

**LESSION PLANS FOR
A.Y: 2021-22
SEM – I**

LESSON PLAN

Subject Name: Strength of materials Lab

AY: 2021-22

Branch: Civil Engineering

Year and Semester: IIB.TechI Semester

Section: A & B

Course Code: 20CEL203

S.No.	Lab Experiment Schedule	No. of Hours
1.	Tension test on MS and HYSD bars	3
2.	Bending test on Cantilever beam (Steel)	3
3.	Determination of Modulus of Elasticity by conducting Bending test on simple support beam	3
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 on Brick	3
Total Contact Hours		30




LESSON PLAN for FMHM, 2021-22, II/I, Civil-A. KRUPASINDHU BISWAL				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
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	
4	I	pressure at a point	Chalk & Talk	
5	I	Pascal's law	Chalk & Talk	
6	I	Hydrostatic law	Chalk & Talk	
7	I	atmospheric, gauge and vacuum pressure	Chalk & Talk	
8	I	measurement of pressure.	Chalk & Talk	
9	I	Manometers: simple	Chalk & Talk	
10	I	Differential Manometers	Chalk & Talk	
11	I	Hydrostatic forces on submerged plane, Horizontal, Vertical	Chalk & Talk	
12	I	inclined and curved surfaces	Chalk & Talk	
13	I	Center of Pressure. Derivations and Problems	Chalk & Talk	Unit-1 will be 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	
17	II	streak lines and stream tube	Chalk & Talk	
18	II	Classification of flows: Steady, unsteady, uniform, non-uniform, laminar, turbulent, rotational and rotational flows	Chalk & Talk	
19	II	Equation of continuity for one, two, three dimensional flows	Chalk & Talk	
20	II	stream functions,	Chalk & Talk	
21	II	velocity potential functions	Chalk & Talk	Unit-2 will be 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	

LESSON PLAN for FMHM, 2021-22, II/I, Civil-A. KS BISWAL				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
29	III	Reynold's experiment	Chalk & Talk	
30	III	– Characteristics of Laminar & Turbulent flows	Chalk & Talk	Unit-3 will be completed
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	Chalk & Talk	
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 depth	Chalk & Talk	
39	IV	computation of critical depth	Chalk & Talk	
40	IV	Dynamic equation for G.V.F	Chalk & Talk	
41	IV	hydraulic jump, energy dissipation.	Chalk & Talk	Unit-4 will be completed
42	V	Hydrodynamic force of jets on stationary flat	Chalk & Talk	
43	V	moving flat, inclined and curved vanes	Chalk & Talk	
44	V	curved vanes	Chalk & Talk	
45	V	jet striking centrally and at tip, velocity triangles at inlet and outlet	Chalk & Talk	
46	V	expressions for work done and efficiency	Chalk & Talk	
47	V	principle of Angular Momentum	Chalk & Talk	
48	V	Layout of a typical Hydropower installation	Chalk & Talk	
49	V	Heads and efficiencies-classification of turbines Pelton wheel	Chalk & Talk	
50	V	Francis turbine	Chalk & Talk	
51	V	Kaplan turbine	Chalk & Talk	Unit-5 will be completed
52	VI	Pump installation details-classification	Chalk & Talk	
53	VI	work done	Chalk & Talk	
54	VI	Manometric head	Chalk & Talk	
55	VI	minimum starting speed	Chalk & Talk	
56	VI	losses and efficiencies	Chalk & Talk	
57	VI	specific speed	Chalk & Talk	
58	VI	multistage pumps-pumps in parallel and series	Chalk & Talk	
59	VI	characteristic curves-NPSH-cavitations	Chalk & Talk	UNIT-VI

