LESSION PLANS FOR

A.Y: 2023-24

SEM-I

LESSON PLAN for INTODUCTION TO PROGRAMMING 2023-24 III I-I Civil-JA

Contact Hour (Cumulative)		Mr. M Sai Babu Topic	Teaching Methodology	Remai
1	I	Introduction to components of Computer 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 associativity	Chalk & Talk	
8	I	Structure of C program	Chalk & Talk	
9	I	simple programs using Basic I/O statements	Chalk & Talk	
10	I	SAMPLE PROGRAMS	Chalk & Talk	
11	I	SAMPLE PROGRAMS	Chalk & Talk	
12	I	SAMPLE PROGRAMS	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	Chalk & Talk	
16	II	while loop,	Chalk & Talk	
17	II	do-while loop,	Chalk & Talk	
18	II	for loop, nested loops	Chalk & Talk	1 2 3
19	II	Branching statements- Break, continue	Chalk & Talk	
20	II	Arrays: Definition Types: Single Dimensional arrays, Multi Dimensional arrays	Chalk & Talk	
21	П	declaration, initialization, accessing elements	Chalk & Talk	
22	II	Matrix operations	Chalk & Talk	
23	II	String Handling funtions	Chalk & Talk	
24	II	SAMPLE PROGRAMS	Chalk & Talk	

					Chalk & Talk	
				SAMPLE PROGRAMS	Chalk & Talk	
	25		II	SAMPLETRO	Chaik & Talk	/
			T	SAMPLE PROGRAMS	Chalk & Talk	
	26	1	I	POCRAMS	Charles	1
	27	I	I	SAMPLE PROGRAMS	f Chalk & Talk	-
	21			Functions: Definition, Declaration, Types C	"	1
	28		Ш	Functions Functions Ultrageference.	Chalk & Talk	
	20	-	· III	Functions Call by value and call by reference,		
	29		ш		Chalk & Talk	
	30	1	Ш	Passing Arrays to functions		193
					Chalk & Talk	
3	31		II	Recursion, Scope and lifetime of variables	and the same of th	1 137
3.	2	11	T	Command line arguments,	Chalk & Talk	
	-		1	Command fine arguments,	OF U. O. T. H.	
33	3	II	I	Storage classes	Chalk & Talk	
34					Chalk & Talk	
34		III		Pointers: Definition, Declaration,	Chaik & Talk	
35		III		Initialization,	Chalk & Talk	-
		111	1	Pointer arithmetic, functions and pointers	Chair & Tair	
36		Ш	1	Pointer to pointer	Chalk & Talk	
37					Chair & Tair	
		Ш	I	Jses of Pointers, arrays and pointers	Chalk & Talk	
38		III				
			13.	AMPLE PROGRAMS	Chalk & Talk	
39		Ш	S	AMPLE PROGRAMS		
40	-	TTT			Chalk & Talk	333
41	-	IV IV	Str	ructures: Definition		1
The state of		IV	De	claration, Accessing the structure elements	Chalk & Talk	1
42		IV	Arr	ay of structures	Chalk & Talk	
10			- 111	ay of structures	Challe o m	3 3 3
43	I	V	Arra	ays with in structures,	Chalk & Talk	
44	-				Chalk & Talk	100
	I	/ p	oin	ter to structure, Self referential structure	Talk & Talk	
45	TV	-	-	sy son referential structure	Chalk & Talk	
	1	pa	assi	ng structure to function		
46	IV				Chalk & Talk	
		I IIC	SICC	d structures and unions	The state of the s	372
47	IV	Dv	nan	nic many	Chalk & Talk	
40		1		nic memory allocation		
48	IV	SA	MP	LE PROGRAMS	Chalk & Talk	
10				TROOKAIMS		
49	V	SAN	/PI	F PPOCP	Chalk & Talk	
		-111	11 1	E PROGRAMS		
50	V	File 1	T.T.	***	Chalk & Talk	
		riie I	lan	dling: Introduction, Types of files		
				y rypes of files	Chalk & Talk	
					Talk	-
						AND THE RESERVE

V	Defining and Opening a File	Chalk & Talk
V	Closing a File, Input/Output operations on	Chalk & Talk
V	Files Error Handling during I/O operations	Chalk & Talk
V	Random Access to Files	Chalk & Talk
V	SAMPLE PROGRAMS	Chalk & Talk
	V	V Closing a File, Input/Output operations on Files V Error Handling during I/O operations V Random Access to Files

Contact Hour (Cumulative)	Unit No.	LOGY, 2023-24, II/I, Civil-A. Dr. V. SOW. Topic	Methodolog y	Remarks
(Cumulative)	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	PPT	
4	I	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	Unit-1 will be completed
10	II	Cement-Types of cement	PPT	
11	II	Composition and Properties	PPT	
12	II	Uses-Chemical and Mineral admixtures	PPT	
13	II	Acceleration, Retarders	PPT	
14	II	Plasticizers, Water proofers	PPT	
15	II	Mineral admixtures like Fly ash, and	PPT	
16	II	Silica fume. Ground Granulated Blast Furnace slag(GGBS)	PPT	
17	II	Makaoline.	PPT	
18	II	Effects on concrete properties.	PPT	Unit-2 will be complete
19	III	Fresh concrete: Workability – Factors affecting workability	PPT	
20	III	Measurement of workability by different tests	PPT	- 48
21	III	Measurement of workability by different tests	PPT	
22	III	Measurement of workability by different tests	PPT	
23	III	Setting times of concrete – Effect of time and temperature on workability	PPT	A TEN
24	III	Segregation & bleeding	PPT	

LESSON PLAN for CONSTRUCTION MATERIALS AND CONCRETE TECHNOLOGY, 2023-24, II/I, Civil-A. Dr. V. SOWJANYA VANI

Contact Hour A9

		Topic	Teaching Methodolog y	Remarks
Contact	Uni		PPT	
Hour	No.	a worste		
(Cumulative)		Mixing and vibration of concrete	PPT	11.10
25	III	Ciara in manification	PPT	Unit-3 will
26	III	Quality of mixing water.		be completed 1st Mid
27	III	Quality of mixes		
	123			Exams
		Cament	PPT	1.50
20	IV	Hardened concrete: Water / Cement		
28	1 1	Abram's Jaw - Gelspace	PPT	
20	IV	Nature of strength of concrete	111	
29	10	Maturity concept	DDT	
30	IV	Strength in tension & compression –	PPT	
30	IV	Factors affecting strength		
31	IV	Relation between compression & tensile	PPT	
31	IV	strength - Curing.		
32	IV	Testing of hardened concrete:	PPT	33335
32	IV	Compression tests Factors affecting		100000000000000000000000000000000000000
33	IV	strength Flexure tests	PPT	
34	IV	Splitting tests	PPT	
35	IV		PPT	
	49 77	Non-destructive testing methods – codal provisions for NDT.	III	
36	IV	Non-destructive testing methods – codal	PPT	Unit-4 will
		provisions for NDT.		be complete
37	V	Types of Concrete: Ready mix concrete	PPT	100000000000000000000000000000000000000
38	V	Shotcrete	PPT	1999
39	V	Light weight aggregate concrete,	PPT	
	15788453	cellular concrete, Nofines concrete		
40	V	High density concrete	PPT	
41	V	Fibre reinforced concrete, Different	PPT	
		types of fibres, Factors effecting FRC	111	
42	V	Polymer concrete	DDT	
43	V	High performance concrete	PPT	
44	V	Self compacting concrete	PPT	
45	V	Salf hading concrete	PPT	
	Y	Self healing concrete	PPT	Unit-5 will
46	VI	Mix design: Factors in the choice of mix		be complete
		proportions	PPT	
17				
18		Durability of concrete	PPT	
	VI	Quality Control of concrete – Statistica	PPT	
THE RESERVE OF THE PARTY OF THE		methods – Acceptance criteria		A CONTRACTOR AND A STATE OF THE PARTY OF THE

ESSON PLAN for CONSTRUCTION MATERIALS AND CONCRETE TECHNOLOGY, 2023-24, II/I, Civil-A. Dr. V. SOWJANYA VANI

emarks.

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodolog	Remarks
49	VI	Proportioning of concrete mixes by various methods	PPT	
50	VI	BIS method of mix design	Chalk & Talk	
51	VI	BIS method of mix design	Chalk & Talk	
52	VI	Example	Chalk & Talk	
53	VI	Example	Chalk & Talk	
54	VI	Example	Chalk & Talk	Unit-6 will be complete

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		LESSON PLAN_FMHM (2023-2						
Faculty name	Dr. N	Dr. M. Suresh						
CONTACT HOUR	UNIT NO.	TOPIC	TEACHING METHODOLOGY	REMARKS				
1	1	Dimensions and units	class					
2&3	1	Physical properties of fluids	class					
4	1	Pascal's law	class					
5	1	Hydrostate law	class					
6&7	1	Manometer	class					
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 centre and metacentric and problems	class					
15&16	2	Fluid kinematics Fluid flow-stream line and path line	PPT					
17	2	Classification of flows	class					
18	2	continuity equations	class					
19	2	Stream and velocity functions	class					
20	2	Flow net and problems	class					
21	3	surface and body surface	class					
22	3	Euler's equation	class					
23&24	3	Bernoulli's equation and applications	class	2 - 1				
25	3	Venturi meter and syphon	PPT					
26	3	Forces and momentum equation	class					
27	3	Reynold's experiment	class					
28	3	Laminar and turbulent flows	class					
29	4	Types of flows	class					
0&31	4	Types of channels	PPT					
32	4	Velocity distribution	PPT					
33	4	Energy and momentum correction factors						
1&35	4	Formula for uniform flow	PPT					
36	4		class					
37		Non-uniform flow	class					
	4	Surface profiles	PPT					
38	4	Energy dissipation	class					
39	5	Hydrodynamic forces of jets	class					
&41	5	stream and velocity functions	class					

