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DEPARTMENT OF CIVIL ENGINEERING ADD ON COURSE PRO E + ANSYS (2017-2018)



Sri Raaja Raajan Kowage of Engg. & Tech., Swaganger Disc Tamil Nadu

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DEPARTMENT OF CIVIL ENGINEERING PRO E + ANSYS (2017-2018) **SYLLABUS**



Sri Raaja Raajan Courage of Engg. & Tech., · Amaravath -----kudi - 630 301 Swaganger Disc. famil Nadu



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Date:

PRO E+ANSYS Software Training **Course Curriculum**

45hrs

Chapter 1: Before you start using Ansys

- Introduction to the Finite Element Method
- What is the Finite Element Method?
- General Steps of the Finite Element Method
- d. Explanation of 1D, 2D and 3D Elements with examples of ANSYS Elements
- e. Need of FEM
- Types of analysis that can be done using ANSYS
- Advantages of the Finite Element Method
- Limitations of FEA
- About ANSYS Inc.
- ANSYS Family of products with their capabilities
- Types of analysis that can be done with ANSYS.
- Introduction to the Ansys GUI
- Operation Modes of Ansys
- **Product Launcher**
- Launcher Menu Options
- The ANSYS GUI
- The Icon Toolbar Menu
- **Quitting Ansys**



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Date:

Chapter 2: Selection Logic

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

Chapter 3: Solid Modeling

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

Chapter 4: Meshing

- Free meshing or Mapped meshing
- Setting Element Attributes
- Selecting Element Type
- d. Shape Function
- e. Defining Element Types
- **Defining Section Properties**
- Assigning Element Attributes before meshing
- Mesh Controls
- The ANSYS Mesh Tool
- Smart sizing
- k. Meshing
- Free Meshing
- m. Mapped Meshing
- Hybrid meshing
- Mesh Extrusion
- Volume Sweeping



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Date:

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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ravatnipu. Sivagangai Dist. Tamil Nadu KARAIKUDI KARAIKUDI KARAIKUDI

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DEPARTMENT OF CIVIL ENGINEERING PRO E + ANSYS (2017-2018) **REPORT**



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Website: www.sriraajaraajan.in

Name of the Course:Pro/E

Duration:45 HOURS

Date:

Course Conducted by: Techno CADD

Number of students attended:89

Start Date: 1st Aug 2017 End Date: 23rd Sep 2017

INTRODUCTION

The increasing trends and demands in the automotive world, there is always tug and tie between the designer and customer. To cope with existing competition in the modern times there is always need for great improvement in compatibility of the engine models. In this chapter the brief introduction about internal combustion engine (IC engine) is presented. The various components, type and recent advancements in IC engine are also presented in this chapter, An internal combustion engine is most remarkable achievement in the last hundred years. The distinctive feature of IC engine is that combustion and conversion of heat energy into mechanical work occur inside the cylinder.

These engines are noted for their efficiency and low operating cost. Such is the versatility of the IC engines that is development has a wide spread effect on the life of every nation. Petrol, gas and diesel engines, wankle engines, and open cycle gas turbines are examples of internal combustion engines. The advantages of internal combustion engines are greater mechanical simplicity, lower weight due to absence of auxiliary equipment like boiler and condenser and thus lower price, higher overall potency, and lesser demand of water for dissipation of energy through cooling system. IC engines square measure in the main used for transport vehicles, locomotives, agricultural pumping sets and aircrafts etc.,.

ANSYS is general-purpose Finite Element Analysis (FEA) software package. Finite Element ANALYSIS Analysis a mimerical method of deconstructing a complex system into very small pieces (of user designed size) called elements. The software implements equations that govern the behavior of these elements and solves them all; creating a comprehensive explanation of how the system acts as a

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Date:

the ANSYS Workbench environment is an intuitive up-front finite element analysis tool that is used in conjunction with CAD systems and/or Design Model. ANSYS Workbench is a software environment for performing structural, thermal, and electromagnetic analyses. The Workbench focuses on attaching existing geometry, setting up the finite element model, solving, and reviewing results

Static Structural Analysis

A static structural analysis determines the displacements, stresses, strains, and forces in structures or components caused by loads that do not induce significant inertia and damping effects. Steady loading and response conditions are assumed that is, the loads and the structure's response are assumed to vary slowly with respect to time. The types of loading that can be applied in a static analysis include externally applied forces and pressures. Steady-state inertial forces (such as gravity or rotational velocity), Imposed (nonzero) displacements, Temperatures (for thermal strain)

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TECHNO CADD OFFERED Pro/E+Ansys COURSE (01Aug2017- 23 Sep 2017)

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PRINCIPAL Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Kataikudi - 630 301 Sivagangai Dist. Tamil Nadu

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DEPARTMENT OF CIVIL ENGINEERING PRO E + ANSYS (2017-2018) **ATTENDANCE SHEET**



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146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301. Ph: 04565 - 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING PRO E + ANSYS (2017-2018) **COURSE OUTCOMES**



Sri Raaja Raajan Course of Engg. & Tech., Swaganger Disc. famil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 - 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Add on Courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Add on Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Added on Courses are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Added on Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	Pro E+Ansys/2017	THEORY	20	100
		PRACTICAL	80	



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Amarayath Sandar Srikudi - 630 301
Swagangar Disc. famil Nadu





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE PROE/ANSYS QUESTION PAPER SET
1. No. of degrees of freedom for 3D Solid Element (both Hex and Tet)
A. 3 B. 2 C. 6 D. 8
2. Large deflection option when switched ON accounts for which of the following:
A. Stiffness variation B. Large rotations C. Large strains D. All of the above
3. ANSYS archive files are saved informat.
Awbpj Bscdoc Cwbpz Dcmdp
4. Which numerical method is used by ANSYS to converge a nonlinear solution?
A. Euler Method B. Bisection Method C. Taylor's Method D. Newton-Raphson Method D. Newton-Raphso
5. Stresses and strains calculated on an element at
A. Nodes B Integration points C. Element center D. All of the above
6. Which of these loads are NOT supported in Harmonic Analysis?
A. Gravity Load B. Pressure C. Moment D. All of the above
7. How many degrees of freedom exist for a cylindrical joint?
A. 2 B. 3 C.4 D. 6
8. What are the mandatory material properties needed for Static Structural Analysis?
A. Young's Modulus and Yield strength B. Young's Modulus and Poisson's ratio
C. Yield Strength and Poisson's ratio D.Ultimate strength and Yield Strength
9. In ANSYS meshing, what does the pinch option in the local mesh control do?
OF A. Generate prism layer near free surfaces B. Remove intricate & small features.
C. Create a structured mesh on a face D. Move nodes around a local region
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	A. True B. False
	11. Both the Pull Tool and Move Tool can be used to extrude a face.
	A. True B. False
	12. A body suppressed in SpaceClaim will be imported into Mechanical.
	A. True B. False
	13. Acceleration can be applied to a single individual part of an assembly.
,	A. True B. False
	14. Results from Random Vibration Analysis are frequency dependent.
	A. True B. False
	15. What does an eigenvector represent in the formulation of Modal Analysis?
	A. Natural frequency B. Forcing frequency C. Mode shape D. Phase angle
	16. Which of these is NOT a solver in ANSYS?
	A. PCG Solver B. Direct Solver C. Symmetric Solver D. Iterative Solver
	17. FEM gives an exact solution to problems.
	A. True B. False
	18. Which of the following can be used to change the status of a contact pair to Close in the mechanical window?
	그는 그리아 회사님이 되었다. 하면 가장 그렇게 하는 사람이 되는 것 같아.
	A, interference remova-
	C. Through the contact detection Method D. All of the above
	19. APDL solver and Workbench solver are two separate independent solvers.
	A. True B. False
nalysis,	20. When frictionless contact type is assigned to a particular contact interface in modal ANSYS will automatically convert it into a no separation type contact.
	A. True B. False

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Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu



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analysis, A	20. When frictionless contact type is assigned to a particular contact interface in modal NSYS will automatically convert it into a no separation type contact. B. False



TO MAJAN COLLEGE OF ENGINEERING TE CHNOLOGI
DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE PROE/ANSYS QUESTION PAPER SET
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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING	-
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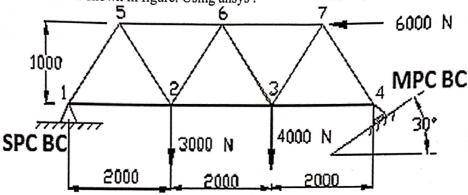
DEPARTMENT OF CIVIL ENGINEERING

COURSES ON PRO-E ANSYS

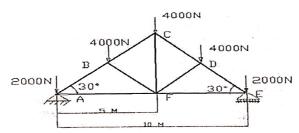
PRACTICAL QUESTIONS:

80 MARKS

1. Figure shows a truss with an inclined roller support at node 4. The area of the elements of the truss is 120 sq. mm. The forces acting on the cross section of nodes are shown in the figure. It is supported at node 1 by a hinged joint. Node 4 is supported on a roller arrangement and this support allows a freedom of movement at an angle of 30 . Determine the nodal displacement, reactions, and stresses in the truss member shown in figure. Using ansys.



