A-7 2024-25 (

LESSION PLANS FOR A.Y: 2024-25

SEM-I

LESSON PLAN for INTODUCTION TO PROGRAMMING 2024-25

I/I Civil-B M Sai Ba

		Mr. M Sai Babu	Teaching	Remar
Contact Hour	Unit No.	Topic	Methodology	ks
Cumulative)		Introduction to components of Computer	Chalk & Talk	
1	I	system	Chalk & Talk	
2	I	Algorithm	Chalk & Talk	
3	I	Flow chart	Chalk & Talk	
4	I	Program development steps	Chalk & Talk	
5	I	C Tokens	Chalk & Talk	
6	I	Data Types	Chalk & Talk	
7	I	Operator precedence and associativitiy	Chalk & Talk	
8	I	Structure of C program		
9	I	simple programs using Basic I/O statements	Chalk & Talk	
10	I	SAMPLE PROGRAMS	Chalk & Talk	
11	I	SAMPLE PROGRAMS	Chalk & Talk	
	I	SAMPLE PROGRAMS	Chalk & Talk	
12	1	Orlina 200	Chalk & Talk	
13	II	Decision statements: if	Chalk & Talk	
14	II	if-else, nested if	Chalk & Talk	
15	II	if-else-if ladder, and switch	Chair & Tair	
			Chalk & Talk	
16	II	while loop,	Chalk & Talk	
17	II	do-while loop,	MA 1 Y 19	
18	II	for loop, nested loops	Chalk & Talk	
19	II	Branching statements- Break, continue	Chalk & Talk	
		D. S. ition Times: Single	Chalk & Talk	-
20	П	Arrays: Definition Types: Single Dimensional arrays, Multi Dimensional		
21	II	declaration, initialization, accessing elements	Chalk & Tall	•
22	II	Matrix operations	Chalk & Tal	k
23	II	String Handling funtions	Chalk & Tal	k
24	II	SAMPLE PROGRAMS	Chalk & Talk	

			Chalk & Talk
		SAMPLE PROGRAMS	Chalk & Talk
25	II	SAMPLETRO	
26	11	SAMPLE PROGRAMS	Chalk & Talk
		SAMPLE PROGRAMS	Chalk & Talk
27	II	Functions: Definition, Declaration, Types of	Chark & Talk
28	III	Functions: Definition, Definition,	Chalk & Talk
	YYY	Functions Call by value and call by reference,	
29	III		Chalk & Talk
30	Ш	Passing Arrays to functions	Chalk & Talk
	TIT	Recursion, Scope and lifetime of variables	Chark & Tank
31	III		Chalk & Talk
32	III	Command line arguments,	
			Chalk & Talk
33	III	Storage classes	Cl. 11- 0- Talls
34	III	Pointers: Definition, Declaration,	Chalk & Talk
		Initialization	Chalk & Talk
35	III	Pointer arithmetic, functions and pointers	
36	III	Pointer to pointer	Chalk & Talk
			Chalk & Talk
37	III	Uses of Pointers, arrays and pointers	Chaik & Taik
38	Ш	SAMPLE PROGRAMS	Chalk & Talk
39	III	SAMPLE PROGRAMS	Chalk & Talk
40	IV	Structures: Definition	Chalk & Talk
41	IV	Declaration, Accessing the structure elements	Chalk & Talk
42	IV	Array of structures	Cl. 11 0 T 11
			Chalk & Talk
43	IV	Arrays with in structures,	Chalk & Talk
44	IV	pointer to structure, Self referential structure	Ch. II. e. m. II
15	77.7		Chalk & Talk
45	IV	passing structure to function	Chalk & Talk
46	IV	nested structures and unions	The state of the s
			Chalk & Talk
47	IV	Dynamic memory allocation	Chalk & Talk
48	IV	SAMPLE PROGRAMS	
		The state of the s	Chalk & Talk
49	IV	SAMPLE PROGRAMS	Cl. II
			Chalk & Talk
50	V	File Handling: Introduction, Types of files	Challe 9 m ii
			Chalk & Talk

	Tile	Chalk & Talk
V	Defining and Opening a File	
	Olygina a File Input/Output operations on	Chalk & Talk
V		
V	Error Handling during I/O operations	Chalk & Talk
	Elitor Additional Control of the Con	Chalk & Talk
V	Random Access to Files	Chaik & Talk
	The state of the s	Chalk & Talk
V	SAMPLE PROGRAMS	Chair & Taix
	V	V Closing a File, Input/Output operations on Files V Error Handling during I/O operations

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Branch	CIVIL	year		11	
AY 2024-25		semester		1	
S. No	Schedule	List of Experiments		No. of hours	Cumulative
1		Tension test on MS and HYSD ba	ars	3	3
2		Bending test on Cantilever beam	(Steel)	3	6
3	Cycle - I	Determination of Modulus of conducting Bending test on simpl		3	9
4	Syche 1	Torsion test on MS bar		3	12
5		Hardness test on steel		3	15
6	5	Compression test on wood		3	18
7		Impact test on Mild Steel bar		3	21
8		Deflection test on Fixed beam		3	24
9	Cycle - II	Bending test on RS Joist under UT	ГМ	3	27
10		Shear test		3	30
11		Determination of Modulus of conducting Bending test on cantile	Elasticity by	3	33

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Contact	Unit	SOWJANYA VANI Topic	Teaching	Remarks
Hour (Cumulative)	No.	ACM SOME SOURCE STATE OF THE SOURCE STATE OF T	Methodology	
1	I	Types of stresses and strains – Hooke's law – stress – strain diagram for mi ¹ d steel	Chalk & Talk	
2	I	Working stress – Factor of safety – Lateral strain, Poisson's ratio and volumetric strain	Chalk & Talk	
3	I	Bars of varying section	Chalk & Talk	
4	I	Bars of varying section	Chalk & Talk	
5	I	Analysis of composite section— Temperature stresses.	Chalk & Talk	
6	I	Analysis of composite section— Temperature stresses.	Chalk & Talk	Unit-1 will be completed
7	II	Definition of beam –Types of supports - Types of beams – Concept of shear force(S.F.) and bending moment (B.M.)	Chalk & Talk	
8	II	S.F and B.M diagrams for cantilever subjected to point loads, UDL., uniformly varying loads and combination of these loads	Chalk & Talk	
9	II	S.F and B.M diagrams for cantilever beams subjected to point loads, UDL., uniformly varying loads and combination of these loads	Chalk & Talk	
10	II	S.F and B.M diagrams for simply supported beams subjected to point loads, UDL., uniformly varying loads and combination of these loads	Chalk & Talk	
11	II	S.F and B.M diagrams for simply supported beams subjected to point loads, UDL., uniformly varying loads and combination of these loads	Chalk & Talk	
12		S.F and B.M diagrams for overhanging beams subjected to point loads, UDL., uniformly varying loads and combination of these loads	Chalk & Talk	

ERIALS, 2022-23, II/I, Civil-A. Dr. V.

LESSON	PLAN	for STRENGTH OF MATERIALS, 2022 SOWJANYA VANI Topic	Teaching Methodology	Remarks
Contact Hour (Cumulative)	Unit No.	Pelation	Chalk & Talk	Unit-2 will be completed
13	II	Point of contra flexure – Relative between S.F., B.M and rate of loading at a section of a beam	Chalk & Talk	
14	III	Theory of simple bending – Assumptions – Derivation of bending equation - Neutral axis	Chalk & Talk	
15	III	Determination bending stresses – section modulus of rectangular, circular sections (Solid and Hollow)		
16	III	Determination bending stresses – section modulus of I, T and Channel section	Chalk & Talk	
17	III	Determination bending stresses – section modulus of I, T and Channel section	Chalk & Talk	<u> </u>
18	III	Derivation of formula – shear stress distribution across various beam sections like rectangular	Chalk & Talk	
19	III	shear stress distribution across various beam sections like circular, triangular	Chalk & Talk	3
20	III	shear stress distribution across various beam sections like I, T sections	Chalk & Talk	Unit-3 will be completed 1st Mid Exams
21	IV	Torsion moment of resistance – Polar section modulus	Chalk & Talk	DAUIII3
22	IV	Torsion moment of resistance – Polar section modulus	Chalk & Talk	01
23	IV	Power transmitted by shafts	Chalk & Talk	
24	IV	Power transmitted by shafts	Chalk & Talk	
25	IV	Problems	Chalk & Talk	
26	IV	Problems	Chalk & Talk	
27	IV	Problems	Chalk & Talk	
28	IV	Introduction – Stresses on an inclined section of a bar under axial loading	Chalk & Talk	
29	IV	Compound stresses – Normal and tangential stresses on an inclined plane for biaxial stresses	Chalk & Talk	
30	IV	Compound stresses - Normal and	Chalk & Talk	

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tangential stresses on an inclined plane LESSON PLAN for STRENGTH OF MATERIALS, 2022-23, II/I, Civil-A. Dr. V. Remarks Methodology Topic Unit Contact No. Hour Chalk & Talk (Cumulative) Two perpendicular normal stresses 30 IV Unit-4 will accompanied by a state of simple shear Chalk & Talk be completed Two perpendicular normal stresses IV 31 accompanied by a state of simple shear Chalk & Talk Introduction – Types of columns –long 32 V columns - Euler's Crippling Load- assumptions Chalk & Talk Derivation of Euler's critical load for V 33 various end conditions Chalk & Talk Derivation of Euler's critical load for 34 V various end conditions Derivation of Euler's critical load for Chalk & Talk V 35 various end conditions Derivation of Euler's critical load for Chalk & Talk 36 various end conditions Equivalent length of a column – V Chalk & Talk 37 slenderness ratio Euler's critical stress - Limitations of V Chalk & Talk 47 Euler's theory Rankine - Gordon formula Chalk & Talk 48 Secant formula - Empirical formulae Chalk & Talk 49 V Straight line formula Chalk & Talk 50 Unit-5 will be completed

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		LESSON PLAN_FMHM (2024-25	9)	
Faculty name	Dr. M	. Suresh		
CONTACT	UNIT NO.	TOPIC	TEACHING METHODOLOGY	REMARKS
1	1	Dimensions and units	BB	
2&3	1	Physical properties of fluids	BB	
4	1	Pascal's law	BB	17 12
5	1	Hydrostate law	BB	
6&7	1	Manometer	BB	
8	1	Hydrostatics	PPT	
9	1	Center of pressure	PPT	
10&11	1	Derivations and problems	PPT	
12	2	Buoyancy and flotation	PPT	
13&14	2	Meta center and metacentric and problems	BB	
15&16	2	Fluid kinematics Fluid flow-stream line and path line	PPT	
17	2	Classification of flows	BB	
18	2	continuity equations	BB	
19	2	Stream and velocity functions	BB	
20	2	Flow net and problems	BB	
21	3	surface and body surface	BB	
22	3	Euler's equation	BB	
23&24	3	Bernoulli's equation and applications	BB	
25	3	Venturi meter and syphon	PPT	
26	3	Forces and momentum equation	BB	
27	3	Reynold's experiment	BB	A A A
28	3	Laminar and turbulent flows	BB	
29	4	Hydrodynamic forces of jets	BB	
30&31	4	stream and velocity functions	PPT	
32	4	Jet striking centrally and at the tip	PPT	
33	4	Expressions for work done and efficiencies	PPT	
34&35	4	Principal of angular momentum	BB	
36	4	Heads and efficiencies	BB	
37	4	Classification of turbines	PPT	33 3
38	4	Velocity diagram and work done efficiencie	s BB	
39	5	Classification of Pumps	BB	
40&41	5	Pumps installation	BB	

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			22	
			BB	
42	5	Losses and efficiencies	BB	
43	5	Specific speed	BB	
44	5	Pumps in Series and Parallel	BB	
45	5	Characteristic curves	PPT	
46	5	Cavitation	PPT	
47	5	Reciprocating Pump	PPT	
48	5	Discharge, Slip	BB	
49	5	Indicator Diagrams	BB	
50	ALL	Revision and solving problems	BB	
51	ALL	Revision and solving problems		

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

Class: II-I(A) B. TECH (2024-25)

Subject: Fluid Mechanics and Hydraulic Machines Lab (23CEL202)