		The second secon	class
42	5	Jet striking centrally and at the tip	class
43	5	Expressions for work done and efficiencies	class
44	5	Principal of angular momentum	class
45	5	Heads and efficiencies	PPT
46	5	Classification of turbines	PPT
47	5	Velocity diagram and work done efficiencies	PPT
48	6	Pumps installation	PPT
49&50	6	Losses and efficiencies	PPT
51	6	Specific speed	PPT
52	6	Characteristic curves	class
53	6	Cavitation	Class

		year	11	
Branch	CIVIL	semester	1	
S. No	2023-24 Schedule	List of Experiments	No. of hours	Cumulative hours
1		(a) Determination of Fineness of Cement. (b) Determination of Specific Gravity of Cement by Lechatlier Flask.	3	3
2		(a) Determination of Normal Consistency of Cement. (b) Determination of Initial and Final Setting time of Cement	3	6
3		(a) Determination of Soundness of Cement. (b) Determination of Compressive Strength of Cement.	3	9
4	Cycle - I	(a) Determination of Fineness Modulus of Fine Aggregate (b) Determination of Fineness Modulus of Coarse Aggregate	3	12
5		(a) Determination of Bulk Density of Fine aggregate. (b) Determination of Bulk density of Coarse aggregate	3	15
6		(a) Determination of Specific Gravity of Fine aggregate.(b) Determination of Specific Gravity of Coarse Aggregate.	3	18
7		Determination of Bulking of Sand	3	21
8	Cycle - II	(a) Determination of Workability of Concrete by Slump Cone test. (b) Determination of Workability of Concrete by Compaction Factor test. (c) Determination of Workability of Concrete by Vee-bee Consistometer test	3	24
9		(a) Determination of Compressive Strength of Concrete cube. (b) Determination of Compressive Strength of Concrete cylinder.	3	27
10		Determination of Split tensile strength of Concrete cylinder.	3	30
11		Non-destructive testing of Concrete (Rebound hammer)	3	33

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Contact Hour (Cumulative)	Unit No.	Topic	Methodolog y	Remarks
	I	Classification of stones	PPT	
2	I	Stone quarrying -precautions in	PPT	
3	I	Bricks: composition of good brick earth, various methods of manufacturing of bricks	PPT	
1	I	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	Unit-1 will be completed
10	II	Cement-Types of cement	PPT	
11	II	Composition and Properties	PPT	
12	II	Uses-Chemical and Mineral admixtures	PPT	
13	II	Acceleration, Retarders	PPT	
14	II	Plasticizers, Water proofers	PPT	
15	II	Mineral admixtures like Fly ash, and	PPT	
16	II	Silica fume. Ground Granulated Blast Furnace slag(GGBS)	PPT	
17	II	Makaoline.	PPT	
18	II	Effects on concrete properties.	PPT	Unit-2 will b
19	III	Fresh concrete: Workability – Factors affecting workability	PPT	
20	III	Measurement of workability by different tests	PPT	
21	III	Measurement of workability by different tests	PPT	
22	III	Measurement of workability by different tests	PPT	
23	III	Setting times of concrete – Effect of time and temperature on workability	PPT	
24	III	Segregation & bleeding	PPT	-

DUCTION MATERIALS AND CONCRETE

	LESSO	ON PL	AN for CONSTRUCTION MATERIAES CCHNOLOGY, 2023-24,II/I, Civil-A. Sri. S Topic	Teaching	Remark	LESS
	-	**	1002		ark /	Cumula Cumula
Contact	Hour	Unit		у	Co	Calani
(Cumulative)		No.	Concrete	PPT	1	-
		III	Mixing and vibration of concrete	PPT		/
25		III	Ctang in manifiacture	PPT	Unit-3 will be	\
26 27		III	Quality of mixing water.	(A)	completed 1st Mid	1
-			The state of the s			1
				PPT	Exams	
28		IV	Hardened concrete: Water / Cement	PPI		
28		1 V	notio Abram's Law - Gelspace ratio	DDT		
29		IV	Nature of strength of concrete -	PPT	1	
			Maturity concept	DDT		1
30		IV	Strength in tension & compression -	PPT		
			Factors affecting strength	DDT		1
31	8 30 10	IV	Relation between compression & tensile	PPT	300000000000000000000000000000000000000	
32		TX	strength - Curing.	DDT		
32	390	IV	Testing of hardened concrete:	PPT	1500 1500	
			Compression tests Factors affecting strength		THE RESERVE	
33		IV	Flexure tests	DDT		
34		IV	Splitting tests	PPT		
35		V	Non-destructive testing methods – codal	PPT		
			provisions for NDT.	PPT	Control of the	
36	I	V	Non-destructive testing methods - codel	DDT	TY	
37	-		provisions for NDT.	PPT	Unit-4 will be completed	
38	1		Types of Concrete: Ready mix concrete	DDT	completed	
39	V		Shotcrete	PPT		
	\ \ \ \		Light weight aggregate concrete,	PPT		
0	V		chular concrete, Nofines concrete	PPT		0
1	V	1	11gn density concrete	DDG		
	1	I t	Tibre reinforced concrete, Different	PPT		
2	V	-	Pos offices, ractors effective pro-	PPT		
	V		- Jiiici coliciele	DDs	THE RESERVE	
	V	S	igh performance concrete	PPT		
	V	100	il compacting concrete	PPT		
		1 36	If healing concrete	PPT		
	VI	Mi	design: Factors in the choice of mix	PPT	Unit-5 will be	
		10.0	POLLIOIS	PPT	completed	
	VI	Dur	ability of concrete	TPT		
	VI	Qua	lity Control of concrete	PPT		
		1	isticalmethods – Acceptance criteria	111	The state of the s	

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Remarks

LESSON PLAN for CONSTRUCTION MATERIALS AND CONCRETE TECHNOLOGY, 2023-24,II/I, Civil-A. Sri. S. Ramlal

Contact Hour (Cumulative)	Unit No.	CHNOLOGY, 2023-24,II/I, Civil-A. Sri. S Topic	Teaching Methodolog y	Remarks
49	VI	Proportioning ofconcrete mixes by various methods	PPT	
50	VI	BIS method of mix design	Chalk & Talk	
51	VI	BIS method of mix design	Chalk & Talk	
52	VI	Example	Chalk & Talk	
53	VI	Example	Chalk & Talk	
54	VI	Example	Chalk & Talk	Unit-6 will be completed

LESSON PLAN for STRENGTH OF MATERIALS,

A.Y 2023-24, II/I, Civil-B

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Mr.	M	Sai	Ba	bu

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Contact Hour	Unit	Mr. M Sai Babu Topic	Teaching	Remarks
(Cumulative)	No.	17.00	Methodology	
1	I	Types of stresses and strains – Hooke's law – stress – strain diagram for mild 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	35
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	II	S.F and B.M diagrams for overhanging beams subjected to point loads, UDL., uniformly varying loads and	Chalk & Talk	

	/6	12
4	5	1000
6	Total I	House
1	9	

		combination of these loads		
	1	LAN for STRENGTH OF MATERIALS, 2	2023-24, II/I, Civi	I-B
LES	SON PI	AN for STRENGTH OF MA	Teaching Methodology	
Contact Hour	Unit	Topic	Chalk & Talk	Unit-2 will be
(Cumulative)	No.	- A A A A A A A A A A A A A A A A A A A	Chalk & Tall	completed
13	II	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	136	
15	III	Determination bending stresses – section modulus of rectangular, circular sections (Solid and Hollow)	Chalk & Talk	
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	
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	
20	Ш	shear stress distribution across various beam sections like I, T sections	Chalk & Talk	Unit-3 will be completed 1 st Mid Exams
21	IV	Bending into a circular arc – slope, deflection and radius of curvature – Differential equation for the elastic line of a beam – Double integration, Macaulay's method	Chalk & Talk	
22	IV	Determination of slope and deflection for cantilever and simply supported beams subjected to point loads and U.D.L	Chalk & Talk	
23	IV	Determination of slope and deflection for cantilever and simply supported beams subjected to point loads and U.D.L	Chalk & Talk	
24	IV	Determination of slope and deflection	Chalk & Talk	

		for cantilever and simply supported beams subjected to point loads and			
		LIDI.	000 04 TIU Civ	il-B	
- nacc	NI DI A	U.D.L IN for STRENGTH OF MATERIALS, 2	023-24, 11/1, CIV		
LESSO	NPLA	IVAX - IVA	Teaching	Ren	narks
	Unit	Topic	Methodology		
Contact Hour	No.	1 A tion	Chalk & Talk	1	
(Cumulative)	IV	Determination of slope and deflection	Chance		
25					
		beams subjected to point loads and			
		U.D.L			
		1 (2 6 a har) c	Chalk & Talk		
26	IV	Moment area method (Mohr's			
20			Chalk & Talk		
27	IV	Determination of slope and deflection			
		for cantilever and simply supported beams subjected to point loads and			
	1	beams subjected to point rouse			
		U.D.L Determination of slope and deflection	Chalk & Tall	K	
28	IV	and simility support			
		for cantilever and simply beams subjected to point loads and			
	1			11-	
	1	U.D.L Determination of slope and deflection	Chalk & Ta	IK	
29	IV				
		beams subjected to point loads an	d		
	1			112	Unit-4 will be
	-	- tion of slone and deliection	11	aik	completed
30	IV	- "I and Sillilly Support			
		beams subjected to point loads an	nd		
	146	TT D T		alk	
	-	Til of pure torsion - Assumption	s Chaik & I	ain	
31	V	to in the theory of pure torsion			1000
		- · · · · · of Torsion equation	r Chalk &	Talk	
	-	· moment of resistance - I of	r Chaik &	laik	1
32	1	· duluc		Talle	
		- romant of resistance - role	er Chalk &	laik	1
33	1	d'an modulus		Talle	1
		itted by shatts	Chalk &	Talk	-
34		- transmitted by silalis	Chalk &	Talk	
35		Ctrocces on an illum	ed Chalk 8	Talk	
36	1	Introduction – Suesses on an area section of a bar under axial loading			
	17/1/25	section of a par under axial local	Chalk &	& Talk	
37		V Compound stresses – Normal and	lane		
	444	tangential stresses on an inclined p			
C Marie Control		c Liewiel stresses	Chalk	& Tall	K
38		V Compound stresses – Normal and			