2. Find the forces, stresses on each member of the following truss structure. Data: A=100mm² Young's modulus=25N/mmAlso find displacement field.

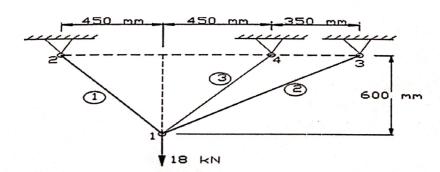


3. For the truss shown in figure, determine the reaction forces, nodal displacements, and element stresses.

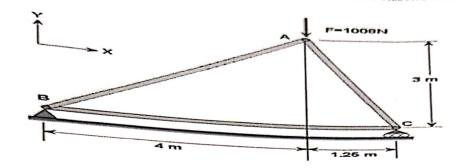
 $A = 100 \text{ mm}^2$,

Young's modulus

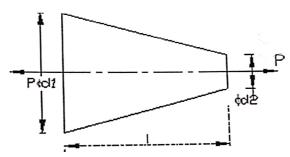
= 200 GPa



4. Determine the force in each member of the following truss using ANSYS. Indicate if the member is in tension or compression the cross-sectional area of each member is 0.02 m², Young's modulus is 200x109 N/m² and Poisson's ratio is 0.3.



5. Model the figure with 1D bar elements and find tip displacement. Carry out convergence study (H - convergence) by increasing thenumber of elements (1,2,4,8) and plot graph of displacement Vs number of elements and Compare with theoretical value. P = 10kN, d1 = 40 mm, d2 = 20 mm, 1 = 300 mm,



Young's modulus = 20 Gpa Using Ansys.



SRLRAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY

TECHNO CADD OFFERED Pro/E+Ansys COURSE (01Aug2017- 23 Sep 2017)							
S.NO	REG NUM	NAME	Theory(2 0 marks)	Practical(8	Total 100 Marks		
1	912514103002	AHAMED AASHIK.A	15	75	90		
2	912514103002	AJEETHKUMAR.T	16	74	90		
3	912514103005	AJITHKUMAR.S	14	73	87		
4	912514103006	AL AMEEN.M	12	72	84		
5	912514103007	ANANTHARAJ.V	17	78	95		
6		ANISHKUMAR.S	18	79	97		
7		ATCHAYAA.N	16	76	92		
8	912514103010		15	78	93		
9		BASKARAN.J	14	79	93		
10		BHARATHIRAJA.B	13	76	89		
11		CHELLAPANDI.P	14	74	88		
12	912514103015		16	69	85		
13		HARIHARAN.M	17	74	91		
14		JOHN SURESH.A	19	72	91		
15		KAMALESHKUMAR.A	20	71	91		
16		KANISHKA.V.K	16	70	86		
17		KARTHIK RAJA.G	15	73	88		
18		KARTHIKAISELVI.S	18	75	93		
19		RAMSINGH.V	15	74	89		
20		ROBINSON.J	16	73	89		
21 .		SACHIN RAJA.M	14	72	86		
22		SANDILYAN	12	78	90		
23		SANGEETHA.A	17	79	96		
24	912514103049	SANGEETHA .B	18	76	94		
25	912514103050		16	78	94		
26		SANTHIYA.S	15	79	94		
27		SASIKUMAR.R	14	76	90		
28		SEBASTIN MARTIN.A	13	74	87		
29		SELVARANI	14	69	83		
30	912514103055	SEVUGAMOORTHIY.V	16	74	90		
31		ARUN KUMAR.S	17	72	89		
32		CHANDRAMURUGAN.A	19	71	90		
33	912514103303		20	70	90		
34		LAKSHMI PRIYANGA.A	16	73	89		
35		MANIKANDA PRABHU.M	15	78			
36		MATHIYARASAN,G	18	79	93		
37		MUTHUKUMAR.S	15	79	97		
38	912514103309		18		91		
39		PRIYANKA.S		74	92		
40		RAJAKUMARAN,S	13	69	82		
		AJAY VARMA,V	12	74	86		
LEGHT OF			17	72	89		
-		MANIMUTHU.M	18	71	89		
ARA44	912514103901		16	70	86		
M244	[5] 912514103023	KARTHIKEYAN.B	15	73	88		

				No. of the last of	
45	912514103025	KARVANNAN	14	75	89
46	912514103026	KAVIYARASU.M	13	74	37
47	912514103027	KEERTHIKA.K	14	73	87
48	912514103028	KOWSALYA	16	72	88
49	912514103031	MAARESWARAN.M	17	78	95
50	912514103029	MAHESWARAN.S	19	79	98
51		MANIKANDAN.A	20	74	94
52	912514103032	MARIMUTHU,R	16	69	85
53		MEENAKSHISUNDARAM.A	15	74	89
54		MUTHUPANDI.R	18	72	90
55		NAVNEETHA KRISHNAN	12	71	83
56		PARTHEEPAN	17	70	87
57	912514103038		18	73	91
58		RAJAGURU.P	16	78	94
59		RAJAMANIKANDAN.R	15	79	94
60		RAJESHKUMAR.K	14	76	90
61		RAJESWARI.KS	13	74	87
62		RAMKUMAR.T	14	69	83
63	912514103056		16	74	90
64		SOKKALINGAM.S	17	72	89
65		SUBBURATHINAM	19	71	90
66		SURESH KUMAR.K	20	70	90
67	912514103062	SWATHI.M	16	76	92
68	912514103063	VARGESHRAJA	15	74	89
69	912514103064	VEERAMANI.G	18	69	87
70	912514103065	VIJAYCHANDRAN	12	74	86
71	912514103066	VINITH.B	17	72	89
72	912514103067	VIRUMANDI	18	71	89
73	912514103305	MATHAN KUMAR.U	16	70	86
74	912514103310	PRASANNA	15	73	88
75	912514103313	RAJESH.R	14	78	92
76	912514103314	SAKTHIVAEL.R	13	79	92
77	912514103315	SATHISH KUMAR.H	14	76	90
78	912514103701	SHEIKABDULLAH	16	74	90
79	912514103316	SIVASAKTHIRAMAN.M	17	69	86
80	912514103317	SUBASH.M	19	74	93
81	912514103318	SUTHAKAR.R	20	72	92
82	912514103319	UDHAYAPRAKASH.R	16	71	87
83	912514103320	UMASANKAR.M	15	70	85
84	912514103321	VAIRAVANATHAN.C	18	73	91
85	912514103322	VIJAY.P	12	75	87
86		VIMALSTALIN.J	17	74	91
87	912514103503 I		18	73	91
88	912514103702 I	PRAKASH.G	16	72	88



PRINCIPAL Sri Raaja Raajan College of Engg. & Tech Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301. Ph: 04565 - 234230 / 326132

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DEPARTMENT OF CIVIL ENGINEERING PRO E + ANSYS (2017-2018) **CERTIFICATE**



Sri Raaja Raajan Course of Engg. & Tech., Swaganger Disc. famil Nadu



This is to certify the	nat FRANCIS P	of
SRI RAAJA RAAJAN (COLLEGE OF ENGINEERING AND TECHNOLOGY	has
participated in	PRO / E + Analysis h	eld on
01.08.2017 To 23.09	.2017, organized by Department of Civil Engine	ering in
association with TEC	CHNOCADD, Karaikudi.	

TECHNOCADD MANAGING DIRECTOR

HOD / CIVIL

PRINCIPAL



This is to c	ertify that	UDF	IAYA PRA	AKASH R		of
SRI RAAJA RA	AAJAN COL	LEGE OF ENC	GINEERING AN	ND TECHNOLOG	<u>Y</u>	nas
participated i	in]	PRO / E	+ Analy	sis	held	on
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TECHNOCADD

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TECHNOCADD MANAGING DIRECTOR

HOD / CIVIL

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: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING ADD ON COURSE **STADD PRO (2018-2019)**



Sri Raaja Raajan Courage of Engg. & Tech., · Amaravath Swaganger Disc. famil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) SYLLABUS









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Date:

Class Schedule for STAAD Pro

Sl. No	Day	Topics	Hours	. Cumulative
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	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
8	Day7	Model Editing Tools - Translational Repeat - Circular Pages	. 2	14
	Day8	Wodel Editing Tools - Move - Mirror - Rotate - Conv	2	16
9	Day9	Model Editing Tools - Connect Beams Along - Stretch Selected Members - Intersect Selected Members - Create Collings Res	2	18
10	Day 10	Split Beam - Break Beams at Selected Nodes	2	20
11	Day11	Section Properties – Circular – Tee – Trapezoidal - Tapered Section Database - Assignment Method - User table Beta Apple	2	22
12	Day 12	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 Forceand Moment - Linear Varying Load – Trapezoidal Load – Hydrostatic Load – Area Load Floor Load	2	28
5	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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DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) REPORT





Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.raajaraajan.org

Name of the Course: STADD PRO Duration: 30 HOURS

Course Conducted by: Mee CADD

Number of students attended:79

Start Date: 01st Aug 2018 End Date: 15th Sep 2018

INTRODUCTION

STAAD.Pro is a comprehensive and integrated finite element analysis and design application that includes visualization capabilities, a simple user interface, and a wide range of design codes. You can analyze any structure exposed to static, dynamic, wind, earthquake, thermal, and moving loads. STAAD.Pro provides structural analysis and design for any type of project, including buildings, culverts, plants, bridges, stadiums, and marine structures.

