

LESSION PLANS FOR

A.Y: 2022-23

SEM-I

		LESSON PLAN_FMHM (2022-2	(3)	
Faculty	Dr. M	I. Suresh		
CONTACT	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	1000000
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	1
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	1.33
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	0 9000
29	4	Types of flows	class	
0&31	4	Types of channels	PPT	0.48
32	4	Velocity distribution	PPT	
33	4	Energy and momentum correction factors	PPT	
1&35	4	Formula for uniform flow	class	
36	4	Non-uniform flow	class	
37	4	Surface profiles	PPT	
38	4	Energy dissipation	class	
39 :	5	Hydrodynamic forces of jets	class	
&41	5	stream and velocity functions	class	

42	1 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	class
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	PPT
53	6	Cavitation	class

Lab Name: Fluid Mechanics And Hydraulic Engineering Lab

Branch:Civil

Year:2022-2023

Sec-B

Semester:1st

Course Code: 20CEL204

Faculty Name: Krupasindhu Biswai

	Lab Lesson Schedule	No. of Hours
S.No		3
1	Calibration of Venturimeter	3
2	Calibration of Orifice meter Determination of Coefficient of discharge for a small orifice by a	3
3	test hand method	3
4	Determination of Coefficient of discharge for an external mouth	3
	piece by constant head method.	3
5	Calibration of contracted Trapezoidal Notch Determination of Coefficient of loss of head in a sudden contraction	3
6	Determination of Coefficient of loss of head in a sudden communication	
	and friction factor.	3
7	Impact of jet on vanes.	3
8	Performance test on Pelton wheel turbine	3
9	Efficiency test on centrifugal pump.	3
10	Efficiency test on reciprocating pump	3
11	Calibration of Triangular Notch	
		33
	Total Contact Hour	33

Head of the Department

Contact Hour (Cumulative)	Unit No.		Teaching Methodology	Remarks
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	
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	Chalk & Talk	
		combination of these loads	Charles and the	

OF MATERIALS, 2022-23, II/I, Civil-A, Dr.

			N for STRENGTH OF MATERIAL SOWJANYA VANI	Teaching		LESSU
L	ESSON		Topic	Methodology	Reman	Contact Hour dative)
Con Ho (Cumul	ur lative)	Unit No.	Point of contra flexure – Relation between S.F., B.M and rate of loading between of a beam	Chalk & Talk	Unit-2 will be completed	Containe)
13			at a section of a beam	Chalk & Talk		
14		III	Assumptions - Deliver	Chalk & Talk		
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			./.
17		III	Determination bending stresses – section modulus of I, T and Channel section	Chalk & Talk		
18			Derivation of formula – shear stress distribution across various beam sections like rectangular	Chalk & Talk	9	
19		III	shear stress distribution across various beam sections like circular, triangular	Chalk & Talk	1	
20		ŀ	shear stress distribution across various peam sections like I, T sections	Chalk & Talk	Unit-3 will be completed 1st Mid Exams	
21		d D lii	Bending into a circular arc – slope, effection and radius of curvature – ifferential equation for the elastic ne of a beam – Double tegration, Macaulay's method	Chalk & Talk		•
22	IV	for beautiful U.I	r cantilever and simply supported ams subjected to point loads and D.L.	Chalk & Talk		
23	IV	bea U.E.		Chalk & Talk		
24	IV	101	ermination of slope and deflection cantilever and simply supported ns subjected to point loads and	Chalk & Talk		

-		•	1
b.	1		
Da	1	1	-
		is	1
			/
/		1	

19)

		U.D.L or STRENGTH OF MATERIALS, 2022- SOWJANYA VANI	23 11	/I, Civil-A. I	Dr. V.	
- acon	DIANE	or STRENGTH OF MATERIALS, 2022-	23, 2		Rema	-le
LESSON	PLAN	SOWJANYA VANI	Te	aching	Rema	rks
	Unit	Topic	Met	hodology		
Contact	No.					+
Hour	140.	. I destion	Cha	ilk & Talk		
Cumulative)	137	Determination of slope and deflection				
25	IV	Determination of slope and described for cantilever and simply supported for cantilever and to point loads and				
		for cantilever and simply supposed beams subjected to point loads and				
		U.D.L		7 7	+	-
			Ch	alk & Talk		
		Moment area method (Mohr's		Acceptance of the land	+-	-
26	IV	Moment area man	C	halk & Talk	-	
		theorems) Determination of slope and deflection Determination and simply supported				
27	IV	Determination of slope and design for cantilever and simply supported for cantilever and point loads and				
		for cantilever and simply stepped beams subjected to point loads and				
		beams subjected to r	+	Chalk & Talk		
		U.D.L of slope and deflection		maik &		
28	IV	U.D.L Determination of slope and deflection for cantilever and simply supported to point loads and	1			
20		for cantilever and simply steps beams subjected to point loads and	d			
		beams subjected to P		11 0 Tal	k	
		U.D.L and deflection	n	Chalk & Tal	IN	
20	IV	Determination of slope and deflection for cantilever and simply supported to point loads are	d			
29	1	for cantilever and simply supply	nd			
		for cantilever and simply bears subjected to point loads are				Unit-4 will
		U.D.L and deflection	on	Chalk & Ta	alk	be completed
			24			Be comp
30	IV	Determination of slope and support for cantilever and simply support loads a	eu			
		for cantilever and simply deprivation beams subjected to point loads a	na			
		beams subjected	-	Chalk & 7	Calk	
		U.D.L Services - Assumption	ns	Chaik &	and	
31	V	U.D.L Theory of pure torsion – Assumption				
31		1 in the theoliv ul pui				
			ar	Chalk &	Talk	
	V	- moment of resistance	aı		-	
32	,	· - duluc		Chalk &	Talk	
		- moment of resistance - 10	lar	Chair		
33	1	Torsion moment		1 0	T-11-	
		section modulus		Chalk &	z Taik	
34	1	Power transmitted by shafts		Chalk &	& Talk	
	1	- to amitted by slidito	mod.	Chalk &	& Talk	
35		- Lection - Stresses on all men	nea	Cincin		
36		of a har under axial loading	6		0 75 11	-20
		1 stracces - Notitial and	- 4	Chalk	& Tall	K
37	1	Compound stresses - Normal and	nlan	e		
31		tangential stresses on an inclined	Pian			
		Combiovial stresses			Q. Ta	114
		1 stronger - Normal and	d	Chalk	& Ta	AL.
38		tangential stresses on an inclined	plar	ne	-	
	19-10-10-10-10-10-10-10-10-10-10-10-10-10-	tangential stresses on an inclined	Pres			Mary Mary Control

LESSON	PLAN	N for STRENGTH OF MATERIALS, 202 SOWJANYA VANI	Teaching	Remarks
Contact Hour	Unit No.	Topic	Methodology	
(Cumulative) 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	
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	
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	1999
49	VI	Secant formula – Empirical formulae	Chalk & Talk	
50	VI	Straight line formula	Chalk & Talk	Unit-6 will be complete

U.J. van

A.Y 2022

CONTACT

		SUBJECT : EG (B)	SEM-I	
A.Y 2022-23		11-1 (B)	TEACHING (*) METHOLOGY	REMARKS
		TOPIC	Class	
1	1	Branches of Geology useful to civil engineering	Class	
2	1	engineering projects	Class	
3	1	Mineralogy introduction	PPT	
4	1	Definition of Mineral and crystal	PPT	
5	1	minerals	PPT	
6	1	minerals	Class	
7	1	Group	Class	
	1	Olivine, Calcite, Bauxite	Class	
9	1	Kyanite and Gypsum	Class	
10	2	Petrology introduction	PPT	
11	2	Geological classification of Rocks	PPT	
12	2	Dykes and Sills	PPT	
13	2	Structures and textures	PPT	
14	2	Structures and textures	Class	
15	2	Granite, Basalt	Class	
16	2	Dolerite, Gabbro, Sand stone	Class	
17	2	Shale, Limestone slate, Gneiss		
	2	Schist, Quartzite	Class	
10	2	Marble, and Khondalite	Class	
19		Geological Structures	Class	
20	3	Strike and Dip	Clas	S
21	3	Classification mode of origin	Clas	s
22	3	Classification induced or engineering of Folds	PP.	Т
23	3	Engineering consideration of Folds	Cla	ss
24	3	Types of folds along with sketches	PF	
25	3	Engineering consideration of Faults		
26	3	Types of faults along with sketches		ass
27	3	Engineering consideration of joints		PT
28	3	Types of joints along with sketches	C	ass

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AN AUTONOMOUS INSTITUTION) B. TECH (2022-23)

Hours

id.

d

ytch.

m.