1 100		tangential stresses on an inclined plane for biaxial stresses		
LESS	ON PI	LAN for STRENGTH OF MATERIALS, Mr. M Sai Babu		
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
39	V	Two perpendicular normal stresses accompanied by a state of simple shear	Chalk & Talk	
40	V	Two perpendicular normal stresses accompanied by a state of simple shear	Chalk & Talk	Unit-5 will be completed
41	VI	Introduction – Types of columns –long columns – Euler's Crippling Load assumptions	Chalk & Talk	11
42	VI	Derivation of Euler's critical load for various end conditions	Chalk & Talk	
43	VI	Derivation of Euler's critical load for various end conditions	Chalk & Talk	
44	VI	Derivation of Euler's critical load for various end conditions	Chalk & Talk	
45	VI	Derivation of Euler's critical load for various end conditions	Chalk & Talk	1
46	VI	Equivalent length of a column – slenderness ratio	Chalk & Talk	
47	VI	Euler's critical stress – Limitations of Euler's theory	Chalk & Talk	
48	VI	Rankine – Gordon formula	Chalk & Talk	
49	VI	Secant formula – Empirical formulae	Chalk & Talk	
50	VI	Straight line formula	Chalk & Talk	Unit-6 will b

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

Class: II-I [Section: B]

B. TECH (2023-24)

Subject: Fluid Mechanics and Hydraulic Machines Lab (20CEL202)

Faculty Name: Dr. Sanjay Kumar Ray

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	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
10	Efficiency test on centrifugal pump.	3
11	Efficiency test on reciprocating pump.	3
	Total	33

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Contact Hour	Unit	Dr. B. VISWESWARA REDDY Topic	Teaching Methodology	Remarks
(Cumulative)	No.	Engineering Geology Introduction-Syllabus	BB	
2	I	Introduction Branches of geology-Need of geology in Civil	BB	
3	I	Engineering Scope of geological studies in Civil Engineering	BB	
4	I	projects Mineralogy Introduction-Definition of Mineral	BB	
5	I	and Crystal Physical properties used in the identification of	BB	
		minerals Physical properties of quartz and feldspar group	BB & LCD	
6	I	Physical properties of quartz and released group	BB & LCD	
7	I	Physical properties of olivine and calcite group	BB & LCD	
9	I	Physical properties of bauxite group Physical properties of kyanite and gypsum group	BB & LCD	Unit-1 will be finished
10	II	Petrology Introduction	BB	
11	II	Geological classification of rocks	BB	
12	II	Dykes and Sills	BB & LCD	
13	П	Structures and Textures	BB	
14	II	Geological description and Indian occurrence of granite and basalt	BB & LCD	
15	П	Indian occurrence of dolerite and gabbros	BB	
16	П	Indian occurrence of sand stone, shale, lime stone and slate	BB	
17	II	Indian occurrence of gneiss, schist and quartzite	BB & LCD	
18	II	Indian occurrence of marble and khondalite	BB	Unit-2 will be finished
19	III	Geological structures Introduction-Strike and Dip	BB	
20	Ш	Classification mode of origin and Engineering consideration of folds and faults	BB & LCD	
21	Ш	Engineering consideration of joints and unconformities	BB	
22	Ш	Rock weathering Introduction-Definition of rock weathering-weathering classification	BB	
22	III	Engineering consideration of rock weathering	DD	
23	Ш		BB	
24	III	Geology soils Introduction-Formation of soils	BB	
25	III	Soil profile-Important clay minerals	BB	
26	III	Geological classification of soils	BB	
27	III	Types of Indian soils	BB	Unit-3 will b
28	IV	Hydrogeology Introduction-Zones of groundwater	BB	Mid-1 Exam
29	IV	Aquifers	BB	
30	IV	Aquifuge	BB	

		1: :::	BB	
31	IV	Aquiclude	BB	
32	IV	Aquitards Geological controls of groundwater movements	BB	
33	IV	Geological controls of groundwater me version	BB	
34	IV	Cone of depression Groundwater exploration techniques	BB	
35	IV	Groundwater exploration techniques Groundwater exploration techniques	BB	Unit-4 will be finished
37	V	Geology of dams and Tunnels Introduction	BB	
	V	Types and purpose of dams	BB	
38	V	Geological considerations in the selection of a	BB & LCD	
40	V	Analysis of dam failures in the past	BB	
41	V	Analysis of dam failures in the past	BB	
42	V	Purpose, effects and lining of tunnels	BB	
43	V	Purpose, effects and lining of tunnels	BB	
44	V	geology Influence for successful tunneling	BB	
45	v	Influence of geology for successful tunneling	BB & Student Seminar	Unit-5 will be finished
46	VI	Geological hazards Introduction	BB	
47	VI	Earthquakes-causes	BB	
48	VI	Earthquakes-effects	BB	
49	VI	Richter scale-seismic belts	BB	
50	VI	Seismic zones of India	BB & LCD	
51	VI	Precautions while constructing engineering structures	BB	
52	VI	Landslides-causes	BB	A STATE OF THE PARTY OF THE PAR
53	VI	Landslides-effects	BB	
54	VI	Methods of mitigation measures	BB	Unit-6 will be completed
55		Class test		
56		Grand test		Mid-2 Examination

CARLES ASSESSED.

A.y: 23-24

Lab name: Strength of Materials Lab

		year	11
Branch	CIVIL	semester	1
section	В		m sai babu
course code	23CFI 201	Faculty name	

C 11-	Lab lesson schedule	no of hours
S.No	Tension test on MS and HYSD bars	3
2	Bending test on Cantilever beam (Steel). Determination of Modulus of Elasticity by conducting Bending test on simple support beam (Wood)	
3		
4	Torsion test on MS bar.	3
5	Hardness test on steel	3
6	Compression test on Close coiled Helical Spring	3
7	Compression test on wood	3
8	Impact test on Mild Steel bar	3
9	Shear test on Wood	3
10	Verification of Maxwell's Reciprocal theorem on beams.	3
11	Deflection test on Fixed beam	3
12	Bending test on RS Joist under UTM	3
13	Add-on Demonstration Compression Test on Brick	3
	total contact hours	39

day

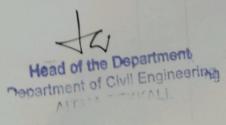
Lab name: Concrete Testing Lab

ection ourse code	B 20CEL202	semester Faculty name	m sai babu
jurse code	Lab lesson so	hedule	no or nours
S.No			3
1	(a) Determination of Fineness of Cement. (b) Determination of Specific Gravity of C	ement by Lechatlier Flask.	3
2	(a) Determination of Normal Consistency (b) Determination of Initial and Final Sett	OI CEITICITE.	3
	(a) Determination of Soundness of Cemer (b) Determination of Compressive Streng	IL.	3
3	6 Finances Modulus C	of Fine Aggregate	3
4	(b) Determination of Fineness Modulus C	71 600.00	1
5	(a) Determination of Bulk Density of Fine aggregate. (b) Determination of Bulk density of Coarse aggregate		3
6	(a) Determination of Specific Gravity of Fine aggregate. (b) Determination of Specific Gravity of Coarse Aggregate.		3
	Determination of Bulking of Sand.		3
7		Luckima Cone test	
8	(a) Determination of Workability of Cond (b) Determination of Workability of Cond	ncrete by Compaction Factor test.	3
9	. (a) Determination of Compressive Strength of Concrete cube. (b) Determination of Compressive Strength of Concrete cylinder.		3
			3
10	Determination of Split tensile strength of		
11	Non-destructive testing of Concrete (Re	bound hammer)	3
	total contact hou	re.	33

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	(A) (A)	LESSON PLAN forFMHM, 2023-24,II/I KRUPASINDHU BISWAL	Teaching	Remarks
Contact Hour	Unit	Topic	Methodology	
(Cumulative)	No.		Chalk & Talk	
1	I	Dimensions and units	Chalk & Talk	
2	I	Physical properties of fluids specific gravity, viscosity	Chalk & Talk	
3	I	surface tension, capillarity	Chalk & Talk	
	I	pressure at a point	Chalk & Talk	
4	I	Pascal's law	Chalk & Talk Chalk & Talk	
5	I	Hydrostatic law		
6	I	atmospheric, gauge and vacuum	Chalk & Talk	
7	1	pressure	Cl. II O Talle	
0	I	measurement of pressure.	Chalk & Talk	
8	I	Manometers:simple	Chalk & Talk	
9	I	Differential Manometers	Chalk & Talk	
10	I	Hydrostatic forces on submerged plane,	Chalk & Talk	
		Horizontal, Vertical	Chalk & Talk	
12	I	inclined and curved surfaces	Chalk & Talk	Unit-1 will be
13	I	Center of Pressure. Derivations and Problems		completed
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	
	TT	streak lines and stream tube	Chalk & Talk	
17	II	Classification of flows: Steady, unsteady,	Chalk & Talk	
18	II	uniform, non-uniform, laminar, turbulent, rotational and rotational flows		
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 I completed
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	