Analysis and Design

The standard STAAD.Pro analysis methods provide you with a grounding in structural and analysis requirements for an array of projects. When more advanced capabilities are required, you can extend to STAAD.Pro Advanced. STAAD.Pro reduces the resource hours required to properly load your structure by automating the forces caused by gravity, wind, earthquakes, snow, or vehicles. STAAD.Pro can easily accommodate your design and loading requirements, including U.S., Eurocodes, Indian, Russian, Chinese, and Japanese codes. With an unparalleled quality-assurance program, open architecture for customization, and a 25-year track record, more design firms are choosing STAAD.Pro.

Extremely Flexible Modeling Environment

The power of STAAD.Pro is in a technologically advanced interface. It's easy to get started due to the vast library of online content available, including SIGs that regularly cover specialist topics and courses available in the Bentley Learn Server, in addition to online help and dozens of examples to illustrate solutions to commonly raised modeling, analysis, and design issues. In fact, 80% of new users learn to use STAAD.Pro efficiently in under two hours.



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Broad Spectra of Design Codes

Take advantage of steel, concrete, timber, and aluminum design codes from around the world, including historical codes. The breadth of design codes that are built into the program, both current and historical, means that STAAD is equally comfortable being used on small local jobs as well as large international projects. As a result, the software grows as your business does.

Interoperability and Open Architecture

STAAD.Pro is more than an analysis and design application. From simple importing of CAD models to creating custom links and developing third-party applications, STAAD.Pro can be the heart of your structural solution. When integrated with ProjectWise® or integrated into a wider Bentley CONNECT project, your STAAD.Pro models can be efficiently managed with the leading project collaboration system.



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DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) NAME LIST





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77	912515103701	SANTHIYA.G	G. San huya.
78	912515103319	SEVUGAPERUMAL.R	
79	912515103320	VENKATESHAN.R	R. Venkaleshan.



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DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) ATTENDANCE SHEET









SRURAAJA RAAJAN COLLEGE OF ENGINEERING AND TEAUNIARSY DEPARTMENG OF CIVIL ENGINEERING MEE CADD OFFERED STADD FRO COURSE (0) Ang 2018 - 11 Sep 2018)

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Sri Raaja Raajan Coma Amaravathipudur, Karaikudi - 630 Amaravathipudur, Karaikudi - 630 Sivagangai Dist. Tamil Nadu



146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301. Ph: 04565 - 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) COURSE OUTCOME





Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Add on Courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Add on Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Added on Courses are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Added on Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	STADD.PRO/2018	THEORY	20	100
		PRACTICAL	80	



PRINCIPAL
Sri Raaja Raajan Kowate of Engg. & Tech.,
Amaravet Strickudi - 630 301
Stragangar Disc. Tamil Nadu



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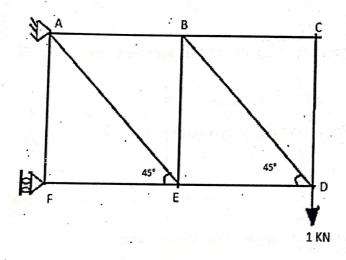
DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

STADD PRO QUESTION PAPER SET

		•	
1. Which of the follo	owing structural loads	are not applied commonl	ly to a building?
a):Environmental los	nd b) Live load	e) Dead load	d) Rain load
the maximum permitt	etural member supported reduction %?	ing more than one floor w	ith load exceeding 100psf., what is
a) 20	b) 25	c) 15	d) 10
 Which of the follor Two hinged arch 	wing is statically dete b) Fixed beam	rminate structure? c) Double overha	nging d) Continuous beam
4.In the equation U-0. counteracts that due to	9D + 1.6W + 1.6H, wha W or E?	t is the load factor for H if	and the second s
a) 0.005	b) 0	c) 0.1	d) 0.05
5. What will be V_{max} a) .04813gw	in the above question b) .01813gw		o of structural steel frames? d) .03813gw
6. If we use link supple) 1	port in a structural sys	tem, then how many unk	
. Which of the follow	wing material is not us	sed in making trusses?	
) Metal bars	b) Concrete		d) Channel

8. Calculate the force in member BC.



b) $2-\sqrt{KN}$ (TENSILE)

c) 1KN (TENSILE)

d) 1KN (COMPRESSIVE)

9/Why is base plate provided in short roof trusses?

b) As provision for temperature related expansion/contraction

c) To transmit load effectively d). For stability

10. Which of the following is false for deflection of a point nearby a fixed support? a) Displacement and slope is zero b) Displacement as well as slope is non-zero c) Displacement is zero d) Slope is zero	
11. Which structure will perform better during earthquake? a) Statically determinate and indeterminate b) Depends upon magnitude of earthquake c) Statically indeterminate d) Statically determinate	
 12. Which type of structure would cost less in terms of materials? a) Statically indeterminate b) Both will cost equally c) Depends upon loading d) Statically determinate 	
a) flexural load b) bending load c) axial load d) shear load	
13. When a structural member of the uniform section is subjected to a moment at one end only, then a) Stiffness of member b) Capacity of member c) Potential of member d) Resistance of member.	
a) Obtuse triangle b) Right angled triangle	
15. What will be the static lateral force at 10 th level of a structure if total gravity load is x and portion a) 0.01x	
16. If a structure has total 10 joints, then what should be the minimum no. of joints in which a) 9 b) 10	
17) U _i is not developed when?	
18. If a structure has 2j - r no. of members, then it will be: a) depends upon structure b) depends upon magnitude of load c) unstable d) stable	
19. To draw qualitative ILD of indeterminate structure, which of the following concept is used. a) Mullers Breslou's Principle b) Kani's Method c) Unit Load Method d) Castigilano's First energy theorem	
20. Which of the following material will have the highest value of response modification factor?a) Structural steel framesb) Reinforced concrete shear wallsc) Wood	
d) Reinforced concrete frames with flexible joints	
Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu	

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

	STADD PRO	QUESTION PAPER SET	1-00
1. Which of the follow	ing stmoto11	not applied commonly to a	huilding?
	Julive load	c) Dead load	d) Rain load
the maximum permitted	tural member supporting in the supporting in the supportion the supportion the supportion in the support in the suppo	more than one floor with loa	d exceeding 100psf., what
1,20	· b) 25	c) 15	d) 10
y a wo minged arch	ving is statically determing b) Fixed beam	c)Double overhanging	
4. In the equation U-0.9	D + 1.6W + 1.6H, what is	the load factor for H if the str	uctural action of H

a) 0.005 b) 0 c) 0.1

5. What will be V_{max} in the above question if the hospital is made up of structural steel frames? a) .04813gw b) .01813gw c) .02813gw

6. If we use link support in a structural system, then how many unknowns would we have?

a) 1 ,b)/2 c) 0

7. Which of the following material is not used in making trusses?

a) Metal bars b) Concrete

c) Wooden struts

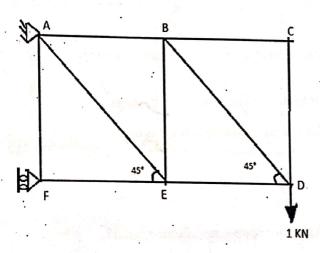
d) Channel

d) 4

d) .03813gw

8. Calculate the force in member BC.

counteracts that due to W or E?



b) 2-√KN (TENSILE)

c) 1KN (TENSILE)

d) 1KN (COMPRESSIVE)

9. Why is base plate provided in short roof trusses?

b) As provision for temperature/related expansion/contraction

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13. When a structural member of the uniform section is subjected to a moment at one end only, the moment required so as to rotate that end to produce a unit slope, is called a) Stiffness of member b) Capacity of member c) Potential of member d) Kesistance of member.	100
14.If in an interior beam, adjacent structures are exactly similar then the tributary area is:- a) Obtuse triangle b) Right angled triangle c) Acute triangle d) Trapezium	
15. What will be the static lateral force at 10 th level of a structure if total gravity load is x and portion assigned to the 10 th level is 10%? a) 0.01x b) x c) 0.001x d) 0.1x	
16. If a structure has total 10 joints, then what should be the minimum no. of joints in which equilibrium equations should be concurrently satisfied for stability? a) 9 b) 10 c) 8 d) 7	
17) U _i is not developed when? a) Structure deforms b) Structure elongates c) External force is zero d) Structure be	ends
18. If a structure has 2j - r no. of members, then it will be:- a) depends upon structure b) depends upon magnitude of load c) unstable d)-stable	
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20. Which of the following material will have the highest value of response modification factor? a) Structural steel frames b) Reinforced concrete shear walls c) Wood	-doja
I) Reinforced concrete frames with flexible joints	

