



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University)

146 /4B1, Amaravathi Village,
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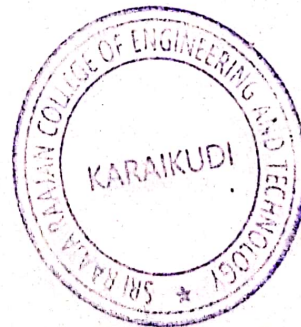
Date :

PRO/E+ANSYS Software Training Course Curriculum

45hrs

Chapter 1: Before you start using Ansys

- a. Introduction to the Finite Element Method
- b. What is the Finite Element Method?
- c. General Steps of the Finite Element Method
- d. Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
- e. Need of FEM
- f. Types of analysis that can be done using ANSYS
- g. Advantages of the Finite Element Method
- h. Limitations of FEA
- i. About ANSYS Inc.
- j. ANSYS Family of products with their capabilities
- k. Types of analysis that can be done with ANSYS.
- l. Introduction to the Ansys GUI
- m. Operation Modes of Ansys
- n. Product Launcher
- o. Launcher Menu Options
- p. The ANSYS GUI
- q. The Icon.Toolbar Menu
- r. Quitting Ansys



Trust Office : No. 24/63, T.T. Nagar Church 3rd Street, Opp. to Golden Singar Hotel, Karaikudi – 630 001.

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Date :

Chapter 2: Selection Logic

- a. Pan-Zoom-Rotate
- b. Picking
- c. Coordinate Systems

Chapter 3: Solid Modeling

- a. An Overview of Solid Modeling Operations
- b. Working with Boolean operations
- c. Working Plane
- d. Importing of 3D models

Chapter 4: Meshing

- a. Free meshing or Mapped meshing
- b. Setting Element Attributes
- c. Selecting Element Type
- d. Shape Function
- e. Defining Element Types
- f. Defining Section Properties
- g. Assigning Element Attributes before meshing
- h. Mesh Controls
- i. The ANSYS Mesh Tool
- j. Smart sizing
- k. Meshing
- l. Free Meshing
- m. Mapped Meshing
- n. Hybrid meshing
- o. Mesh Extrusion
- p. Volume Sweeping



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Chapter 11: Sample Thermal Analysis

- a. Workshop

Chapter 12: Sample Modal Analysis

- a. Workshop

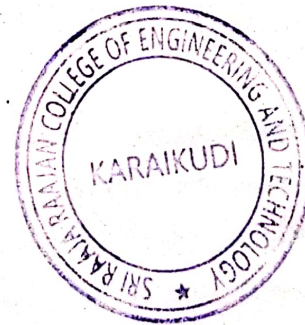
Chapter 13: Tips & Tricks

- a. Using the Toolbar & Creating Abbreviations
- b. Introduction to APDL
- c. Using Parameters
- d. Using the Start File
- e. Using the Session Editor
- f. Using Input Files

Chapter 14: ANSYS Workbench

- a. Introduction to ANSYS Workbench
- b. Graphical User Interface
- c. Static Structural Analysis
- d. Modal Analysis
- e. Thermal Analysis
- f. Contact Recognition

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Class Schedule for Auto CADD

Sl. No	Day	Topics	Hours	Cumulative Hours
1	Day 1	Introduction To Auto CAD - User interface of Auto cad (UI) - Workspaces Switching - Command description - Use of mouse and keyboard - Different Selection Methods - Line Command - Pick Point Method - Absolute, Relative and Polar System - Ortho Method, Zoom and Erase	2	2
2	Day 2	Units - Drafting Settings (OSnap and Otrack) - Dynamic Input - Options - Properties Tab (Line type, line weight, Object Color) - Dimensions and Dimensions Style	2	4
3	Day 3	Circle (Centre Rad/Dia, 2 point, 3 point, ttr,ttt) - Rectangle (Chamfer, Fillet, Width) - Polygon (Inscribed, Circumscribed)	2	6
4	Day 4	Ellipse (Centre axis and elliptical arc) - Arc Fillet and Chamfer	2	8
5	Day 5	Move, Copy, Rotate – Offset - Trim, Extend	2	10
6	Day 6	Mirror, Join, Break - Stretch and Scale - Explode	2	12
7	Day 7	LIMITS (ON/OFF/COORDINATE) - Match Properties - Polylines and Polylines Edit	2	14
8	Day 8	Layers - Layers ON/OFF, Freeze, Lock - Layer Isolate/Un Isolate	2	16
9	Day 9	Text and Text Style - Single line and Multiline text – Spell - Hatch and Hatch Edit - Open Area Hatch	2	18
10	Day 10	Table and Table Style - Array (Rectangular, Polar and Path) – Area - X-Line and Ray	2	20
11	Day 11	Building Planning Techniques and Vastu Shastra - Elevations and Sections - Building Plans - Group and Group Edit Boundary	2	22
12	Day 12	Spline - Multiline and Multiline Style - Multileader and Multileader Style - Parametric Tab (Geometric and Dimensional Constraints)	2	24
13	Day 13	Divide and Measure – Lengthen - Quick Calculator - Quick Properties - Advance Selection Methods (Quick Select, Filter, Selection Cycle)	2	26
14	Day 14	Design Centre - Tool Pallets and Tool Pallets Creation - Layout and Template Creation - Print and Publish Settings	2	28
15	Day 15	Create Block and Insert Block - Block Editor and Dynamic Block - Attributes, Edit Attributes - Block Attribute Manager - Attribute Display	2	30