LESSON PLAN for DESIGN OF CONCRETE STRUCTURES, 2021-22, III/I, Civil-B.				
Sri. S. RAMLAL				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Concepts of limit state design-Basic statical principles	Chalk & Talk	
2	I	Characteristic loads – characteristic strength	Chalk & Talk	
3	I	Partial load and safety factors – representative stress – strain curves for cold worked deformed bars and mild steel bars	Chalk & Talk Role Play	
4	I	Representative stress – strain curves for cold worked deformed bars and mild steel bars	Chalk & Talk	
5	I	Based on IS Code :456-2000. Assumptions in limit state design	Chalk & Talk	
6	I	Stress – block parameters	Chalk & Talk	
7	I	limit state analysis and design of singly reinforced	Chalk & Talk	
8	I	limit state analysis and design of singly reinforced	Chalk & Talk	
9	I	limit state analysis and design of singly reinforced	Chalk & Talk	
10	I	Comparison of Limit stage method with working stress and ultimate load method	Chalk & Talk	Unit-1 will be completed
11	II	limiting moment of Resistance	Chalk & Talk	
12	II	Design of doubly reinforced	Chalk & Talk	
13	II	Design of doubly reinforced	Chalk & Talk	
14	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	
15	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	
16	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	
17	II	Design of doubly reinforced and flanged T beam sections	Chalk & Talk	Unit-2 will be completed
18	III	Limit state analysis and design of section for shear and torsion	Chalk & Talk	
19	III	Problems on shear	Chalk & Talk	
20	III	Problems on shear	Chalk & Talk	
21	III	Problems on shear	Chalk & Talk	

LESSON PLAN for DESIGN OF CONCRETE STRUCTURES, 2021-22, III/I, Civil-B, Sri. S. RAMLAL				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
22	III	Torsion example	Chalk & Talk	
23	III	Torsion example	Chalk & Talk	
24	III	concept of bond, anchorage and development length, I.S. code provisions	Chalk & Talk	
25	III	concept of bond, anchorage and development length, I.S. code provisions	Chalk & Talk	Unit-3 will be completed & 1 st Mid Exams
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 be completed
33	V	Effective length of a column, I S Code provisions	Chalk & Talk	
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	V	Design of long columns	Chalk & Talk	Unit-5 will be completed
43	VI	Types of footings.	Chalk & Talk	
44	VI	Distribution of base pressure	Chalk & Talk	
45	VI	General Design considerations for footings.	Chalk & Talk	
46	VI	Design of Isolated rectangular footing	Chalk & Talk	

LESSON PLAN for DESIGN OF CONCRETE STRUCTURES, 2021-22, III/I, Civil-B. Sri. S. RAMLAL				
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	
49		Design of Isolated rectangular footing	Chalk & Talk	
50		Design of Isolated square footing	Chalk & Talk	
51		Design of Isolated square footing	Chalk & Talk	
52		Design of Isolated square footing	Chalk & Talk	Unit-5 will be completed
		Grand Test		2 nd Mid Exams

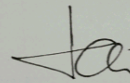

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LESSON PLAN

ACADAMIC YEAR: 2021-22
 YEAR & SEM: III/I,
 SECTION: A
 FACULTY NAME: Sri. G. GOWRI SANKARAREAO
 SUBJECT: STRUCTURAL ANALYSIS-II

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Three hinged arches – eddy's theorem	Chalk & Talk	
3	I	Determination of horizontal thrust, bending moment, radial shear & normal thrust.	Chalk & Talk	
4	I	Solving the problems	Chalk & Talk	
5	I	Two hinged arches – Determination horizontal thrust, bending moment, radial shear and normal thrust.	Chalk & Talk	
7	I	Solving problems	Chalk & Talk	
8	I	Solving Problems	Chalk & Talk	
9	II	Slope deflection method single by portal frame including side sway	Chalk & Talk	
11	II	Solving the problems by slope deflection method	Chalk & Talk	Unit-1 will be completed
12	II	Solving the problems	Chalk & Talk	
13	II	Solving the problems	Chalk & Talk	
15	II	Moment distribution method stiffness and carry over factor, distribution method	Chalk & Talk	
16	II	Analyzing continuous beams with and without sinking of supports.	Chalk & Talk	
17	II	Story portal framing including sway	Chalk & Talk	
19	II	Solving the continuous beams	Chalk & Talk	
20	II	Solving continuous beams problems	Chalk & Talk	
21	III	Kani's method. Analysis of continuous beams including sinkage and without sinkage	Chalk & Talk	
23	III	Analysis of single bay portal frames with and without sway	Chalk & Talk	
24	III	Solving the problems by kani's method	Chalk & Talk	
25	III	Solving the problems by kani's method	Chalk & Talk	Unit-2 will be completed
27	III	Solving the problems by kani's method	Chalk & Talk	
28	III	Solving the problems by kani's method	Chalk & Talk	
30	III	Continuous beams for kani's method	Chalk & Talk	
31	IV	Analysis of continuous beams by	Chalk & Talk	