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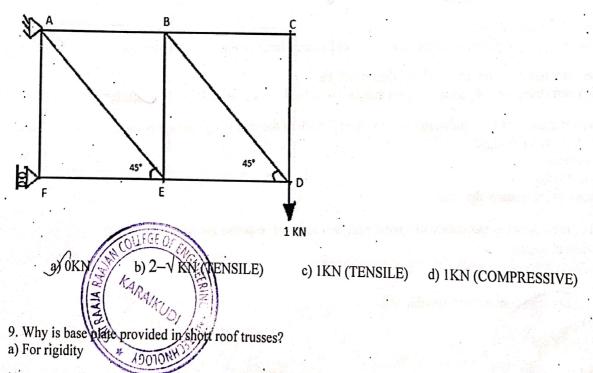
DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

STADD PRO QUESTION PAPER SET

 Which of the followard Environmental load 	wing structural loads a d by Live load	re not applied commonly to c) Dead load	a building? d) Rain load
the maximum permitte	ctural member supporti	ng more than one floor with	load exceeding 100psf., what is
a) 20	b) 25	c) 15	d) 10
3. Which of the followa) Two hinged arch	wing is statically deter b) Fixed beam	minate structure? c) Double overhangin	ng d) Continuous beam
4.In the equation U-0.9 counteracts that due to a) 0.005	PD + 1.6W + 1.6H, what W or E? b) 0	is the load factor for H if the c) 0.1	structural action of H d) 0.05
5. What will be V _{max} a) 04813gw	in the above question b) .01813gw	of the hospital is made up of c) .02813gw d) .	f structural steel frames? 03813gw
6. If we use link suppa) 1	port in a structural syst	c) 0 d) 4	
7. Which of the follow	wing material is not us	ed in making trusses?	
a) Metal bars	b) Concrete	c) Wooden struts d) (Channel

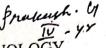
8. Calculate the force in member BC.



b) As provision for temperature related expansion/contraction

c) To transmit load effectively d) For stability

	a) Displacement and slope is zero b) Displacement as well as slope is non-zero c) Displacement is zero d) Slope is zero	- 824
	11. Which structure will perform better during earthquake? a) Statically determinate and indeterminate b) Depends upon magnitude of earthquake c) Statically indeterminate d) Statically determinate	
	 12. Which type of structure would cost less in terms of materials? a) Statically indeterminate b) Both will cost equally c) Depends upon loading d) Statically determinate 	
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	16. If a structure has total 10 joints, then what should be the minimum no. of joints in which equilibrium equations should be concurrently satisfied for at 1 111.	
	b) 10 c) 8 d) 7	
	17) U _i is not developed when? a) Structure deforms b) Structure elongates c) External force is zero d) Structure bends	
	18. If a structure has $2j - r$ no. of members, then it will be:- a) depends upon structure b) depends upon magnitude of load c) unstable d) stable	•
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	d) Castigilano's First energy theorem	
	20. Which of the following material will have the highest value of response modification factor? b) Reinforced concrete shear walls	
(c) Wood d) Reinforced concrete frames with flexible joints	
	Tomate de Complete d'airies with flexible joints	
	KARAIKUDI (S)	
	· VIONE WE	





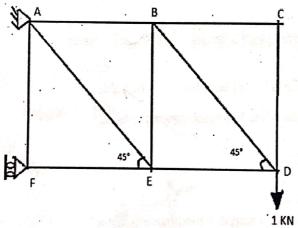
SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

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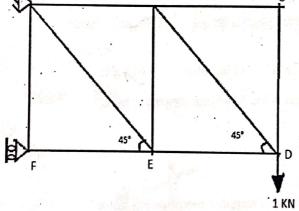
ADD ON COURSE

STADD PRO QUESTION PAPER SET

a) Environmental loa	d b) Live load	• •		oad
2. In the case of a stru the maximum permitt	ctural member support			
3)20	b) 25	· c) 15	d) 10	
3. Which of the follo a) Two hinged arch	wing is statically deter b) Fixed beam	minate structure? c) Double over	hanging d) Co	ontinuous beam
4.In the equation U-0. counteracts that due to	9D + 1.6W + 1.6H, wha W or E?	t is the load factor for H	if the structural acti	on of H
a) 0.005	b) 0	0)87.1	d) 0.05	
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b) 2-√KN (TENSILE)

c) 1KN (TENSILE)

d) 1KN (COMPRESSIVE)

9. Why is have plate provided in short roof trusses?
a) For rigidity KARAIKUDI

b) As provision for temperature related expansion/contraction

c) To transmit load effectively

d) For stability

	 10. Which of the following is false for deflection of a point nearby a fixed support? a) Displacement and slope is zero b) Displacement as well as slope is non-zero c) Displacement is zero d) Alope is zero 	
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έ	20. Which of the following material will have the highest value of response modification factor?	
C	b) Reinforced concrete frames with flexible joints PRINCIPAL Sri Raaja Raajan College of Engg. 2: Ted Amaravathipudur, Karaikudi - 6: 3 301 Sivagangai Dist. Tam., N.	hs I



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DEPARTMENT OF CIVIL ENGINEERING COURSES ON STADD PRO

PRACTICAL EXAMINATION:

80 MARKS

- 1. Analysis Beam using Stadd.Pro.
- 2. Analysis Column using Stadd.Pro.
- 3. Analysis Slab using Stadd.Pro
- 4. Analysis Roof using Stadd.Pro
- 5. Analysis Floor using Stadd.Pro
- 6. Analysis Foundation using Stadd.Pro
- 7. Analysis Basket Ball using Stadd.Pro
- 8. Analysis Auditorium using Stadd.Pro
- 9. Analysis Cricket Stadium using Stadd.Pro
- 10. Analysis Hostel using Stadd.Pro

Sri Raaja Raajan College of Engg. & Tech



Aug 2018 -15 Sep 2018)

and the same of	MEE CA	DD OFFERED STADD.PRO	COURSE (01 A)	ug 2018 -15 i	Sep 2018)
S.NO		NAME	Theory(20 marks)	Practical(80 marks)	Total(100
1	912515103001	ABINASH.B	17	76	93
2	912515103002		13	74	87
3	912515103003		14	69	83
4	912515103004		16	74	90
5	912515103005		17	72	89
6	912515103006		19	71	90
7	912515103007		20	70	90
8	912515103008		16	76	92
9	912515103009		15	74	89
10	912515103010		18	69	87
11	912515103011		12	74	86
12	912515103012		17	72	89
13	912515103014		18	71	89
14	912515103015	KABILAN.K	15	70	85
15	912515103016	KALIDASS	15	73	88
16	912515103018	KAVITHA.V	14	78	92
17	912515103019	LINGANATHAN.N	13	79	92
18	912515103020	MADHUBALAN.A	14	76	90
19	912515103021	MADHUMITHA.M	16	74	90
20	912515103022	MAHENDRAN.A	17	69	86
21	912515103024	MANIKANDAPRABU.M	19	74	93
22	912515103027	MARIMUTHU.A	20	72	92
23	912515103029	MOHAMAD RILWAN.N	16	71	87
24	912515103030	MOHAMED ASHIK.S	15	70	85
25	912515103031	MUTHU.M	18	73	91
26	912515103033	MUTHUMEENAL.P	12	75	87
27	912515103034	MUTHUPRABAHAR.V	17	74	91
28	912515103035	NISANTHAN.R	18	73	91
29	912515103301	AJITH.G	16	72	88
30	912515103302	ARAVIND.K	19	71	90
31	912515103303	ARTHI.T	19	72	91
32	912515103305	BALASUBRAMANIYAN.C	20	71	91
33	912515103306	BARATHIRAJA	16	70	86
34	912515103307	BASKARAN.P	15	73	88
35	912515103308	DINESHKUMAR.R	18	75	93
36	912515103309	GANESAN.P	15	74	89
37	912515103310	KANNAN.A	16	73	89
38	912515103311	LAVANYA.C	14	72	86
39	912515103312	LOORTHUMARIYAN.B	12	78	90
40	912515103036	PALANIMURUGAN.K	17	79	96
41	912515103037	PANDIAN	18	76	94
42	912515103038 F	PANDI MANIKANDAN.M	16	78	94
43		PILLAPAN	15	79	94
1	4	PRADEEP.D	14	76	90
IKUDI)					