Civil

Class: II-I [Section: A]

23, II/I, Civil-A.

Teaching

& Talk

Talk

		r tiler	Class	
729	1 3	Engineering consideration of unconformities	Class	
30	3	Definition of Rock weathering	Class	
31	3	consideration of Rock Weathering	PPT	
32	3		PPT	
33	3	important clay minerals	Class	
34	3	Geological classification of soils	Class	
35	3	Types of Indian Soils	Class	
36	4	Hydro Geology introduction	PPT	
37	4	Aquifers, Aquifuge		
38	4	Aquiclude and Aquitards	PPT	
39	4	Geological controls of Groundwater Movement	PPT	
40	4	cone of depression	PPT	
41	4	Groundwater Exploration Techniques	Class	
42	5	Geology of Dams and Tunnels	Class	
43	5	Types and purpose of Dams	Class	
44	5	Dam site	Class	
45	5	Analysis of Dam failures in the past	Class	
46	5	Purpose, effects and lining of tunnels	Class	
47	5	Influence of Geology for successful Tunnelling	Class	
18	6	Geological Hazards	Class	
19	6	Earthquakes-Causes and effects	Class	
0	6	Richter scale, Seismic belts	Class	
1	6	Seismic zones of India	Class	
2	6	structures	Class	Sec.
3	6	Land Slides and its Causes, effects	Class	
1	6	methods of mitigating measures	Class	

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

Class: II-I [Section: A]

B. TECH (2022-23)

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

Faculty Name: Dr. Sanjay Kumar Ray

	Name of the Experiment	Hours
S.Ne		3
1	Introduction to Fluid Mechanics and Hydraulic Machines	
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	3
	method.	
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