		stiffness method		
33	IV	Analysis of non. Sway portal frame	Chalk & Talk	
34	IV	Solving the frame by stiffness method	Chalk & Talk	
35	IV	Solving the problems by stiffness method	Chalk & Talk	
37	IV	Solving the problems		
38	IV	Portal frame problems solution	Chalk & Talk	
39	IV	Non-sway portal frame problems	Chalk & Talk	Unit-3 will be completed
41	IV	Solving the problems	Chalk & Talk	
42	V	Moving loads : Introduction maximum S.F. and B.M. at a given section	Chalk & Talk	
44	V	Explanation of absolute	Chalk & Talk	
45	V	Moving loads for UDL longer then the span	Chalk & Talk	
46	V	Moving loads for UDL shorter than span	Chalk & Talk	Unit-4 will be completed
47	V	Problems for point loads on the loads	Chalk & Talk	
48	V	Problems for moving loads	Chalk & Talk	
49	V	Problems of moving loads of UDL. loads for longer span	Chalk & Talk	
51	V	Problems for longer span UDL loads	Chalk & Talk	
52	V	Practicing the problems	Chalk & Talk	Unit-5 will be completed
53	VI	Moving load problems practice	Chalk & Talk	
55	VI	Practice for moving load problems	Chalk & Talk	
	VI		Chalk & Talk	
	VI		Chalk & Talk	
	VI		Chalk & Talk	
	VI		Chalk & Talk	
	VI		Chalk & Talk	
60	VI		Chalk & Talk	
61	VI		Chalk & Talk	UNIT-VI
62	VI		Chalk & Talk	



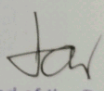
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LESSON PLAN for REMOTE SENSING and GIS, 2021-22, IV/I B. Tech.				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Introduction to Remote Sensing	BB & Interactive	
2	I	Components of Remote Sensing	BB & LCD	
3	I	Electro Magnetic Radiation-Basic Wave Theory	BB & Student Seminar	
4	I	Electro Magnetic Radiation-Quantum Wave Theory	BB & Student Seminar	
5	I	Electro Magnetic Spectrum	BB & Student Seminar	
6	I	EMR interaction with Atmosphere	BB & LCD	
7	I	Scattering and Absorption	BB & LCD	
8	I	EMR interaction with Earth Surface Materials	BB & LCD	
9	I	EMR interaction with Vegetation	BB & LCD	
10	I	EMR interaction with Soil & Water	BB & LCD	
11	I	Atmospheric Windows & Its significance	BB & LCD	Unit-1 will be completed
12	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	III	Image Enhancement Techniques- Linear	BB & LCD	
28	III	Non Linear Enhancement Techniques	BB & LCD	
29	III	Non Linear Enhancement Techniques	BB & LCD	
30	III	Introduction to image Classification	BB	
31	III	Supervised Classification	BB & LCD	

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
32	III	Supervised Classification	BB & LCD	
33	III	Un Supervised Classification	BB & LCD	Unit-3 will be completed
34	IV	Introduction to GIS	BB	
35	IV	Key Components	BB	
36	IV	Map Projections	BB	
37	IV	Projections Based on Scale	BB & LCD	
38	IV	Projections Based on Purpose	BB	
39	IV	Data-Spatial Data	BB	
40	IV	Non Spatial Data	BB	
41	IV	Spatial Data Inputs	BB	
42	IV	Raster Data Models	BB & LCD	
43	IV	Raster Data Models	BB & LCD	
44	IV	Vector Data Models	BB & LCD	
45	IV	Raster Vs Vector Data	BB	Unit-4 will be completed
46	V	Introduction to Overlay analysis	BB	
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	BB & LCD	
52	V	Arithmetic Operators	BB & LCD	
53	V	Arithmetic Operators	BB & LCD	
54	V	Comparison & Logical Operators	BB & LCD	
55	V	Conditional Expressions	BB & LCD	
56	V	Overlay using Decision Table	BB & LCD	
57	V	Introduction to RS & GIS applications	BB	
58	V	Land use/Land cover applications	BB & LCD	
59	V	Agricultural applications	BB & LCD	
60	V	Forest applications	BB & LCD	
61	V	Geological applications	BB & LCD	
62	V	Geomorphological applications	BB & LCD	
63	V	Urban applications	BB & LCD	
64	V	Flood Zone Delineation	BB & LCD	
65	V	Flood Zone Delineation	BB & LCD	
66	V	Flood Zone Delineation	BB & LCD	Unit-5 will be completed