45	912515103041	PRADEEPA	13	74	87
46	912515103042	PRAKASH RAJ	14	69	83
47	912515103043	PRAVEEN KUMAR.V	16	74	90
48	912515103044	PRAVINKUMAR.A	17	72	89
49	912515103046	RANIGA.S	19	71	90
50	912515103047	RANJITHKUMAR.K	20	70	90
51	912515103048	RAYAPRIYAN.M	16	73	89
52	912515103050	SALMAN.M	15	78	93
53	912515103051	SANKAR.M	18	79	97
54	912515103052	SARATHKUMAR.K	15	76	91
55	912515103052	SARAVANA KUMAR.K	18	74	92
56	912515103054	SARAVANA KOWAK.K	13	69	82
57	912515103054	SATHYAPRIYA.S	12	74	86
58	912515103057	SIVAKUMAR.M	17	72	89
59	912515103057	SOMASUNDARAM.M	18	71	89
60	912515103059	SRINIVASAN.S	16	70	86
61	912515103059	SUNDARAMOORTHY.N	15	73	88
62	912515103060	SUNDARI.V	14	75	89
63	912515103061	SURENDHAR.V	13	74	87
64	912515103062	SURYA.P	14	73	87
65	912515103064	SYED ANVAR.N	16	72	88
66	912515103065	USMAN ALI.A	17	78	95
67	912515103066	VIGNESH.A	19	79	98
68	912515103067	VIJAY.P	20	74	94
69	912515103068	VIJAYA KUMAR.K	16	69	85
70	912515103069	ESWARAN.K	15	74	89
71	912515103313	MANIKANDAN.C	18	72	90
72	912515103901	NAGAPANDI.M	12	71	83
73	912515103314	POOVARASAN.V	17	70	87
74	912515103315	PRAKASH.G	12	73	85
75	912515103316	RAJESHKANNAN.A	16	78	94
76	912515103317	SAKTHIPRABAKARAN.S	12	71	83
77	912515103701	SANTHIYA.G	17	70	87
78	912515103319	SEVUGAPERUMAL.R	18	73	91
70					



PRINCIPAL

Sri Raaja Raajan College of Engg. & Too
Amaravathipudur, Karaikudi - 6

Sivagangai Dist. Tamil Naco

Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING STADD PRO (2018-2019) CERTIFICATE







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CAD/CAM/CAE Training Institute PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To Mr/Ms. POOVARASAN V

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S. SURESH Head (Training)

S. SURESH INSTRUCTOR MEE CADD



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ARTHI P Mr/Ms...

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CAD/CAM/CAE Training Institute PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To

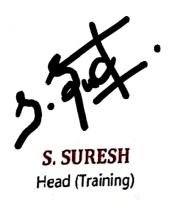
Mr/Ms...AJITH K

in STADD PRO COURSE By

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: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING ADD ON COURSE **REVIT ARCHITECTURE (2021-2022)**





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DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) SYLLABUS



Sri Raaja Raajan Courage of Engg. & Tech., · Amaravath Swaganger Disc. famil Nadu



COLLEGE OF ENGINEERING AND TECHNOLOGY

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

146 /4B1, Amaravathi Village,

Amaravathipudur (Po.),

Karaikudi - 630 301.

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E-mail: srrcet2010@gmail.com Website: www.sriraajaraajan.in

Ph: 04565 - sailal 23 DHall 6 Wise Topic

451	No	#230 Hoturo Wiste Topic	Website: www.sriraajaraajan.in
	HOU	RS:	
	1.00	vanetion	Date:
	1	Overview	
	1	Project Templates	2
	1	Tool Palettes	
		Default Project Template	
	1 .	 Exploring the User Interface 	
		Starting a Project '	
	HOUR	RS: Project Units	
	2	• Dimensions	
		• Levels	
		Modifying level & editing	
		Create Grids, Editing grid	
	HOUR		
	3	Wall Properties	
		Wall Shapes & Draw panel	
	100	Profile edit	
		Wall Joins	
	3.1.2	Working with Grids	
		Drawing a plan	
H	HOURS		
- 1			
	4	Move, Copy, Paste,	•
		Create Similar , Rotate , Mirror,	
-1		Array , Scale , Scale , Trim / Extend Array , Scale , Scale , Trim / Extend	
-		Offset , Align, Split, Split Face	
. 1	HOURS		
-	5	Introduced to concrete & steel column	일 등 사람들 하는 말하다. 하는 사람
1		Modeling steel column	
		Modeling concrete column	
1.		Placing column at grids	
1		Rotate after placement	
T	HOURS:		
1	5	 Introduction of foundation 	
1		Introduction Isolated footing	
1.		Introduced to & Wall foundation	
1		Placing footing at grid	일이 생물이 그렇게 되었다. 하지만
H	OURS:	Beam	
7	, , , ,	Introduced to concrete & steel beams	
'		Concrete arc beam	
		Draw beam using chain option	
0.0		Draw beam using grids Draw beams using grids	
-			
	OURS:	Annotation command	
8		• Dimensions	
		• Text	•
1	.	 Model Text 	
_		Model line	
Hoo	MRS	Cloors	
9	TW.	• Introduction to floor	
,	Ye		
	$\mathbb{Z}_{\cdot}\mathbb{N}$	Introduction to type of floors Inserting different type of layers in floor	
TK	UDI' 	품비	

63, T.T. Nagar Church 3rd Street, Opp. to Golden Singar Hotel, Karaikud OH 830 001

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111,04000	234230	/ 326132	Website: www,sriraajaraajan.in
		Type properties of floor	
		Edit floor property	Date:
·	HOU	Create duplicate floor	
	RS:	Slab	
	10	Introduced to slab	
	10	Draw a slab using boundary line	
* 57		Type properties of slab	
		Edit slab property Create duality	
	HOURS:	Create duplicate slab Openings	
•	11	Vertical Opening	
		Shaft opening	그리 이 이 그는 그는 그리트 중에 바다 다시다.
**		Multiple floor Shaft opening	
		Wall opening	
` [Opening By Face	
	HOU	Component	
	RS:	Loading Component	
	12	Placing Components	
		Modifying Properties	
		Visibility Graphics	
	HOU	Reinforcement	
	RS:	 Introduced to reinforcement 	
	13	Reinforcement in column & beam	
	(New)	Wall reinforcement	
		Stirrup reinforcement Introduction to a live	그 없어 가장 얼마나라 그 집에 다니다.
	HOU	Introduction to cover & editing cover Column Rebar Detailing	
	RS:	Column Rebar	
	14	Column Covering	
		Beam Rebar	현대 화면 되어 되었다. 그 사람들이 그 나가요
		Beam covering	
	HOU	TRUSS	
- 1	RS:	 Introduce to steel frame structure 	
	15	How to create truss	
2 %		Introduce to Brace	유럽 어느리 시민들의 사내가 먹어.
	21	Create Bracing in truss	끝이 많이 반지 만나는 살이 얼마나 다니다.
.	lOU	Introduced to Beam System	
	RS:	Insert Tab • Decal	
-10		DecalCreate Decal and Setup Decal	
	4 A	Insert CAD File	
		Load Family	
	OU	Schedule	<u></u>
R	5 NAHRYA	Beam schedule	
1/ CF ED	BIMEHA	Column Schedule	
1/35		T.	
	L.		
18	MUDI	Material Takeoff Wall material takeoff	[기존 그는 기술은 경기를 받았다
18 18	OURS: [Devailing	
10		Callout views	

Trust Office 106. 24/63, T.T. Nagar Church 3rd Street, Opp. to Golden Singar Hotel, Karaikudi – 630 001.

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REVIT STRUCTURE

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Website: www.sriraajaraajan.in

		Duplicate View	Date:
		 Creating Details 	Date.
	1 1	Repeating Detail	
and the same	25	Drafting Views	
	- 1	Prairing views	
	HOURS	Symbols	
	:19	-,563	
	""9	 Exercise related above tools 	
		• · Field Region	g to the second of the second
		Revision Cloud	
	HOU	Sheet	
	RS:		
	20	1 rading a Sileet	
•		Adding Views to a Sheet	
	April 1995	 Modifying a View on a Sheet 	
•		Creating a Title Sheet	
,		Printing Setup	
	HOU	Visibility & Graphics	요요 <mark>는 전하다 하시네. 하시고 사는 1</mark> 보다 보다.
	RS:	a Down I	
	21	Rendering	
	7.	Camera	
	1	Walkthrough	
	- 19	Export Image and walkthrough	
		- Fore image and walkthrough	하네요. 뭐, 나 요요하셔서 어떻게 . ㅋㅋㅋㅋㅋㅋ
	HOU	Fabric Poinforce	기계속 하게 하다는 것이 되었다.
	RS:	1 done relinorcement	
•	22	Match Line	
		Scope Box	
	. Park Week	Drafting Spot Dimension	
		- S-Pot Difficultion	
•	·HOU	Legend	
	RS:	Create Legend	그 보기 마니다 나타를 가지 그 나다
	23	Create Legend	
		Use Detail Line	
		Line Styles and Line Weights	
		Line Patterns	하는 그 마이 맛있다면 하는 그는 사람이 없다.
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e in the second	14. 4. 4.	선생선에 대통하는 전 보는 경기가는 경하는 것이라고 있다.	그렇게 하고 이 경에 먹는 사람이라고
	HOU	In-Place Families	
	RS:		
	24	Setting Work Planes	
	Jan Janas	Creating and Modifying	
	The second	In-Place Families	
	HOU	Family Creation	서[42] 그 그리고 얼마나 그 중인생
de l'Agreeia	RS:		
	25-26	Introduction Architecture Template	
		Gredling Collimn & Donne	
	1	MITHILERIA	
	HONES	Short Reminder of All commands& doubts and discussion	. [] - [- [] - [] #
The second	27/385/	oubts and discussion	
	HOURS:	PROJECT WORK	이 그리는 이번째복하는 그 것 같았다.
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	1131	15 S	- AAGISIAL
	1121 Y	Sri Rad	PRINCIPAL DE Tech.
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	NE Y	Sti Rad	PRINČIPAL Ja Rāājaii Čollēgē of Engg. & Tech., Tovathipudur, Karaikudi - 630 301 Tovathipudur, Karaikudi - 630 001

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40HRS

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DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) REPORT



Sri Raaja Raajan Courage of Engg. & Tech., · Amaravath Swaganger Disc. famil Nadu





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Website: www.sriraajaraajan.in

Duration340:HOURS

Name of the Course: Revit Architecture

Course Conducted by: MEE CADD

Number of students attended:

Start Date: 01st Mar 2022

End Date: 22nd Apr 2022

INTRODUCTION

Autodesk Revit allows architects, engineers and construction professionals to:

Model shapes, structures and systems in 3D with parametric accuracy, precision, and ease.