Faculty Name: Dr.Sanjay Kumar Ray & Dr.G.Prasanna Kumar

	Name of the Experiment	Hours
S.No	Introduction to Fluid Mechanics and Hydraulic Machines Lab	3
1	Introduction to Fluid Weenames as	3
2	Determination of Coefficient of discharge of Venturimeter	3
3	Determination of Coefficient of discharge of Orifice meter	2
4	Determination of Coefficient of discharge for a small orifice	3
	by a constant head method.	
5	Determination of Coefficient of discharge for an external	3
	mouth piece by constant head method.	
6	5. Determination of Coefficient of discharge of Trapezoidal	3
	Notch and /or Triangular Notch.	
7	Determination of Coefficient of loss of head in a sudden	3
	contraction and friction factor.	
8	Impact of jet on vanes.	3
9	Performance test on Pelton wheel turbine	3
10	Efficiency test on centrifugal pump.	3
11	Efficiency test on reciprocating pump.	3
	Total	33

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

Class: II-I(B) B. TECH (2024-25)

Subject: Fluid Mechanics and Hydraulic Machines Lab (23CEL202)

Faculty Name: B HARISH

S.No	Name of the Experiment	Hours
1	Introduction to Fluid Mechanics and Hydraulic Machines	3
2	Determination of Coefficient of discharge of Venturimeter	3
3	Determination of Coefficient of discharge of Orifice meter	3
4	Determination of Coefficient of discharge for a small orifice by a constant head method.	3
5	Determination of Coefficient of discharge for an external mouth piece by constant head method.	3
6	5. Determination of Coefficient of discharge of Trapezoidal Notch and /or Triangular Notch.	3
7	Determination of Coefficient of loss of head in a sudden contraction and friction factor.	3
8	Impact of jet on vanes.	3
9	Performance test on Pelton wheel turbine	3
0	Efficiency test on centrifugal pump.	3
1	Efficiency test on reciprocating pump.	3
	Total	3

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Strength of materials Ay: 2024-25 M. Saihem II-I/CMI-B.

		LESSON PLAN	Teaching(*)	Remarks
ontact Hour Cumulative)	Unit No.		Methodology	
1	1	Types of Streng & Grains	BET	
2		Hookeylaw, gren- grain digram	- 11	
3		Norking Stron-Fos	11	
4		Flasticemstants.	li	
5		Relation LIW Glastic conflort	l)	
To de la constitución de la cons		problems on Elastic con starts	,	3.9.
<u>6</u>		Bars of Vouring Cron-subn	1)	
8		publish on bars with Macyin; correction	4	
9		analysis of comparusation	11	
10		Thermal strong	4	
n		poblem on Stron, Strain	1	18
12	V	protes on Thermal Streen		
13	<u> </u>	Introduction To Beam, SI, BM	1	
14		types il beams	1	
15		Inhabita to SFDS 8MI)	1	100
16		SFDEBNO4 S.S beam	19	1.27
17		MD, BMD cantilivarba	een 4	
18		SFO, 8MD Fixed beam	,	
19		SFP, BMP overhaving b		
20		SPD RMD Continu Leon	,	

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1 / cws - 0		LESSON PLAN	Teaching(*) Methodology	Roman	Contact Hou
		Topic		and I	Contact
Contact Hour	Unit No.	pulling on Sis brain	٨		Contact Hou
(Cumulative)	140.	onthing on 813	11	1	
21	2	profum on antitiver boom			1 0
8.8		probum on are houng tour	11		
23		and and sall of	11		
84		Relation HN St & BNT lawing	n		
25		point of contrataxure.	1		
26		problem on pixel bearns			-
27		proper on contine beau	(1		
28	(III	Introduction to Hearth Streem	11		
29		Theory of pire bending, another	2 1	-	
30		Derivation of bending Cauctum.	1		
31		Determination of bending stron	ıı .		
32		tr I, 7- satim.	11		
33		Ciram Sato, Restanting	1)		
34		Introductor to that strain.	11		
35		Show alistribution arron	11		
36		Various beams on Redander	1 11		
37		2 - Seatin,	ų i		
38		7-Satim	"		
39		problem on bending strong	1		
40		problem in Show then.	"		
		*Black Board / LCD / OHP / Other Metho			

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		LESSON PLAN	Teaching(*) Methodology	Remarks
Contact Hour (Cumulative)	Unit No.	Topic	BBT	
41	0	Theory of pure location		
42		Derivation of Function Eartin	11	
24		amortim, forsten mornit rentlam.	11	
44		tolal Section moduly	11	
us		power transmitted by short	11	
46		Principal Strong principal straight	11	
47		Stren Included to bal conder	11	
48		avial loneling, compand stren.	tr	
49		Normal & Tangutan Stron.	11	
23		produm on two perpendicular	. 4	
51		normal strong, moth's circle	"	
52	ũ	Introduction to column 6 structs	,	
53		clamitatin, axial load, sund return	,,	
54		End conditions & assumptions	11	
55		Eula's Thory-	11	
56		with bounday Condutme.	11	
57		Panking throng	Įt.	
58		Gorden bulking trung.	u	
59		Secon formula	'n	
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Contact Hour	Unit	KRUPASINDHU BISWAL Topic	Teaching	Remarks
(Cumulative)	No.	a moter's reportment	Methodology	
	· ·	Dimensions and units	Chalk & Talk	
1	I	Physical properties of fluids specific	Chalk & Talk	
2	I	gravity, viscosity		
3	I	surface tension, capillarity	Chalk & Talk	
			Chalk & Talk	
4	I	pressure at a point Pascal's law	Chalk & Talk	
5	I	Hydrostatic law	Chalk & Talk	
6	I	atmospheric, gauge and vacuum	Chalk & Talk	
7	1	pressure	CONTRACTOR OF THE PARTY OF THE	
8	I	Measurement of pressure.	Chalk & Talk	
9	I	Manometers:simple	Chalk & Talk	
10	I	Differential Manometers	Chalk & Talk	Unit-1 will be completed
11	II	Hydrostatic forces on submerged plane, Horizontal, Vertical	Chalk & Talk	
12	II	inclined and curved surfaces	Chalk & Talk	
13	II	Center of Pressure. Derivations and Problems	Chalk & Talk	
14	II	stability of floating bodies Meta Center	Chalk & Talk	
15	II	Meta centric height	Chalk & Talk	
16	II	Description of fluid flow, Stream line, path line	Chalk & Talk	U. A. I
17	II	streak lines and stream tube	Chalk & Talk	
18	II	Classification of flows: Steady, unsteady, uniform, non-uniform, laminar, turbulent, rotational and rotational flows	Chalk & Talk	
19	II	Equation of continuity for one, two, three dimensional flows	Chalk & Talk	
20	II	stream functions,	Chalk & Talk	
21	II	velocity potential functions	Chalk & Talk	Unit-2 will b
22	III	Surface and body forces	Chalk & Talk	
23	III	Euler's equations for flow along a stream line for 3-D flow	Chalk & Talk	
24	III	Bernoulli's equations for flow along a stream line for 3-D flow	Chalk & Talk	
25	III	Venturi meter and syphon	Chalk & Talk	
26	III	Momentum equation - forces on pipe bend	Chalk & Talk	

Contact Hour (Cumulative)	Unit No.	ON PLAN for FMHM, 2024-25,II/I, Civil Topic	Teaching Methodology	Remarks
29	III	Reynold's experiment	Chalk & Talk	
30	III	- Characteristics of Laminar & Turbulent flows	Chalk & Talk	
31	III	Darcy Weisbach equation- Minor losses in pipes	Chalk & Talk	
32	III	- pipes in series and pipes in parallel-	Chalk & Talk	
33		total energy line-hydraulic gradient line	Chalk & Talk	
34	III	pipe networks	Chalk & Talk	Unit-3 will be completed
35	IV	Hydrodynamic force of jets on stationary flat	Chalk & Talk	
36	IV	moving flat, inclined and curved vanes	Chalk & Talk	
37	IV	curved vanes	Chalk & Talk	
38	IV	jet striking centrally and at tip, velocity triangles at inlet and outlet	Chalk & Talk	
39	IV	expressions for work done and efficiency	Chalk & Talk	
40	IV	principle of Angular Momentum	Chalk & Talk	
41	IV	Layout of a typical Hydropower installation	Chalk & Talk	
42	IV	Heads and efficiencies-classification of turbines Pelton wheel	Chalk & Talk	
43	IV	Francis turbine	Chalk & Talk	
44	IV	Kaplan turbine	Chalk & Talk	Unit-4 will be
45	V	Pump installation details-classification	Chalk & Talk	
46	V	work done	Chalk & Talk	
47	V	Manometric head	Chalk & Talk	
48	V	minimum starting speed	Chalk & Talk	
49	V	losses and efficiencies	Chalk & Talk	
50	V	specific speed	Chalk & Talk	
51	V	multistage pumps-pumps in parallel and series	Chalk & Talk	
52	V	characteristic curves-NPSH-cavitations	Chalk & Talk	A 2 3 3 5 5 5 5
53	V	Reciprocating Pump:working	Chalk & Talk	
54	V	SLIP, NEGATIVE SLIP	Chalk & Talk	Unit-5will b

LESSON PLAN

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

Code: 23EST206 Academic Year:2024-25

Period	Unit No.	Topic	Teaching Methodology	Remarks
		Introduction to Python		
	I	Control Structures	and the latest the lat	
,		History	PPT	
1	The same of the sa	Features, Installing	PPT	
2		Operators	PPT	
3		Operators	PPT	
5		Statements and Expressions	PPT	
	Parada de Para	Conditional Statements	PPT	
7		Conditional Statements	PPT	
		Loops	PPT	
8	II	Data Types		
		Mutable vs immutable data	PPT	
9		type	11.1	
	Carried Control	Introduction to Numbers,		
10		Integers,	PPT	
10		Floating Point Real Numbers		The second second second
11		Complex Numbers, Operators	PPT	
11		Built-in Functions	PPT	
12		Related Modules	PPT	1 230
13		Sequences - Strings	PPT	o per on y lad
		Lists	PPT	
15			PPT	A CONTRACTOR OF THE PARTY OF TH
16		Tuples	DDT	
17		Dictionaries	PPT	
18	A Comment of the Comment	Set Types	PPT	
	III	Functions & File Handling	THE PARTY NAMED IN	
19		Definitions, Declaration	PPT	
20		Parameter passing	PPT	
21		calling functions	PPT	DEL MINISTER DE LA SERVICIO
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	
-		Programs	PPT	A CONTRACTOR OF STREET
26		Modules		
	IV		PPT	
27		Modules and Files	-	
28		Namespaces	PPT	
29		Importing Modules	PPT	
30		Importing Module Attributes	s PPT	
31		Module Built-in Functions	PPT	
		Packages	PPT	
32				Head o
33	31337	Other Features of Modules		Domarino
34		Other Features of Modules	PPT	ALT

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

BB: CLASS ROOM

PPT: POWER POINT PRESENTATION

LCD

TEXT BOOKS

1. Wesley J. Chun "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

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		LESSON PLAN		3
Contact Hour	Unit		Toaching(*) Methodology	Romarks
(Cumulativo)	No.	Introduction, Building Bye-	CR/BB	
2	1	Objectives of Childing Byelans	CR/88	
3	1	Objectives, FSR, FAR.	CHOB	
4	1	Principles undulying building bye land	CR/00	
4	1	Principles underlying laws.	CR BE	-
5	1	Classification of building,	11	-
6	1	Open space Requirements	11	
7	1	lighting equirements	h	-
7	1	vertillation lequisements	n	
8	1	Building Somices.	h	
8	1	Pleanbring	V.	
9	1	Electrical fixtures	n	
10	2	- Oscientation of building	n.	
11	2	Grouping, Privacy	4.	
11	1 9	Eligana, Flexibility	u.	
12	2	Roommen, Caculation	tr	-
13	2	Furiture Requirement	o h	
13	2	Sanitation & Economy		
19	9	Effect of Sur		
14	2		tion	1.