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Sivagangai, Karaikudi - 630 001.

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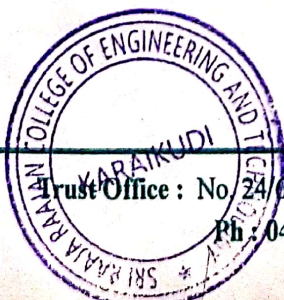
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Class Schedule for STAAD Pro

Sl. No	Day	Topics	Hours	Cumulative Hours
1	Day1	Overview of Structural Analysis and Design, Introduction STAAD.ProV8i, Staad Pro Workspace, Staad Pro Interface - Menu bar – Toolbar - Mode Bar - Page Control - Datasheet	2	2
2	Day2	Co-ordinate Systems - Global Co-ordinate - Local Co-ordinate – Units - Input Unit - Graphical Display Unit - Dimensions	2	4
3	Day3	Labels - Node Labels - Beam Labels - Supports Labels – Tool - Rotation Tools - Zoom Tools - View Tools	2	6
4	Day4	Geometry creation Methods - Snap /Grid Method - A. Linear Grid - B. Radial Grid - Copy Cut Method	2	8
5	Day5	Geometry creation Methods - Run Structure Wizard Co-ordinate MethodDXF Method/ Import CAD Models	2	10
6	Day6	Insert Node - For a Single Member - For Multiple Members Add Beam - Point to Point – Between Midpoints	2	12
7	Day7	Model Editing Tools – Translational Repeat – Circular Repeat	2	14
8	Day8	Model Editing Tools – Move – Mirror – Rotate - Copy	2	16
9	Day9	Model Editing Tools - Connect Beams Along - Stretch Selected Members - Intersect Selected Members - Create Collinear Beams	2	18
10	Day10	Model Editing Tools - Merge Selected Members – Renumber – Split Beam - Break Beams at Selected Nodes	2	20
11	Day11	Section Properties – Circular – Tee – Trapezoidal - Tapered Section Database - Assignment Method - User tableBeta Angle	2	22
12	Day12	Structure Diagrams - Full Section - Section Outlines - Cut Sections/Plane - Range By Joint - Range By Min/MaxSelect to View	2	24
13	Day13	Supports Assignment - Introduction of structural supports - Fixed Support - Pinned Support - Enforced	2	26
14	Day 14	Loading – Nodal Load - Nodal Moment – Member Load - Uniform Force and Moment - Concentrated Force and Moment - Linear Varying Load – Trapezoidal Load – Hydrostatic Load – Area Load Floor Load	2	28
15	Day 15	Understanding & Calculating Building Loads - Self-Weight of Members & Self Weight factor - Linear Load- Wall Loads - Calculation of Floor Dead Loads - Distribution of Floor load - One way & Two way Special Loads- Lift machine load, Sunken load	2	30



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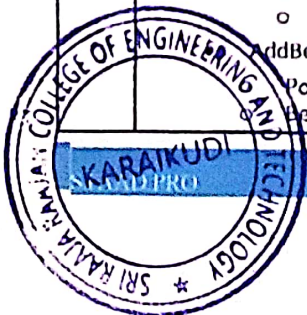
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STAAD.Pro
(40Hrs)

