slab for IRC Class A loading	Chalk & Talk	
56	VI	Design of RCC Culvert-deck slab for IRC Class A loading	Chalk & Talk	
57	VI	Design of RCC Culvert-deck slab for IRC Class A loading	Chalk & Talk	Unit-6 will be complete
58		Grand Test		2™Mid Exams

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3

ſ	A 25-10-10-10-10-10-10-10-10-10-10-10-10-10-		LESSON PLAN	Teaching(*)	
40	Contact Hour	Unit	Topic	Methodology	Remark
ine	(Cumulative)	1 3	Botted friended connections,	BB	
8	t de la companya de l	a mercina and a second	Types of July . Types of		
125	till til skale og skale sk	CONTRACTOR CONTRACTOR	holled joints, daily	88	
(4)	2	and and			
	Procedures a process of the contract of the co	Section of the section of	d bolled joints.		+
	3	1	specifications of butted	-	+
	and the second s		Toints		
ľ		1	Design of foundation bo	Hr. 88	
-			120131-0		
			Welded Connections		
_			Introduction, Advantage	y B. F	
			I disadvantagex of wek	ling	
	b	1	Strength of wells		and the same of th
	7		Buth & filet welds	B.	В
	8	1			
	9	1	Doign of fillet welde		
			Subjected to moment a		B
1	17.		,	0	
	10	-	In the plane & at rig	intaged _	
-			to the plane of the	jointe	
-	11	1	I Reams		3.6
-					
L			Allowable Street	1	

ontact Hour	Date	Unit	TEACHERS DIARY		1
umulative		No.	Topic	Remarks	
2	24/1	1	Colt 1/ x 1 1		
			Polled/riveled convertine.	And the second of the second o	
			Types of Lots, Types of		
		5	· · · · · · · · · · · · · · · · · · ·		
			betted joints, failure of	and the same of th	
			botted Joints		
4	29/4	I	Specifications of Bolled		
			•	and the second s	
			Tolute		
		I	Design of fundation both		(
,	30ly				
Jo	3014		Welded Connections		
			7.4.1.1. 1.		
			Introduction, Alvantage		
			& disadinutages of welde	ig	
8	4/12	ı		0	
			Strengter of welds		
			Butt & fillet weld.		
		T	V		
			Is code requirements		
9	6/12	1	Design of fillet weld		
			lasign of flat con	A	
			Subjected to momental	ing	
				V	
			in the place & at right		
10	7/12		and the House	South .	
			angles to the place of) · · · · · · · · · · · · · · · · · · ·	
12	nliz	77	Beany		-
			Allowable Street		

Contact Hour	Unit	Topic	Methodology	Remark
(Cumulative)	No.	, , ,	B-B	
12	1	Derign requiremente		
		ny per Is lade		1
13	<u> </u>	Design of laterally.	B.B	+
14	and the first transfer and the second	Supported Beam	60	+
12	TI	Design of Laterally unapported Beam		+
16		unapported Beam		+
17,18		Devign of plated Beams	B.B	
١٩	M	Thursday and all	B·B	
		Tengion meinters		
		Introduction, Types of		+
		Teuron members	n 0	
2D	III	Net sectional Asea	B.B	
21	<u> III</u>	problems ion effective	e l'	
22		not area		
તે3	亚		B.B	
24		0		
		members		-
26	<u>III</u>	problems on Desig	n	+
		V		
27	Ty.	Deligno of	ВВ	
		members Compression		

Contact Hour	T	Unit	TEACHERS DIARY	
Cumulative)	Date	No.	Topic	Remarks
13	14/12	A	Design sequirements ar	
			per Is code	
16	211	M	Design of datually	
			Supported beam	
		M	Derign of laterally	
100			unsupported beam	
18	411	A	Design of plated beams	
		•		
19	6/1	24	Teurion Members	
Company of the Compan			Introduction, Types of	
	1		Femion members	
20	811	I	net entional Area	
22	toli	m	problem on effective	
			net area .	
23	20/1	M	Design of Tenerion mend	eil
24	શ્રુમા	<u>JVI</u>	problems on Devijon	
			of Termon number	
26	25/1	W	Design of Compression	
27	29/1		menlys.	