Sign of Faculty

cum hr Combination Composition of Stones Colass Cola			SUBJECT : CM&CT		
cum hr UNIT NO			Faculty name: m sai babu	SEM-I	
1		UNIT	The second secon	(*) METHOLOG	REMA RKS
1 classification of stones – stone quarrying class 1 precautions in blasting, dressing of stone, 2 class 2 class 3 1 precautions in blasting, dressing of stone, 4 1 composition of good brick earth, 5 1 various methods of manufacturing of bricks 6 1 Characteristics of good brick 7 1 Classification of various types of woods used in buildings 8 1 Defects in timber. 9 1 Alternative materials for wood and Aggregates 10 1 Classification, properties and selection criteria class 11 2 Intoductions to Cement-Types of cement 12 2 Properties, Uses of cement 13 2 Chemical and Mineral admixtures 14 2 Acceleration,Retarders, Plasticizers, Water proofers, 15 2 Fly ash, Silica fume. Ground Granulated 16 2 Blast Furnace slag(GGBS) and Makaoline 17 2 Effects on concrete properties. 18 3 Intoduction to Fresh concrete and Workability 19 2 Effects on concrete properties. 20 3 Factors affecting workability 21 3 Setting times of concrete – Effect of time and temperature 22 class 23 Segregation & bleeding 24 Mixing and vibration of concrete 25 class 26 class 27 Class class 28 class 29 class 20 class 20 class 21 class 22 class 23 Steps in manufacture of concrete 24 Class 25 class 26 class 27 class 28 class 29 class 20 class 20 class 21 class 22 class 23 class 24 class 25 class 26 class 27 class 28 class 29 class 20 class 21 class 22 class 23 class 24 class 25 class 26 class 27 class 28 class 29 class 20 class 20 class 21 class 22 class 23 class 24 class 25 class 26 class 27 class 28 class 29 class 20 class 20 class 21 class 22 class 23 class 24 class 25 class 26 class 27 class 28 class 29 class 20 class 20 class 21 class 21 class 22 class 23 class 24 class 25 class 26 class 27 class 28 class 29 class 20 class 21 class 22 class 23 class 24 class 25 class 26 class 26 class 27 class 28 class 29 class 20 class 21 class	Cum in	NO		class	
1 precautions in blasting, dressing of stone, 1 composition of good brick earth, 5 1 various methods of manufacturing of bricks 6 1 Characteristics of good brick 7 1 Classification of various types of woods used in buildings 8 1 Defects in timber. 9 1 Alternative materials for wood and Aggregates 10 1 Classification, properties and selection criteria 11 2 Intoductions to Cement-Types of cement 12 2 Properties, Uses of cement 13 2 Chemical and Mineral admixtures 14 2 Acceleration,Retarders, Plasticizers, Water proofers, 15 2 Fly ash, Silica fume. Ground Granulated 16 2 Blast Furnace slag(GGBS) and Makaoline 17 2 Effects on concrete properties. 18 3 Intoduction to Fresh concrete and Workability 19 3 Setting times of concrete — Effect of time and temperature 20 3 Segregation & bleeding 21 3 Mixing and vibration of concrete 22 3 Quality of mixing water. 23 Class 24 Water / Cement ratio — Abram's Law — Gelspace ratio 26 Class 27 Vature of strength of concrete — Maturity concepts 28 Vature of strength of concrete — Maturity concepts 29 PPT 20 Class 20 Class 21 Properties, Uses of cement 21 Class 22 Properties, Uses of cement 23 Class 24 Vater / Cement ratio — Abram's Law — Gelspace ratio 24 Nature of strength of concrete — Maturity concepts	1	1		Class	
1 composition of good brick earth, 1 various methods of manufacturing of bricks 1 various methods of manufacturing of bricks 1 Characteristics of good brick 2 class 2 class 3 l Defects in timber. 9 l Alternative materials for wood and Aggregates 10 l Classification, properties and selection criteria 2 lntoductions to Cement-Types of cement 2 Properties, Uses of cement 3 Chemical and Mineral admixtures 4 PPT 5 ly ash, Silica fume. Ground Granulated 6 PPT 7 leffects on concrete properties. 8 lntoduction to Fresh concrete and Workability 9 lass reconstruction of workability by different tests 9 ppt 9 lass reconstruction of concrete class 10 long and meanufacture of concrete class 11 class 12 lntoduction to Fresh concrete and Workability class 13 lntoduction to Fresh concrete and Workability 14 lntoduction to Fresh concrete class 15 lntoduction to Fresh concrete and Workability 16 lntoduction to Fresh concrete and Workability 17 lntoduction to Fresh concrete and Workability 18 lntoduction to Fresh concrete and Workability 19 lntoduction to Fresh concrete and Workability 20 lntoduction to Fresh concrete and Workability 3 lntoduction to Fresh concrete and Workability 4 lntoduction to foconcrete class 10 lntoduction to foconcrete class 11 lntoduction to foconcrete class 12 lntoduction to foconcrete class 13 lntoduction to foconcrete class 14 lntroduction to hardend concrete 15 lntroduction to hardend concrete class 16 lntroduction to hardend concrete class 17 lntroduction to hardend concrete class 18 lntroduction to hardend concrete class 19 lntroduction to hardend concrete class 20 lntroduction to hardend concrete class 21 lntroduction to hardend concrete class 22 lntroduction to hardend concrete class 23 lntroduction to hardend concrete class 24 lntroduction to hardend concrete class	2 1		classification of stones – stone quarrying	class	referred to
various methods of manufacturing of bricks Class	3	1	precautions in blasting, dressing of stone,	class	
class 1	4	1	composition of good brick earth,		
Characteristics of good brick Classification of various types of woods used in buildings Class	5				
1 Defects in timber. 9 1 Alternative materials for wood and Aggregates 10 1 Classification, properties and selection criteria 11 2 Intoductions to Cement-Types of cement 12 2 Properties, Uses of cement 13 2 Chemical and Mineral admixtures 14 2 Acceleration, Retarders, Plasticizers, Water proofers, 15 2 Fly ash, Silica fume. Ground Granulated 16 2 Blast Furnace slag(GGBS) and Makaoline 17 2 Effects on concrete properties. 18 3 Intoduction to Fresh concrete and Workability 19 3 Factors affecting workability 20 3 Measurement of workability by different tests 3 Setting times of concrete – Effect of time and temperature 3 Setting times of concrete 4 Mixing and vibration of concrete 4 Introduction to hardend concrete 4 Water / Cement ratio – Abram's Law – Gelspace ratio 10 1 Class class 11 Class class 12 Class class 13 Class 14 Nature of strength of concrete – Maturity concerts 15 Class 16 Class 17 Class 18 Class 19 Class 19 Class 10 1 Class class 10 2 Properties, Uses of cement 10 2 Class 11 2 Properties, Uses of cement 12 2 Properties, Uses of cement 13 2 Chemical and Mineral admixtures 14 Popt 15 2 Fly ash, Silica fume. Ground Granulated 16 PPT 16 2 Blast Furnace slag(GGBS) and Makaoline 17 2 Effects on concrete properties. 18 3 Introduction to Fresh concrete and Workability 19 Class 10 3 Factors affecting workability 10 3 Slumpcone, vee bee, flowtest 20 3 Setting times of concrete — Effect of time and temperature 21 class 22 Chemical and Mineral admixtures 22 Properties, Uses of cement 23 Setting times of concrete — Effect of time and temperature 24 class 25 Class 26 Class 27 Class 28 Class 29 Class 20 Class 20 Class 20 Class 21 Class 22 Properties, Uses of cement 21 Class 22 Properties, Uses of cement 23 Class 24 Introduction to hardend concrete 24 Water / Cement ratio — Abram's Law — Gelspace ratio 26 Class 27 Class 28 Class 29 Class 20 Class 20 Class 20 Class 21 Class 21 Class 22 Chemical and Minral admixtures 22 Class 23 Class 24 Cla	6	1	Characteristics of good brick		
8 1 Defects in timber. 9 1 Alternative materials for wood and Aggregates class 10 1 Classification, properties and selection criteria class 11 2 Intoductions to Cement-Types of cement class 11 2 Properties, Uses of cement class 12 2 Properties, Uses of cement class 13 2 Chemical and Mineral admixtures ppt 14 2 Acceleration,Retarders, Plasticizers, Water proofers, ppt 15 2 Fly ash, Silica fume. Ground Granulated ppt 16 2 Blast Furnace slag(GGBS) and Makaoline ppt 17 2 Effects on concrete properties. class 18 3 Intoduction to Fresh concrete and Workability class 19 3 Factors affecting workability class 10 3 Measurement of workability by different tests ppt 10 3 Slumpcone, vee bee, flowtest ppt 11 3 Setting times of concrete – Effect of time and temperature class 12 3 Segregation & Defending ppt 13 Mixing and vibration of concrete class 14 Introduction to hardend concrete class 15 Introduction to hardend concrete class 16 Vater / Cement ratio – Abram's Law – Gelspace ratio class 17 Vature of strength of concrete – Maturity concerts	7	1	Classification of various types of woods used in buildings		
10 1 Classification, properties and selection criteria class 11 2 Intoductions to Cement-Types of cement class 12 2 Properties, Uses of cement class 13 2 Chemical and Mineral admixtures ppt 14 2 Acceleration, Retarders, Plasticizers, Water proofers, ppt 15 2 Fly ash, Silica fume. Ground Granulated pPT 16 2 Blast Furnace slag(GGBS) and Makaoline pPT 17 2 Effects on concrete properties. class 18 3 Intoduction to Fresh concrete and Workability class 19 3 Factors affecting workability class 10 3 Measurement of workability by different tests ppt 10 3 Slumpcone, vee bee, flowtest ppt 11 3 Setting times of concrete – Effect of time and temperature class 12 3 Segregation & bleeding ppt 13 Mixing and vibration of concrete class 14 Introduction to hardend concrete class 15 Introduction to hardend concrete class 16 Introduction to hardend concrete class 17 Class 18 Class class 19 Class class 19 Class class 20 Class class 21 Class class 22 Chemical and Mineral admixtures class class 23 Class class class class 24 Introduction to hardend concrete class 25 Class class 26 Class class 27 Chemical and Mineral admixtures class class 27 Chemical and Mineral admixtures class class class 28 Class class class class class class class 29 Class cla	8				
Intoductions to Cement-Types of cement Class	9			9 7 7 7	
Properties, Uses of cement class Chemical and Mineral admixtures ppt Acceleration, Retarders, Plasticizers, Water proofers, ppt Fly ash, Silica fume. Ground Granulated PPT Blast Furnace slag(GGBS) and Makaoline PPT Effects on concrete properties. class Intoduction to Fresh concrete and Workability class Measurement of workability by different tests ppt Setting times of concrete – Effect of time and temperature class Segregation & bleeding ppt Mixing and vibration of concrete class Quality of mixing water. class Hitroduction to hardend concrete class Water / Cement ratio – Abram's Law – Gelspace ratio class Nature of strength of concrete – Maturity concrete Mature of strength of concrete – Maturity concrete	10	1	Classification, properties and selection criteria	class	
2 Properties, Uses of cement Class 3 2 Chemical and Mineral admixtures ppt 4 2 Acceleration, Retarders, Plasticizers, Water proofers, ppt 5 2 Fly ash, Silica fume. Ground Granulated PPT 6 2 Blast Furnace slag(GGBS) and Makaoline PPT 7 2 Effects on concrete properties. class 8 3 Intoduction to Fresh concrete and Workability class 9 3 Factors affecting workability class 1 3 Slumpcone, vee bee, flowtest ppt 3 Setting times of concrete – Effect of time and temperature class 3 Segregation & bleeding ppt 3 Mixing and vibration of concrete class 3 Steps in manufacture of concrete class 4 Mature of strength of concrete Maturity concrete 4 Nature of strength of concrete Maturity concrete 5 Mature of strength of concrete Maturity concrete 6 2 Ppt PPT 7 2 Effects on concrete Maturity concrete 6 2 Blast Furnace slag(GGBS) and Makaoline PPT 7 2 Effects on concrete class 8 3 Intoduction to hardend concrete class 9 3 Steps in manufacture of concrete class 9 4 Nature of strength of concrete Maturity concrete 10 Mature of strength of concrete Maturity concrete 11 Mature of strength of concrete Maturity concrete 12 Mature of strength of concrete Maturity concrete 13 Mature of strength of concrete Maturity concrete 14 Mature of strength of concrete Maturity concrete 15 Mature of strength of concrete Maturity concrete 16 Mature of strength of concrete Maturity concrete 17 Mature of strength of concrete Maturity concrete 18 Mature of strength of concrete Matu	11	2	Intoductions to Cement-Types of cement	Class	
Chemical and Mineral admixtures Acceleration, Retarders, Plasticizers, Water proofers, PPT Fly ash, Silica fume. Ground Granulated PPT Blast Furnace slag(GGBS) and Makaoline PPT Effects on concrete properties. Introduction to Fresh concrete and Workability Class Setting times of concrete – Effect of time and temperature Setting times of concrete Amixing and vibration of concrete Quality of mixing water. Mature of strength of concrete – Maturity concrete		2 I	Properties, Uses of cement	class	
Acceleration, Retarders, Plasticizers, Water proofers, Fly ash, Silica fume. Ground Granulated PPT Blast Furnace slag(GGBS) and Makaoline PPT Effects on concrete properties. Class Intoduction to Fresh concrete and Workability Class Segregation workability Setting times of concrete – Effect of time and temperature Segregation & Bleeding Mixing and vibration of concrete Steps in manufacture of concrete Quality of mixing water. Under the desired of the part o	3		Chemical and Mineral admixtures	ppt	
Fly ash, Silica fume. Ground Granulated PPT Blast Furnace slag(GGBS) and Makaoline PPT Effects on concrete properties. Intoduction to Fresh concrete and Workability Class A Factors affecting workability Slumpcone, vee bee, flowtest Setting times of concrete – Effect of time and temperature Setting times of concrete – Effect of time and temperature Mixing and vibration of concrete Steps in manufacture of concrete Quality of mixing water. Uniformly applied to the properties of class Mature of strength of concrete – Maturity concepts Mature of strength of concrete – Maturity concepts			Acceleration, Retarders, Plasticizers, Water proofers,	ppt	
Blast Furnace slag(GGBS) and Makaoline PPT Effects on concrete properties. Introduction to Fresh concrete and Workability Sections affecting workability Slumpcone, vee bee, flowtest Setting times of concrete – Effect of time and temperature Setting times of concrete Mixing and vibration of concrete Steps in manufacture of concrete Quality of mixing water. Introduction to hardend concrete Water / Cement ratio – Abram's Law – Gelspace ratio Nature of strength of concrete – Maturity concrete A Nature of strength of concrete – Maturity concrete	15	-		PPT	
Effects on concrete properties. Intoduction to Fresh concrete and Workability Class Factors affecting workability Class Measurement of workability by different tests ppt Slumpcone, vee bee, flowtest Setting times of concrete – Effect of time and temperature Segregation & Segregation & Segregation & Segregation of concrete Mixing and vibration of concrete Class Steps in manufacture of concrete Quality of mixing water. Lintroduction to hardend concrete Water / Cement ratio – Abram's Law – Gelspace ratio Nature of strength of concrete – Maturity concept	2 2 3	2 B	last Furnace slag(GGBS) and Makaoline	PPT	
Intoduction to Fresh concrete and Workability 3 Factors affecting workability 3 Measurement of workability by different tests 4 Introduction to Fresh concrete 4 Water / Cement ratio – Abram's Law – Gelspace ratio 3 Factors affecting workability 4 class 5 class ppt class class class delight of mixing water. class class class delight of concrete class delight of class del		E	ffects on concrete properties.	class	
Factors affecting workability 3 Factors affecting workability 3 Measurement of workability by different tests 4 Pactors affecting workability 3 Factors affecting workability 4 Nature of strength of concrete — Maturity concepts 5 Measurement of workability 5 ppt 7 ppt 8 Segregation & ppt 9 pt 9 pt 10 class 11 ppt 12 class 13 Segregation & ppt 14 ppt 15 class 16 ppt 17 ppt 18 ppt 18 ppt 19 ppt 19 ppt 20 ppt 21 ppt 22 ppt 3 Mixing and vibration of concrete 22 class 3 Steps in manufacture of concrete 23 class 4 Introduction to hardend concrete 4 Water / Cement ratio — Abram's Law — Gelspace ratio 4 Nature of strength of concrete — Maturity concepts 4 Nature of strength of concrete — Maturity concepts	8			class	
Measurement of workability by different tests Measurement of workability by different tests Measurement of workability by different tests ppt Setting times of concrete – Effect of time and temperature class Segregation & bleeding ppt Mixing and vibration of concrete class Steps in manufacture of concrete class Quality of mixing water. Introduction to hardend concrete class Water / Cement ratio – Abram's Law – Gelspace ratio class Nature of strength of concrete – Maturity concept		F.		class	
3 Slumpcone, vee bee, flowtest 3 Setting times of concrete – Effect of time and temperature class 3 Segregation & bleeding ppt 3 Mixing and vibration of concrete class 3 Steps in manufacture of concrete class 4 Unality of mixing water. class 4 Introduction to hardend concrete class 5 Water / Cement ratio – Abram's Law – Gelspace ratio class 6 Nature of strength of concrete – Maturity concent		1	easurement of workability by different tests	ppt	
3 Setting times of concrete – Effect of time and temperature 3 Segregation & bleeding ppt 3 Mixing and vibration of concrete class 3 Steps in manufacture of concrete class 4 Unality of mixing water. class 4 Introduction to hardend concrete class 5 Water / Cement ratio – Abram's Law – Gelspace ratio class 6 Nature of strength of concrete – Maturity concent		3 Sh	umpcone,vee bee,flowtest		
3 Mixing and vibration of concrete class 3 Steps in manufacture of concrete class 4 Unality of mixing water. class 4 Introduction to hardend concrete class 4 Water / Cement ratio – Abram's Law – Gelspace ratio class 5 Nature of strength of concrete – Maturity concert		Se			
Mixing and vibration of concrete class 3 Steps in manufacture of concrete class Quality of mixing water. class 4 Introduction to hardend concrete class Water / Cement ratio – Abram's Law – Gelspace ratio class Nature of strength of concrete – Maturity concert	3	Se	gregation &bleeding		
3 Steps in manufacture of concrete class 3 Quality of mixing water. class 4 Introduction to hardend concrete class 4 Water / Cement ratio – Abram's Law – Gelspace ratio class 4 Nature of strength of concrete – Maturity concert	3	Mi	xing and vibration of concrete		
Quality of mixing water. Class	3	Ste	ps in manufacture of concrete		
4 Introduction to hardend concrete class 4 Water / Cement ratio – Abram's Law – Gelspace ratio class Nature of strength of concrete – Maturity concert	3	Qua	ality of mixing water.		
4 Water / Cement ratio – Abram's Law – Gelspace ratio class Nature of strength of concrete – Maturity concept	4	Intr	oduction to hardend concrete		
Nature of strength of concrete – Maturity concert	4	Wa	ter / Cement ratio - Abram's Law - Gelspace ratio		
ologo	1 4		ure of strength of concrete - Maturity concept	class	