No. of Days	Topic
Day 1	Overview of Structural Analysis and Design <ul style="list-style-type: none"> • Introduction STAAD.Pro V8i • Staad Pro Workspace • Staad Pro Interface <ul style="list-style-type: none"> A. Menu bar B. Toolbar C. Mode Bar D. Page Control E. Datasheet
Day 2	<ul style="list-style-type: none"> • Co-ordinate Systems <ul style="list-style-type: none"> ○ Global Co-ordinate ○ Local Co-ordinate • Units <ul style="list-style-type: none"> ○ Input Unit ○ Graphical Display Unit • Dimensions
Day 3	<ul style="list-style-type: none"> • Labels <ul style="list-style-type: none"> ○ Node Labels ○ Beam Labels ○ Supports Labels • Tools <ul style="list-style-type: none"> ○ Rotation Tools ○ Zoom Tools ○ View Tools
Day 4	Geometry creation Methods <ul style="list-style-type: none"> ○ Snap /Grid Method <ul style="list-style-type: none"> ○ A. Linear Grid ○ B. Radial Grid ○ Copy Cut Method
Day 5	Geometry creation Methods <ul style="list-style-type: none"> ○ Run Structure Wizard ○ Co-ordinate Method DXF Method/ Import CAD Models
Day 6	<ul style="list-style-type: none"> • Insert Node <ul style="list-style-type: none"> ○ For a Single Member ○ For Multiple Members • Add Beam <ul style="list-style-type: none"> ○ Point to Point ○ Between Midpoints

	<ul style="list-style-type: none"> ○ Perpendicular Intersection ○ Curved Member
Day 7	<ul style="list-style-type: none"> • Model Editing Tools <ul style="list-style-type: none"> ○ Translational Repeat ○ Circular Repeat
Day 8	<ul style="list-style-type: none"> • Model Editing Tools <ul style="list-style-type: none"> ○ Move ○ Mirror ○ Rotate ○ Copy
Day 9	<ul style="list-style-type: none"> • Model Editing Tools <ul style="list-style-type: none"> ○ Connect Beams Along ○ Stretch Selected Members ○ Intersect Selected Members ○ Create Collinear Beams
Day 10	<ul style="list-style-type: none"> • Model Editing Tools <ul style="list-style-type: none"> ○ Merge Selected Members ○ Renumber ○ Split Beam Break Beams at Selected Nodes
Day 11	<ul style="list-style-type: none"> • Section Properties <ul style="list-style-type: none"> ○ Circular ○ Tee ○ Trapezoidal ○ Tapered • Section Database • Assignment Method • User table Beta Angle
Day 12	<ul style="list-style-type: none"> • Structure Diagrams <ul style="list-style-type: none"> ○ Full Section ○ Section Outlines • Cut Sections/Plane <ul style="list-style-type: none"> ○ Range By Joint ○ Range By Min/Max Select to View
Day 13	Supports Assignment <ul style="list-style-type: none"> • Introduction of structural supports <ul style="list-style-type: none"> ○ Fixed Support ○ Pinned Support ○ Enforced



40HRS

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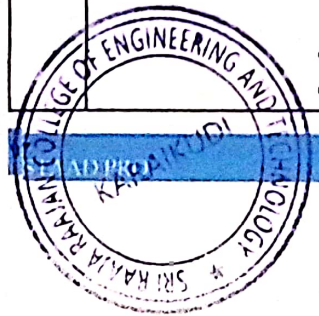
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STAAD.Pro
(40Hrs)

	<ul style="list-style-type: none"> ○ Enforced But ● Assignment Methods <p>Member Offset</p>
Day 14	<p>Loading</p> <ul style="list-style-type: none"> ● NodalLoad ● Nodal Moment ● MemberLoad ○ Uniform Force andMoment ○ Concentrated Force andMoment ○ Linear VaryingLoad ○ TrapezoidalLoad ○ HydrostaticLoad ● AreaLoad <p>FloorLoad</p>
Day 15	<p>Understanding & Calculating Building Loads</p> <ul style="list-style-type: none"> ● Self-Weight of Members & Self Weight factor ● Linear Load- Wall Loads ● Calculation of Floor Dead Loads ● Distribution of Floor load ○ One way & Two way <p>Special Loads- Lift machine load, Sunken load</p>
Day 16	<ul style="list-style-type: none"> ● Introduction to Floor load & Live load as per IS 875 I & II ● Creation of Primary Load Cases <ul style="list-style-type: none"> ○ Primary Dead Load case ○ Primary Live Load case ● Load Combinations <ul style="list-style-type: none"> ○ Manual Combination Method ○ Auto Load Combination Method ● Analysis & Print Command ● Post Processing <ul style="list-style-type: none"> ○ Result setup ○ Node reaction & displacement ○ Beam Forces ○ Beam Graphs