I	ESSON	N PLAN for FMHM, 2023-24,II/I, Civil-A	Teaching	Remarks
Contact Hour	Unit	Topic	Methodology	
(Cumulative)	No.	. Wasimont	Chalk & Talk	
29	III	Reynold's experiment	Chalk & Talk	Unit-3 will be completed
30	III	- Characteristics of Laminar & Turbulent		completed
		flows Type of channels	Chalk & Talk	
31	IV	Types of flows - Type of channels	Chalk & Talk	
32	IV	Velocity distribution	Chalk & Talk	
33	IV	Energy and momentum factor	Chalk & Talk	
34	IV	Chezy's, Manning's formulae for uniform		
		flow Most Economical sections-circular	Chalk & Talk	
35	IV	Most Economical sections-rectangular Most Economical sections-rectangular	Chalk & Talk	
36	IV	Most Economical sections recently Most Economical sections-trapizoidal	Chalk & Talk	
37	IV	Critical flow: Specific energy-critical	Chalk & Talk	
38	IV			
		depth computation of critical depth	Chalk & Talk	
39	IV	Dynamic equation for G.V.F	Chalk & Talk	Unit-4 will be
40	IV	hydraulic jump, energy dissipation.	Chalk & Talk	completed
41	IV		Cl. 11. 9. Talle	Completed
42	V	Hydrodynamic force of jets on stationary	Chalk & Talk	
42		flat	Chalk & Talk	
43	V	moving flat, inclined and curved vanes		
44	V	curved vanes	Chalk & Talk	
45	V	jet striking centrally and at tip, velocity	Chalk & Talk	
43		triangles at inlet and outlet	C1 11 0 T 11-	
46	V	expressions for work done and efficiency	Chalk & Talk	
47	V	principle of Angular Momentum	Chalk & Talk	
	V	Layout of a typical Hydropower	Chalk & Talk	
48		installation		
40	V	Heads and efficiencies-classification of	Chalk & Talk	
49		turbines Pelton wheel		
50	V	Francis turbine	Chalk & Talk	
50	V	Kaplan turbine	Chalk & Talk	Unit-5 will be
51	V			completed
52	VI	Pump installation details-classification	Chalk & Talk	
	VI	work done	Chalk & Talk	(
53	VI	Manometric head	Chalk & Tall	K
54	_	minimum starting speed	Chalk & Tall	k
55	VI	losses and efficiencies	Chalk & Tal	
56	VI		Chalk & Tal	
57	VI	specific speed		
58	VI	multistage pumps-pumps in parallel and series	d Chalk & Tal	IK .
	3.77	characteristic curves-NPSH-cavitations	Chalk & Ta	lk UNIT-VI
59	VI	Characteristic curves-ivi sin-cavitations	Chain ce Ita	



Lab Name: TRANSPORTATION ENGINEERTIN Lab

Branch:Civil

Year:2023-2024

Sec-B

Semester: III-I

Course Code: 20CEL206

Faculty Name: Sri G Anil Kumar

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

Lesson Plan for Transportation Engineering (III-I) A.Y: 2023-2							
	I	TOPIC	TEACHING (*)METHODOLOGY	REMARKS			
CUMULATIVE	UNIT NO	TOTAL					
		Highway development and planning: Invention of		a de la companya della companya della companya de la companya della companya dell			
1	1	wheel - Different modes of transportation	class				
		role of highway transportation in India- Necessity	class				
2	1	for Highway Planning	class				
3	1	Different Road Development Plans					
4	1	Classification of Roads	class & PPT				
5	1	Road Network Patterns.	class & PPT				
6		Highway Alignment: Alignment	class & PPT				
0	1.	Factors controlling Alignment	class & PPT				
7			class & PPT				
8	1	Engineering Surveys for Highways					
9	1	Drawings and Reports.	class & PPT				
		Geometric design: Importance of Geometric	class				
10		Design Cores Section Florants	class				
11	II	Highway Cross Section Elements Pavement Surface Characteristics	class & PPT				
12	II		class				
.3		Sight Distance	class				
.4	11	Stopping Sight Distance	class				
5	II	Overtaking Sight Distance					
6	11	Intermediate Sight Distance.	class				
7	11	Design of Horizontal Alignment	PPT				
8	II	Design of Super elevation	class				
9	II	Extra widening	class				
0	11	Design of Transition Curves	class				
1	11	Design of Vertical Alignment	class				
	11	Grade Compensation.	class	early of the second			
	1000000	Highway materials: Soil, Aggregate & Bitumen and Tar	class & PP	т			
		Tests on aggregates –Aggregate Properties and their Importance, Tar properties	class & PF	ot l			

25	1	Differentiation between Tar and Bitumen	lass & PPT	
25	111		class & PPT	
26	III	Bitumen & different forms of bitumen	class & PPT	
27	III	tests on bitumen	class & PPT	
28	III	Bituminous Concrete	class & PPT	
29	III	requirements of Design Mix	Cidas	
30	III	Marshalls Method of Bituminous Mix design	class & PPT	
31	lii	Modified Hubbard Field method of mix design.	class & PPT	
32	IV	Highway Construction: Construction of Roads	class & PPT	
		Earthen roads, W.B.M. Roads & Bituminous	class & PPT	
33	IV	Cement Concrete roads, Tie bars and Dowel bars	s class & PPT	
34	IV	Cement Concrete 10ads, Tie bars and	PPT	
35	IV	distresses.		
36	IV	Highway Maintenance	class & PPT	
37	IV	Highway drainage	class & PPT	100
8	IV	Arborical culture	class & PPT	
9	IV	Street lighting.	class & PPT	
	V	Traffic engineering: Elements of Traffic Engineering	class & PPT	
0	V	Vehicle & Road User Characteristics	class & PPT	
2	V	Accessibility & Mobility concept	class & PPT	
	V	Traffic Volume studies & methods	class & PPT	
	V	Traffic Volume studies & methods	class & PPT	
	V	Speed Studies – Time Mean Speed	class & PPT	
	V	Space Mean Speed	class & PPT	
	V	Travel time and Delay studies	class & PPT	
	V	Origin & Destination studies	class & PPT	

49	VI	Highway capacity: Highway capacity and level of service (LOS)	class & PPT
50	VI	capacity of urban and rural roads	class & PPT
51	VI	PCU concept and its limitations.	class & PPT
52	VI	Parking: Parking Studies – Problems of parking	class & PPT
53	VI	types of parking facilities – on street & off street	class & PPT
54	VI	Accidents	class & PPT
55	VI	Causes and Mitigative measures	class & PPT

Contact Ho		nit	Topic	Teaching Methodology	Remarks
1		I	Sources of Water ,Comparison from quality and quantity	BB	
2		I	Intakes, infiltration galleries. Waterborne diseases	BB	
3	1		Protected water supply	BB & Interactive	
4	1		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	
10	1		Drinking water quality standards: IS 10500	BB & LCD	Unit-1 will be completed
11	II	_	Layout and general outline of water reatment units	BB	
12	II	1	Aeration, sedimentation, principles	BB& LCD	
13	II	I	Design factors	BB& LCD	
14	II	(Coagulation, jar test	BB& Student	
	1	1		Seminar	
15	II	F	locculation	BB& LCD	
16	II	C	Clarifier design coagulants, feeding	BB& Student	
		a	rrangements	Interaction	1
17	II	F	iltration, theory,	BB& LCD	
18	II		Vorking of slow and rapid gravity lters, multimedia filters,	BB& LCD	
19	II	D	esign of filters, troubles in peration,	BB& LCD	
20	II	ch	isinfection, theory of chlorination, lorine demand, other disinfection actices.	BB& LCD	Unit-2 will b completed
21	III	Re	equirements, methods and layouts.	BB& Student Seminar	
22	Ш	Ha	sign of distribution systems, rdy Cross and equivalent pipe thods,	ВВ	

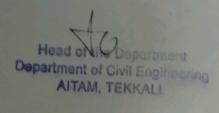
ENGINEERING, 2023-24, III/I, Civile

		- 1 N	for ENVIRONMENTAL ENGINE B.HARISH Topic	Teaching Methodology	Remark
LESS	SONP	LAN	Topic	BB	
1 3/12	-	Unit		BB	
Contact E	(Care	No.	Service reservoirs Capacity by Mass Curve Method Capacity by eluice valves,	BB& LCD	1
(Cumulat	ive)	III	Service reservo		1
23	-	III	Capacity by Mass	BB	
24	-	III	Joints, sluice valves,	BB	1 st Mid
25	-	III	Air valves, Scour valves Check valves, water		Exams
26	-	-	Scour valves Check val	BB	
27		Ш	meters water meters	BB	Unit-3 will be
	-	TTT	meters Check valves, water meters	DD	completed completed
28		Ш		BB& Student	- ompicted
29		Ш	Sewage and storm water estimation -	Seminar	,
20		IV	Sewage and storm water course	The second secon	
30				BB	
	-	V	Characteristics of sewage,		
31		1	Decomposition of sewago,	BB	
	-	77	Eination of sewage,	BB	
32		V	B.O.D. Equation, and C.O.D.		
33		V	Design of sewers,	BB	
34		V	Design of sewers,	BB & LCD	
35	Г	V	Shapes and materials	BB & LCD	
36	Г	V	Sewer appurtenances, manholes	BB	
37	I	V .	Inverted siphon ,catch basins	BB	
38	I	7	Flushing tanks ,ejectors,		
39	1	7]	Pumps	BB	
40	IV	_	Pump houses	BB& Student	Unit-4 will b
				Seminar	completed
41	V	1	Vaste water treatment plant, Flow	BB	
		d	iagram		
42	V	P	rimary treatment, design of screens	BB	
43	V		rit chambers, Skimming tanks		-
44	V		edimentation tanks	BB	
45	V	Di	all internation tanks	BB	
		BI	ological treatment, trickling filters	The same of the sa	-
16				BB& Student	
46	V	Ac	tivated sludge processes (ASP).	Seminar	1
47	V	Sh	adge digestion, factors effecting,	BB	
		des	ign of Disastion, lactors effecting.	BB	
8	V	Ch	ign of Digestion tank	DB	
9	V	DIU	uge disposal hand		
	1	Sep	tic tanks working principal	BB	
	1334		tic tanks working principles and,	BB	
				DD	

Department of Civil Engineering
AITAM, TEKKALI.