		Strength in tension & compression	class	
30	4	Strength in tension con-	class	
31	4	Factors affecting strength Factors affecting strength Factors affecting strength Factors affecting strength Factors affecting strength	class	
32	4	Relation between compression & tensile strength - Curing.	PPT	
33	4	Testing of hardened concrete Testing of hardened concrete	PPT	
34	4	Compression tests – Tension tests	class	
35	4	Factors affecting strength	1	
36	4	Flexure tests –Splitting tests	Class	
37	4	Non-destructive testing methods	PPT	
38	4	codal provisions for NDT.	class	
	+	Types of Concrete	class	
39	5	Ready mix concrete, Shotcrete ,Light weight aggregate	class	1
40	5	Nofines concrete, High density concrete, Fibre reinforced	class	
42	5	Different types of fibres, Factors effecting FRC,	class	
43	5	Polymer concrete, High performance concrete	class	
44	5	Self compacting concrete, Self healing concrete.	class	
45	6	Mix design: Factors in the choice of mix proportions	class	
46	6	Durability of concrete - Quality Control of concrete	PPT	
47	6	Statistica lmethods – Acceptance criteria	class	- 33
48	6	Proportioning of concrete mixes by various methods	class	
49	6	BIS method of mix design	class	
50	6	BIS method of mix design	class	

LESSON PLAN

Subject Name: Strength of materials Lab

AY: 2022-23

Branch: Civil Engineering

Year and Semester: IIB.Techl Semester

Section: A

Course Code: 20CEL203

Faculty Name: Dr.V.Sowjanya Vani

S.No.	Lab Experiment Schedule	No. of Hours
	Tension test on MS and HYSD bars	3
1.		3
2.	Bending test on Cantilever beam (Steel)	3
3.	Determination of Modulus of Elasticity	
	by conducting Bending test on simple	
	support beam	
4.	Torsion test on MS bar	3
5.	Hardness test on steel	3
6.	Compression test on wood	3
7.	Impact test on Mild Steel bar	3
8.	Deflection test on Fixed beam	3
9.	Bending test on RS Joist under UTM	3
10	Add-on Demonstration Compression Test	3
	on Brick	
	Total Contact Hours	30