Day 17	<p>Understanding Staad Editor</p> <ul style="list-style-type: none"> ● Job Information ● Input width ● Join Coordinates ● Member incidences ● Finish ● Writing notes/ information in editor <p>Geometry Verification</p> <ul style="list-style-type: none"> ● Tools Menu <ul style="list-style-type: none"> ○ Orphan Nodes ○ Duplicates Nodes/ Members ○ Overlapping Collinear Members ● Unit Convertor ● Calculator <p>Member Specifications</p> <ul style="list-style-type: none"> ● Member Release ● Member Offset
Day 18	<p>Introduction to RCC Design As per IS 456</p> <ul style="list-style-type: none"> ● Defining Various RCC Design Parameters ● Beam Design ● Column Design ● RCC Detailing Methods
Day 19	<p>WindLoad Design As per IS 875 III</p> <ul style="list-style-type: none"> ● Introduction to wind design ● Design factors and Coefficient
Day 20	<p>Calculation of Wind load as per IS 875 Part 3</p> <ul style="list-style-type: none"> ● Create Wind definition ● Primary Load Case for Wind load ● Load combinations
Day 21	<p>Seismic Analysis & Design as per IS-1893</p> <ul style="list-style-type: none"> ● Introduction ● Terminologies <ul style="list-style-type: none"> ○ Standards for EarthquakeDesign ○ General Principals for EarthquakeDesign
Day 22	<p>Seismic Analysis & Design as per IS-1893</p> <ul style="list-style-type: none"> ● Static Analysis Method ● Seismic Definition ,Seismic



40HRS

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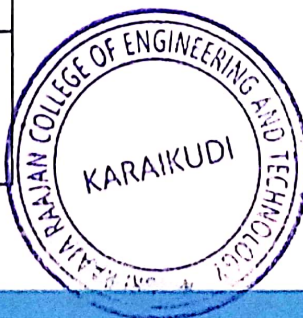


STAAD.Pro

(40Hrs)

	<p>Parameters</p> <ul style="list-style-type: none"> Elementary Introduction - <ul style="list-style-type: none"> A. IS Code 1893(2002/2005) B. IS Code 13920
Day 23	<p>STEEL Design in STAAD Pro As Per IS-800</p> <ul style="list-style-type: none"> Steel Design Mode <ul style="list-style-type: none"> Load Envelopes Member Setup Member Restraints Design briefs <p>Design Groups</p>
Day 24	<ul style="list-style-type: none"> Interactive Steel Design Introduction Of Transmission Line Towers Design of Transmission Line Towers
Day 25	<p>FEM Modelling in STAAD.Pro</p> <ul style="list-style-type: none"> FEM Modelling introduction <ul style="list-style-type: none"> SnapPlate AddPlate Create Infill Plates Create surfaces Generate Surface Meshing Generate Plate Mesh Adding Plate Thickness Plate Load <ul style="list-style-type: none"> Pressure on Full Plate Concentrated Load Partial Plate Pressure Load Trapezoidal Load Hydrostatic Load
Day 26	<p>Water Tank Design</p> <ul style="list-style-type: none"> Creating a RCC underground rectangular tank using plates <ul style="list-style-type: none"> Tank empty Tank Full Creating circular water tank
Day 27	<p>Shear Wall Design</p> <ul style="list-style-type: none"> Introduction to Shear wall Shear wall Modeling and Design
Day 28	<p>Moving (Rolling) Loads</p> <ul style="list-style-type: none"> Vehicle definition Primary load case for moving load

	<ul style="list-style-type: none"> Analysis of a RCC deck slab for moving load Viewing Influence line Diagram
Day 29-30	<p>Foundation Design</p> <ul style="list-style-type: none"> Introduction to structural foundation Importing files from Staad Pro to Staad Foundation <ul style="list-style-type: none"> I. Isolated Footing design <ul style="list-style-type: none"> Basic of Isolated Footing Creating a Isolated Footing job Specification of design parameters Design result II. Combined Footing Design <ul style="list-style-type: none"> Basic of combined Footing Creating a Combined Footing job Specification of design parameters Design result
Day 31-40	FINAL PROJECT



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STAAD.PRO

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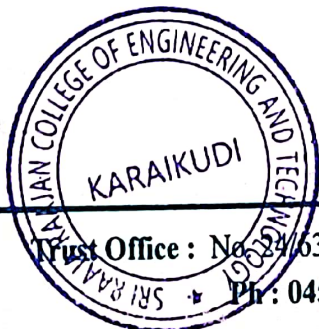
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Class Schedule for Primavera