Contact Hour	Unit No.	B.HARISH Topic	Teaching Methodology	Remarks
(Cumulative)	V	Septic tanks design	BB	77 1. 6 (1) 5
50	V	Soak pits	BB	Unit-5 will be completed
52	VI	Definition and classification of air pollutants	BB	
53	VI	Sources and effects, air pollution meteorology	BB	
54	VI	Control of particulates, Gravity settlers, cyclone filters	BB	
55	VI	ESPs, Control of gaseous pollutants, Adsorption, Absorption, Combustion, Condensation,	BB	
56	VI	Air quality standards and limits.	BB	
57	VI	Definition and impacts of noise pollution	BB	
58	VI	Permissible limits of noise,	BB	Unit-6 will completed
59	VI	Measurement of noise and control of noise pollution.	BB	2 nd Mid Exams

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Introduction	PPT	
2	I	Highway development	PPT	
3	I	Modes of transportation, role of highway transportation in India	PPT	
4	I	Necessity and road development plans	PPT	
5	I	Road development plans	PPT	
6	I	Road network patterns	PPT	
7	I	Alignment	BB	12
8	I	Factors affecting alignment	BB	
9	I	Engineering surveys and drawings	PPT	
10	II	Geometric design, Cross section elements	PPT	
11	II	Sight distance and types	BB	100
12	II	SSD, OSD, ISD	ВВ	
13	II	Sight distance problems	ВВ	
14	II	Super elevation	ВВ	
15	II	Problems on super elevation	BB	Pag.
16	II	Design of transitional curve	BB	
17	II	Extra widening	BB	



						-	The state of the s
	-			-	Design of vertical curves	ВВ	
		18		II	Design of vertical curves	ВВ	10 10 10 10 10 10 10 10 10 10 10 10 10 1
		19		II	The state of the s	ВВ	
		20		II	Vertical gradient	PPT/BB	
		21		III	Highway material – soil	PFI/DB	
		22		Ш	Aggregate properties	PPT/BB	
	2	23		Ш	Aggregate tests	PPT/BB	
	2.	4		III	Bitumen and tar	PPT/BB	
	25		1	III	Tests on bitumen	PPT/BB	
-	26		I	II	Bitumen types	PPT/BB	
1	27		II	I	Problems on mix design	PPT/BB	
1	28		III		Bituminous concrete	PPT/BB	
	29	1	III	-	Marshall mix design	PPT/BB	
	30	1	IV		Different types of roads	PPT/BB	
	31	+	IV		Earthen and WBM Roads	PPT/BB	
_	32	1	V		BT roads		
_	33	I	v		CC roads and stresses	PPT/BB	
	34	IV	1		Tie bars and dowel bars	PPT/BB	
	35	IV	1	F	The state of the s	PPT/BB	
3	6	IV	+		lexible pavement construction	PPT/BB	
-		-			istresses on flexible pavement	PPT	
							100 mm

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 Mitigativemeasures	PPT

3

LESSON PLAN

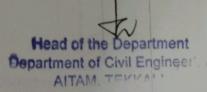
ACADAMIC YEAR: 2023-24
YEAR & SEM: III/I,
SECTION: A
FACULTY NAME: Sri. G. GOWRI SANKARAREAO
SUBJECT: ADVANCOC STRUCTURAL ANALYSIS

Contact Hour (Cumulative)		Topic	Teaching Methodolo gy	Remarks
1	I	Assumptions in slope deflection method application to the analysis of statically indeterminate beams with and without	ВВ	
	I	settlement of supports Solving the problems of continuous beam	BB	
2	1	'al and amound	BB	
4	I	Solving the problems of continuous beam without sinking	BB	
5	I	Solving the problems of continuous beam		
6	I	Solving the end moments of the rigid frame	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	ВВ	
		with sway and draw the BMD & SFD		
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	ВВ	
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	

			BB		
21	III	Analysis of continuous beams – including	DD		
21		without sway Analysis of continuous beams – including	BB		
23	III		BB	Unit-3 will be completed	
24	III	Find end moments and draw the BMD & SFD of the portal frame with sway	DD	compicted	
		Introduction to Stiffness Method	BB		
25	IV	Analysis of continuous beams with two	BB		
26	IV	unknows.	BB		
27	IV	Analysis of continuous beams with two	D.D.		
		unknows.	BB		
39	IV	Analysis of continuous beams with two unknows.			
	****	Analysis of portal frame with two unknows.	BB	-	
30	IV	Analysis of portal frame with two unknows	BB		
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	DD	completed	
35	V	Explanation of flexibility method	BB		
36	V	Analysis of continuous beams with two	BB		
30		unknows use flexibility method	DD		
38	V	Analysis of continuous beams with two	BB		
		unknows.	BB		
39	V	Analysis of portal frame with two unknows	BB		
41	V	Analysis of portal frame with two unknows by	ВВ		
		flexibility method	BB	Unit-5 will be	
42	V	f Analysis of portal frame with two unknows by	DD	completed	
10	M	flexibility method Introduction to Plastic Analysis	BB		
42	VI	Assumption in plastic theory-plastic hinge-	BB		
44	VI	plastic moment or collapse moment-collapse	1 1 1 1 1 1 1 1 1		
	138		4		
		load load factor- shape factor- collapse load for	BB		
45	VI		1		
		Different types of beams	BB		
46	VI	Find the collapse load in beams			
48	VI	Solving the collapse load in beams	BB		
49	VI	Solving the collapse load in beams			
50	VI	Solving the collapse load in beams		Unit-6 will	
52	VI	Solving the collapse load in beams		Unit-6 will completed	

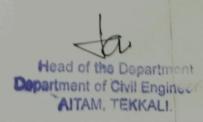
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CIVIL DEPARTMENT

		LESSON PLAN forASA, 2023-24, III/I,Civil- Dr. D. Hima Chandan	Teaching	Remarks
Contact Hour (Cumulative)	Unit No.	Topic	Methodology	
1	I	Assumptions in slope deflection method - application to the analysis of statically indeterminate beams with and without	ВВ	
2	I	Solving the problems of continuous beam	ВВ	
4	I	without sinking 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	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	
	**	Moment Distribution method explain Stiffness	BB	
9	II	and carry over factors and also Distribution factors		
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	BB	
		moments of the rigid frame with sway and draw the BMD & SFD		18.5
社会的 基 化 包		The second secon	bild ale d	
16	III	Kani's method- Analysis of continuous beams – including without sinking		
17	III	Analysis of continuous beams – including without sinking	BB	
19	III	Kani's method- Analysis of continuous beams – including witht sinking	ВВ	
20	III	Kani's method- Analysis of continuous beams – including without sinking	BB	



		1luding	BB	
21	III	Analysis of continuous beams – including without sway	BB	
23	III	Analysis of continuous beams – including	BB	Unit-3 will be
24	III	Find end moments and draw the BMD & SFD of the portal frame with sway		completed
		Introduction to Stiffness Method	BB	
25	IV	Analysis of continuous beams with two	BB	
26	IV	unknows.	BB	
27	IV	Analysis of continuous beams with two unknows.		
39	IV	Analysis of continuous beams with two unknows.	ВВ	
20	TXZ	Analysis of portal frame with two unknows.	BB	
30	IV	Analysis of portal frame with two unknows	BB	
31	IV	Analysis of portal frame with two unknows	BB	
33 34	IV IV	Analysis of portal frame with two unknows Analysis of portal frame with two unknows	BB	Unit-4 will be completed
35	V	Explanation of flexibility method	BB	
36	V	Analysis of continuous beams with two unknows use flexibility method	BB	
38	V	Analysis of continuous beams with two unknows.	BB	
39	V	Analysis of portal frame with two unknows	BB	
41	V	Analysis of portal frame with two unknows by flexibility method	BB	
42	V	f Analysis of portal frame with two unknows by flexibility method	ВВ	Unit-5 will be completed
42	VI	Introduction to Plastic Analysis	BB	
44	VI	Assumption in plastic theory-plastic hinge- plastic moment or collapse moment-collapse load	ВВ	
45	VI	load factor- shape factor- collapse load for Different types of beams	BB	
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	- DB	
50	VI	Solving the collapse load in beams		
52	VI	Solving the collapse load in beams		Unit-6 will l

LESSON PI	AN 10	ordesign of concrete structur Sri. S. RAMLAL		Remarks
Contact Hour	Unit No.	Topic	Methodology	
(Cumulative)	I.	Concepts of limit state design-Basic	Chalk & Talk	
		statical principles Characteristic loads – characteristic	Chalk & Talk	
2	I	etrongth	Chalk & Talk	
3	I	Partial load and safety factors – representative stress – strain curves for cold worked deformed bars and mild	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	
		Stress – block parameters	Chalk & Talk	
7	I	limit state analysis and design of singly	Chalk & Talk	
8	I	reinforced limit state analysis and design of singly	Chalk & Talk	
9	I	reinforced limit state analysis and design of singly	Chalk & Talk	
		reinforced Comparison of Limit stage method with	Chalk & Talk	Unit-1 will be
10	I	working stress and ultimate load method		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 b
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 & Tall	K
21	III	Problems on shear	Chalk & Tal	k