	1	LESSON PLAN forFMHM, 2022-23,II/I KRUPASINDHU BISWAL	Teaching	Remarks
1988	Unit	Topic	Methodology	
Contact Hour	No.		Chalk & Talk	
(Cumulative)	1101	Dimensions and units	Chalk & Talk	
1	I	Dimensions and units Physical properties of fluids specific	Chark	
2	1	gravity, viscosity surface tension, capillarity	Chalk & Talk	
3	I		Chalk & Talk	1000
	I	pressure at a point	Chalk & Talk	
4	I	Pascal's law	Chalk & Talk	
5	Ī	Hydrostatic law	Chalk & Talk	
7	I	atmospheric, gauge and vacuum		
-		proceure	Chalk & Talk	
8	I	measurement of pressure.	Chalk & Talk	
9	I	Manometers:simple	Chalk & Talk	
	I	Tarres and Manameters	Chalk & Talk	
10	I	Hydrostatic forces on submerged plane,	Chair & Tair	
11	1	Horizontal, Vertical	Chalk & Talk	
- 10	I	inclined and curved surfaces	Chalk & Talk	Unit-1 will be
12	I	Center of Pressure. Derivations and	Chaik & Talk	completed
13	1	Problems	41 0 T 11-	
	TY	stability of floating bodies Meta Center	Chalk & Talk	
14	II	Meta centric height	Chalk & Talk	
15	II	Meta centric neight	11 0 T 11	2.2
16	II	Description of fluid flow, Stream line,	Chalk & Talk	
16	11	path line	10 TO	
A CONTRACTOR	TT	streak lines and stream tube	Chalk & Talk	
17	II	Classification of flows: Steady, unsteady,	Chalk & Talk	
18	II	Classification of flows. Steady, and stay,		
		uniform, non-uniform, laminar,		
		turbulent, rotational and rotational		
		flows	Chalk & Talk	
19	II	Equation of continuity for one, two,	Chair & Tair	
		three dimensional flows	C1 11 0 TD 11	
20	II	stream functions,	Chalk & Talk	
21	II	velocity potentialfunctions	Chalk & Talk	Unit-2 will be completed
22	III	Surface and body forces	Chalk & Tall	K
	III	Euler's equations for flow along a	Chalk & Tal	k
23	111	stream line for 3-D flow		
24	III	Bernoulli's equations for flow along a	Chalk & Tal	k
24	III		Chair & Ta	
	100000	stream line for 3-D flow	OI 11 0 TO	11
25	III	Venturi meter and syphon	Chalk & Ta	ASSESSMENT OF THE OWNER, THE OWNE
26	III	Momentum equation - forces on pipe bend	Chalk & Ta	lk

		N PLAN for FMHM, 2022-23,II/I, Civil-B	Teaching	Remarks
Contact Hour	Unit		Methodology	
(Cumulative)	No.	Reynold's experiment	Chalk & Talk	
30	III	- Characteristics of Laminar & Turbulent		Init-3 will be ompleted
30	***	flows	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		
35	IV	Most Economical sections-circular	Chalk & Talk	
36	IV	Most Economical sections-rectangular	Chalk & Talk	
37	IV	Most Economical sections-trapizoidal	Chalk & Talk	
38	IV	Critical flow: Specific energy-critical	Chalk & Talk	
		depth fortifical depth	Chalk & Talk	
39	IV	computation of critical depth	Chalk & Talk	
40	IV	Dynamic equation for G.V.F	Chalk & Talk	Unit-4 will be
41	IV	hydraulic jump, energy dissipation.	Chalk & Talk	completed
42	V	Hydrodynamic force of jets on stationary flat		
43	V	moving flat, inclined and curved vanes	Chalk & Talk	
	V	curved vanes	Chalk & Talk	
44	V	jet striking centrally and at tip, velocity triangles at inlet and outlet	Chalk & Talk	
	* * *	expressions for work done and efficiency	Chalk & Talk	
46	V	expressions for work done and emercing	Chalk & Talk	
47	V	principle of Angular Momentum	Chalk & Talk	
48	V	Layout of a typical Hydropower installation		
49	V	Heads and efficiencies-classification of turbines Pelton wheel	Chalk & Talk	
50	V	Francis turbine	Chalk & Talk	
50	V	Kaplan turbine	Chalk & Talk	Unit-5 will be
52	VI	Pump installation details-classification	Chalk & Talk	
53	VI	work done	Chalk & Talk	
54	VI	Manometric head	Chalk & Tall	2
55	VI	minimum starting speed	Chalk & Tall	k
56	VI	losses and efficiencies	Chalk & Tal	k
57	VI	specific speed	Chalk & Tal	THE RESERVE THE PERSON NAMED IN COLUMN 1
58	VI	multistage pumps-pumps in parallel and		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I
		series		
59	VI	characteristic curves-NPSH-cavitations	Chalk & Ta	lk UNIT-VI

Lab Name: TRANSPORTATION ENGINEERTIN Lab

Branch:Civil

Year:2022-2023

Sec-A

Semester: III-I

300-71

Semester: 111-1

Course Code: 20CEL206

Faculty Name: Sri G Anil Kumar

CNI	Lab Lesson Schedule	No. of Hours
S.No	Aggregate Crushing value	3
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
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

Contact Hour		for TRANSPORTATION ENGINEERI Sri G Anil Kumar Topic	Teaching Methodology	Remarks
(Cumulative)	I	Highway development and planning: Invention of wheel	BB & Interactive	
	-	Different modes of transportation	BB & PPT	
2	I	role of highway transportation in India	BB & PPT	
3	I		BB & PPT	
4	I	Necessity for Highway Planning	BB & PPT	
5	I	Different Road Development Plans	BB & PPT	
6	I	Classification of Roads	BB & PPT	
7	I	Road Network Patterns.	BB & PPT	
8	I	Highway Alignment introduction	BB & PPT	
9	I	Alignment - Factors controlling Alignment		
10	I	Alignment - Factors controlling Alignment	BB & PPT	
11	I	Engineering Surveys for Highways	BB & PPT	
11	I	Drawings and Reports.	BB & PPT	Unit-1 will be completed
13	II	Geometric design: Importance of Geometric Design,	BB & PPT	
1.4	II	Highway Cross Section Elements	BB & PPT	
14	II	Pavement Surface Characteristics,	BB & PPT	
15 16	II	Sight Distance - Stopping Sight	BB & PPT	
		Distance	BB & PPT	
17	II	Overtaking Sight Distance and Intermediate Sight Distance.		
18	II	Design of Horizontal Alignment	BB & PPT	
19	II	Design of Super elevation and Extra widening	BB & PPT	
20	II	Design of Transition Curves	BB & PPT	200
21	II	Design of Vertical Alignment	BB & PPT	131/1/19/19
22	II	Grade Compensation.	BB & PPT	Unit-2 will completed
23	III	Highway materials: Soil	BB & PPT	
24	III	Aggregate	BB & PPT	
25	III	Bitumen and Tar	BB & PPT	
26	III	Tests on aggregates –Aggregate Properties and their Importance	BB & PPT	
27	III	Tar properties - Differentiation between Tar and Bitumen	BB & PPT	

Contact Hour (Cumulative)		Topic	Teaching Methodology	Remarks
28	III	Bitumen - different forms of bitumen - tests on bitumen	BB & PPT	
29	III	Bituminous Concrete	BB & PPT	
30	III	requirements of Design Mix -	BB & PPT	
31	III	Marshalls Method of Bituminous Mix design	BB & PPT	
	III	Modified Hubbard Field method of mix design.	BB & PPT	Unit-3 will be completed
32	IV	Highway Construction: Construction of Roads - Earthen roads	BB & PPT	
33	IV	W.B.M. Roads	BB & PPT	
34	IV	Bituminous Roads - distresses	BB & PPT	
35	IV	Cement Concrete roads	BB & PPT	
36	IV .	Tie bars and Dowel bars	BB & PPT	
37	IV	Rigid pavement distresses	BB & PPT	
38	IV	Highway Maintenance	BB & PPT	
39	IV	Arborical culture –Street lighting.	BB & PPT	
40	IV	Highway drainage	BB & PPT	Unit-4 will be completed
41	V	Traffic engineering: Elements of Traffic Engineering	BB & PPT	
42	V	Vehicle & Road User Characteristics	BB & PPT	
43	V	Accessibility & Mobility concept	BB & PPT	
44	V	Traffic Volume studies & methods	BB & PPT	
45	V	Speed Studies	BB & PPT	
46	V	Time Mean Speed	BB & PPT	
47	V	Space Mean Speed	BB & PPT	
48	V	Travel time and Delay studies	BB & PPT	
49	V	Origin - Destination studies	BB & PPT	Unit-5 will b
50	VI	Highway capacity: Highway capacity	BB & PPT	
51	VI	level of service (LOS)	BB & PPT	
52	VI	capacity of urban and rural roads	BB & PPT	
53	VI	PCU concept and its limitations.	BB & PPT	
54	VI	Parking: Parking Studies – Problems of parking	BB & PPT	
55	VI	types of parking facilities – on street & off street	BB & PPT	
56	VI	Accidents -Causes and Mitigative measures	BB & PPT	Unit-6 wil