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Departmenent of Composition

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apica		LESSON PLAN	Toaching(*) Mothodology	Romark
	1 11-11	Tonic	To an internal	1
Contact Hour (Cumulative)	Unit No.	acing of a house.	CP/BB	-
15	2	-findout-foring of a house.	11	
16	2	Hintmern & andards builting	11	
17-	2	Hinmun Mar	1 polyton	,
18	2	Introduction to various	1 112,500	i'
18	2	software tools ien building	1 115/2/1	· C
18	2	Planning	1 100 100	1.
19	2	Planning of Educational	11	
20	2	Planning of hospitals	1 19/8/21	
21	2	Interior Decoration - Principe	ii ii	
22	2	Basic Conaple of Design	1 miles	• !
23	2	Balance, Unity,	1 11911	11
23	2	Phythm, Emphacis	in define	' i
24	2	Brostrast, Scale, Proportion	10/13/	7 1
25	3	Masorny- classification	til es	111
26	3	Stone Masonry	C PHOS	1
27	3	Rusble & Ashlar Masony	1.11	- 41
28	3	Brick Masonry	, ,, ,, ,	1
29	3	Flendsh & English Bond	13	1.5
30	3	Foundations 11. 11.	11	11
31	3	Shallow foundations.	- H(V)	,
	-1	Black Board / LCD / OHP / Other Method		1

Head of the Department
Department of Civil Engineering
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		LESSON PLAN	Toaching(*) Mothodology	Romark
Contact Hour	Unit	Topic	1 4. 1	
(Cumulativo)	No.	Deep Burdowns - types	(R/BB	
32	3	Deep four december	11	
33	3	Pointing	11	
34	3	water Proofing	11	4.1
35	3	Damp Proofing	11	
3%	3	Termite Proofing	Tr.	*
37	3	Plastering	11	
38	3	External & Internal Finish	11 1/1	4
39	3	White washing "" "	17 19-31	*: a
40	3	Diotempering.	underles	Pe
41	4	Construction Techniques	1 11/-11	0
4)	4	For various eliments of	i petroj,	1.
42	4	Scaffolding	t note	1
43	9	Shoring	n n	0.
44	4	Under Printing	i i da	Pi
44	4	Form Work	" " " M"	14
45	4	Errection & Falonication	U sul al	1.
45	4	Introduction to Reflactions	11 111	1
46	5	Construction Equapments	" , ut 1 :	
46	5	Type Mills	1 Medial.	
47	5	Excavators	11 10 1/8	1.

		LESSON PLAN	Toaching(*)	Remar
Contact Hour (Cumulative)	Unit No.	Topic	Mothodology	Remar
48	5	Payers	'cel'BB	11
1 49	5	Plantertry Machanic	1 MAIN	
50	5	Pre-Btreesing Jacks	actul.	, ,
50	5	Growing Equipment!	in dele	110
51	5	Cranes	11/2/1/2	19.1.
52	5	Houst	" 1 = [11]	3.7.
53:	5	Concrete Botching Plant	V · d	4.1
Total: 53.		at a second	10 31	8,1
		fer my	1 2 101	111
		Marin I water	19/2	4
		Department of Civil Engineering AITAM, TEKKALI.	1000	
1		1		
	The state of the s	-	/	
		1	a W	1
1	100		124	
. 34	1	The state of the s		
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THE STATE OF			* 1	
		A 40 0	1	
	-	Will be		

AY: 2024-2025 I Sem.

		LESSON PLAN		
Contact Hour (Cumulative)	Unit No.	Toplc	Teaching(*) Methodology	Remarks
1	1	Introduction, Building Bye-	CR/BB	
2	1	Objectives of Building Byelans	CR/BB	
3	1	Objectiveo, FSR, FAR.	CHOO	
4	1	Principles undulying building bye laws	CR/80	
4	1	Principles underlying laws.	CR BB	-
5	1	Classification of building	11	-
6	1	Open space Requirements	η	
7	1	lighting bequirements	lı .	
7	1	Ventillation liquisements	n	
8	1	Building Somices.	h	
8	1	Pleanbring	ч	
9	1	Electrical fixtures.	11	
10	2	Osientotion of building	II	
11	2	Grouping, Privacy	a	
11	2	Eligana, Flixibility	tr.	V .
12	2	Roommen, Cilculation	Žŧ.	
13	2	Furiture Requirements	lt	
13	2	Sanitation & Economy	n	
14	2	Effect of Sur	٨	
14	2	foctors effecting orientate	را مع	

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*Black Board / LCD / OHP / Other Methods of the Department

		LESSON PLAN	Teachir Method	ology JB(,)	Convecti
		Topic La Louge	CR1	88	Commit
Contact Hour (Cumulativo)	Unit No.	find out foury of a house	11	1	
15	4	000000	1		1
16	2	Hintraun Pequirerrents	11		///
17-	2	1.040			
18	2	antroductions in builder	2		
18	2	Situate	1	1	
18	2	Planning .		17	•
19	2	Planning of Educational	1	11	
20	2	planning of haspitals	10U	1)	
21	2	Interior Decoration-Prince	1	11 9	
22	2	Basic Conapte of Desig	7		
23	2	Balance, Unity.		1	-
23	2	Phytom, Emphacis		- 11	-
24	2	Brostrast, Scale, Proports	on	η	
	3	Hasomy- classification	~	ti	
25	3		4	ti	
26	-	Public Achlar Ma		11	
27	3	2		ŋ	
28	3				-
29	3	Flernish & English Box	~. <u> </u>	11	
30	3			11	
31	3	Shallow foundate	مح	ti	

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Department of Civil Engineering

1		CON PLAN	-	
	_	LESSON PLAN	Toaching(*) Methodology	Romarkanta
Contact Hour	Unit No.	Deep Pour doctorno - tylus	(R/BB	um
(Cumulative)	3	Deep 1000	11	~
32		Pointing	11	-
33	-	Lorder Proofing		-
34		pump Proofing	11	-
35	-	Termite Proofing	11	-
36	3	Plastering	11	
37	3	External & Internal Finish	1 1	
38	3	White washing	11	
39	3	* * * *	- ft	
40	3	Diotempering.		
41	14.	Construction Techniques	11	-
41	4	For various eliments of '	11	-
42	4	Scaffolding	- "	+
43	4	Shoring	11	
44	4	Under Printing	11	-
44	4	- 1	11	-
45	4	Errection & Fabrication	11	-
	4	Introduction to Reflections	td 11	-
45		Construction Equationent	0 (1	
46	5		1 11	
46	5	Types	11	
47	5	Excavators		
		Black Board / LCD / OHP / Other Metho	and the same of th	

Contact Hour	Unit	LESSON PLAN Topic	Teaching(*) Methodology	Remark
(Cumulative)	No.	The state of the s	CHBB	
.48	5	lavers		
' 49	5	Plantering Mochanic	if.	
50	5	Pre-Breesing Jacks.	H.	
50	5	Growing Equipment!	11	
51	5	Cranes	Ч	
52	5	HOVETS	r	
53:	5	Concrete Batching Plants	W.	
total: 53.			7	
	many different	for i	10	
		Head of the Department	Melsin	
		Department of Civil Engineering AITAM, TEKKALI.		
100				
		A Commence of the second		
	-			

LESSON PLAN

Course Name: Python Programming

Branch:CEClass / Semester:II/I Academic Year:2024-25

Period	Unit No.	Topic	Teaching Methodology	Remarks
		Introduction to Python		
	I	Control Structures		
1		History	PPT	
1		Features, Installing	PPT	
2		Operators	PPT	
3		Operators	PPT	
4		Statements and Expressions	PPT	
5		Conditional Statements	PPT	
6		Conditional Statements	PPT	
7		Loops	PPT	
8		Data Types		
	II	Mutable vs immutable data	PPT	
9		type	111	
		Introduction to Numbers,		
		Introduction to Numbers,	PPT	
10		Floating Point Real Numbers	- The second	
		Complex Numbers, Operators	PPT	
11		Built-in Functions	PPT	
12		Built-in Functions	PPT	
13		Related Modules	PPT	
14	To region the second	Sequences - Strings		
14		Lists	PPT	
15			PPT	
16	1000000	Tuples		
17		Dictionaries	PPT	
		Set Types	PPT	
18	III	Functions & File Handling		
	111	Definitions, Declaration	PPT	
19		Parameter passing	PPT	
20	The state of the s	Palameter passing	PPT	
21		calling functions		
22		creating a file, opening a file	e PPT	
44		I/O with file (read, write,		
23		I/O willi file (read, wills)	PPT	
23		append),	PPT	
24		closing a file	111	
24			PPT	
25		Programs	PPT	
26		Programs		CONTRACTOR DESIGNATION OF THE PARTY OF THE P
	IV	Modules		D
27		Modules and Files	PP	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN
_		Namespaces	PP'	T
28		Importing Modules	PP	T
29		importing woodies		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN
30		Importing Module Attribut	-	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN
31		Module Built-in Function	10	THE RESIDENCE OF THE PARTY OF T
		Packages	PP	THE RESIDENCE THE PERSON NAMED IN COLUMN 1
32		Other Features of Module	es PF	T

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	v	Classes in Python& Regular Expressions	
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
41		Introduction to Regular Expressions	PPT
42		Special Symbols	PPT
43		Characters	PPT
44		Res and Python	PPT
45		Res and Python	PPT
46		Programs	PPT
47	1 22 12 1	Programs	PPT
48	1 12 3000 11	Programs	PPT

BB: CLASS ROOM

PPT: POWER POINT PRESENTATION

LCD

TEXT BOOKS

Wesley J. C hun "Core Python Applications Programming", 3rd Edition, 2012, Prentice Hall.
 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.	Sri G. Anil Kumar Topic	Teaching Methodology	Remarks
1	I	Introduction	PPT	
2	I	Highway development	PPT	
3	1	Modes of transportation, role of highway transportation in India	PPT	
4	I	Necessity and road development plans	THE STREET	
5	I	Road development plans	PPT	
6	I	Road network patterns	PPT	
7	I	Alignment	BB	
8	I	Factors affecting alignment	ВВ	
9	I	Engineering surveys and drawings	PPT	
10	II	Geometric design, Cross section elements	PPT	
11	II	Sight distance and types	ВВ	
12	II	SSD, OSD, ISD	BB	
13	II	Sight distance problems	BB	
14	II	Super elevation	ВВ	N CONTRACTOR
15	II	Problems on super elevation	BB	1 130
16	II	Design of transitional curve	BB	
17	П	Extra widening	BB	

18	II	Design of vertical curves	BB	
19	II	Design of vertical curves	ВВ	
	II	Vertical gradient	ВВ	
20		Highway material – soil	PPT	
21	III	Aggregate properties	PPT	
22	III	Aggregate tests	PPT	
23	III		PPT	
24	III	Bitumen and tar	PPT	
25	III	Tests on bitumen	PPT	
26	III	Bitumen types		
27	III	Problems on mix design	PPT	
28	III	Bituminous concrete	PPT	
29	III	Marshall mix design	BB	
30	IV	Different types of roads	PPT	
31	IV	Earthen and WBM Roads	ВВ	
	IV	BT roads	PPT	
32		CC roads and stresses	PPT	
33	IV		PPT	
34	IV	Tie bars and dowel bars		
35	IV	Flexible pavement construction	PPT	
36	IV	Distresses on flexible pavement	PPT	

37	IV	Types of pavement & maintenance	PPT	
38	IV	Maintenance and drainage	PPT	
39	IV	Arboriculture culture and lighting	PPT	
40	V	Elements of Traffic Engineering - Vehicle & Road User Characteristics,	PPT	
41	V	Accessibility & Mobility concept,	PPT	
42	V	Traffic Volume studies & methods,	PPT	
43	V	Speed Studies – Time Mean Speed, Space Mean Speed,	PPT	
44	V	Travel time and Delay studies,	PPT	
45	V	Origin - Destination studies,	PPT	
46	V	Highway capacity and level of service (LOS)	PPT	
47	V	Highway capacity and level of service (LOS)	ВВ	
48	V	capacity of urban and rural roads,	PPT	
49	VI	PCU concept and its limitations	PPT	
50	VI	Parking Studies – Problems of parking,	PPT	
51	VI	types of parking facilities – on street & off street,	PPT	
52	VI	types of parking facilities – on street & off street,	PPT	
53	VI	Accidents -Causes and Mitigative measures	PPT	