- Streamline project management with instant revisions to plans, elevations, schedules, sections and sheets.
- Unite multidisciplinary project teams to be more efficient, collaborative and impactful.

Revit MEP

Autodesk Revit MEP, or Mechanical, Electrical and Plumbing is a BIM tool that helps in working on MEP engineering designs. This is a narrow-and-defined channel that exclusively deals with engineering designs and drawings on specific engineering protocols. Revit MEP specific tools can be found on the 'Systems' tab. It is not without meaning that the tab is called systems. Its tools are about the systems involved in mechanical systems (ventilation), electrical distribution systems, and plumbing and gas systems. Each system is a fully equipped unit. Revit systems will complain if they are not valid. They can for example tell you how much drop-in pressure there will be in the ventilation system out plumbing system.

Revit Structure

Revit + Insight

Conduct analysis to inform design decisions for sustainable building design.

Revit + ReCap

Use ReCap to import, view, and convert point cloud data. Then, use the data in Revit for

Dynamo

Auternate routine workf

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DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) NAME LIST









SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED Revit Architecture COURSE (1nd Mar 2029- 10th May 2022) SNO REG NUM NAME SIGNATURE 912517103002 Abiraj.s 2 912517103004 Arhindh.K 3 912517103007 Balamuraugan vr 4. 912517103008 Brindha 5 912517103010 Dhanabalan.T 6 912517103011 Gnanasekaran 7 912517103012 Gobalakrishnan 912517103013 8 Gokhul 9 912517103014 Gopinath 10 912517103015 Hameedriswan 11 912517103016 Jayalakshmi.R 12 912517103017 Karthickraja 13 912517103018 Krishnaveni 14 912517103019 Lalithadevi.A 912517103020 Maheshboopathi 16 912517103021 Mathikumar.S 912517103022 Muthuperumal 912517103023 Naveenkumar.m 912517103024 Naveenkumar.M 20 912517103025 Naveenkumar.s 21 912517103025 Pradeepraj 22 912517103027 Prakash 23 912517102028 Prasannaraaj 24 912517103029 Praveen.V 912517103030 Ragupathi 912517103031 26 Rajachandran 27 912517103032 Rajesh 28 912517103033 Ramya 29 912517103034 Santhiyagubritto.S 912517103035 Sevugarajan.S 912517103036 31 Siva 32 912517103038 Sowmiya.J 912517103039 33 Sriram 34 912517103040 Sundaramoorthy.T 35 912517103041 Thirumurugan 36 912517103044 Usha Nanthini 912517103045 37 Vasantha Ragavi.V 912517103046 38 <u>Veeramani</u>kandan 39 912517103048 Vijayalakshmi 912517103049 Vimalraj 912517103301 Aravinth.V 912517103302 42 lyappan 43 912517103303 Kuppusamy raj 912517103305 44 Sarmila 45 912517103306 Sundhar Umarbasha Vellaikalai 912517103309 Vignesh 912517103310 Vijay.R 912517103501 Rajalakshmi \$arkuna Sri Raaja 146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301.

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DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) ATTENDANCE SHEET









SRI RAAJA RAAJAN "OLLEGE OF ENGINEERING AND TECHNLOGY DEPAR TMENGT OF CIVIL ENGINEERING JEEF CADD OFFERED R: 31 Architecture COURSE (and Mar 2012 - 10th May, 512) ATTENDANCE SHEET"

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146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301. Ph: 04565 - 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) COURSE OUTCOME



Sri Raaja Raajan Courage of Engg. & Tech., · Amaravath Swaganger Disc. famil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Add on Courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Add on Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Added on Courses are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Added on Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	Revit Architecture/2022	THEORY	20	100
		PRACTICAL	80	



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Sri Raaja Raajan Kowane of Engg. & Tech.,
Amaravet Service Society of Service Service Service Nadu



NAME:

YAER:

- 1. Which command is used to place a free-standing element, such as furniture?
 - a) Component b) Repeating Detail c) Model-In-Place d) Detail Components
- 2. Which statement is FALSE about stair sketches?
- a) Boundary lines must be open lines b) Risers must be parallel c) The user is provided with the desired riser count must touch the boundary lines d) All riser lines
- 3. Which statement about drafting views is false?
- a) You can adjust view scale and detail level on Drafting Views b) Drafting views show the building model c) Drafting views are 2D only d) You can import CAD files into Drafting Views
- 4. In which view type can place a level?
 - a) Floor Plan b) 3D c) Elevation d) Ceiling Plan
- 5. Which statement is FALSE?
- a) Text scale with the view b) You can paste text from Microsoft word into a text object c) Text leaders must be placed separately d) Text is view specific
- 6. What does the small triangle next to the roof boundary line indicate in the roof sketch?
 - a) Overhang b) Height c) Slope d) Orientation
- 7. Which is not a dimension style?

mear b) Angular c) Temporary d) Radial

hich is NOT a valid option when sketching a ceiling?

Construction Life b) Pick line c) Slope Arrow d) Pick Walls

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b) Type c) Function d) Boundary	
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. Families	•
14. When you model a roof, it is automatically associated with a	
a) Level b) Wall c) View d) Material	
15. When you change the height of a level, all of the associated elements will	
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16. Which one is not a 3D view type?	
a) Shaded b) Hidden c) Orthographic d) Consistent Colors	
17. When you create a new level, views are created by default	
a) Sheet b) Coordination c) Plan d) Elevation	
18. A title block is a	
a) Block b) Family c) Group d) Viewport	
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(3) Site surface b) Toposurface c) Floor Slabs d) Earth surface	
20. When creating a straight run, the run lines that indicate slope are color.	٠.
a) Blue b) Green c) Red d) Black	Sri

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Sivagangai Dist. Tamil Nadu



NAME: ARHINDH. K

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146 AB1, Americathi Village, Amaracathipudur (Po.), Karaikudi - 630 301. Ph : 04868 - 234230 / 120132 Pax (04565 - 234430 Mobile : 73737 11322, 73737 11333 Famall : street2010@gmail.com Website: www.ru@gmailar.org

DEPARTMENT OF CIVIL ENGINEERING

COURSES ON Revit Architecture

PRACTICAL EXAMINATION:

80 MARKS

- 1) Model a two bedroom building using Revit Architecture.
- 2) Model a Resort using Revit Architecture
- 3) Model a Airport using Revit Architecture
- 4) Model a Auditorium using Revit Architecture
- 5) Model a Hospital using Revit Architecture
- 6) Model a Cricket Stadium using Revit Architecture.
- 7) Model a Tennis Court using Revit Architecture
- 8) Model a Railway Terminal using Revit Architecture.
- 9) Model a Multistoried Building using Revit Architecture.

10) Model a IT Company using Revit Architecture.

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED Revit Architecture COURSE (1nd Ma

	MEE CADD OF	TERED Revit Architecture CO	URSE (1nd M	ar 9099- 10t	h May 2022)
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9	912517103004	Arhindh.K	17	74	91
3	912517103007	Balamuraugan vr	14	73	87
4	912517103008	Brindha	12	72	84
5	912517103010	Dhanabalan.T	17	78	95
6	912517103011	Gnanasekaran	18	79	97
7	912517103012	Gobalakrishnan	16	76	92
8	912517103013	Gokhul	15	78	93
9	912517103014	Gopinath	14	79	93
10	912517103015	Hameedriswan	13	76	89
11	912517103016	Jayalakshmi.R	14	74	
12	912517103017	Karthickraja			88
13	912517103018	Krishnaveni	16	69	85
14	912517103019	Lalithadevi.A	17	74	91
15	912517103020		19	72	91
16	912517103021	Maheshboopathi	20	71	91
17	912517103021	Mathikumar.S	15	70	. 85
18	912517103022	Muthuperumal	15	73	88
		Naveenkumar.m	18	75	93
19	912517103024	Naveenkumar.M	15	74	89
20	912517103025	Naveenkumar.s	16	73	89
21	912517103025	Pradeepraj	14	72	86
22	912517103027	Prakash	12	78	90
23	912517102028	Prasannaraaj	17	79	96
24	912517103029	Praveen.V	18	76	94
25	912517103030	Ragupathi	16	78	94
26	912517103031	Rajachandran	15	79	94
27	912517103032	Rajesh	14	76	90
28	912517103033	Ramya	13	74	87
29	912517103034	Santhiyagubritto.S	14	69	83
30	912517103035	Sevugarajan.S	16	74	90
31	912517103036	Siva	17	72	89
32	912517103038	Sowmiya.J	19	71	90
33	912517103039	Sriram	20	70	90
34	912517103040	Sundaramoorthy.T	10	73	83
35	912517103041	Thirumurugan	15	78	93
36	912517103044	Usha Nanthini	18	79	97
37	912517103045	Vasantha Ragavi.V	15	76	91
38	912517103046	Veeramanikandan	18	74	92
39	912517103048	Vijayalakshmi	13	69	82
40	912517103049	Vimalraj	12	74	86
41	912517103301	Aravinth.V	17	72	89
42	912517103301	lyappan	18	71	89
	912517103302		16	70	86
43		Kuppusamy raj Sarmila	15	73	88
44	912517103305				
45	912517103306	Sundhar	14	75	89
46	912517103307	Umarbasha	13	74	87
LEJAE	912517103308	Vellaikalai	14	73	87
48	912517103309	Vignesh	16	72	88
RAIBUE	9 2 17103310	Vijay.R	17	78	95
KAMOO O	912517103501	Rajalakshmi	19	79	98
51	912317103502	Sarkuna	20	74	94