K day and the same of the same			Mullin
Contact Hour (Cumulative)	Unit No.	Торіс	1 B B
28	W.	Introduction	
29		Effective length of course	A granted to the second of the
A Experience	The second second	Land Caldi	BB
30	AND THE RESIDENCE OF THE PARTY OF	Design of Complexion	
Sales Annual Market Company of the C	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	MULLY	
32	W.	Built up sections	B · B
88	SV.	pengn of darings 4	
34135		batteres	
36	W	pengon principles of	B·B
37		- 1 I'M CONSIST	
38		olume & splicing	b
		Columny.	
39	V		BB
yo		Introduction	
41		loads	•
42149		I Derign of Gantry	B.B.
4019		DANGET OF OTHER	
		girder	B.B.
44		V Roof Flemente	
45,14	6	*Black Board / LCD / OHP / Other	4

ontact Hour umulative)	Date	Unit No.	Topic	Remarks
	12	W	Introduction	
		4,	Effective longth of columns	
			Sloudorus Ratio	
31 31	2	W	Design of Compression	
			mendery	
32 5	12	للآ	Built up sections	
34 8	12	ĪV	Deign of Lacings & Interes	
35 10	12	W	Design principles of	
			eccuterially loaded.	
37 22	2-	TO I	columne & splicing of	
			Columns.	
38 261	2 2	V	Gartry Girdes	
			Introduction	
20 113	3		Loade	
	1	Q	serion of Gantry	
			girder	
4/3		(N)	Roof Elements	
			요요하다. 시시장상 경기는 강대, 화면상 김 경기, 회	
	12	-	Derign of Pulins	

		LESSON PLAN	Teaching(*) Methodology	Remarks
ontact Hour Cumulative)	Unit No.	Topic		
47	Į.	plate brides	B.B	
48		Introduction		
49		Derign Courideration	8:8	+
20	TIL	Design Courideration	100	
		Ts code secommendation	M.S.	1
52	VI-	Design of plate welde	d BB	
53		plate Girdes		+
54	VI	post critical mother		
82129	Ū			
		•		
			'	a)
			Head of the lepartment of C	ivil Endic
			AITAM, T	EKKALI.
			1	

LESSON PLAN

Lab Name: Design of Steel Structures

Branch: Civil Engineering Year: 2023-2024

Sec-B III B.Tech II Semester

Course Code:20CEI311

Faculty Name: V.Divyasari & B.Shanmuka Rao (B)

S.No.	LabLesson Plan	No.ofHour
- 1	Design and Detailing of bolted connections of a lab joint.	3
2	Design and Detailing of bolted connections of a double cover butt joint.	3
3	Detailing of framed connection between primary beam and secondary beam.	3
4	Detailing of bracket welded connection in plane bending.	3
5	Design and Detailing of a framed connection between a column and beam.	3
6	Design and Detailing of a framed connection between a column and beam.	3
7	Design of lacing system.	3
8	Design and Detailing of Ties and Struts in truss member	3
9	Detailing of a gantry girder	3
10	Detailing of a gantry girder	3
11	Design and Detailing of plate girder without stiffeners	3
12	Design and Detailing of plate girder with stiffeners	3
	Total Contact Hour	36

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LESSON PLAN

Lab Name: Design of Steel Structures

Branch: Civil Engineering Year: 2023-2024

Sec-A III B.Tech II Semester

Course Code: 20CEI311

FacultyName:G.Gowrisankara Rao &Dr.G.Prasanna Kumar (A)

S.No.	LabLesson Plan	No.ofHours
1	Design and Detailing of bolted connections of a lab joint.	3
2	Design and Detailing of bolted connections of a double cover butt joint.	3
3	Detailing of framed connection between primary beam and secondary beam.	3
4	Detailing of bracket welded connection in plane bending.	3
5	Design and Detailing of a framed connection between a column and beam.	3
6	Design and Detailing of a framed connection between a column and beam.	3
7	Design of lacing system.	3
8	Design and Detailing of Ties and Struts in truss member	3
9	Detailing of a gantry girder	3
10	Detailing of a gantry girder	3
11	Design and Detailing of plate girder without stiffeners	3
12	Design and Detailing of plate girder with stiffeners	3
	Total Contact Hour	36

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ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AN AUTONOMOUS INSTITUTION)

Class: III-II [Section: A]

B. TECH (2023-24)

Subject: Design and Detailing of Irrigation Structures Lab (20CEL309)

Faculty Name: Dr. Sanjay Kumar Ray

S.No	Name of the Experiment	Hours
1	Detailing of Surplus Weir.	6
2	Detailing of Canal Drop.	6
3	Detailing of Canal Regulator.	6
4	Detailing of Under Tunnel.	6
5	Detailing of Syphon Aqueduct Type-III.	6
6	Detailing of Syphon Well Drop	6
	Total	36

Sign of Faculty

Sign of HOD, Civil

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI

(AN AUTONOMOUS INSTITUTION)

Class: III-II [Section: B]

B. TECH (2023-24)

Subject: Design and Detailing of Irrigation Structures Lab (20CEL309)

Faculty Name: Dr. Sanjay Kumar Ray

S.No	Name of the Experiment		Hours
1	Detailing of Surplus Weir.		6
2	Detailing of Canal Drop.		6
3	Detailing of Canal Regulator.		6
4	Detailing of Under Tunnel.		6
5	Detailing of Syphon Aqueduct Type-III.		6
6	Detailing of Syphon Well Drop		6
- 1 - 1	Total	•	36