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Lab Name: GIS and CAD Lab

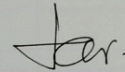
Branch: Civil

Year: 2021-2022

Semester: 4-1st

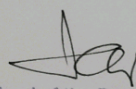
Course Code: 18CEL410

S.No	Lab Lesson Schedule	No. of Hours
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	Modelling Types: Object Selection Commands	3
8	Isometric Projections, Orthographic Projections, Simple slides	3
9	Building Drawings: Plan, Front & Sectional Elevation	3
10	Building Drawings: 3D Drawings of Buildings	3
	Total Contact Hour	30




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LESSON PLAN for ENVIRONMENTAL ENGINEERING-II, 2021-22, IV/I, Civil-B. Sri. G Anil Kumar				
Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	Conservancy and water carriage systems sewage	BB	
2	I	storm water estimation	BB	
3	I	characteristics of sewage	BB & Interactive	
4	I	characteristics of sewage	BB & LCD	
5	I	cycles of decay	BB & LCD	
6	I	decomposition of sewage,	BB& Student Seminar	
7	I	examination of sewage	BB & LCD	
8	I	B.O.D. equation	BB & LCD	
9	I	Design of sewers – shapes and materials	BB & LCD	
10	I	sewer appurtenances manholes – inverted siphon	BB & LCD	Unit-1 will be completed
11	I	catch basins –flushing tanks – ejectors, pumps and pump houses	BB	
12	II	Layout and general outline of various units in a waste water treatment plant:	BB& LCD	
13	II	primary treatment.	BB& LCD	
14	II	design of screens	BB& Student Seminar	
15	II	grit chambers	BB& LCD	
16	II	skimming tanks	BB& Student Interaction	
17	II	sedimentation tanks	BB& LCD	
18	II	principles of design –biological treatment	BB& LCD	
19	II	trickling filters	BB& LCD	
20	II	standard and high rate trickling filters	BB& LCD	
21	II	Activated sludge processes (ASP)	BB& Student Seminar	Unit-2 will be completed
22	III	Ultimate disposal of sewage –	BB	
23	III	sewage farming	BB	
24	III	Sewage dilution	BB	
25	III	Sludge digestion	BB& LCD	
26	III	factors effecting –design of Digestion tank	BB & Student Seminar	
27	III	septic tank's working principles and design	BB	


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28	III	soak pit	BB	Unit-3 will be completed
29	III	Problem solving on digestion tank	BB	
30	III	Problem solving on soak pit	BB& Student Seminar	
31	IV	Types of air pollutants	BB	
32	IV	Sources of air pollutants	BB	
33	IV	air pollutants impacts	BB	
34	IV	air pollution meteorology	BB	
35	IV	Plumes and types of plumes	BB & LCD	
36	IV	Plume distribution	BB & LCD	
37	IV	air pollution control	BB	
38	IV	Particulate and gaseous air pollution control methods	BB	
39	IV	Absorption, adsorption and combustion	BB	
40	IV	air quality standards and limits	BB& Student Seminar	Unit-4 will be completed
41	V	Introduction to Noise pollution	BB	
42	V	Sources of Noise pollution	BB	
43	V	impacts of noise	BB	
44	V	permissible limits of noise pollution	BB	
45	V	measurement of noise pollution	BB& Student Seminar	
46	V	control measures of noise pollution	BB	Unit-5 will be completed
47	V	Overall discussion of 5 th unit	BB	