LESSONIE		DESIGN OF CONCRETE STRUCTUR Sri. S. RAMLAL		Remarks
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Kemarks
1	I	Concepts of limit state design-Basic statical principles	Chalk & Talk	
2	I	Characteristic loads – characteristic strength	Chalk & Talk	
3	I	Partial load and safety factors – representative stress – strain curves for cold worked deformed bars and mild steel bars	Chalk & Talk Role Play	
4	I	Representative stress – strain curves for cold worked deformed bars and mild steel bars	Chalk & Talk	
5	I	Based on IS Code :456-2000. Assumptions in limit state design	Chalk & Talk	
6	I	Stress – block parameters	Chalk & Talk	
7	I	limit state analysis and design of singly reinforced	Chalk & Talk	
8	I	limit state analysis and design of singly reinforced	Chalk & Talk	
9	I	limit state analysis and design of singly reinforced	Chalk & Talk	
10	I	Comparison of Limit stage method with working stress and ultimate load method	Chalk & Talk	Unit-1 will be completed
11	II	limiting moment of Resistance	Chalk & Talk	
12	II	Design ofdoubly reinforced	Chalk & Talk	
13	II	Design ofdoubly reinforced	Chalk & Talk	
14	II	Design ofdoubly reinforced and flanged T beam sections	Chalk & Talk	
15	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	
16	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	
17	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	Unit-2 will be completed
18	III	Limit state analysis and design of section for shear and torsion	Chalk & Talk	
19	III	Problems on shear	Chalk & Talk	
20	III	Problems on shear	Chalk & Talk	
21	III	Problems on shear	Chalk & Talk	

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			PRICTUR	,		Dama	ks Co
			ON OF CONCRETE STRUCTUR Sri. S. RAMLAL Topic	Too	ching	Remar	ks
			OF CONCREAMLAL	162	odology		1
	T	ESIG	Sri. S. RA	Meth	L & Talk		
ON PL	IN for I	,,,,	Topic	Chal	k & Talk		
LESSON				Chal	k & Talk		
Contact Hour	Unit		nale	Cha	lk & Talk	Maria de la companya della companya	
Cumulative)	No.	Torsio	n example			Unit-3	will be
Cumulat.	IXX	Torsio	on example on example ept of bond, anchorage and ept of bond, l.S. code provisions comment length, l.S. code	Cha	ılk & Talk	comple	
23	III	conce	ept of bond, ath, I.S. code pro	Circ		1st M	id
24	III	devel	on example on example ept of bond, anchorage and lopment length, I.S. code provisions ept of bond, anchorage and ept of bond, l.S. code provisions elopment length, I.S. code provisions			Exan	
-		conc	ept of bond, and I.S. code provision	10000		Exam	
25	III	deve	elopment length,		nalk & Talk		
		1		Ch	nalk & Talk		
			Calabs	CI	nalk & Talk		
	IV	Clas	ssification of slabs	C	halk & Talk		
26	IV			+ 0	halk & Talk	-	
27		De	sign of two - way	+	halk & Talk		
28	IV	De	sign of two - way slabs				
29	IV	De	esign of two - way stabs esign of continuous slabs using IS	-	Chalk & Talk		
30	IV	Co	pefficients (conventional) pefficients (conventional)	1	naik &		ill be
	1				Chalk & Talk	Un	it-4 will be
31	1	C	oefficients (conventional)		Chaik & Turn	COI	mpleted
	I		· -F continuous sie		u o Tell	,	
32	1	\ C	Coefficients (conventional)		Chalk & Tall		
		U E	ffective length of a column,		- 1	-	
33					Chalk & Tal	K	
24		VI	provisions Design of short columns under axial	3			
34	100	7.5-1			Chalk & Ta	lk	
25		V	Design of short columns under axial	4			
35			· Annual Control of the Control of t		Chalk & Ta	alk	
26	_	V	Design of short columns under axial		Chan		
36				I laises	Chalk & T	alk	
27	_	V	Design of short columns under b un	laxiai	Chair & I	dik	
37	150	7 %	Landing		Cl 11 0 7	2-11-	
20		V	Design of short columns under	4 3	Chalk & T	aik	100
38	18	A 24	biovial hending	200			
20		V	Design of short columns under bia	xial	Chalk &	Talk	
39	18	•	bending				
10		V	Design of long columns		Chalk &	Talk	
40			Design of long columns		Chalk &	Talk	
41		V	Design of long columns		Chalk &		Unit-5 will be
42		V	Design of long columns		Ondin Co	1 dik	completed
10		VI	Types of footings.		Chalk 8	t Talk	
43			Distribution of base pressure		Chalk &		
44	-	VI	General Design considerations for	or	Chalk &		
45	, .	VI			Chark	2 I dik	
		1	footings.	ooting	Chall	9. TP 11	
46		VI	Design of Isolated rectangular for	Joung	Chark	& Talk	

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
47	2.00	Design of Isolated rectangular footing	Chalk & Talk	
48		Design of Isolated rectangular footing	Chalk & Talk	
49		Design of Isolated rectangular footing	Chalk & Talk	
50		Design of Isolated square footing	Chalk & Talk	
51		Design of Isolated square footing	Chalk & Talk	
52		Design of Isolated square footing	Chalk & Talk	Unit-5 will be completed
		Grand Test		2 nd Mid Exams

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Lab Name: TRANSPORTATION ENGINEERING Lab

Year:2024-2025

Branch: Civil

Semester: III-I

Sec-A

Faculty Name: Sri G Anil Kumar

Course Code: 20CEL206

		No. of Hours
	Lab Lesson Schedule	3
s.No	Aggregate Crushing value	3
	Aggregate Crushing	2
2	Aggregate Impact Test.	3
3	Specific Gravity and Water Absorption.	3
4	Attrition Test	3
5	Abrasion Test.	3
6	Shape tests	3
7	Viscosity Test.	3
8	Ductility Test.	3
9	Softening Point Test.	3
10	Flash and fire point tests.	3
11	Penetration test	3
12	Stripping test	36
12	Total Contact Hour	

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Contact Ho (Cumulativ		Topic	Teaching Methodology	Remarks
1	I	Introduction	PPT	
2	I	Highway development	PPT	1100
3	I	Modes of transportation, role of highway transportation in India	PPT	
4	I	Necessity and road development plans		
5	I	Road development plans	PPT	
6	I	Road network patterns	PPT	
7	I	Alignment	ВВ	
8	I	Factors affecting alignment	ВВ	
9	I	Engineering surveys and drawings	PPT	
10	II	Geometric design, Cross section elements	PPT	
11	II	Sight distance and types	BB	
12	II	SSD, OSD, ISD	ВВ	
13	П	Sight distance problems	BB	
14	II	Super elevation	BB	
15	II	Problems on super elevation	BB	
16	II	Design of transitional curve	BB	
17	II	Extra widening	DD	

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		tigal curves	BB
18	II	Design of vertical curves	BB
	II	Design of vertical curves	BB
19		Vertical gradient	DB
20	II	Highway material – soil	PPT
21	III		PPT
22	III	Aggregate properties	
23	III	Aggregate tests	PPT
24	III	Bitumen and tar	PPT
25	III	Tests on bitumen	PPT
26	III	Bitumen types	PPT
27	III	Problems on mix design	PPT
28	III	Bituminous concrete	PPT
29	III	Marshall mix design	ВВ
30	IV	Different types of roads	PPT
31	IV	Earthen and WBM Roads	ВВ
32	IV	BT roads	PPT
33	IV	CC roads and stresses	
34	IV		PPT
35	IV	Tie bars and dowel bars	PPT
		Flexible pavement construction	PPT
36	IV	Distresses on flex ble pavement	PPT

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AITAM, TEKKALI.

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37	IV	Types of pavement & maintenance	PPT	
38	IV	Maintenance and drainage	PPT	
39	IV	Arboriculture culture and lighting	PPT	
40	V	Elements of Traffic Engineering - Vehicle & Road User Characteristics,	PPT	
41	v	Accessibility & Mobility concept,	PPT	
42	V	Traffic Volume studies & methods,	PPT	
43	v	Speed Studies – Time Mean Speed, Space Mean Speed,	PPT	
44	V	Travel time and Delay studies,	PPT	
45	V	Origin - Destination studies,	PPT	
46	V	Highway capacity and level of service (LOS)	PPT	
47	V	Highway capacity and level of service (LOS)	ВВ	
48	V	capacity of urban and rural roads,	PPT	
49	VI	PCU concept and its limitations	PPT	
50	VI	Parking Studies – Problems of parking,	PPT	
51	VI	types of parking facilities – on street & off street,	PPT	
52	VI	types of parking facilities – on street & off street,	PPT	
53	VI	Accidents -Causes and Mitigative measures	PPT	

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Department of Civil Engineeric
AITAM, TEKKALI.

LESSON PLAN

ACADAMIC YEAR: 2024-25

YEAR & SEM: III/I, SECTION: A

FACULTY NAME: Sri. G. GOWRI SANKARAREAO SUBJECT: ADVANCOC STRUCTURAL ANALYSIS

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodolo gy	Remarks
1	I	Assumptions in slope deflection method - application to the analysis of statically indeterminate beams with and without settlement of supports	BB	
2	I	Solving the problems of continuous beam without sinking	ВВ	
4	I	Solving the problems of continuous beam without sinking	BB	
5	I	Solving the problems of continuous beam with sinking	BB	
6	I	Solving the end moments of the rigid frame without sway	BB	
8	I	Solving the end moments of the rigid frame with sway and draw the BMD & SFD, Solving the end moments of the rigid frame with sway and draw the BMD & SFD	BB	
9	II	Moment Distribution method explain Stiffness and carry over factors and also Distribution factors	ВВ	
10	II	Solving the problems of continuous beam end moments without sinking	BB	
12	II	Solving the problems of continuous beam end moments without sinking and draw BMD.	BB	
13	II	Solving the problems of continuous beam end moments with sinking and draw BMD.	BB	
15	II	Solving the end moments of the rigid frame and draw the BMD & SFD, Solving the end moments of the rigid frame with sway and draw the BMD & SFD	ВВ	
16	III	Kani's method- Analysis of continuous beams – including without sinking	BB	
17	III	Analysis of continuous beams – including without sinking	BB	
19	III	Kani's method- Analysis of continuous beams – including witht sinking	BB	
20	III	Kani's method- Analysis of continuous beams – including without sinking	BB	

		including	BB	
	, ,	Analysis of continuous beams – including	BB	
21	III	Analysis of continuous beams – including Analysis of continuous beams – including		a ill ha
22	III	Analysis of continuous bearing	BB	Unit-3 will be completed
23	111	without sway 1 draw the Divi		completed
24	III	without sway Find end moments and draw the BMD & SFD of the portal frame with sway SFD of the start of Stiffness Method	BB	
		SED of the personal state of the second seco	BB	
25	IV	SFD of the portal Hame Introduction to Stiffness Method Introduction of stiguous beams with two		
26	IV	Analysis of continuous	BB	
		unknows. Analysis of continuous beams with two		
27	IV	Analysis of continuous	BB	
	The state of	unknows. Analysis of continuous beams with two		
39	IV	Analysis of Continuous	BB	
The state of the s		unknows. Analysis of portal frame with two unknows.	BB	
30	IV	Analysis of portal frame with two unknows Analysis of portal frame with two unknows	BB	
31	IV	Analysis of portal frame with two unknows Analysis of portal frame with two unknows	BB	Unit-4 will be
33	IV	Analysis of portal frame with two unknows Analysis of portal frame with two unknows	DD	completed
34	IV	Analysis of portal man	BB	
35	V	Explanation of flexibility method	BB	
36	V	Analysis of continuous bearing with	and the same	
.,0		the cure use flexibility metriou	BB	All and the second second
38	V	Analysis of continuous beams with two		
30			BB	
39	V	Analysis of portal frame with two unknows	BB	
41	V	Analysis of portal frame with two difficults	1	
		a thillie mothod	BB	Unit-5 will be
42	V	f Analysis of portal frame with two unknows by		completed
	13 04	flexibility method	BB	
42	VI	Introduction to Plastic Analysis	BB	
44	VI	Assumption in plastic theory-plastic hinge-	100	
		plastic moment or collapse moment-collapse		
		load	BB	
45	VI	load factor- shape factor- collapse load for	DD	
	1426	Different types of beams	DD	
46	VI	Find the collapse load in beams	BB	
48	VI	Solving the collapse load in beams	BB	
49	VI	Solving the collapse load in beams		
50	VI			
52	VI		THE RESIDENCE	Unit-6 will b
32	1	00		completed