E CONCRETE STRUCTURES, 2023-24, III/I, Chy

LESSON PLAN for		AN fo	TOPIC TOPIC TOPIC	Teaching Methodology	Remark
		Unit		Chalk & Talk	
Contact I	Hour	No.	- In the second	Chalk & Talk	
(Cumula	tive)	III	Torsion example	Chalk & Talk	
22	-	III	- ion example		
23	-	III	concept of bond, anchors code provisions	Chalk & Talk	Unit-3 will be
24		111	development	Chair	completed&
25	-	III	concept of bond, anchorage and		1st Mid
25			concept of bond, anchorage and development length, I.S. code provisions		Exams
				Chalk & Talk	
			of clahs	Chalk & Talk	
26		IV	Classification of slabs	Chalk & Talk	
27		IV	Design of one - way slabs	Chalk & Talk	
28		IV	Design of two - way slabs	Chalk & Talk	
29		IV	Design of two - way slabs	Chalk & Talk	
30		IV	Design of continuous slabs using IS		
			Coefficients (conventional) Design of continuous slabs using IS	Chalk & Talk	
31		IV	Coefficients (conventional)		
32	32 IV De		Design of continuous slabs using IS	Chalk & Talk	Unit-4 will b
32		1 V	Coefficients (conventional)		completed
33		V	Effective length of a column, I S Code	Chalk & Talk	
			provisions	Chair of Tank	
34		V	Design of short columns under axial loads	Chalk & Talk	
35		V	Design of short columns under axial	01.11.0	
36			loads	Chalk & Talk	
			Design of short columns under axial oads	Chalk & Talk	
37	V	7 1	Design of short columns under b uniaxial	Cl. 11 0 = 11	
20	-	[pending	Chalk & Talk	
38	V	-	Design of short columns under	Cl. II	
20	-	b	axial bending	Chalk & Talk	
39	V	D	esign of short columns under biaxial		
10		D	inding	Chalk & Talk	
	V	De	esign of long columns		
1	V	De	esign of long columns	Chalk & Talk	
2	V	De	sign of long columns	Chalk & Tall	
3	XII			Chalk & Talk	-
1	VI	Typ	pes of footings.		Unit-5 will b
	VI	Dis	tribution of base pressure	Chalk & Talk	completed
	VI	Gel	leral Design considerations (Chalk & Tall	
	-		,63.	Chalk & Talk	
	VI	Des	ign of Isolated rectangular footing	a Talk	
	111111111111111111111111111111111111111	1000	rectangular footing	Challe o	
				Chalk & Talk	

De Chair

LESSON PLAN for DESIGN OF CONCRETE STRUCTURES, 2023-24, III/I, Civil-A.

Contact Hour	Unit	Sri. S. RAMLAL Topic	Teaching Methodology	Remarks
(Cumulative)	No.	Design of Isolated rectangular footing	Chalk & Talk	
47		Design of Isolated rectangular footing	Chalk & Talk	
48		Design of Isolated rectangular footing	Chalk & Talk	
49		Design of Isolated rectangular rooting	Chalk & Talk	
50		Design of Isolated square footing	Chalk & Talk	
51		Design of Isolated square footing	Chalk & Talk	Unit-5 will be
52		Design of Isolated square footing	Chair co 1	completed
		Grand Test		2 nd Mid Exams

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Class: III-I(B) B. TECH (2023-24)

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	3
7	Estimation of Dissolved oxygen in water sample	3
8	Determination of iron by thiocyanatecolorometry	3
	Determination of optimum dose of coagulants by Jar Test Apparatus.	3
10 7	To determine the turbidity of the given water sample	3
11 p	H metric estimation of acid by base	3
2 L	Determination of Biochemical oxygen demand	3
	Total	36

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

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		LESSON PLAN		
Contact Ho		Торіс	Teaching(*) Methodology	Remarks
(Cumulativ		Introduction to H.E	Black	
2 (1)	工	Debinition	board	
5(2)	I	Nature & Score do M. E)\	
1(3)	I	Demoted analysists.)1	
2 (4)	I	Lawot domand 8 its	11	
3(5)	I	Elosticits of demand, types, types of price elosticity.	11	
2 (61	I	Demand ASCESTING, Factor's governing demand the	11	
5(7)	I	Nethods to demand to cost	11	
1 (8)	I	Explanation.	11	3.3
2 (9)	T	Enplanation.	11	
3 (10)	I	Introduction to Production trunction, ISO (0518) Isomonts.	11	
2 (11)	II	MRTS, Least combination of in PUTS, Law of hetury		
5 (12)	II	Economics do scale,	11	
1 (13)	#	Costandysis, cost compts	11	
2 (14)	工	Fined VS Voriable 19849. Explict VS Emplict 19849	11	
3 (4)	亚	out or Pocket US Imputed worth))	
2 (11)	II	Entroduction to BEA, significance, similations	//	
5 (17)	II	retermination of BEP with orophical representation	11	
(18)	#	Simple publicing	1)	
- C19) !	止	simple pertrang	1)	

			I the roaution to warkets	Black	
1 1 ×	(21)	1#	Market st	Da 11	
5	(22)	皿	of roly & Nonopolistic	11	contact Hour
1	(23)	皿	Contestion.	11	Cocum
2	(24)	111	phice out put determines in case a pober convertition.	w .	13
30	25)	皿	phice out put dotermination incore or monopoly.	11	-
2 (21)	111	pricing concept.	11	
5 (3	27)	皿	Dibborent phicing strategis	. 11	
1 (2	-8)	世	Explanation.	11	6
2 (2)	9) :	拉	Introduction to management, Concept, notice II montainly Functions to management,	11	
3 (30		V	Fayor's scientific nonasenut		
2 (31)	1	I	mayo's hauthorne experiments	11	
5 (32) #	T	Maddowls theory A human	1)	
1 (33.) I	I	Douglas Mc ategor's these x and theory y))	
2 (34)	IN	- 1	terstors's two-Factors theors of motivation.	11	
3 (35)	I		instem approach to	11	-0-
2 (36)	IV	1	eadership styles.	1)	
2 (23)	IT	S	ocial responsibilities a	1)	
(38)	7	T	ntroduction to marketing.	1)	
L (39)	V	F	unction of marketing.		
3 (48)	V	1	uteting mink.	1)	
	*	-	oard / LCD / OHP / Other Method	1)	
			other Method		-

1		LESSON PLAN		
Contact Hour	Unit	Topic	Teaching(*) Methodology	Remark
(Cumulative)	No.	strategies bosed on product like were	Black board	
2 (41)	7		11	
5 (42)	1	explanation.		
1 (43)	1-4	Channels & distribution	. 11	
2 (44)	1	Digital marketing.	11	
3 (45)	-01	Entroduction to HRM; corrept of HRM.	11	
2 (46)	VI	HRD & Personnel managemond industrial relations.	11	
5 (47)	VI	HRM VS PMIR, Brain trunctions of HR manager	- 11	
1 (48)	AL	Manpower Planning, Rechuitment, selection	1)	
2 (49)	AL	training and development	11	
3 (50)	AL	unge and salary administration	11	
2 (51)	V	Promotion, Transter, seperation.	11	
5 (52)	TT	pentomance appraisal,	11	
(53)	-01	chicumic handling and weltore activities in	. 1)	
(54)	AL	Jest evaluation -S. menit ratific.	()	my
		*		

STRUCTURAL DESIGN LAB USING SOFTWARE TOOLS LESSON PLAN

AY: 2023-24

Branch: Civil Engineering

Section: A

Year and Semester: IV B. Tech I Semester

Course Code: 20CEL410

Faculty Name: G.Gowri Sankara Rao & Dr.G.Prasanna Kumar

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

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

STRUCTURAL DESIGN LAB USING SOFTWARE TOOLS LESSON PLAN

AY: 2023-24

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Branch: Civil Engineering

Year and Semester: IV B.Tech I Semester

Section: B

Course Code: 20CEL410

Faculty Name: B.Shanmuka Rao & 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		
12.	Total Contact Hours	36		

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Department of Civil Engineering
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		SUBJECT : PRESTRESSED CONCRETE	2023-20	+
A.Y 2	023-214	IV-1 (A)	SEM	1-1
CONTACT	UNIT NO		TEACHING (*) METHOLOGY	REMARKS
1	1	Introduction: theory and behavior basic concepts	PPT	
2	1	advantages and disadvantages	PPT	
3	1	materials required, high strength concrete-high strength steel	PPT	
4	1	systems and methods of prestressing	PPT	
5	1	pre tensioning and post tensioning of members Analysis of sections, stress concept	PPT Class	
7	1	strength concept, load balancing concept	Class	
8	1	Effect ofloading on the tensile stresses in tendons	Class	
9	1	Effect of tendon profile on deflections	Class	
10	2	Losses in pre stress: Types losses in pre tension and post tension members	Class	
11	2	loss due to elastic deformation	Class	
12	2	loss due to shrinkage	Class	
13	2	loss due creep of concrete	Class	
14	2	loss due to relaxation of stress in steel	Class	
15		loss due to anchorage slip	Class	
16		loss due to friction	Class	
17		total allowed losses for design	Class	
18		problems on losses of prestressing	Class	
19		problems on losses of prestressing	Class	
	-	Design for flexure: Flexural strength of pre	-	
20		tensioned concrete member	Class	
21	1	problems on flexure	Class	
22		time of flexural failure	Class	
23		fracture of steel and tension	Class	_
24	-	failure of under and over reinforced section	Class	
25	-	strain compatibility method	Class	
26		calculation of flexural strength as per IS: 1343 - 2012	Class	
27	3 1	problems	Class	