Sl. No	Day	Topics	Hours	Cumulative Hours
1	DAY :1	Introduction Of Primavera	2	2
2	DAY : 2	Introduction Of Primavera	2	4
3	DAY : 3	User Preferences	2	6
4	DAY : 4	Calendars	2	8
5	DAY : 5	EPS	2	10
6	DAY : 6	Project On EPS	2	12
7	DAY : 7	OBS	2	14
8	DAY : 8	Project On OBS	2	16
9	DAY : 9	Resources (Cont...)	2	18
10	DAY : 10	Resources	2	20
11	DAY : 11	Roles	2	22
12	DAY : 12	WBS	2	24
13	DAY : 13	Project On WBS	2	26
14	DAY : 14	Activities	2	28
15	DAY : 15	Project Codes	2	30
16	DAY : 16	Activity Codes	2	32
17	DAY : 17	Resource Codes	2	34
18	DAY : 18	Working With Activities (Continue...)	2	36
19	DAY : 19	Working With Activities	2	38
20	DAY : 20	User Defined Fields	2	40
21	DAY : 21	Cost Accounts	2	42
22	DAY : 22	Project Expenses	2	44
23	DAY : 23	Performing Top Down Estimation	2	46
24	DAY : 24	Defining Budgets	2	48
25	DAY : 25	Final Project	2	50



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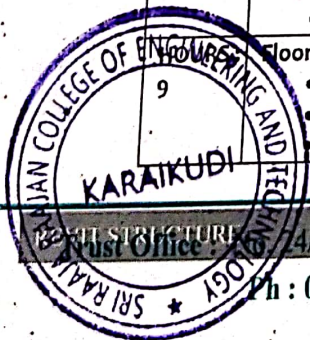
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Serial No. Hours Wise Topic

HOURS: 1	<ul style="list-style-type: none"> Introduction Overview Project Templates Tool Palettes Default Project Template Exploring the User Interface Starting a Project
HOURS: 2	<ul style="list-style-type: none"> Project Units Dimensions Levels Modifying level & editing Create Grids, Editing grid
HOURS: 3	Walls <ul style="list-style-type: none"> Wall Properties Wall Shapes & Draw panel Profile edit Wall Joins Working with Grids Drawing a plan
HOURS: 4	4 Modify Commands <ul style="list-style-type: none"> Move, Copy, Paste, Create Similar, Rotate, Mirror, Array, Scale, Scale, Trim / Extend Offset, Align, Split, Split Face
HOURS: 5	<ul style="list-style-type: none"> Column Introduced to concrete & steel column Modeling steel column Modeling concrete column Placing column at grids Rotate after placement
HOURS: 6	Foundation <ul style="list-style-type: none"> Introduction of foundation Introduction Isolated footing Introduced to & Wall foundation Placing footing at grid
HOURS: 7	Beam <ul style="list-style-type: none"> Introduced to concrete & steel beams Concrete arc beam Draw beam using chain option Draw beams using grids
HOURS: 8	Annotation command <ul style="list-style-type: none"> Dimensions Text Model Text Model line
HOURS: 9	Floors <ul style="list-style-type: none"> Introduction to floor Introduction to type of floors Inserting different type of layers in floor

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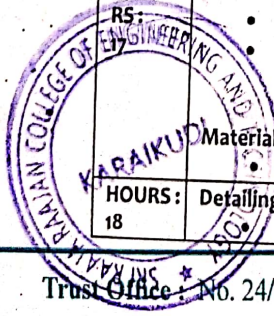
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	<ul style="list-style-type: none"> Type properties of floor Edit floor property Create duplicate floor
HOU RS: 10	Slab <ul style="list-style-type: none"> Introduced to slab Draw a slab using boundary line Type properties of slab Edit slab property Create duplicate slab
HOURS: 11	Openings <ul style="list-style-type: none"> Vertical Opening Shaft opening Multiple floor Shaft opening Wall opening Opening By Face
HOU RS: 12	Component <ul style="list-style-type: none"> Loading Component Placing Components Modifying Properties Visibility Graphics
HOU RS: 13	Reinforcement <ul style="list-style-type: none"> Introduced to reinforcement Reinforcement in column & beam Wall reinforcement Stirrup reinforcement Introduction to cover & editing cover
HOU RS: 14	Column Rebar Detailing <ul style="list-style-type: none"> Column Rebar Column Covering Beam Rebar Beam covering
HOU RS: 15	TRUSS <ul style="list-style-type: none"> Introduce to steel frame structure How to create truss Introduce to Brace Create Bracing in truss Introduced to Beam System
HOU RS: 16	Insert Tab <ul style="list-style-type: none"> Decal Create Decal and Setup Decal Insert CAD File Load Family
HOU RS: 17	Schedule <ul style="list-style-type: none"> Beam schedule Column Schedule
HOURS: 18	Material Takeoff <ul style="list-style-type: none"> Wall material takeoff Detailing <ul style="list-style-type: none"> Callout views