HOD

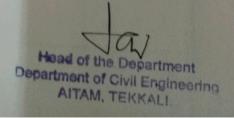
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Altam, TEMAL

A.Y: 24-25

Lesson Plan for Smart Energy and Transportation system (III-I, AR20)

Contact Hour	Unit No	Topic	Teaching Methodology	Remarks
(Cumulative)	I	Smart Energy: - Defining the concept of smart energy	PPT	
	T	Objectives of smart energy	PPT	
3	I	Elements of smart energy management system	PPT	
	I	Energy efficient building	PPT	
5	I	Net zero energy and energy plus buildings	PPT	
6	I	Building codes	PPT	
7	I	Energy efficiency	PPT	
8	I	Use of renewable energy (RE) challenges in making city energy smart	PPT	
9	I	Use of renewable energy (RE) challenges in making city energy smart	PPT	Unit 1 will be completed
10	II	Solar energy for smart cities	PPT	
11	II	Development of solar cities	PPT	
12	II	Solar street lights	PPT	
13	II	Traffic signal boards	PPT	
14	II	Solar energy conversion	PPT	
15	II	Solar thermal systems	PPT	
16	II	Solar photovoltaics (PV) generating systems	PPT	
17	II	Roof top solar systems	PPT	Unit 2 will be completed
18	III	Smart Grid-demand management through smart grids	PPT	
19	III	Electric vehicles (EVs)	PPT	
20	III	Need for electric vehicles	PPT	
21	III	EV-ecosystem components	PPT	
22	III	Vehicles and battery	PPT	
23	III	Charging infrastructure types of chargers	PPT	
24	III	Charging infrastructure types of chargers	PPT	Unit 3 will be completed

Contact Hour	our Unit No Topic		Teaching Methodology	Remarks
(Cumulative)	IV	Smart transport system - Need for	PPT	
26	IV	Objectives and components of thom	PPT	
27		transport system Strategies in smart transport system	PPT	
28	IV	Transit orientated development	PPT	
29	IV	Non-motorized transport	PPT	Unit 4 will be completed
30	V	ICT supported smart transport: Real- time traffic information system (RTIS)	PPT	
31	V	Real time traffic monitoring system (RTMS)	PPT	
32	V	Automated fare collection system	PPT	
33	V	Public vehicles - smart transport solutions	PPT	
34	V	Private vehicle - smart transport solutions	PPT	-
35		Commercial vehicles and smart transport solutions	PPT	Unit 5 will be completed
36	VI	Public, private & commercial vehicles and smart transport solutions	PPT	
37	VI	Case studies at national level on smart energy and transport system	PPT	
38	VI	Case studies at national level on mart energy and transport system	PPT	
39	VI	Case studies at national level on mart energy and transport system	PPT	
40	VI	Case studies at international level on mart energy and transport system	PPT	
41	VI	ase studies at international level on mart energy and transport system	PPT	
42	VIC	ase studies at international level on nart energy and transport system	PPT	Unit 6 wil



		Dr. D. Hima Chandan	Teaching	Remarks
Contact Hour (Cumulative)	Unit No.	Topic	Methodology	Kemax
1	I	Assumptions in slope deflection method - application to the analysis of statically indeterminate beams with and without settlement of supports	BB	
2	I	Solving the problems of continuous beam without sinking	BB	
4	I	Solving the problems of continuous beam without sinking	BB	
5	I	Solving the problems of continuous beam with sinking	BB	
6	I	Solving the end moments of the rigid frame without sway	BB	
8	I	Solving the end moments of the rigid frame with sway and draw the BMD & SFD, Solving the end moments of the rigid frame with sway and draw the BMD & SFD	BB	
9	II	Moment Distribution method explain Stiffness and carry over factors and also Distribution factors	BB	41
10	II	Solving the problems of continuous beam end moments without sinking	BB	
12	II	Solving the problems of continuous beam end moments without sinking and draw BMD.	BB	
13	II	Solving the problems of continuous beam end moments with sinking and draw BMD.	BB	
15	II	Solving the end moments of the rigid frame and draw the BMD & SFD, Solving the end moments of the rigid frame with sway and draw the BMD & SFD	ВВ	
		diam die Bivib & Si b		
16	III	Kani's method- Analysis of continuous beams – including without sinking	BB	
17	III	Analysis of continuous beams – including without sinking	BB	
19	III	Kani's method- Analysis of continuous beams – including witht sinking	BB	
20	III	Kani's method- Analysis of continuous beams – including without sinking	BB	The same



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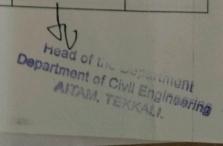
		heams – including	BB	
21	III	Analysis of continuous beams – including without sway	BB	and the second of the
23	III	without sway Analysis of continuous beams – including		Unit-3 will be
23	111	without sway Find end moments and draw the BMD &	BB	completed
24	III	Find end moments and draw	DD.	
		SFD of the portal frame with sway	BB	
25	IV	Introduction to Stiffness Method	BB	Commence of the State of the St
26	IV	Analysis of continuous beams with two		
		unknows.	BB	Contract the second
27	IV	Analysis of continuous beams with two		
		unknows.	BB	
39	IV	Analysis of continuous beams with two		
A STATE OF THE STA		unknows.	BB	
30	IV	Analysis of portal frame with two unknows.	BB	and account of the
31	IV	Analysis of portal frame with two unknows	BB	
33	IV	Analysis of portal frame with two unknows	BB	Unit-4 will be
34	IV	Analysis of portal frame with two unknows	ВВ	completed
35	V	Explanation of flexibility method	BB	
36	V	Analysis of continuous beams with two	BB	
50		unknows use flexibility method		
38	V	Analysis of continuous beams with two	BB	
	10000	unknows.		
39	V	Analysis of portal frame with two unknows	BB	
41	V	Analysis of portal frame with two unknows by	BB	
	100	flexibility method		
42	V	f Analysis of portal frame with two unknows by	BB	Unit-5 will be
	100	flexibility method		completed
42	VI	Introduction to Plastic Analysis	BB	
44	VI	Assumption in plastic theory-plastic hinge-	BB	
		plastic moment or collapse moment-collapse	DB	1000
		load	A CONTRACTOR OF THE PARTY OF TH	
45	VI	load factor- shape factor- collapse load for	BB	
		Different types of beams	DD	
46	VI	Find the collapse load in beams	DD	
48	VI	Solving the collapse load in beams	BB	
49	VI	Solving the collapse load in beams	BB	
50	VI	Solving the collapse load in beams		10 m
	VI	Solving the collapse load in beams		
52	VI	Solving the collapse load in beams		Unit-6 will b
			The state of the s	completed

Contact Hour	Unit No.	B.Harish Topic	Teaching Methodology	Remarks
(Cumulative)	I I	Sources of Water ,Comparison from quality and quantity	BB	
2	I	Intakes, infiltration galleries. Waterborne diseases	BB	
3	I	Protected water supply	BB & Interactive	
4	I	Population forecasting methods,	BB	
5	I	Design period ,Types of water demand	BB	
6	I	Factors affecting per capita demand	BB	
7	I	Fluctuations,	BB & LCD	
8	I	Fire demand	BB & LCD	
9	I	Storage capacity	BB & LCD	77 '- 1 '11 h-
10	I	Drinking water quality standards: IS 10500	BB & LCD	Unit-1 will be completed
11	II	Layout and general outline of water treatment units	BB	
12	II	Aeration, sedimentation, principles	BB& LCD	
13	II	Design factors	BB& LCD	
14	II	Coagulation, jar test	BB& Student Seminar	
15.	II	Flocculation	BB& LCD	1.04
16	II	Clarifier design coagulants, feeding arrangements	BB& Student Interaction	
17	II	Filtration, theory,	BB& LCD	
18	· II	Working of slow and rapid gravity filters, multimedia filters,	BB& LCD	
- 19	II	Design of filters, troubles in operation,	BB& LCD	
20	II	Disinfection, theory of chlorination, chlorine demand, other disinfection practices.	BB& LCD	Unit-2 will be completed
21	III	Requirements, methods and layouts.	BB& Student Seminar	100 300
22	Ш	Design of distribution systems, Hardy Cross and equivalent pipe methods,	BB	

Head We Department
Department of Civil Engineering
AITAM, TEKKALI.

Chail R
2023-24, III/I, CIVII-B.
ENGINEERING, 2023-2-4
PONMENTAL ENGINEERING, 2023-24, III/I, Civil-B.

LESSON	PLAN	for ENVIRONMENTAL ENGINEER B.HARISH	Teaching	Remarks
		Topic	Methodology	
Contact Hour	Unit		BB	
(Cumulative)	No.	Service reservoirs Method	BB	
23	III	Capacity by Mass Curve Method	BB& LCD	
24	III	Capacity by Wass Cur	BB	
25	III	Joints, sluice valves,		1st Mid
26	III	Air valves,	BB	Exams
27	III	Scour valves Check valves, water		LAdire
		meters	BB	Unit-3 will b
28	III	Check valves, water meters	BB	completed
29	III	Water meters		Completed
30	IV	Sewage and storm water estimation -	BB& Student	
30	IV	Sewage and storm water	Seminar	
31	IV	Characteristics of sewage,	BB	
31	IV	Decomposition of sewage,		
32	IV	Examination of sewage,	BB	
33	IV	B.O.D. Equation, and C.O.D.	BB	
34	IV	Design of sewers,	BB	
35		Shapes and materials	BB & LCD	
36	IV IV		BB & LCD	
		Sewer appurtenances, manholes	BB	
37	IV	Inverted siphon ,catch basins	BB	-
38	IV	Flushing tanks ,ejectors,		
39	IV	Pumps	BB	TT 1: 4 :1111
40	IV	Pump houses	BB& Student	Unit-4 will be completed
	7.7	W	Seminar	completed
41	V	Waste water treatment plant, Flow	BB	1
		diagram	The second secon	
42	V	Primary treatment, design of screens	BB	
43	V	Grit chambers, Skimming tanks	BB	1 1 1 1
44	V	Sedimentation tanks	BB	
45	V	Biological treatment, trickling filters	BB& Student	
			Seminar Seminar	
46	V	Activated sludge processes (ASP).	Name and Address of the Owner, where the Owner, which is the O	
47	V	Sludge digestion, factors effecting,	BB	
Marie Control	7 3	design of Digestion tank	BB	
48	V	Sludge disposal by drying		
49	V	Septic tanks working principles and,	BB	
47		working principles and,	BB	
Land Land				



Contact Hour (Cumulative)	Unit No.	for ENVIRONMENTAL ENGINEERI B.HARISH Topic	NG, 2023-24, III/I	, Civil-B.
50	V	Septic tanks design Soak pits	Teaching Methodology	Remarks
52	VI	Sour pits	BB BB	Unit-5 will be
53	VI	Definition and classification air pollutants	BB	completed
54	VI	Sources and effects, air pollution meteorology Control of particular	BB	
55	VI	Control of particulates, Gravity settlers, cyclone filters	BB	
56		ESPs, Control of gaseous pollutants, Adsorption, Absorption, Combustion, Condensation,	BB	
56	VI	Air quality standards and limits	DD	
	VI	Definition and impacts of noise pollution	BB BB	
58	VI	Permissible limits of noise,	BB	Unit-6 will b
59	VI	Measurement of noise and control of noise pollution.	BB	completed 2 nd Mid Exams

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AHAM, TEKKALI

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

Class: III-I(B) B. TECH (2024-25)

Subject: Environmental Engineering Lab(20CEL307)