ACADAMIC YEAR: 2022-23
YEAR & SEM: III/I,
SECTION: A
FACULTY NAME: Sri. G. GOWRI SANKARAREAO

Contact Hou (Cumulative	r Uni		Teaching Methodolo gy	
1	I	Assumptions in slope deflection method - application to the analysis of statically indeterminate beams with and without settlement of supports	ВВ	
2	I	Solving the problems of continuous beam	BB	
4	I	Solving the problems of continuous beam without sinking	ВВ	
5	I	Solving the problems of continuous beam with sinking	ВВ	
6	I	Solving the end moments of the rigid frame without sway	ВВ	
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	
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	BB	
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	
21	III	Analysis of continuous beams – including	BB	

				(
23	111	without sway Analysis of continuous beams – including	BB	
	-	without sway	BB	Unit-3 will be completed
24	III	SED of the portal frame with sway	ВВ	
25	IV	Introduction to Stiffness Method	BB	
26	IV	Analysis of continuous beams with two unknows.	BB	
27	IV	Analysis of continuous beams with two unknows.		
39	IV	Analysis of continuous beams with two	ВВ	
		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 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.	ВВ	
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	BB	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	BB	
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		
50	VI	Solving the collapse load in beams		
52	VI	Solving the collapse load in beams		Unit-6 will 1 completed

HOD, CIVIL

II/I, Civil-A

Remark

will be

Contact Hour (Cumulative)	Unit No.	Sri. S. RAMLAL Topic	Teaching Methodology	Remarks
1	1	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	100
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 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	

OF CONCRETE STRUCTURES, 2022-23, III/I, Civil-B.

LESSON P	LAN	or DESIGN OF CONCRETE STREET Sri. S. RAMLAL	Teaching	Remarks
		Topic	Methodology	
Contact Hour			Chalk & Talk	
(Cumulative)	No.	Torsion example	Chalk & Talk	
22	III	Torsion example	Chalk & Talk	
23	III	thand anchorage and	Chair	
24	III	development length, I.S. code provide	Chalk & Talk	Unit-3 will be completed&
25	III	concept of bond, anchorage and development length, I.S. code provisions		1 st Mid Exams
			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)	Chalk & Talk	
31	IV	Design of continuous slabs using IS Coefficients (conventional)	Chalk & Talk	
32	IV	Design of continuous slabs using IS Coefficients (conventional)	Chalk & Talk	Unit-4 will b
33	V	Effective length of a column, I S Code provisions	Chalk & Talk	P (9) 31
34	V	Design of short columns under axial loads	Chalk & Talk	
35	V	Design of short columns under axial loads	Chalk & Talk	
36	V	Design of short columns under axial loads	Chalk & Talk	
37	V	Design of short columns under b uniaxial bending	Chalk & Talk	
38	V	Design of short columns under biaxial bending	Chalk & Talk	
39	V	Design of short columns under biaxial bending	Chalk & Talk	
40	V	Design of long columns	Chalk & Talk	
41	V	Design of long columns	Chalk & Talk	
42		Design of long columns	Chalk & Talk Chalk & Talk	Unit-5 will t
43	VI	Types of footings.	Chalk & Talk	completed
44	Name and Address of the Owner, where	Distribution of base pressure		
	VI	General Design considerations for footings.	Chalk & Talk Chalk & Talk	

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
47		Design of Isolated rectangular footing	Chalk & Talk	
48		Design of Isolated rectangular footing	Chalk & Talk	
		Design of Isolated rectangular footing	Chalk & Talk	
49		Design of Isolated square footing	Chalk & Talk	
50		Design of Isolated square footing	Chalk & Talk	
51		Design of Isolated square footing Design of Isolated square footing	Chalk & Talk	Unit-5 will be completed
32				2 nd Mid
		Grand Test		Exams

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AN AUTOMOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

IV B. TECH I SEMESTER, Transportation Engineering-II -SECTION - "A", 2022 - 2023

LESSON PLAN

	LESSON PLAN		70	EACHING	CUMU	LATI
	TOPIC	UNIT	MET	HODOLOGY	VEH	OURS
HOU	R	I		CR / BB		1
1	Introduction to Railway Engineering:	1		CR / BB		2
2	Permanent way components	I	CF	R / BB / PPT		3
3	Cross Section of Permanent Way	I	CF	R / BB / PPT		4
4	Railway track gauge	1		R / BB / PPT		5
5	Functions of various Components like Rails, Sleepers and Ballast	I		R / BB / PPT		6
6	Rail Fastenings	-	_	R / BB / PPT		7
7	Creep of Rails	I		R / BB / PPT	_	8
8	Theories related to creep	I	10		-	9
9	Sleeper density.	I	1	CR / BB	-	9
1 1 N		13			_	
10	Geometric design of Railway track: Gradients	II	_	CR / BB / PP		10
11	Grade Compensation	II	(CR / BB / PP	T	11
12	Cantand Negative super elevation	11		CR/BB		12
	Cantand Negative super elevation	II		CR / BB		13
13		I	I	CR / BB / P	PT	14
14	Cant deficiency	I	I	CR / BB / P	PT	15
15	degree of curve		_	CR / BB / P		16
16	safe speed on curve		-			
17	safe speed on curve		II	CR/BB/F		17
18	Rail joints and welding of joints,	1	II	CR/BB/I	PPT	18
_	Railway stations and yards		II	CR/BB/	PPT	19
20	Points and Crossings: track layout- switches & crossings.		III	CR/BB/	PPT	20
	Γurnouts- layout of turnouts	7	III	CR/BB/	PPT	21
_	double turnouts and different types of crossings		III	CR / BB /	PPT	22
-	double turnouts and different types of crossings		III	CR / BB	/ PPT	23

24	Signals and Interlocking: Objectives			
25	classification of signals	1 m 1	CR/BB/PPT	
26	fixed signals, stop signals.	III	CR/BB/PPT	24
27	Signaling systems	III	CR/BB/PPT	25
28		III	CR/BB/PPT	26
29	mechanical signaling, Interlocking - modern signaling installations.	III	CR/BB/PPT	27
30	- Smille, illerlocking - modern - ' '	Ш	CR/BB/PPT	29
	Urban rail transit -metro rails, mono rail.	Ш	CR / BB / PPT	30
31	Airport Engines :			
32	Airport Engineering: Airport site Selection	IV	CR / BB / PPT	31
33	Airport Installation components	IV	CR / BB / PPT	32
	Runway geometric design	IV	CR / BB / PPT	33
34	Factors controlling Taxiway Layout	IV	CR / BB / PPT	34
35	Terminal Area, Apron, Hanger, Blast considerations.	IV	CR / BB / PPT	35
36	Aircraft characteristics	IV	CR / BB / PPT	36
37	zoning laws - classification of airports.	IV	CR / BB / PPT	37
38	Correction for Runway Length	IV	CR / BB / PPT	38
39	Orientation of Runway - Wind Rose Diagram	IV	CR / BB / PPT	39
40	Runway Lighting system. Airport navigational aids	IV	CR / BB / PPT	40
41	Airport Surveillance Radar	IV	CR / BB / PPT	41
42	Visual Flight Rules (VFR) & Instrumental Flight Rules (IFR).	IV	CR / BB / PPT	42
	The second secon			
43	Harbors: Definition of Terms	V	CR / BB / PPT	43
44	planning and layout of docks and harbors.	1	CR / BB / PPT	44
45	planning and layout of docks and harbors.	1	CR / BB / PPT	45
46	Classification of ports	1	CR/BB/PPT	46
47	requirements of good ports	1	/I CR / BB / PP7	47
48	maintenance of ports.	1	/I CR / BB / PP	Γ 48
49	Docks: Dry and Wet Docks	'	VI CR / BB / PP	Γ 49
50	transition sheds and workhouses	,	VI CR/BB/PP	_
51	transition sheds and workhouses	,	VI CR/BB/PP	
52	construction and maintenance of docks and harbors		VI CR/BB/PP	
1000	construction and maintenance of docks and harbors		VI CR/BB/PP	T 53
-				