PRINCIPAL
Srı Raaja Raajan College of Engg. & Tecl
Amaravathipudur, Karaikudi - 630 301
Sivagangai Dist. Tamil Nadur



146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING REVIT ARCHITECTURE (2021-2022) CERTIFICATE







MEE CADD

Made for Energized Engineers

CAD/CAM/CAE Training Institute
PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To

Mr/Ms. UMARBASHA

in

REVIT ARCHITECTURE

By

MEE CADD

Made for Energized Engineers

During 01/03/2022 - 10/05/2022



S. SURESH Head (Training) S. SURESH INSTRUCTOR MEE CADD



MEE CADD

CAD/CAM/CAE Training Institute PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To THIRUMURUGAN Mr/Ms....

> in REVIT ARCHITECTURE By **MEE CADD**

Made for Energized Engineers

During 01/03/2022 - 10/05/2022

Head (Training)

S. SURESH **INSTRUCTOR MEE CADD**



MEE CADD

Made for Energized Engineers
CAD/CAM/CAE Training Institute
PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To

Mr/Ms. ARHINTH K

in

REVIT ARCHITECTURE

By

MEE CADD

Made for Energized Engineers

During .01/03/2022 - 10/05/2022

5. 5 vg.

S. SURESH
Head (Training)

S. SURESH
INSTRUCTOR
MEE CADD



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DEPARTMENT OF CIVIL ENGINEERING ADD ON COURSE **AUTO CADD (2021-2022)**





Swaganger Disc Tamil Nadu

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DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) SYLLABUS









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. 146/4B1, Amaravathi Village,

Amaravathipudur (Po.),

· Karaikudi - 630 301.

: 04565 - 234430 Fax

Mobile: 73737 11343, 73737 11333 E-mail: srrcet2010@gmail.com

Ph: 04	565 - 234230 / 326132	Website: www.sriraajaraajan.in
Serial	Hr Wise Topic	
No:	•	Date:
HR:1	Introduction To Auto CAD	
	User interface of Auto cad (UI)	
25.	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	
•		
HR:2	Units	
	Drafting Settings (OSnap and Otrack)	
	Dynamic Input	
	Options	
	Properties Tab (Line type, line weight, Object Col.)	or)
	Dimensions and Dimensions Style	01)
	and Dimensions Style	
HR:3	Circle (Centre Rad/Dia, 2 point, 3 point, ttr,ttt)	
	Rectangle (Chamfer, Fillet, Width)	
	Polygon (Inscribed, Circumscribed)	
	olygon (machaed, circumscribed)	
HR:4	Ellipse (Centre axis and elliptical arc)	
	Arc	그렇게 많아 없어요 하다면 그는 사람들이 되었다.
	Fillet and Chamfer	
HR:5	Move, Copy, Rotate	
	Offset	하이 하는 얼마는 이 그리면 이 이 모든데 하다.
	Trim, Extend	화사장 다른 경기 가는 용하는 이 사람들이 모르다.
11.	그림 시간 그러는 사람들이 하셨다. 이번 나를 보는다.	
IR:6	Mirror, Join, Break	
1	Stretch and Scale	
	Explode	
	Explose	
IR: 7	LIMITS (ON/OFF/COORDINATE)	
	Match Properties	
	Polylines and Polylines Edit	
	- Polymies and Polymies Edit	
R:8	Layers	
	A CONTRACTOR OF THE CONTRACTOR	선생님은 그는 사람들이 하는 하면 유명하였다.
1	• Layers ON/OFF, Freeze, Lock	
M.	Layer Isolate/Un Isolate	
115	9/ 10/10/1	
	11	

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: 04565 - 234430 Fax

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E-mail: srrcet2010@gmail.com

Website: www.sriraajaraajan.in

HR:9	 Text and Text Style Single line and Multiline text Spell
	 Single line and Multiline text Spell
	• Spell
	Hatch and Hatch Edit
	Open Area Hatch
,	- Parried Hatel
HR:10	Table and Table Style
	Array (Rectangular, Polar and Path)
	Area
	X-Line and Ray
HR:,11	Building Planning Techniques and Vastu Shastra
	Elevations and Sections
	Building Plans
	Group and Group Edit
	Boundary
HR:12	Spline
	Multiline and Multiline Style
	Multileader and Multileader Style
	Parametric Tab (Geometric and Dimensional Constraints)
HR:13	Divide and Measure
Sec 1 - 1	• Lengthen
	Quick Calculator
	Quick Properties
	Advance Selection Methods (Quick Select, Filter, SelectionCycle)
	뭐요요 아이지 않아요 아이들이 가득 돼 가셨는데 뭐라면 뭐하셨다니? 이번 그게 모든
	물 그림의 발표 사고를 보고 얼룩하지 않아 얼마나를 하는 것 같아. 그
HR:14	- Parlim Cantus
11.14	Design Centre
	Tool Pallets and Tool Pallets Creation
	Layout and Template Creation
2.0	Print and Publish Settings
IR:15	Create Block and Insert Block
	Block Editor and Dynamic Block
	Attributes, Edit Attributes
*	Block Attribute Manager
	Attribute Display
	- Accidate Display
R:16	Data Extraction
	Raster image reference and Clip
	• Olé.Object
	•//chyperlink
	E-Transmit CN VIII
	Edit Menu
	IZ VI

o. 24/63, T.T. Nagar Church 3rd Street, Opp. to Golden Singar Hotel, Karaikudi – 630 001.

: 146/4B1, Amaravathi Village, Amaravathipudur (Po.),

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UD.		Date:
HR:17	X-ref and X-bind	
	Reference Edit	
	Import and Export	
	Express Tools	
	Auto Number, Arc Aligned Text, Break line symbol	
	Super Hatch	
	List Properties	ali e Lingue de la Caral
HR:18		
	Introduction to 3D	
	View Manager	
	3D Navigation	
	Visual Style	
	3D Polyline and Polysolid	
HR :19	3D Solids	
	Box, Cylinder, Cone	
	Sphere , Pyramid, Wedge, Torus	
	Spriere, Fyramia, Wedge, Torus	
HR:20	Extrude and Loft	
	Revolve, Intersect and Region	
	Subtract and Union	
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IR:21	a Droce/Dull	
11.21	Press/Pull	
6.	Sweep and 3D Align	
8	• Shell	
- 1		
R:22	Dynamic UCS	
	Rotate 3d, Mirror 3D	
4 /3	Fillet, Chamfer	
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146 /4B1, Amaravathi Village, Amaravathipudur (Po.).

Karaikudi - 630 301.

Ph: 04565 - 234230 / 326132

; 04565 - 234430 Fax

Mobile: 73737 11343, 73737 11333 E-mail: srrcet2010@gmail.com

Website: www.sriraajaraajan.in

Date:

HR: 22			_
	Dynamic UCS	,	
	Rotate 3d, Mirror 3D		
	• Fillet, Chamfer		
	• rillet, Gnamter	N/11/4/4/11	
programme	•		
HR:23			_
111.23	Section Plane		
	 Solid Edit (Face, Edge and Body) 		
	Surface Edit		
	Thicken		
1.1			
HR:24	• Mesh		
1 1 1 1 1	Material	병 경기 교육 시작 경험 등 경험 경험 기계 기계 기계	
	Render		
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ID. an			
IR:25	Motion Path and Animation		
	• Lights		
R:	PROJECT		
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: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) REPORT







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95969 11129, 78989 11585 Reikelle r and i even 20 i defigurant com Walkeline or how empressions organizations

Name of the Course: AUTO CADD

Course Conducted by: CADD Desk

Number of students attended: 47

Start Date: 02nd Aug 2021

Duration: 40 HOURS

End Date: 11th Oct 2021

INTRODUCTION

AUTO CADD is a comprehensive and integrated finite element analysis and design application that includes visualization capabilities, a simple user interface, and a wide range of design codes. You can analyze any structure exposed to static, dynamic, wind, earthquake, thermal, and moving loads. AUTO CADD provides structural analysis and design for any type of project, including buildings, culverts, plants, bridges, stadiums, and marine structures.