Faculty Name: B HARISH

S.No	Name of the Experiment	Hours		
1	Introduction to Environmental Engineering lab	3		
2	To determine the hardness of the given water samples	3		
3	To determine the alkalinity of a given water sample	3		
4	To determine the acidity of a given water sample	3		
5	pH metric estimation of acid by base	3		
6	Conductometric estimation of acid by base			
7	Estimation of Dissolved oxygen in water sample	3		
8	Determination of iron by thiocyanatecolorometry			
9	Determination of optimum dose of coagulants by Jar Test Apparatus.			
10	To determine the turbidity of the given water sample			
11	pH metric estimation of acid by base			
12	Determination of Biochemical oxygen demand	3		
	Total	36		

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Department of Civil Engineering

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LESSON PL	AN for	DESIGN OF CONCRETE STRUCTUR Dr. V. SOWJANYA VANI	- 11	Rema	rks
Contact Hour	Unit No.	Topic	Teaching Methodology Chalk & Talk	Kem	
(Cumulative)	I	Concepts of limit state design-Basic	Chalk & Talk		
1	1	statical principles Characteristic loads – characteristic	Chalk & Talk		
2	I	Characteristic loads - Characteristic	Tolk		
3	I	Partial load and safety factors — representative stress — strain curves for cold worked deformed bars and mild	Chalk & Talk Role Play		
	-	steel bars Representative stress – strain curves for	Chalk & Talk		
4	I	cold worked deformed bars and mild			
		steel bars	Chalk & Talk	1	
5	I	Based on IS Code :456-2000. Assumptions in limit state design			
		Stress – block parameters	Chalk & Talk		
6	I	limit state analysis and design of singly	Chalk & Talk		
7	I	reinforced	CI II 0 Talls	+	
8	I	limit state analysis and design of singly	Chalk & Talk	1	
8		roinforced	Chalk & Talk	13	
9	I	limit state analysis and design of singly	Chair & Turk		
		rainforced	Chalk & Talk		it-1 will
10	I	Comparison of Limit stage method with working stress and ultimate load		be	completed
	1000	method	Chalk & Talk		
11	II	limiting moment of Resistance	Chalk & Talk		
12	II	Design of doubly reinforced	Chalk & Talk		
13	II	Design of doubly reinforced Design of doubly reinforced and flanged	Chalk & Talk		
14	II	T beam sections			
		Design of doubly reinforced and flanged	Chalk & Talk	1	
15	II	T beam sections			
	II	Design of doubly reinforced and flanged	Chalk & Talk		
16	11	T beam sections			
17	II	Design of doubly reinforced and flanged	Chalk & Talk		Unit-2 will be completed
17	11	T heam sections			oe completed
18	III	I also and design of coction			
19	III	-	Chalk & Tal	k	
20	III	Problems on shear	Chalk & Tal	k	
21	III	Problems on shear	Chalk & Tal	lk	

F CONCRETE STRUCTURES, 2024-25, III/I, Civil-B.

		DESIGN OF CONCRETE STA	Teaching	Remarks
LESSON PL	AN for	DESIGN OF CONCRETE STRUCTUR Dr. V. SOWJANYA VANI Topic	Methodology	
Contact	Unit No.		Chalk & Talk	
(Cumulative)	TII	Torsion example	Chalk & Talk	
22	III	ion example		Unit-3 will
23	III	Torsion example concept of bond, anchorage and concept of beneth, I.S. code provisions	Chalk & Talk	be completed
24	III	concept of bond, anchorage and development length, I.S. code provisions concept of bond, anchorage and development length, I.S. code provisions development length, I.S. code provisions	Char	&1st Mid Exams
25	III	development length, I.S. code pro-		Exams
		della	Chalk & Talk	
			Chalk & Talk	
26	IV	Classification of slabs	Chalk & Talk	
26	IV	Dosign of one - way slabs	Chalk & Talk	
27	IV	Design of two - way slabs	Chalk & Talk	
28		+	Chalk & Talk	
29	IV	Design of continuous slabs using	10 13 ft 3 1 ta A market market	
30	IV	Coefficients (conventional)	Chalk & Talk	
31	IV	Coefficients (conventional) Design of continuous slabs using IS	Chalk & Talk	Unit-4 will be completed
32	IV	Coefficients (conventional) Effective length of a column, I S Code	Chalk & Talk	
33	V	visions	Chalk & Talk	111111111111111111111111111111111111111
34	V	l-ade	Chalk & Talk	
35	V	lands	Chalk & Talk	
36	V	lands		
37	V	handing	Chalk & Talk	
38	V	biavial bending		
39	1	/ Design of short columns under biaxial bending	Chalk & Talk	
	-	- Lucius	Chalk & Talk	
40		CI Lunana	Chalk & Talk	
41		CI Lumana	Chalk & Tall	Unit-5 will
42		Design of long columns	Chalk & Tal	be complete
43	1	/I Types of footings.	Chalk & Tal	
44	1	VI Distribution of base pressure		
45		VI General Design considerations for footings.	Chalk & Tal	

Remaris.

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Contact Hour	Unit	Design of Isolated rectangular footing r DESIGN OF CONCRETE STRUCT Dr. V. SOWJANYA VANI	Chalk & Talk URES, 2024-25, III	/I, Civil-B.
(Cumulative) 47	No.	Topic Design of last to the state of the sta	Teaching Methodology	Remarks
48 49 50		Design of Isolated rectangular footing Design of Isolated rectangular footing Design of Isolated rectangular footing	Chalk & Talk Chalk & Talk	
51 52		Design of Isolated square footing Design of Isolated square footing	Chalk & Talk Chalk & Talk Chalk & Talk	
		Design of Isolated square footing Grand Test	Chalk & Talk	Unit-5 will be complete 2 nd Mid Exams

U's Vani

Head of the Department
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ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AN AUTONOMOUS INSTITUTION)

Class: IV-I

B. TECH (2024-25)

Subject: Essential Components of Smart Cities (20SCT 404)

Faculty Name:

Contact Hour (Cumulative)	Unit No.	Topics	Teaching Methodology	Remarks
1	1	Small Buildings: Introduction	PPT	
2	1	Attributes Of Smart Buildings	BB	
3	1	Essential Components of Intelligent and Smart Buildings.	ВВ	
4	1	Objective of smart buildings -energy centric view -	ВВ	
5	1	Lighting -Heating- ventilation and air conditioning (HVAC)	PPT	
6	1	Systems for communication - monitoring and surveillance	ВВ	
7	1	Fires safety and Emergency warning.	BB	
8	1	Barriers and challenges in implementing smart cities.	BB	Unit-I will be
9	2	Smart Water and Waste Management Introduction	PPT	Completed
10	2	Possible approaches -concept of water security	BB	
11	2	Multi-level perspective of urban water system.	BB	
12	2	Functions and objectives of smart water management system and its benefits	BB	
13	2	Objective and scope of smart waste management systems.	PPT	
14	2	IOT based system for waste collecting and management -	BB	
15	2	ICT based system for waste collecting and management -	BB	
16	2	Auto meted waste collection system (AWCS)	BB	Unit-II will b
17 3	3	Start economy and Governess Introduction	PPT	completed
18 3		Objectives of smart economy		
19 3		Smart economy transformation	BB	
20 3		Entrepreneural	BB	AL RIB
21 3		Entrepreneurship Critical public infrastructure and	BB	
22 3		promoting innovation	PPT	
23 3		Facility for training and skill enhancement	BB BB	Unit-III will l

			1300	
		non-ICT	ВВ	
24	4	Smart governance -ICT Dependence of Smart Governance. Dependence implementation	ВВ	
25	4	smart governance	PPT	
26		instion & Networking		
	4	Commissioning Internet based	BB	
27	4	interaction	ВВ	
28	4	Improving public service delivery	BB	
29	4	Stakeholder participation and collaboration.		Unit-IV will be
30	4	Implementing GIS/GPS - Mapping	PPT	completed
31	5	Smart Environment: Environment challenges -	BB	
32	5	Climate change and pollution control	ВВ	
33	5	Impact on biodiversity and ecosystem.	BB	
34	5	Measures to realize smart environment	BB	
35	5	Mixed land use & Sustainable Food Production and consumption Patterns	PPT	
36	5	Avoiding heat island formation - monitoring and Management of urban noise	ВВ	
37	5	Monitoring pollution levels for effective interventions.	ВВ	77 11 77 211
38	5	ICT framework for environmental management - benefits - challenges.	BB	Unit-V will be completed
39	6	ICT for Smart Cities: Introduction	PPT	
40	6	Taxonomy of layers of ICT architecture	BB	
41	6	Access Layer - Application Layer - Data Layer	ВВ	
42	6	Communication layer & instrumentation layer	BB	
43	6	security layer- IOT / M2M Layer	PPT	Comment of the last of the las
44	6	ICT major technology areas network technologies	ВВ	
45	6	storage technology - computing technologies	BB	
46	6	Sensor technologies - information security technologies	BB	
47	6	New devices and technologies in ICT	BB	Unit-VI will I

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Introduction to Remote Sensing	BB & Interactive	
2	I	Components of Remote Sensing	BB & LCD	
3	I	Electro Magnetic Radiation-Basic Wave Theory	BB & Student Seminar	
4	I	Electro Magnetic Radiation-Quantum Wave Theory	BB & Student Seminar	
5	I	Electro Magnetic Spectrum	BB & Student Seminar	
6	I	EMR interaction with Atmosphere	BB & LCD	
7	I	Scattering and Absorption	BB & LCD	
8	I	EMR interaction with Earth Surface Materials	BB & LCD	
9	I	EMR interaction with Vegetation	BB & LCD	
10	I	EMR interaction with Soil & Water	BB & LCD	
11	I	Atmospheric Windows & Its significance	BB & LCD	Unit-1 will be completed
12	II	Introduction to Platforms	BB & LCD	
13	II	Ground Borne & Air Borne	BB & LCD	
14	II	Space Borne Platforms	BB & LCD	
15	II	Sensors-types-Classification	BB	
16	II	Active Sensors	BB & LCD	
17	II	Passive Sensors	BB & LCD	
18	II	Introduction to Resolutions-Spectral resolution	BB & LCD	
19	II	Radiometric and Temporal Resolutions	BB & LCD	
20	II	Image data Characteristics	BB & LCD	
21	II	Image Data Formats-BIL, BIP and BSQ	BB & LCD	Unit-2 will be completed
22	III	Introduction to Image Analysis	BB & LCD	
23	III	Elements of Visual Interpretation	BB & LCD	
24	III	Digital Image Processing	BB	
25	III	Image Enhancement Techniques- Linear	BB & LCD	
26	III	Non Linear Enhancement Techniques	BB & LCD	
27	III	Introduction to image Classification	BB	
28	III	Supervised Classification	BB & LCD	
29	III	Un Supervised Classification	BB & LCD	Unit-3 will b

			Teaching Methodology	Remarks Lab P
		Topic	BB	1
Contact Hour	Unit		BB	
(Cumulative)	No.	Introduction to GIS	BB	
30	IV	Y - Components	BB & LCD	
31	IV	Map Projections Rased on Scale	BB	
32	IV IV	Map Projections Projections Based on Scale Projections Based on Purpose	BB	
33	IV	Projections Dases	BB	
34	IV	Data-Spatial Data	BB	
35	IV	Non Spatial Data	BB & LCD	
36	IV	Cnatial Data Inputs	BB & LCD	
37	IV	Paster Data Models	BB	Unit-4 will be
39	IV	Vector Data Models	BD	completed
40	IV	Raster Vs Vector Data	BB	
40		Introduction to Overlay analysis	BB & LCD	
41	V	Introduction to Overlay	BB & LCD	
42	V	Overlay function	BB&LCD	
43	V	Vector Overlay Operations Vector Overlay Operations	BB & LCD	
44	V	Raster Overlay Operators	BB & LCD	
45	V	Arithmetic Operators	BB & LCD	
46	V	Comparison & Logical Operators	BB & LCD	Unit-5 will be
47	V	Conditional Expressions	BB & LCD	completed
48	V	Overlay using Decision Table	A STATE OF THE STA	Completed
1		Introduction to RS & GIS applications	BB	
49	VI	Land use/Land cover applications	BB & LCD	
50	VI	Land use/Land cover appreciations	BB & LCD	
51	VI	Agricultural applications	BB & LCD	
52	VI	Forest applications	BB & LCD	
53	VI	Geological applications	BB & LCD	
54	VI	Geomorphological applications	BB & LCD	
55	VI	Urban applications		Unit-6 will b
56	VI	Flood Zone Delineation	BB & LCD	completed