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

Altan of Civil

			SUBJECT : PRESTRESSED CO						
A.	Y 202	2-23	IV-I	SEM-I					
CONTACT	TNO	UNIT N	О ТОРІС	TEACHING (*) METHOLOGY	REMARKS				
1		1	Introduction: theory and behavior basic concepts	PPT					
2		1	advantages and disadvantages materials required, high strength concrete-high strength	PPT					
3	999	1	steel	PPT					
4	7	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 of loading on the tensile stresses in tendons Effect of tendon profile on deflections	Class					
9	-	1	Losses in pre stress: Types losses in pre tension and post	Class	100				
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 16	-	2	loss due to anchorage slip	Class					
17		2	total allowed losses for design	Class					
18		2	problems on losses of prestressing	Class Class					
19		2	problems on losses of prestressing	Class					
			Design for flexure: Flexural strength of pre tensioned	- 1433					
20		3	concrete member	Class	10000				
21		3	problems on flexure	Class	12/2/2019				
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					
	E		Shear and Torsion: Shear and Torsional resistance of	CHUS					
28		4	pre stressed concrete members	Class	10000				
29	_		principal stresses	Class					
30	_		problems on principal stresses	Class					
31	_		time of shear cracks	Class					
32			web shear cracks flexural cracks	Class					
33	_			Class	200				
34		4	Design of shear reinforcement as per IS: 1343 – 2012		100				
35			shear and principal stresses due to torsion problems on design	Class					
1. 2033				Class					
36		5 f	Deflection: Deflection and design of anchorage zone actors influencing deflections						
				Class					
37	-		hort term deflections of uncracked members	Class	1				
38	+	5 p	problems on short term deflections	Class					
20	1	p	rediction of long term deflections due to creep and						
39	-	_	hrinkage	Class					
40	+		roblems on long term deflections	Class					
41		5 cl	heck for serviceability limit states.	Class					
	1		etermination of anchorage zone stresses in post-	Cidas					
42		5 te	nsioned beams	Class					
43		5 de	esign of anchorage zone reinforcement						
44		5 ch	eck for transfer bond length in pre-tensioned beams	Class	BURNEY PL				
45		_	agnel's method and problem	Class	I Bernell				
46	+		agnel's method and problem	Class					
47		5 gu	yon's method and problem	Class	-				
48	_	5 gu	yon's method and problem	Class					
		Co	emposite sections: Composite beams and continuous	Class					
49	6	5 bea	ams						
50	6	ana	alysis of composite beams	Class					
51	6			Class	THE RESERVE				
	0	Ind	rign of composite beams	Class	Marie San				
52	6	200	determinate Structures: methods of achieving		The second second				
53	6	con	tinuity in continuous beams	Class	100000000000000000000000000000000000000				
54	6	con	lysis for secondary moments cordant cable	Class					
55	6			Class					
56		-7775	ar transformation	Class					
57	6	prol	blems on concordant cable						
58	6	prot	plems on linear transformation	Class					
59	-	care	ulation of stresses	Class					
1	6		ciples of design	Class					
		3300		Class					

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

U.J. vani

A.Y: 2022-23 W-I

LESSON PLAN FOR QUANTITY SURVEYING AND VALUATION

1	,	General Items of Work in Building: Standard Units	CR / BB	
1	-	Principles of working out quantities for detailed		
2	1	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	1	Example Problems on Rough estimate	CR / BB / PPT	
7	I	Example Problems on Total estimate	CR / BB / PPT	
● 8	1	Detailed Estimates of Buildings	CD / DD / DDT	Unit-1 will be completed
9	I	Problems on Detailed Estimates of Single Roomed Building	CR / BB	
10	1	Problems on Detailed Estimates of Single Roomed Building	CR / BB	
ſi	I	Problems on Detailed Estimates of Double Roomed Building	CR / BB	
12	I	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	11	Earthwork for Roads and canals: Lead and Lift - Types of methods	CR/BB	
17	П	Mid Sectional Area Method	CR / BB / PPT	
18	11	Problems on Mid sectional Area method	CR / BB / PPT	
19	11	Mean Sectional Area Method	CR / BB	
20	11	Problems on Mean sectional Area method	CR / BB	Unit-2 will b
21	II	Simpson's rule method	CR / BB / PPT	

LESSON PLAN FOR QUANTITY SURVEYING AND VALUATION

		Comment of the All by	ALUATION	
22	11	Problems on Simpson's rule method	CR / BB / PPT	
23	11	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	m	Rate Analysis: Standard Specifications for different items of building construction	CR/BB/PPT	
27	III	Workingout data for Brick Masonry	CR/BB/PPT	
28	III	Problems on brick Masonry	CR / BB / PPT	
29	III	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	111111111111111111111111111111111111111
32	III	Problems on Plastering	CR / BB / PPT	
33	111	Workingout data for Plain Concrete	CR / BB / PPT	
34	111	Problems on Plain Concrete	CR / BB / PPT	
35	III	Workingout data for R.C.C. and Distempering	CR/BB/PPT	1 st Assignment
36	III	Problems on R.C.C. and Distempering	CR / BB / PPT	Unit-3 will be completed
37	IV	Reinforcement Bar Bending Schedule: Footing, pedestal	CR / BB / PPT	
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	
41	IV	Problems on Slab Beam and Slab	CR / BB / PPT	
42	IV	Bar requirement schedules	CR/BB/PPT	

1:

Sewe

ushir ector

mary ign c chan ning

enti

les i

filt

s all slu m

	IV	Problem solving on bar bending Schedule	CR & PPT	Seal or ha
44	IV	Problem solving on bar bending Schedule	CR	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 of BIM	CR & PPT	
48	v	Objects of BIM	CR	Unit-5 will be
49	VI	Valuation - Valuation of Buildings - Depreciation	CR & PPT	completed
50	VI	Types of depreciation of Industrial building	CR	
51	VI	Types of depreciation of Commercial building	CR & PPT	Sal de
52	VI	Problem solving on Depreciation of Commercial buildings	CR & Student Seminar	2 nd Assignment
53	VI	Types of depreciation of Private building	CR & PPT	2 nd Mid Exams
54	VI	Problem solving on Depreciation of Private buildings	CR & PPT	Unit-6 will be
				2 nd Mid Exams
				8
			Marie In	Departur
			Department of AITAM	Civil Engin
		The state of the s		A Sellie

		SUBJECT : EE-II	SEM-I		
A.Y 2022-23			TEACHING (*)	REMARKS	
TNO	NO	TOPIC	PPT		
1	1	Sewage and storm water estimation	Class		
2	1	Sewage and storm water estimation	class		
3	1	Characteristices of sewage	PPT		
4	1	Cycles of decay	PPT		
5	1	Decompostion of sewage	class		
6	1	Examination of sewage BOD equation	class		
7	1	Design of sewers shapes and materials	class		
8	1	Sewer appurtences manhole	class		
9	1	Inverted siphon-catch basin	class		
10	1	Flushing tanks	Class		
11	1	Ejectors pumps and pumps houses	class		
12	2	Primary treatement	class		
13	2	Design of screens	100000000000000000000000000000000000000		
14	2	Grit chamber	class		
15	2	Skimming tanks	PPT		
16	2	Sedimentation tanks	PPT		
17	2	Principles of Design	class		
18	2	Biological treatement	class		
19	2	Trickling filters	class		
20	2	Standards and high rate of trickling filters	class		
21	2	Activated sluge process	class		
22	3	Sewage farming	class		
23	3	Dilution-Sluge digestion	class		
24		Factors affecting of sluge digestion	class		
25		Design of digestion tank	PPT		
26		Design of digestion tank			
27		Septic tank working principles and workin	g class		