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LESSON PLAN

ACADAMIC YEAR: 2021-22

YEAR & SEM: IV/I,

SECTION: B

FACULTY NAME: Sri. G. GOWRI SANKARAREAO

SUBJECT: ESTIMATION & QUANTITY SURVEY

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
1	I	General items of work in building – standard units, principles of working out quantities for detailed and abstract estimation.	Chalk & Talk	
3		Detail estimation of buildings. Find the quantities of one room building by CLD method	Chalk & Talk	
4		Find the quantities of one room building by long wall and short wall method	Chalk & Talk	
5		Find the quantities of one room building by long wall and short wall method	Chalk & Talk	
7		Find the quantities of two room building by CLD	Chalk & Talk	
8		Find the quantities of two room building by long wall and short wall	Chalk & Talk	
9		Find the quantities of building	Chalk & Talk	
11		Estimate the quantities of building	Chalk & Talk	
12		Estimate the quantities of building	Chalk & Talk	
13		Explain types of contracts	Chalk & Talk	
15		Explain absolute tenders and tender document	Chalk & Talk	Unit-1 will be completed
16	II	Earth work excavation for roads and canals. Explain lead and lift	Chalk & Talk	
18		Explain different types of methods for earth work excavation.	Chalk & Talk	
19		Calculation of earthwork excavation by arithmetic method	Chalk & Talk	
20		Calculation of earth work excavation by Simpsons rule.	Chalk & Talk	
22		Calculation of earth work excavation for roads	Chalk & Talk	Unit-2 will be completed
23	III	Rate of analysis: Standard specification for different items of building construction	Chalk & Talk	
24		Working out data for brick masonry	Chalk & Talk	

26		Working out data for R.R. masonry	Chalk & Talk	
27		Working out data for plastering	Chalk & Talk	
28		Working out data for plain concrete	Chalk & Talk	
30		Working out data for R.C.C.	Chalk & Talk	
31		Working out data for White washing	Chalk & Talk	
32		Working out data for Distempering	Chalk & Talk	
34		Find cost of the slab for 100sqm	Chalk & Talk	
35		Find the cof. Of the rcc columns	Chalk & Talk	Unit-3 will be completed
36	IV	Reinforcement bar bending schedule -explain fundamentals		
38		Calculation reinforcement for footing	Chalk & Talk	
39		Calculation of reinforcement for columns	Chalk & Talk	
40		Calculation of reinforcement for beams	Chalk & Talk	
42		Calculation of reinforcement for slab	Chalk & Talk	
43		Calculation of reinforcement for lintels and sunshades	Chalk & Talk	Unit-4 will be completed
44	V	Introduction to Bim Basic modelling and project management	Chalk & Talk	
46		Bim tools and new workflows of construction planning and management.	Chalk & Talk	
47		Model based quantity takeoff and cost estimation	Chalk & Talk	
49		Scheduling and planning with 4D Bim	Chalk & Talk	
50		Construction safety in planning using Bim	Chalk & Talk	
51		Continuous safety methods in planning	Chalk & Talk	
53		Practice in construction safety methods	Chalk & Talk	
54		Practice of Bim	Chalk & Talk	Unit-5 will be completed



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
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**LESSON PLAN for ESTIMATION COSTING AND QUANTITY SURVEYING, 2021-22,
IV/I, Civil-A, Dr. V. SOWJANYA VANI**

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

**LESSON PLAN for ESTIMATION COSTING AND QUANTITY SURVEYING, 2021-22,
IV/I, Civil-A. Dr. V. SOWJANYA VANI**

Contact Hour (Cumulative)	Unit No.	Topic	Teaching Methodology	Remarks
28	III	Working out data for R.C.C.	Chalk & Talk	
29	III	Working out data for R.C.C.	Chalk & Talk	
30	III	Working out data for Distempering	Chalk & Talk	Unit-3 will be completed
31	IV	Reinforcement bar bending schedule: Footing	Chalk & Talk	
32	IV	Footing	Chalk & Talk	
33	IV	Pedestal	Chalk & Talk	
34	IV	Column	Chalk & Talk	
35	IV	Plinth beam	Chalk & Talk	
36	IV	Slab beam	Chalk & Talk	
37	IV	Slab beam	Chalk & Talk	
38	IV	Slab	Chalk & Talk	
39	IV	Slab	Chalk & Talk	
40	IV	Bar requirement schedules	Chalk & Talk	Unit-4 will be completed
41	V	Introduction to BIM: Basic modelling and project navigation	Chalk & Talk	
42	V	BIM tools	Chalk & Talk	
43	V	New workflows of construction planning & management	Chalk & Talk	
44	V	New workflows of construction planning & management	Chalk & Talk	
45	V	Model-based quantity-takeoff	Chalk & Talk	
46	V	Model-based quantity-takeoff	Chalk & Talk	
47	V	cost estimation	Chalk & Talk	
48	V	Scheduling and planning with 4D BIM	Chalk & Talk	
49	V	Construction safety is planning using BIM	Chalk & Talk	
50	V	Construction safety is planning using BIM	Chalk & Talk	Unit-5 will be completed
51		Grand Test		2 nd Mid Exams


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