Lan

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

Lab Name: Geographic Information System

Branch: Civil Engineering

Year:2024-2025

Sec-A

Semester: 4-1st

Course Code: 20CEL411

Faculty Name: Dr. B. Visweswara Reddy

S.No	Lab Lesson Schedule	No. of Hours
1	Preprocess of image / toposheet (which includes Georeferencing, Projection and Subset)	3
2	Digitization of Features from the Toposheet	3
3	Topology of digitized of features	3
4	Study of features estimation	3
5	Creation of Thematic maps	3
6	Layout Preparation	3
7	Digital Elevation Model	3
8	Calculation of volumes for Hills and Tanks	3
9	Database creation for Road Network analysis	3
10	Delineation of watershed boundary	3
11	Mosaic of a dataset	3
2	Clip/Subset of a dataset	3
2	Total Contact Hour	36

Head of the Department
Department of Civil Engineering
AITAM, TEKKALI

STRUCTURAL DESIGN LAB USING SOFTWARE TOOLS LESSON PLAN

AY: 2024-25

Branch: Civil Engineering

Year and Semester: IV B.Tech I Semester

Section: A

Course Code: 20CEL410

Faculty Name: Dr.G.Prasanna Kumar

S.No.	Lab Experiment Schedule	No. of Hours	
1.	2-D Frame Analysis	3	
2.	2-D Frame Design	3	
3.	Steel Tabular Truss Analysis	3	
4.	Steel Tabular Truss Design	3	
5.	3-D Frame Analysis	3	
6.	3-D Frame Design	3	
7.	Retaining Wall Analysis	3	
8.	Retaining Wall Design	3	
9.	Simple Tower Analysis	3	
10	Simple tower Design	3	
11.	Simple slab culvert Analysis	3	
12.	Simple slab culvert Design	3	
	Total Contact Hours	36	

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STRUCTURAL DESIGN LAB USING SOFTWARE TOOLS LESSON PLAN

AY: 2024-25 Branch: Civil Engineering

Year and Semester: IV B.Tech I Semester Section: B

Course Code: 20CEL410

Faculty Name: G.Gowri Sankara Rao

S.No.	Lab Experiment Schedule	No. of Hours
1.	2-D Frame Analysis	3
2.	2-D Frame Design	3
3.	Steel Tabular Truss Analysis	3
4.	Steel Tabular Truss Design	3
5.	3-D Frame Analysis	3
6.	3-D Frame Design	3
7.	Retaining Wall Analysis	3
8.	Retaining Wall Design	3
9.	Simple Tower Analysis	3
10	Simple tower Design	3
11.	Simple slab culvert Analysis	3
12.	Simple slab culvert Design	3
	Total Contact Hours	36

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Class: IV-I [Section: B]

B. TECH (2024-25)

Subject: Remote Sensing and Geographic Information System (20CEE411)

Faculty Name: Dr. Sanjay Kumar Ray

Hour (Cumulative	Uni No.		Teaching Methodology	Remarks
Cumulauve	1	Basics of Remote Sensing - Introduction	BB & LCD	
2	I	Components of remote sensing	BB & LCD	
3	I	Electromagnetic radiation	BB & LCD	
4	I	Electromagnetic spectrum	BB & LCD	
5	I	EMR interaction with atmosphere	BB & LCD	
6	I	EMR interaction with atmosphere	BB & LCD BB & LCD	
7	I	EMR interaction with Earth Surface Materials	BB & LCD	
8	I	EMR interaction with Earth Surface Materials	BB & LCD	
9	I	Atmospheric Windows and its Significance.	BB & LCD	Unit-I will be completed
10	II	Types of platforms - groundborne, airborne	BB & LCD	
11	II	Space born platforms	BB & LCD	
12	II	Types and classification of sensors	BB & LCD	1 1 1 1 1 1 1 1 1
13	II	Types and classification of sensors	BB & LCD	
14	II	Sensor resolution - Spatial	BB & LCD	
15	II	Spectral Resolution	BB & LCD	
16	II	Radiometric Resolution	BB & LCD	
17	II	Temporal Resolution	BB & LCD	
18	II	Image data characteristics	BB & LCD	
19	II	Digital image data formats	BB & LCD	
20	II	Band interleaved by pixel	BB & LCD	
21	II	Band interleaved by line	BB & LCD	
22	II	Band sequential.	BB & LCD	Unit-II will
23	III	Image Analysis: Introduction	BB & LCD	Marie 10 Marie Company of the Compan
24	III	Elements of visual interpretations	BB & LCI	
25	III	Digital image processing	BB & LCI	
26	III	Image enhancement	BB & LCI	
27		Image enhancement	BB & LCI	
28		Image classification	THE RESERVE THE PERSON NAMED IN	
29		Supervised classification	BB & LCI	
2)	111	supervised classification	BB & LC	D
30		Unsupervised classification	BB & LC	D Unit-III wi
		GIS - Introduction	BB & LC	D
	IV F	Key components	BB & LC	
33	IV N	Map projections	BB & LC	
34	IV N	Map projections	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	COLUMN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
35		Data - Spatial and non-Spatial	BB & LC	CONTRACTOR OF THE CHARGE STREET, SAN THE CONTRACTOR OF
		patial data input	BB & LC	D
	- 5	patiai data input	BB & LC	D

			BB & LCD	
		Raster data models	BB & LCD	
37	IV	Raster data models	- 60	Unit-IV will be completed
38	IV	Vector data models	BB & LCD	be completed
20	77.7	Raster versus vector.	BB & LCD	
39	IV	Raster versus vector. Spatial Data Analysis: Introduction		
40	V	Spatial Data	BB & LCD	
		Overlay function - vector overlay operations	BB & LCD	
41	V	Arithmetic operators	BB & LCD	
42	V	Comparison and logical operators	BB & LCD	
43	V	Comparison and regions	Bbazz	Unit-V will be
44	V	Conditional expressions	BB & LCD	completed
45	V	Overlay using a decision table.	D	
1.0		RS & GIS Applications: Land use and Land	BB & LCD	
46	VI	cover	BB & LCD	
47	VI	Agriculture	BB & LCD	
48	VI	Forestry	BB & LCD	
49	VI	Geology	BB & LCD	
50	VI	Geomorphology	BB & LCI	
51	VI	Urban applications		Unit-VI wil
52	VI	Flood zone delineation and mapping.	BB & LCI	be complete

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Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	General items of work in Building	Chalk & Talk	
2	I	General items of work in Building	Chalk & Talk	
3	I	Standard Units	Chalk & Talk	
4	I	Principles of working out quantities for detailed and abstract estimates	Chalk & Talk	
5	I	Approximate method of Estimating	Chalk & Talk	100 T 100 B
6	I	Detailed Estimates of Buildings	Chalk & Talk	
7	I	Detailed Estimates of Buildings	Chalk & Talk	100
8	I	Types of contracts	Chalk & Talk	
9	I	Types of contracts	Chalk & Talk	
10	I	Tenders	Chalk & Talk	Unit-1 will be completed
11	II	Earthwork for roads and canals: Lead and Lift	Chalk & Talk	700
12	II	Types of methods	Chalk & Talk	
13	II	Mid Sectional area method	Chalk & Talk	
14	II	Mean sectional area method	Chalk & Talk	
15	II	Problems	Chalk & Talk	
16	II	Problems	Chalk & Talk	
17	II	Problems	Chalk & Talk	W YELL
18	II	Problems	Chalk & Talk	10000
19	II	Problems	Chalk & Talk	100
20	II	Problems	Chalk & Talk	Unit-2 will be completed
21	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk	- Sampledo
22	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk	
23	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk	
24	III	Working out data for Brick Masonry	Chalk & Talk	
25	III	Working out data for R.R. Masonry	Chalk & Talk	
26		Working out data for Plastering	Chalk & Talk	1 st Mid Exams

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		ESTIMATION COSTING ANDQUANT IV/I, Civil-A. Sri. S.Ramlal	STTV SURVEYING	G, 2024-25,	
		COSTING ANDQUANT	11100	Demarks	
LESSON PLA	N for	ESTIMATION COSTA, Sri. S.Ramlal	Teaching	Remarks	
		Topic			
Contact Hour	Unit		Chalk & Talk		
(Cumulative)	No.	Working out data for R.C.C.	Chalk & Talk		
28	III	Working out data for R.C.C.		Unit-3 will be	
29	III	Working out data	Chalk & Talk	completed	
30	III	Working out data for Distempering	Chalk & Talk		
21	IV	Reinforcement bar bending schedule:	Chaik & Turi		
31	IV	Footing	Chalk & Talk		
32	IV	Footing	Chalk & Talk	- C / A / A / A / A	
33	IV	Pedestal	Chalk & Talk	The second secon	
34	IV	Column	Chalk & Talk		
35	IV	Plinth beam	Chalk & Talk		
36	IV	Slab beam	Chalk & Talk		
37	IV	Slab beam	Chalk & Talk		
38	IV	Slab	Chalk & Talk		
39	IV	Slab	Chalk & Talk		
40	IV	Bar requirement schedules	Chalk & Talk	Unit-4 will be completed	
41	V	Introduction to BIM: Basic modelling and project navigation	Chalk & Talk		
42	V	BIM tools	Chalk & Talk		
43	V	New workflows of construction planning & management	Chalk & Talk		
44	V	New workflows of construction planning & management	Chalk & Talk		
45	V	Model-based quantity-takeoff	Chalk & Talk		
46	V	Model-based quantity-takeoff	Chalk & Talk		
47	V	cost estimation	Chalk & Talk		
48	V	Scheduling and planning with 4D BIM	Chalk & Talk		
49	V	Construction safety is planning using BIM	Chalk & Talk		
50	V	Construction safety is planning using BIM	Chalk & Talk	Unit-5 will b	
51		Grand Test	remark lands	2 nd Mid Exams	

Contact Hour	Unit	in the state of th			
(Cumulative)	No.	Topic	Teaching Methodology	Remarks	
1	I	General items of work in Building	Chalk & Talk		
2	I	General items of work in Building	Chalk & Talk		
3	I	Standard Units	Chalk & Talk		
4	I	Principles of working out quantities for detailed and abstract estimates	Chalk & Talk		
5	I	Approximate method of Estimating	Chalk & Talk		
6	I	Detailed Estimates of Buildings	Chalk & Talk		
7	I	Detailed Estimates of Buildings	Chalk & Talk		
8	I	Types of contracts	Chalk & Talk		
9	I	Types of contracts	Chalk & Talk		
10	I	Tenders	Chalk & Talk	Unit-1 will be completed	
11	II	Earthwork for roads and canals: Lead and Lift	Chalk & Talk		
12	II	Types of methods	Chalk & Talk		
13	II	Mid Sectional area method	Chalk & Talk		
14	II	Mean sectional area method	Chalk & Talk		
15	II	Problems	Chalk & Talk		
16	II	Problems	Chalk & Talk		
17	II	Problems	Chalk & Talk		
18	II	Problems	Chalk & Talk		
19	II	Problems	Chalk & Talk		
20	II	Problems	Chalk & Talk	Unit-2 will be completed	
21	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk		
22	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk		
23	III	Rate Analysis: Standard specifications for different items of building construction	Chalk & Talk		
24	III	Working out data for Brick Masonry	Chalk & Tall	C	
25	III	Working out data for R.R. Masonry	Chalk & Tall	k	
26	III	Working out data for Plastering	Chalk & Tall	k 1 st Mid Exams	
27	III	Working out data for Plain Concrete	Chalk & Tal	k	