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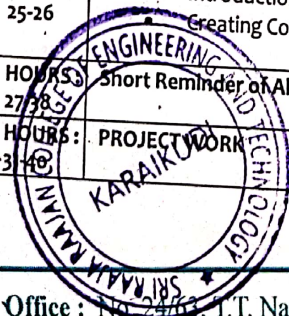
(Approved by AICTE, New Delhi & Affiliated to Anna University)

146 /4B1, Amaravathi Village,
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Ph : 04565 – 234230 / 326132

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	<ul style="list-style-type: none"> • Duplicate View • Creating Details • Repeating Detail • Drafting Views
HOURS : 19	Symbols <ul style="list-style-type: none"> • Exercise related above tools • Field Region • Revision Cloud
HOURS : 20	Sheet <ul style="list-style-type: none"> • Adding a Sheet • Adding Views to a Sheet • Modifying a View on a Sheet • Creating a Title Sheet • Printing Setup
HOURS : 21	Visibility & Graphics <ul style="list-style-type: none"> • Rendering • Camera • Walkthrough • Export Image and walkthrough
HOURS : 22	<ul style="list-style-type: none"> • Fabric Reinforcement • Match Line • Scope Box • Drafting Spot Dimension
HOURS : 23	Legend <ul style="list-style-type: none"> • Create Legend • Use Detail Line • Line Styles and Line Weights • Line Patterns • Groups
HOURS : 24	In-Place Families <ul style="list-style-type: none"> • Setting Work Planes • Creating and Modifying • In-Place Families
HOURS : 25-26	Family Creation <ul style="list-style-type: none"> • Introduction Architecture Template • Creating Column & Beam
HOURS : 27-28	Short Reminder on All commands & doubts and discussion
HOURS : 3-4	PROJECT WORK

Date :



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10HRS



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QUANTITY ESTIMATION

Philosophy - Purpose - Methods of estimation - Types of estimates - Approximate estimates - Detailed estimate - Estimation of quantities for buildings, bituminous and cement concrete roads, septic tank, soak pit, retaining walls - culverts (additional practice in class room using computer softwares)

UNIT II RATE ANALYSIS AND COSTING

Standard Data - Observed Data - Schedule of rates - Market rates - Standard Data for Man Hours and Machineries for common civil works - Rate Analysis for all Building works, canals, and Roads- Cost Estimates (additional practice in class room using Computer softwares) - (Analysis of rates for the item of work asked, the data regarding labour, rates of material and rates of labour to be given in the Examination Question Paper)

UNIT III SPECIFICATIONS, REPORTS AND TENDERS

Specifications - Detailed and general specifications - Constructions - Sources - Types of specifications - Principles for report preparation - report on estimate of residential building - Culvert - Roads - TTT Act 2000 - Tender notices - types - tender procedures - Drafting model tenders , E-tendering-Digital signature certificates- Encrypting - Decrypting - Reverse auctions.

UNIT IV CONTRACTS

Contract - Types of contracts - Formation of contract - Contract conditions - Contract for labour, material, design, construction - Drafting of contract documents based on IBRD / MORTH Standard bidding documents - Construction contracts - Contract problems - Arbitration and legal requirements.

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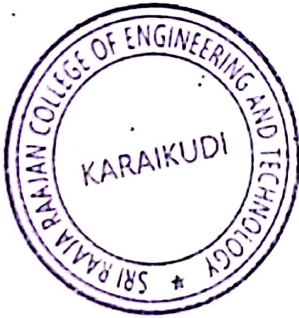
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Ph **UNIT V-VALUATION**

Definitions – Various types of valuations – Valuation methods and Necessity
– Capitalised value – Depreciation – Escalation – Valuation of land –
Buildings – Calculation of Standard rent – Mortgage – Lease

Duration: 45 hrs




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