Sign of Faculty

Sign of HOD, Civil

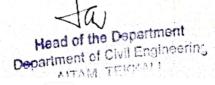
Department of Civil Engineering

III B.Tech II SEM - A, AY: 2023-24

I &Water Resources Engineering

PERI OD	UNIT	Topic	Teaching methodology	Remarks
1	1	Introduction to engineering hydrology and its applications	Chalk & Talk	
2	1	water-budget equation, world water balance	Chalk & Talk	
3	1	Hydrologic cycle, types and forms of precipitation,	Chalk & Talk	
5	1	rainfall measurement, types of rain gauges	Chalk & Talk	
7	1	computation of average rainfall over a basin,	Chalk & Talk	
8	1	depth-area-duration relationships, maximum intensity/depth- duration-frequency relationship	Chalk & Talk	
9	1	Probable Maximum Precipitation (PMP)	Chalk & Talk	Unit 1 will be completed
10	2	Abstraction from rainfall- evaporation, factors affecting evaporation,	Chalk & Talk	
12	2	measurement of evaporation- evapotranspiration-consumptive use	Chalk & Talk	
13	2	reservoir evaporation and methods for its reduction	Chalk & Talk	
15	2	Interception, depression storage, infiltration, infiltration capacity,	Chalk & Talk	
17	2	factors affecting infiltration, measurement of infiltration,	Chalk & Talk	
18	2	infiltration indices.	Chalk & Talk	Unit 2 will be completed
19	3	Hydrograph: hydrograph, factors affecting runoff hydrograph	Chalk & Talk	
20	3	components of hydrograph,	Chalk & Talk	
22	3	separation of base flow.	Chalk & Talk	
23	3	effective rainfall	Chalk & Talk	
24	3	Unit Hydrograph, definition, and limitations of applications of Unit hydrograph,	Chalk & Talk	
25	3	derivation of Unit Hydrograph, problem	Chalk & Talk	
26	3	S-hydrograph, problem	Chalk & Talk	

27	3	Problems on hydrograph	Chalk & Talk	
.8	3	IUH	Chalk & Talk	Unit 3 will be completed
29	4	Ground water Occurrence, types of aquifers, aquifer parameters,	Chalk & Talk	
30	4	Sub surface distribution of water,ground water movement	Chalk & Talk	
31	4	porosity, specific yield, permeability, transmissivity and storage coefficient, intrinsic permiability	Chalk & Talk	
32	4	types of wells, Darcy's law, radial flow to wells in confined aquifers, problems	Chalk & Talk	
33	4	radial flow to wells in unconfined aquifers, problems		
34	4	Determination of hydraulic properties of aquifer, Well losses specific capacity of well, and well efficiency.	1	
35	4	pumping tests- Recuperation test method for determination of well yield.	Chalk & Talk	
36	4	Problems	Chalk & Talk	Unit 4 will be completed
37	5	Analysis of surface water supply	Chalk & Talk	
38	5	Water requirement of crops, duty and delta	Chalk & Talk Chalk & Talk	
39	5	water relationships	Chalk & Talk	
40) :	consumptive use		
4	1 :	estimation of evapo-transpiration	,	
4:	2	Methods of applying water to the fields: surface, sub-surface	Chalk & Talk	
4		sprinkler and trickle / drip irrigation		Unit 5 will be
4	5	Water logging: causes, effects ar remedial measures.		completed
	16	6 Classification of irrigation canal 6 Canal alignment	Chalk & Talk	
	48	6 Regime theory – Kennedy's	Chalk & Talk	
	50	6 Regime theories – Laceys	Chalk & Talk	
-	51	6 river training, classification, and objectives		
+	52	6 types of CDW	Chalk & Talk	77 11 67 10 1
	53	6 types of CDW	Chalk & Taik	Unit Swill be completed