IN I

ONMENTA

me: UNIT NO

	I	Septic tank working principles and working	class	
28	3	Soak pit	class	
29	3		class	
30	3	Soak pit	PPT	
31	4	Types of air pollution	PPT	
32	4	Types of air pollution	PPT	
33	4	Their sources and impacts	PPT	
34	4	Their sources and impacts		
35	4	Air pollution Meterology	class	
36	4	Air pollution Meterology	Class	
37	4	Air pollution control	class	
38	4	Air pollution control	class	
39	4	Air quality control and limits	PPT	
40	4	Air quality control and limits	PPT	
41	5	Impact of noise	class	
42	5	Impact of noise	class	138
43	5	Permissible limits of noise pollution	PPT	
44	5	Permissible limits of noise pollution	PPT	
45	5	noise pollution	class	
46	5	noise pollution	class	
47	5	noise pollution	class	1000

LESSON PLAN ENVIRONMENTAL ENGINEERING_II (4TH YEAR B-SECTON) A.Y. 2022-23

	Faculty	Name:	Dr. M. Suresh	TEACHING
	Cumulative	UNIT	TOPICS	METHOLOGY
1	Hours	NO	Sewage and storm water estimation	PPT
	1	1	Sewage and storm water estimation	Class
1	3	1	Characteristices of sewage	class
+	4	1	Cycles of decay	PPT
+	5	1	Decompostion of sewage	class
+	6	1	Examination of sewage BOD equation	class
1	7	1	Design of sewers shapes and materials	class
1	8	1	Sewer appurtences manhole	class
T	9	1	Inverted siphon-catch basin	class
1	10	1	Flushing tanks	Class
T	11	1	Ejectors pumps and pumps houses	class
T	12	2	Primary treatement	class
T	13	2	Design of screens	class
	14	2	Grit chamber	PPT
	15	2	Skimming tanks	PPT
	16	2	Sedimentation tanks	
	17	2	Principles of Design	class
	18	2	Biological treatement	class
	19	2	Trickling filters	class
	20	2	Standards and high rate of trickling filter	class
	21	2	Activated sluge process	class
	22	3	Sewage farming	class
	23	3	Dilution-Sluge digestion	class
	24	3	Factors affecting of sluge digestion	class
	25	3	Design of digestion tank	PPT
	26	3	Design of digestion tank	PPT
	27	3	Septic tank working principles and work	
- 9	28	3	Septic tank working principles and work	
	29	3	Soak pit	class
	30	3	Soak pit	class
	31	4	Types of air pollution	PPT
	32	4	Types of air pollution	PPT
	33	4	Their sources and impacts	PPT
	34	4	Their sources and impacts	PPT

36	4	Air pollution Meterology	Class
37	4	Air pollution control	class
38	4	Air pollution control	class
39	4	Air quality control and limits	PPT
40	4	Air quality control and limits	PPT
41	5	Impact of noise	class
42	5	Impact of noise	class
43	5	Permissible limits of noise pollution	PPT
44	5	Permissible limits of noise pollution	PPT
45	5	Measurements of noise and control of noise pollution	class
46	5	Measurements of noise and control of noise pollution	class
47	5	Measurements of noise and control of noise pollution	class

Contact Hou	r Uni	LAN for REMOTE SENSING and GIS, t Topic	2022-23, IV/I B. Te	ech.
(Cumulative	No.		Teaching Methodology	Remarks
1	I	Introduction to Remote Sensing	BB & Interactive	
3	I	Components of Remote Sensing	BB & LCD	
3	1	Electro Magnetic Radiation-Basic Wave Theory	BB & Student	
4	I	Electro Magnetic Radiation-Quantum Wave Theory	Seminar BB & Student	
5	I	Electro Magnetic Spectrum	Seminar BB & Student	
6	I	EMD :	Seminar	The second second
7	_	EMR interaction with Atmosphere	BB & LCD	
8	I	Scattering and Absorption	BB & LCD	
	I	EMR interaction with Earth Surface Materials	BB & LCD	- 1
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	I	Introduction to Platforms	BB & LCD	-
13	I	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	Active Sensors	BB & LCD	
18	II	Passive Sensors	BB & LCD	
19	II	Passive Sensors	BB & LCD	
20	II	Introduction to Resolutions-Spectral resolution	BB & LCD	
21	II	Radiometric and Temporal Resolutions	BB & LCD	
22	II	Image data Characteristics	BB & LCD	
23	II	Image Data Formats-BIL, BIP and BSQ	BB & LCD	Unit-2 will be completed
24	III	Introduction to Image Analysis	BB & LCD	
25	III	Elements of Visual Interpretation	BB & LCD	
26	III	Digital Image Processing	BB	
27		Image Enhancement Techniques- Linear		
28		Non Linear Enhancement Techniques Non Linear Enhancement Techniques	BB & LCD	
29		Non Linear Enhancement Techniques	BB & LCD	
30	_	Introduction to image Classification	BB & LCD	
	_		BB	
31	III	Supervised Classification	BB & LCD	

			Teaching	Remarks
		Topic	Methodology	
77-119	Unit		BB & LCD	Unit-3 will be
Contact Hour	No.	Supervised Classification	BB & LCD	completed
(Cumulative)	III	Supervised Classification Un Supervised Classification		Compreted
32	III	Un Supervised	BB	
33	IV	Introduction to GIS	BB	
34	IV	Vay Components	BB	
35	IV	n significans	BB & LCD	
36	IV		BB	
37	IV	Projections Based on Turpos	BB	
38	IV	Data-Spatial Data	BB	
39	IV	Non Spatial Data	BB	
40	IV	Spatial Data Inputs	BB & LCD	
41	IV	Raster Data Models	BB & LCD	
42	IV	Raster Data Models	BB & LCD	
43	IV	Vector Data Models	BB	Unit-4 will be
44	IV	Raster Vs Vector Data	DB	completed
45	10		BB	
46	V	Introduction to Overlay analysis	BB & LCD	
47	V	Overlay function	BB & LCD	
48	V	Vector Overlay Operations	BB & LCD	
49	V	Vector Overlay Operations	BB & LCD	
50	V	Vector Overlay Operations	BB & LCD	
51	V	Raster Overlay Operators		
52	V	Arithmetic Operators	BB & LCD	
53	V	Arithmetic Operators	BB & LCD	
54	V	Comparison & Logical Operators	BB & LCD	
-	V	Conditional Expressions	BB & LCD	
55	V	Overlay using Decision Table	BB & LCD	
56		Introduction to RS & GIS applications	BB	
57	V	Land use/Land cover applications	BB & LCD	
58			BB & LCD	
59	V	Agricultural applications	BB & LCD	11.00
-	V	Forest applications		
	V	Geological applications	BB & LCD	
62	V	Geomorphological applications	BB & LCD	
63	V	Urban applications	BB & LCD	
the same of the sa	V	Flood Zone Delineation	BB & LCD	
	V	Flood Zone Delineation	BB & LCD	
and the second second	V	Flood Zone Delineation	BB & LCD	

Lab Name: GIS and CAD Lab

Branch: Civil

Semester: 4-1st

Course Code: 18CEL410

Year:2022-2023

	Lab Lesson Schedule	No. of Hours
S.No	D - mainstion &	3
1	Image Pre-processing: Geo-referencing, Re-projection	
	Digitization	3
2	Creation of Thematic Maps	3
3	Estimation of Features	3
4	Creation of Digital Elevation Model	3
5	Application in Water Resources & Transportation Engineering	3
6	Computer Aided Drafting- Generation of Points, Lines & Curves	3
7	Madelling Types: Object Selection Commands	3
8	Isometric Projections, Orthographic Projections, Simple sides	3
9	Building Drawings: Plan, Front & Sectional Elevation	3
10	Building Drawings: 3D Drawings of Buildings	
10	Total Contact Hour	30