		Shear and Torsion: Shear and Torsional resistance of pre stressed concrete members	Class	
28	4		Class	
29	4	principal stresses	Class	
30	4	problems on principal stresses	Class	
31	4	time of shear cracks	Class	
32	4	web shear cracks	Class	
33	4	flexural cracks	Class	
34	4	Design of shear reinforcement as per IS: 1343 – 2012 shear and principal stresses due to torsion	Class	
35	4	problems on design Deflection: Deflection and design of anchorage	Class	
25	-	zone factors influencing deflections	Class	
36	5	short term deflections of uncracked members	Class	
37	5		Class	
38	5	problems on short term deflections prediction of long term deflections due to creep		
20	-	and shrinkage	Class	
39	5	problems on long term deflections	Class	
		check for serviceability limit states.	Class	
42	5	Determination of anchorage zone stresses in post-tensioned beams	Class	
		design of anchorage zone reinforcement	Class	
43	5	check for transfer bond length in pre-tensioned beams	Class	
44	5		Class	
45	5	magnel's method and problem	Class	
46	5	magnel's method and problem	Class	
47	5	guyon's method and problem		
48	5	guyon's method and problem	Class	
49	6	Composite sections: Composite beams and continuous beams	Class	
	6	analysis of composite beams	Class	
50			Class	
51	6	design of composite beams	Class	
52	6	Indeterminate Structures: methods of achieving continuity in continuous beams	Class	
53	6	analysis for secondary moments	Class	-
54	6	concordant cable	Class	S
55	6	linear transformation	Clas	s ,
56	6	problems on concordant cable	Clas	The second secon
57	6	problems on linear transformation	Clas	s
58	6	calculation of stresses	Head of	the Department of Civil Enginee
COLUMN TO SERVICE STATE OF THE PERSON NAMED IN COLUMN TO SERVICE STATE OF THE PERSON NAMED STATE OF THE PERSO	-	principles of design	AUTA	M. TEKKALI.

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Class: IV-I [Section: A]

B. TECH (2023-24)

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 1	Mosaic of dataset	5
	Total	60

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

в. тесн (2023-24)

B, TECH (2023-24)
Subject: Remote Sensing and Geographic Information System (20CEE411)

Intertive) No. Basics of Remote Sensing - Introduction BB & LCD)		Dana and Holl-Doulal	1	
It	15	18	Data - Spatial and non-Spatial	7	35
It It It It It It It It	2 8	5 8	Map projections	7	34
Internative No. Basics of Remote Sensing Introduction BB & LC	2	BB & I	Map projections	V	33
It Space born platforms Significance It Space born platforms Significance It Space born platforms Spatial Spat	2	BB & 1	Key components	V	32
I	0	BB & I	1	V	31
I	CI	BB & I	Unsupervised classification	Ħ	30
I	S	BB & I	Supervised classification	H	29
Inage enhancement Introduction Internation Introduction Internation Intern	G	BB & L	Image classification	Ш	28
I Space born platforms I Space born platforms I Spectral Resolution Spatial I Spectral Resolution Spatial I Spectral Resolution Spatial I Spectral Resolution I Space data characteristics I Band sequential I Band sequential I Band sequential I Band sequential I Bask LCD Bask LCD Band sequential Band LCD Band sequential Band LCD Band LCD Band LCD Band LCD Band LCD Band ScLCD Band interleaved by line Band LCD Band Interleaved by line Band LCD	G	80	Image enhancement	H	27
I Space born platforms BB & LCD	B	80	Image enhancement	I	26
I Spectral Resolution	9	BB & L		Ш	25
No. No. Basics of Remote Sensing - Introduction BB & LCD	8	BB & L		III	24
1	B	BB & L(Ш	23
1	D	BB & Lo		II	22
1 Basics of Remote Sensing - Introduction BB & LCD 1 Basics of Remote Sensing - Introduction BB & LCD 2 1 Components of remote sensing BB & LCD 3 1 Electromagnetic spectrum BB & LCD 4 1 Electromagnetic spectrum BB & LCD 5 1 EMR interaction with atmosphere BB & LCD 6 1 EMR interaction with atmosphere BB & LCD 7 1 EMR interaction with Earth Surface Materials BB & LCD 8 1 EMR interaction with Earth Surface Materials BB & LCD 9 1 Atmospheric Windows and its Significance. BB & LCD 10 Types of platforms - groundborne, airborne BB & LCD 11 Types and classification of sensors BB & LCD 12 Space born platforms BB & LCD 13 Space sor resolution - Spatial BB & LCD 14 Il Sensor resolution - Spatial BB & LCD 16 Il Radiometric Resolution BB & LCD 17 Temporal Resolution BB & LCD 18 Bad interleaved by pixel BB & LCD 19 Band interleaved by pixel BB & LCD 10 Band interleaved by pixel BB & LCD 11 Band interleaved by pixel BB & LCD 12 Band interleaved by pixel BB & LCD 13 Band interleaved by pixel BB & LCD 14 Band interleaved by pixel BB & LCD 15 Band interleaved by pixel BB & LCD 16 BB & LCD BB & LCD 17 Band interleaved by pixel BB & LCD 18 Band interleaved by pixel BB & LCD 19 Band interleaved by pixel BB & LCD 10 BB & LCD BB & LCD 11 Band interleaved by pixel BB & LCD 12 Band interleaved by pixel BB & LCD 13 Band interleaved by pixel BB & LCD 14 Band interleaved by pixel BB & LCD 15 BB & LCD 16 BB & LCD 17 Band interleaved by pixel BB & LCD 18 Band interleaved by pixel BB & LCD 19 Band interleaved by pixel BB & LCD 10 BB & LCD 11 Band interleaved by pixel BB & LCD 12 BB & LCD 13 Band interleaved by pixel BB & LCD 14 BB & LCD BB & LCD 15 BB & LCD 16 BB & LCD 17	D	80		II	21
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1 Basics of Remote Sensing - Introduction BB & LCD 1 Basics of Remote Sensing - Introduction BB & LCD 2 1 Components of remote sensing BB & LCD 3 1 Electromagnetic radiation BB & LCD 4 1 Electromagnetic spectrum BB & LCD 5 1 EMR interaction with atmosphere BB & LCD 6 1 EMR interaction with Earth Surface Materials BB & LCD 8 1 EMR interaction with Earth Surface Materials BB & LCD 9 1 Atmospheric Windows and its Significance. BB & LCD 10 II Types of platforms - groundborne, airborne BB & LCD 10 II Space born platforms BB & LCD 11 Types and classification of sensors BB & LCD 12 Sensor resolution - Spatial BB & LCD 13 Sensor resolution - Spatial BB & LCD 14 Radiometric Resolution BB & LCD 15 BB & LCD BB & LCD 16 BB & LCD BB & LCD 17 Spectral Resolution BB & LCD 18 Sensor Resolution BB & LCD 19 BB & LCD BB & LCD 10 BB & LCD BB & LCD 11 Spectral Resolution BB & LCD 12 BB & LCD BB & LCD 13 BB & LCD BB & LCD 14 BB & LCD BB & LCD 15 BB & LCD BB & LCD 16 BB & LCD BB & LCD 17 BB & LCD BB & LCD 18 BB & LCD BB & LCD 19 BB & LCD BB & LCD 10 BB & LCD BB & LCD 11 BB & LCD BB & LCD 12 BB & LCD BB & LCD 13 BB & LCD BB & LCD 14 BB & LCD BB & LCD 15 BB & LCD BB & LCD 16 BB & LCD BB & LCD 17 BB & LCD BB & LCD 18 BB & LCD BB & LCD 19 BB & LCD BB & LCD 10 BB & LCD BB & LCD 11 BB & BB & LCD BB & LCD 12 BB & LCD BB & LCD 13 BB & LCD BB & LCD 14 BB & LCD BB & LCD 15 BB & LCD BB & LCD 16 BB & LCD BB & LCD 17 BB & LCD BB & LCD 18 BB & BB & LCD 19 BB & LCD BB & LCD 10 BB & LCD BB & LCD 11 BB & BB & BB & BB & BB & BB & BB	D	BB & LC		II	19
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		Flood zone delineation and mapping.	Urban applications	Geomorphology	V	V Itulic		3IS Application	Overlay using a decision table.	Conditional expressions	Comparison and logical operators	Arithmetic operators	y function - vec	Spatial Data Analysis: Introduction	Raster versus vector.	Vector data models	data models	
		and mapping.						RS & GIS Applications: Land use and Land	on table.	ns	al operators		Overlay function - vector overlay operations	Introduction	Latroduction			
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50	,											1										_								Unit No.	AN
Supervised Classification		Introduction to image Classification	Non Linear Enhancement Techniques	Image Enhancement Techniques- Linear	Digital Image Processing	Elements of Visual Interpretation	Introduction to Image Analysis	Image Data Formats-BIL, BIP and BSQ	Image data Characteristics	Resolutions Temporal	resolution	Passive Sensors	Active Sensors	Sensors-types-Classification	Space Borne Platforms	Ground Borne & Air Borne	Introduction to Platforms	Atmospheric Windows & Its significance	EMR interaction with Soil & Water	EMR interaction with Vegetation	EMR interaction with Earth Surface Materials	Scattering and Absorption	EMR interaction with Atmosphere	Electro Magnetic Spectrum	Wave Theory	Wave Theory	Electro Magnetic Radiation-Basic	Components of Remote Sensing	Introduction to Remote Sensing	Topic	LESSON PLAN for AR-20 REMOTE SENSING and GIS, 2023-24, 17/1, CIVII-D Dr. B. VISWESWARA REDDY
BB & LCD	עע	BB	BB & LCD	BB & LCD	BB	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD		RR & LCD	BB & LCD	BB	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD	BB & LCD	Seminar	Seminar	BB & Student	BB & Student	BB & LCD	BB & Interactive	Methodology	Y 7 2023-24, 17/1, C
								Unit-2 will be completed										completed	TILL I will be											Nelliaino	Damarke

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2	Introduction to RS & GIS applications Land use/Land cover applications Agricultural applications Forest applications Geoic_gical applications Geomorphological applications Urban applications Flood Zone Delineation	Map Projections Projections Based on Purpose Data Spatial Data Ingular Inputs Raster Data Models Vector Data Models Vector Data Models Raster Vs Vector Data Introduction to Overlay analysis Overlay function Vector Overlay Operations Raster Overlay Operations Comparison & Logical Operators Conditional Expressions Overlay using Decision Table	Topic Introduction to GIS Key Components
Mead of the Altam.	BB & LCD	BB & LCD	Teaching Methodology BB BB BB
Capariment of Civil Engineening AlTAM, TEKKALI	Unit-6 will be completed	Unit-4 will be completed Unit-5 will be	Remark
3		12/2/12/-1/28	Const. Coll. Land Co.