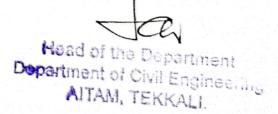


Faculty				
Name	Dr. M.	Suresh		
Contact Hour (cumulative)	Unit No.	Topic	Teaching (*) Methodology	Remarks
1	1	Hydrological Cycle	PPT	
2	1	Water - budget equation	BB	
3	1	World water balance, problems	BB	14.75
4	1	Problems	BB	
5	1	Forms & measurement of precipitation	BB	
6	1	Rain gauge network	PPT	
7	1	Mean area precipitation	BB	
8	1	Depth-area duration relationship	BB	
9	1	Maximum intensity relationship	BB	
10	1	Depth-duration frequency relationship	BB	
11	1	Probable max precipitation	BB	
12	1	Probable max precipitation	BB	
13	2	Evaporation process frequency relationship	PPT	
14	2	Analytical methods of evaporation process	вв	rs T 13
15	2	Analytical methods of evaporation process	вв	
16	2	Reservoir evaporation for its reduction	BB	
17	2	Interception, depression storage	BB	
18	2	Infiltration, infiltration capacity	BB	
19	2	Infiltration capacity	BB	
20	2	Measurement of infiltration	BB	
21	2	Classification of infiltration capacities	PPT	
22	2	Infiltration indices	BB	
23	3	Hydrograph	BB	
24	3	Factors affecting runoff hydrograph	PPT	
25	3	Components of hydrograph	PPT	*1
26	3	Baseflow separation	BB	
27	3	Effective rainfall and unit hydrograph	BB	
28	3	Effective rainfall and unit hydrograph	BB	
29	3	Unit hydrograph	BB	
	3	S-hydrograph, IVH	BB	
30	4	Forms of subsurface water	PPT	
31		saturated formation, aquifer properties	PPT	
32	4	Geological formation of aquifers	PPT	
33	4	Hydraulics	BB	

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		l analla	BB
35	4	steady-state flow in wells Equilibrium equations for confined and	
36		Equilibrium equations for comme	BB
	4	unconfined	PPT
37	4	Water withdraws and uses introduction	BB
38	5		BB
39	5	Analysis of surface water supply	
40	5	Duty and delta problems soil water relationships	ВВ
41	5	Duty and delta problems soil water relationships	ВВ
42	5	Infiltration, problems	BB
43	5	Estimation of evapotranspiration	PPT
44	5	Irrigation requirements	PPT
45	5	Methods of applying water to the fields	PPT
46	5	waterlogging	BB
47	6	Design of channels introduction	PPT
48	6	Alluvial channels	BB
49	6	Kennedys and Lacey's theory	BB
50	6	River and cross-drainage works	PPT
51	6	classification and objectives of river treatment	
52	6	Types of cross-drainage works	PPT
53	ALL	Revision and solving problems	PPT
54	ALL	Revision and solving problems	BB BB



Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Basics of Urbanisation: Definition of Human settlement, Urban area,	BB	
2	I	Town, City, Urbanisation, Sub urbanisation,	BB	
3	I	Urban sprawl, Peri - urban areas, Central Business District (CBD)	LCD & Interactive	
4	I	Classification of urban areas	BB & LCD	
5	I	Trends of Urbanisation at International	BB& Student Seminar	
6	I	Trends of Urbanisation at National	BB & LCD	
7	I	Trends of Urbanisation at Regional and State level.	BB & LCD	
8	I	Trends of Urbanisation at State level.	BB & LCD	UNIT I will be completed
9	II	Urban Plan Formulation: Scope and Content of Regional Plan	BB & LCD	
10	II	Master Plan	BB	
11	II	Detailed Development Plan	BB& LCD	
12	II	Development Control Rules	BB& LCD	
13	II	Transfer of Development Rights	BB& Student Seminar	
14	II	Special Economic Zones-	BB& LCD	
15	II	Development of small town	BB	
16	II	smart cities - case studies	ВВ	UNIT II will be completed
17	III	Planning And Design Of Urban Development Projects: Site Analysis	BB	
18	III	Layout Design	BB	
19	III	Planning Standards	BB& LCD	
20	III	Project Formulation – Evaluation	BB& Student Seminar	
21	III	Plan Implementation	BB	
22	III	Constraints and Implementation	BB	
23	III	Financing of Urban Development Projects	ВВ	
24	III	Financing of Urban Development	BB& LCD	

The sale of the sa	-	Projects		UNIT III wil
25	III	Financing of Urban Development	BB& LCD	be completed
26	II	Overview of Smart Cities: Defining smart cities	ВВ	
	177	Dimension	BB	
27	III	components of smart cities.	BB	
28	III	categories of smart cities and Global Standards	ВВ	
30	III	performance benchmarksPractice codes.	ВВ	UNIT IVwill be completed
31	III	Planning of Smart Cities:	BB	
32	III	General prerequisites of smart cities	BB	
33	III	Policy frame work for smart cities.	BB	
34	III	Policy frame work for smart cities.	BB	
35	III	India 100 smart cities policy and mission	BB	The state of the s
36	IV	India 100 smart cities policy and mission	BB & LCD	
37	IV	India 100 smart cities policy and mission	BB & LCD	UNIT V will be completed
38	IV	Smart Governance: Definitions,	BB	•
39	IV	Functions of smart governance	BB	
40	IV	objectives of smart Governance	BB	- x2 - 17 h
41	IV	benefits of smart Governance	BB& Student Seminar	
42	IV	Infrastructure for smart governance	BB & LCD	
43	IV	Initiatives of smart governance.	BB & LCD	
44	IV	implementation stages of smart governance.	BB & LCD	
45	IV	implementation stages of smart governance.	BB & LCD	UNIT VIwill be completed

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