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Hou

BB & LC

		ESTIMATION COSTING ANDQUANT IV/I, Civil-A. Sri. S.Ramlal		Domarks	
LESSON PLA	N for I	ESTIMATION Covil-A. Sri. S.Ramlal	Teaching	Remarks	
		Topic			
Contact Hour	Unit		Chalk & Talk		
(Cumulative)	No.	Working out data for R.C.C.	Chalk & Talk		
28	III	Working out data for R.C.C.	Chalk & Talk	Unit-3 will be	
29	III	Working out data	Chalk & Talk	completed	
30	III	Working out data for Distempering Working schedule:	Chalk & Talk		
31	IV	Reinforcement bar bending schedule:	o Talle		
		Footing	Chalk & Talk		
32	IV	Footing	Chalk & Talk		
33	IV	Pedestal	Chalk & Talk		
34	IV	Column	Chalk & Talk		
35	IV	Plinth beam	Chalk & Talk		
36	IV	Slab beam	Chalk & Talk		
37	IV	Slab beam	Chalk & Talk		
38	IV	Slab	Chalk & Talk		
39	IV	Slab	Chalk & Talk	Unit-4 will be	
40	IV	Bar requirement schedules		completed	
70			Chalk & Talk		
41	V	Introduction to BIM: Basic modelling and			
		project navigation	Chalk & Talk		
42	V	BIM tools	Chalk & Talk		
43	V	New workflows of construction planning	Chan		
		& management	Chalk & Talk		
44	V	New workflows of construction planning	Chark & Turi		
		& management	Chalk & Talk		
45	V	Model-based quantity-takeoff	Chalk & Talk		
46	V	Model-based quantity-takeoff		THE RESERVE TO SHARE THE PARTY OF THE PARTY	
47	V	cost estimation	Chalk & Talk	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	
	V	Scheduling and planning with 4D BIM	Chalk & Talk		
48	V	Construction safety is planning using	Chalk & Talk		
49	V	BIM			
	XI	Construction safety is planning using	Chalk & Tall	k Unit-5 will be	
50	V	Selection of the select		completed	
		BIM Const Test		2 nd Mid	
51		Grand Test	THE RESTRICTION OF THE PARTY OF	Exams	

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Class: IV-I [Section: B]

B. TECH (2024-25)

Subject: Geographic Information System Lab (20CEL411)

Faculty Name: Dr. Sanjay Kumar Ray

S.No	Name of the Experiment	Hours
1	Preprocess of image / toposheet (which includes Georeferencing, Projection and Subset)	5
2	Digitization of Features from the Toposheet	5
3	Topology of digitized of features	5
4	Study of features estimation	5
5	Creation of Thematic maps	5
6	Layout Preparation	5
7	Digital Elevation Model	5
8	Calculation of volumes for Hills and Tanks	5
9	Database creation for Road Network analysis	5
0	Delineation of watershed boundary	5
1]	Mosaic of dataset	5
	Total	6

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Teaching(*) Remai Methodology Topic Unit Contact Hour No. (Cumulative) 1 retroduction V. DIVYASR) 2024-25 PSCLWI Theory & belowious back B.B Section-B Concepts Alvanlages & disadvanlages PPT PPT Materials required, high 2 Strength concrète, high 3 Strength Steel PPT System & nethods Analysis of Sections 5 BBF & Streigth Concept 6 load baleveing Concept 7 B.B Effect of loading on the B.B tensile Stresses intendan 9 effect of toudon profile on BB 10 deflections 11 losses of prestress 11 Typesqlosses impreterin B.B 12 13 terrion members loss due to flatic TI B-B 14 deformation

		LESSON PLAN	Teaching(*)	Contact Ho
Contact Hour (Cumulative)	Unit No.	Topic	Methodology	as Contact Hi
15	1	loss due to strintage	BB	1
16		and veep of concrete		
17	I	loss due to relaxation		
18_		Steel	0.0	-
19	1	loss due to Anchorage	BB	
20		Slip		- 1
21	II	loss due to friction		
22	I	total allaned losses	BB	
		for design		
23		Design for flenere		
24		fleneral Strugth of	B.B	
25		time of floural failure	8	
		Fracture of steel Steering	U1	
	1	failure of under 8	B-8	
		us seifforced tection		
28 9		Strain compalibility	C. I	
29		rethord.		
30 7		ladation of fleneral	B-B	
31		right at her TS 1343-2012	0	

Contact Hou (Cumulative	Oille	Topic	Teaching(*) Methodology	Re
32	TW	Shear & Torgion	B:B	
		Shear & torrional seristan		
		of prestand Convile		
		membeys.		
33	3 TV	principle Struser	B.B	
3	4 50	Fine of shear trades		-
3	S W	met shear craiks		-
3.	6	flendas cracles		
33	+ W	Design of Sheat rinbone	BB	-
		ment as per Isi343-		+
38		2012 Sheat & principal		1
		stresses due to torpion		
	V	Deflection		
39		Deblection & design of	B'B	
40		andorage zone factore		
		influencing deflection		
41	V	short term deflections		
als.	-	of untracked mounter		
42	Q	prediction of longterne		
	7			

T

		onaction of Michael CP, onaction
1 44	+	Zone strawer in post travel
-	1	beau
95	12	cheek for Transfer band BB
46		leugth in preterriordress
५३	-51	Interminate strutum
48		Composite beaus and
		Continuous bearing
49	TI	Analysis and design of B.B
		Composite beaux
50	VI	Mothed of achieving
51		Continuity in Continuar
		beaux
rol		Analysis for recordary B:B
52	j)	
53		momente
-11	51	Concordant cable
34	-	linear transformation B.B
55	VI	linear
	1	calculation of strener principles of design
56	7	is less of derign
	6.11	1 Danapus 4
	45 46 47 48 49 50 51	49 51 49 51 49 51 50 51 51 52 51 53 54 51

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			LESSON PLAN		
Contact I		Unit No.	Topic	Teaching(*) Methodology	Remarks
20	2 C1) I		Introduction to H.E.	Black	
5 (2)	I	Nature & score do M. E)\	
1 (3.)	I	Demand analysis,)1	
2 (4)		I	Laurot demand 8 its	11	
3 (5))	I	Elosticits of demand, types, types of price elosticity.	11	
2 (6)	I	Demand ASECSTING, Factors governing demonstration	11	
5(7)		I	Methods of demand to cast	11	
1(8)		I	Explanation.	11	
2 (9)		T	Englanation.	11	
3 (10)		正	Introduction to production to unction, ISO costs, Isomonts.	1	
2 (11)	-	正	MRTS, Least Combination of in Puts, Law of hetury		
5 (12)	1:	II	Economics de scale,	11	
1 (13)	1	II	Cost analysis, cost compts	11	
2 (14)	1	I	Fired VS Voriable USTS. Explict US Emplict USTS	1)	
3 (4)	11	7	out or Pocket US Imputed costs	11	
2 (11)	II		Entroduction to BEA, one significance & Limitations	1)	
5 (17)	I	7 1	stophical representation	11	
(18)	#	-	Simple publicus	1)	
D_ C191	T		simple perhaps	1)	

	(21)	1#	Market structures.	s, Black: beard	
	- 11	1111	Types of competition, text	11 gen	1
	(22)	1111	Nonopoly & Nonopolistic	11	Conto
	(24)	111	phice out put determing		T/K
31	25)	III	Phile out put datermination	w 11	
2 (2	4)	並	pricing concept.	11	
5 (2	17)	皿	Dibboent phicing strategi	ag 11	
1 (2	-8)	世	Explanation.	11	
2 (2)	9)	本	Introduction to management, Concept, notice 1 Importance Functions to management.	11	
3 (30) =	IV	taylor's scientific nanosemus Faral's phinciples of managing		
2 (31)) -	TT	Mayo's hauthorne experiments	1\	
5 (32) 7	1	Madouls theory of human	1)	
1 (33.)]	工	Douglas Mc stegors y	1)	
2 (34)	T	I	tershors's two-Factors theors of motivation.	1)	
3 (35)	I		instem approach to		-0-
2 (36)	TV		ender Ship Styles.	1)	
2 (33)	14	S	ocial responsibilities of))	
(38)	1	T	ntroduction to marketing.	1)	
- (39)	V		unction of marketing.	1)	
3 (40)	V		experting him.	1)	
			oard / LCD / OHP / Other Method	1)	
			- met Method		•

		LESSON PLAN		
contact Hour cumulative)	Unit No.			
2 (41)	7	Strategies	Teaching(*) Methodology	Remark
5 (42)	1	Strategies bosed on Product like were Explanation.	Black board	
1 (43)	1	Channels of distribution	11	
2 (44)	7	Digital marketing.	11	
3 (45)	Al	Entroduction to HRM; correct to HRM.)(
2 (46)	VI	HRDS personnel management, industrial relations.	. 11	
5 (47)	AL	HRM VS PMIR, Basicutunctions of HR manager	. 11	
1 (48)	AL	Manpower Planning, Rechwitment, selection	11	
2 (49)	AL	training and development	11	
3 (50)	AL	unge and salary	11	
5 (20)	T	Promotion, Transfer, Seperation.)	
5 (27)	VT	rento mance appraisal, methods semplanation.	11	
1 (23)	VI	orhiculance handling and welture actorinistration	. 11	
2 (54) -	AL	Job evaluation & .	()	July
			- 63	

		Contact Hou (Cumulative		Topic	Methodology	Remai
	DOLY	25		7 myadudiin		
0	102 V	21	1	Theory & delauious basic	BB	
		and the second s		Concepts		
			1	Muaulages & disadvantages	PPT	
		2	15	Materials required, high	PPT	
		3		Strength concrète, high		
0	-			Strength Steel		
		4	1	Systems & methods	PPT	
		5	T	Analysis of Sections		
		6	17	Stress & Streigth Concept	BBA	_
		7		load balencing Concept		
		8	1	effort of lodding on the	B.B	
		9		tenrile Stresses intendos	B·B	
		10	I	effect of tendon profile on	B.B	
	_	11		Hoffeilions	Althor	
			11	losses of prestress		
		12	W	yperglosses impreteining	B·B	
		13		post terrion members		
1		14		088 due to Elastic	В-В	
1				charmation		

Unit

		LESSON PLAN	Teaching(*) Methodology	Reman
Contact Hour (Cumulative)	Unit No.	Topic	0.0	
15	11	loss due to shrintage	8.8	
16		and very of concrete		
14	Ī	loss duc le relaxation		
18		Steel	0.0	
19	7	los due to Anchorage	BB	
20		Slip		
21	I	loss due to friction		
22	I	total allawed losses	BB	
		for derign		
	III	Design for flemuse		
23		Menural Grugth of	BB	
24	1	reterrioned Concrete mende		
25	11 /+	ime of Henral failure		
26 3	w c	Granture of Steel & tension		
27 1	1	Pailure of under &	B-8	
		as seigned section		
28 1		train compalibility		
29		ethod.		
30 Ju	Cal	culation of fleneral	8.8	
3]		ugth as her TS 1843-2012		

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LESSON PLAN	N	۱	Δ	ı	P	1	N	O	S	S	E	L
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Ma	ct Hour	Unit	ZZSSON PLAN		
	ulative)	No.	Topic	Teaching(*) Methodology	Re
1	32	- W	Shear & Torgion	B-B	1
1		-	Shear & torrional revidau		
			of produced courte		
			monibess.		
	33	1 TV	principle Stacker	B.B	
	34		Fine of shear tracks		
	35	W	met shear cracks		
	36		Alendas cracles		
	37	W	Design of Shear runbone	BB	
			ment as per IS1343-		
	38	6	2012 Shows & principal		
			Henry due to torsion		
		V 1	Deflection	manuful Arm drawall of the second of the sec	-
3	1	0	reblection & design of	BB	
4	0		rulorage zone factors		
	-	1	oflicening deflections		
4)	16		J	n O	+
	15		ort term deflections	BB	+
			untracked mentions		+
42	15	DR.	diction of lengterne		

Trans to perturb to perturb to the formula property one of
or a check for handerhand BP,
46 length in pretamondron
117 SI Interminate Audulum
48 Composite beaus and
Continuour beaux
49 A natyrice and design of 1818
composite beauce
achienna
60 In Mother of Mother Continuous
52 Ja Analysis for secondary B.B.
moneule
(oncordant cable transfermation) B.B. Most of the Department of Civil Engineering.
Sy Ti Concert transfermation)
Somewhat table Franchismation Somewhat Concerdant table Franchismation ATAM, Texas. Solver Calculation Calculation Calculation A Jointhis
y called 1 don't
56