Lab Name: Geographic Information System

Branch: Civil Engineering

Course Code: 20CEL411

Semes

Year:2023-2024 Semester: 4-1st

Faculty Name: Dr. B. Visweswara Reddy

71	5 =	10	9	000	7	6	5	4	3	2		-	S.No
Total Contact Hour	INTO Salte of a dataset	Mossis of a dataset	Database creation for Koad Network analysis	Calculation of volumes for Hills and Tanks	Digital Elevation Model	Layout Preparation	Creation of Thematic maps	Study of features estimation	Topology of digitized of features	Digitization of Features from the Toposheet	Projection and Subset)	Preprocess of image / toposheet (which includes Georeterencing,	Lab Lesson Schedule
000	26	20	3	3	3	3	3	3	3	3	3	,	No. of Hours

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

	3	UBJECT : PRESTRESSED		
A.Y 202		IV-I	SEM-I	
CONTACT NO	UNIT NO	TOPIC	TEACHING (*) METHOLOGY	REMARKS
1	1	Introduction: theory and behavior basic concepts	PPT	
2	1	advantages and disadvantages	PPT	
3	1	materials required, high strength concrete-high strength steel	PPT	
4	1	systems and methods of prestressing	PPT	
5	1	pre tensioning and post tensioning of members	PPT	
6	1	Analysis of sections, stress concept	Class	
7	1	strength concept, load balancing concept	Class	
8	1	Effect ofloading on the tensile stresses in tendons	Class	
9	1	Effect of tendon profile on deflections	Class	
		Losses in pre stress: Types losses in pre tension and post		
10	2	tension members	Class	
11	2	loss due to elastic deformation	Class	
12	2	loss due to shrinkage	Class	
13	2	loss due creep of concrete	Class	
14	2	loss due to relaxation of stress in steel	Class	
15	2	loss due to anchorage slip	Class	
16	2	loss due to friction	Class	
17	2	total allowed losses for design	Class	
18	2	problems on losses of prestressing	Class	
19	2	problems on losses of	Class	

		prestressing		
20	3	Design for flexure: Flexural strength of pre tensioned concrete member	Class	
21	3	problems on flexure	Class	
22	3	time of flexural failure	Class	
23	3	fracture of steel and tension	Class	
24	3	failure of under and over reinforced section	Class	
25	3	strain compatibility method	Class	
26	3	calculation of flexural strength as per IS: 1343 – 2012	Class	
27	3	problems	Class	
28	4	Shear and Torsion: Shear and Torsional resistance of pre stressed concrete members	Class	
29	4	principal stresses	Class	
30	4	problems on principal stresses	Class	
31	4	time of shear cracks	Class	
32	4	web shear cracks	Class	
33	4	flexural cracks	Class	
34	4	Design of shear reinforcement as per IS: 1343 – 2012 shear and principal stresses due to torsion	Class	
35	4	problems on design	Class	
36	5	Deflection: Deflection and design of anchorage zone factors influencing deflections	Class	
37	5	short term deflections of uncracked members	Class	
38	5	problems on short term deflections	Class	
		prediction of long term deflections due to creep and	Class	
39	5	shrinkage		

40	5	problems on long term deflections	
41	5	check for serviceability limit states.	Class
42	5	Determination of anchorage zone stresses in post-tensioned beams	Class
43	5	design of anchorage zone reinforcement	Class
44	5	check for transfer bond length in pre-tensioned beams	Class
45	5	magnel's method and problem	Class
46	5	magnel's method and problem	Class
47	5	guyon's method and problem	Class
48	5	guyon's method and problem	Class
49	6	Composite sections: Composite beams and continuous beams	Class
50	6	analysis of composite beams	Class
51	6	design of composite beams	Class
52	6	Indeterminate Structures: methods of achieving continuity in continuous beams	Class
53	6	analysis for secondary moments	Class
54	6	concordant cable	Class
55	6	linear transformation	Class
56	6	problems on concordant cable	Class
57	6	problems on linear transformation	Class
58	6	calculation of stresses	Class
59	6	principles of design	Class

LESSON PLAN FOR QUANTITY SURVEYING AND VALUATION

france.	LESSOI	PLAN FOR QUANTITY SURVEYING AND		
1	1	General Items of Work in Building: Standard Units	CR / BB	
2	1	Principles of working out quantities for detailed estimate	CR/BB	
3	1	Principles of working out quantities for Abstract estimate	CR/BB/PPT	
4	1	Types of Estimations	CR / BB / PPT	
5	1	Example Problems on Preliminary estimate	CR / BB / PPT	
6	I	Example Problems on Rough estimate	CR / BB / PPT	
7	I	Example Problems on Total estimate	CR / BB / PPT	
8	I	Detailed Estimates of Buildings	CR/BB/PPT	Unit-1 will be completed
9	I	Problems on Detailed Estimates of Single Roomed Building	CR / BB	
10	I	Problems on Detailed Estimates of Single Roomed Building	CR / BB	
11	I	Problems on Detailed Estimates of Double Roomed Building	CR / BB	
12	1	Problems on Detailed Estimates of Double Roomed Building	CR / BB	
13	I	Problems on Detailed Estimates of Residential Building	CR / BB	
14	I	Problems on Detailed Estimates of Residential Building with Verandah	CR / BB	
15	I	Problems on Detailed Estimates of Residential Building with Verandah	CR/BB	Unit-1 will be completed
16	II	Earthwork for Roads and canals: Lead and Lift - Type of methods	cr/BB	
17	II	Mid Sectional Area Method	CR ! BB / PP	Т
18	II	Problems on Mid sectional Area method	CR / BB / PP	Т
19	II	Mean Sectional Area Method	CR / BB	
20	11	Problems on Mean sectional Area method	CR / BB	Unit-2 will completed
21	II	Simpson's rule method	CR/BB/P	PT

LESSON PLAN FOR QUANTITY SURVEYING AND VALUATION

		ZOANTITI SURVETING AND VI		
22	п	Problems on Simpson's rule method	CR / BB / PPT	
23	П	Practicing and Solving the Problems	CR/BB/PPT	
24	11	Problems solving	CR / BB / PPT	
25	11	Problems solving	CR / BB / PPT	Unit-2 will be completed
26	III	Rate Analysis: Standard Specifications for different items of building construction	CR / BB / PPT	
27	Ш	Workingout data for Brick Masonry	CR / BB / PPT	
28	111	Problems on brick Masonry	CR/BB/PPT	
29	111	Workingout data forR.R. Masonry	CR / BB / PPT	
30	III	Problems on R.R. Masonry	CR / BB / PPT	
31	III	Workingout data for Plastering	CR / BB / PPT	
32	III	Problems on Plastering	CR / BB / PP7	
33	III	Workingout data for Plain Concrete	CR / BB / PP	Г
34	III	Problems on Plain Concrete	CR / BB / PP	
35	III	Workingout data for R.C.C. and Distempering	CR/BB/PI	Assignmen
36	III	Problems on R.C.C. and Distempering	CR / BB / P	PT Unit-3 will completed
37	IV	Reinforcement Bar Bending Schedule: Footing, pedestal	CR/BB/F	PT
38	IV	Problems on Column	CR/BB/	PPT
39	IV	Problems on Plinth Beam	CR/BB/	PPT
40	IV	Problems on Plinth Beam	CR / BB /	PPT
	IV	Problems on Slab Beam and Slab	CR / BB	/ PPT
41	1	Bar requirement schedules	CR / BB	/ PPT

LESSON PL	AN FOR On	
	AN FOR QUANTITY SUBVEY	

13	IV	Problem solving on bar bending Schedule	CR & PPT	
44	IV	Problem solving on bar bending Schedule		Unit-4 will be
45	V	Contracts - Types of contracts & Tenders	CR	completed
46	V	tender Schedule	CR	
47	V	BIM - Basics of BIM, Advantages and Disadvantages	CR	
48		of Bild	CR & PPT	Unit-5 will be
48	V	Objects of BIM	CR	completed
49	VI	Valuation - Valuation of Buildings - Depreciation	CR & PPT	
50	VI	Types of depreciation of Industrial building	CR	
51	VI	Types of depreciation of Commercial building	CR & PPT	
52	VI	Problem solving on Depreciation of Commercial buildings	CR & Stude Seminar	Assignment
53	VI	Types of depreciation of Private building	CR & PP	Exams
54	VI	Problem solving on Depreciation of Private building	cr & PI	Company
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