Analysis and Design

The standard AUTO CADD analysis methods provide you with a grounding in structural and analysis requirements for an array of projects. When more advanced capabilities are required, you can extend to AUTO CADD Advanced. AUTO CADD reduces the resource hours required to properly load your structure by automating the forces caused by gravity, wind, earthquakes, snow, or vehicles. AUTO CADD can easily accommodate your design and loading requirements, including U.S., Eurocodes, Indian, Russian, Chinese, and Japanese codes. With an unparalleled quality-assurance program, open architecture for customization, and a 25-year track record, more design firms are choosing AUTO CADD.

Extremely Flexible Modeling Environment

The power of AUTO CADD is in a technologically advanced interface. It's easy to get started due to the vast library of online content available, including SIGs that regularly cover specialist topics and courses available in the Bentley Learn Server, in addition to online help and dozens of examples to illustrate solutions to commonly raised modeling, analysis, and design issues.

in fact, 80% of new users learn to use AUTO CADD efficiently in under two hours.



146 (401), Amaravathi Villago, Amaravathipudur (Po.), Karnikudi - 630 101, Ph.: 04565 - 234210 / 326112 Fax : 04565 - 214430 Mobile : 73717 11322, 73737 11333 B-mail : street2010/@gmail.com Websife : www.raajaraajan.org

Broad Spectra of Design Codes

Take advantage of steel, concrete, timber, and aluminum design codes from around the world, including historical codes. The breadth of design codes that are built into the program, both current and historical, means that CADD is equally comfortable being used on small local jobs as well as large international projects. As a result, the software grows as your business does.

Interoperability and Open Architecture

AUTO CADD is more than an analysis and design application. From simple importing of CAD models to creating custom links and developing third-party applications, AUTO CADD can be the heart of your structural solution. When integrated with ProjectWise® or integrated into a wider Bentley CONNECT project, your AUTO CADD models can be efficiently managed with the leading project collaboration system.



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DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) NAME LIST





Swaganger Disc Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

CADD DESK OFFERED Auto CADD COURSE (2nd Aug 2021 - 11th Sep 2021)

S.NO	REG NUM	NAME	SIGNATURE
1	912516103001	AJAY.K	Avail
2	912516103002	AJITHKUMAR.C	CATAL SA
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9		JUHEE JAHAN,B	I do la
10		KALEESWARAN,A	D. Kaltockbyron-
11		KARTHIKEYAN.R	Q Vooth bough-
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1	912516103306 D		Thanoseelas D
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DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) ATTENDANCE SHEET









ORI RAAJA RAAJAN CULLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING ADD DESK OFFERED Auto CADD COURSE (2nd Auto 2021) - 11th Sep 2021)

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

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 - 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) COURSE OUTCOMES





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DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Add on Courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Add on Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Added on Courses are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Added on Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	Auto CADD/2021	THEORY	20	100
		PRACTICAL	80	



PRINCIPAL
Sri Raaja Raajan Kowago of Engg. & Tech.
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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

AUTOCADD QUESTION PAPER SET

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 - B. Y
 - C. Z
 - D. WCS
- 2. Origin of the AutoCAD drawing space is,
 - A. 0,0
 - B. 1.0
 - C. 0,1
- 3. In AutoCAD, the number of workspaces is,
 - A. 1
 - B. 2
 - C. 3 ..
 - D. 4
- 4. A Polyline can be broken into individual lines and arcs using which of the following command?
 - E. BREAK
 - F. TRIM
 - G. EXPLODE
 - H. OVERKILL
- 5. Find the false statement in regards with "If an array is made associative".
 - A. You can't use Boolean operations on the array elements
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 F. The Model tab is used for drawing in 3D and a Layout is used for drawing in 2D. F. The Model tab is where you create the drawing, and a Layout tab represents the sheet that you will plot or print and a create the drawing, and a Layout tab represents the sheet that you will plot or print on
- G. The colour of the background
- H. The Model tab displays the drawing you are copying from and the Layout tab is where you lay out the new drawing

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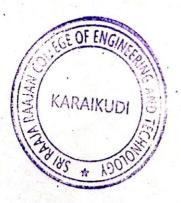
- M. T
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Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Karaikudi - 630 301 Sivagarigai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

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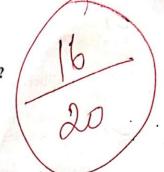
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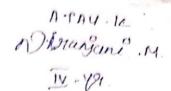
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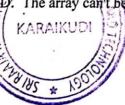


SRI RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY DEPARTMENT OF CIVIL ENGINEERING

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16. Shortcut for Trim command is,

- N. TR
- O. TI
- P. X

17. A Boolean operation that is used to select interfering region between solids,

- Union
- B. Intersect
- C. Subtract

- D. None of the above
- 18. What command allows us to select objects based on some status?
 - A. Properties
 - B. Qselect
 - C. Pselect
 - D. Attributes
- 19. If you change the scale list a project that I have started from 1:50 1:10 then,
 - E. You will have to start over
 - F. You should not raise the objects already exist (scale) by 5
 - G. You will not need to change anything in hitherto methodology
 - H. Should be converted into new items that will add based on the new scale
- 20. How will you create a line representing length 15 units at an angle of 30 degrees with respect to the positive direction of the X-axis and the first point of the line is not at the
 - A. 30<15
 - B. 15<30
 - C. @30<15
 - D/@15<30

KARAIKUDI

Sri Raaja Raajan College Mangg. & Tech. Amaravathipudus, Karaikudi - 630 301 . Sivagangai Dist. Tamil Nadu



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DEPARTMENT OF CIVIL ENGINEERING COURSES ON AUTO CADD

PRACTICAL EXAMINATION:

80 MARKS

- 1) Design of College canteen using Auto CADD
- 2) Design of Basket Ball court using Auto CADD
- 3) Design of Airport using Auto CADD
- 4) Design of Dry Docks using Auto CADD
- 5) Design of Hostel Building using Auto CADD
- 6) Design of residential Building using Auto CADD
- 7) Design of Resort using Auto CADD
- 8) Design of Hospital using Auto CADD
- 9) Design of Fruit shop using Auto CADD
- 10) Design of Auditorium using Auto CADD

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Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

CADD DESK OFFERED Auto CADD COURSE (2nd Aug 2021 - 11th Sep 2021)

s.no	REG NUM	NAME	Theory(20)	Practical(80)	Total(100)
1	912516103001	AJAY.K	11	76	87
2		AJITHKUMAR.C	13	74	87
3	912516103003		14	69	83
4	912516103004		16	74	90
5	912516103005		17	72	89
6	912516103006		19	71	90
7		GOWSALYADEVI.T	20	70	90
8	912516103008		16	76	92
9		JUHEE JAHAN.B	15	74	89
10		KALEESWARAN.A	18	69	87
11		KARTHIKEYAN.R	12	74	86
12	912516103012		17	72	89
13		MADHAN KUMAR.A	18	71	89
14		MARISWARAN.P	15	70	85
15	912516103015		15	73	88
16	912516103016	ACCOUNT OF THE PARTY OF THE PAR	18	78	96
17	912516103017		13	79	92
18	912516103018		14	76	90
19	912516103019	RAJASEKARAN.M	16	74	90
20	912516103020	RAMANATHA SETHUPATHY.S	17	69	86
21	912516103021		19	74	93
22	912516103022	RENGASAMY.G	20	72	92
23	912516103023	SARAVANAN.M	16	71	87
24	912516103024	SASIKUMAR.R	15	70	85
25	912516103025	SELVAKUMARAN.G	18	73	91
26	912516103026	SHANGAR.S	12	75	87
27	912516103027	SUNDAR.S	16	74	90
28	912516103301	ABDUL RIYAS.A	18	73	91
29	912516103302	ARAVINTH.A	16	72	88
30	912516103304	BALASUBRAMANI.T	19	71	90
31	912516103306	DHANASEELAN.D	19	72	91
32	912516103307	OKUL KANNAN.K	20	71	91
33	912516103308	LAVASRASAN.R	16	70	86
34	912516103310 K	ARPAGASUNDARAM.M	15	73	88
35	912516103310 K	ULOTHUNGAN.E	18	75	93
36	912516103311 L	OGESWARAN.P	15	74	89
37	912516103312 N	NADHAVAN.U	16	73	89
38	912516103313 N	1AREESHWARAN.C	14	72	86
39	912516103314 N	10HAMED RAFIQ RAJA.M	12	78	90
10	912516103315 N	AVINKUMAR.N	17	79	96
1	912516103316 P		18	76	94
2	912516103318 R		16	78	94
3	912516103319 R		15	79	94
4	912516103320 RI		14	76	90
30		VARAMAKRISHNAN.P	13	74	87
6119			14	69	83\ \
913	912516103501 M		16	74	30/

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DEPARTMENT OF CIVIL ENGINEERING AUTO CADD (2021-2022) CERTIFICATE FRONT







SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE & Affiliated to Anna University) Amaravathinudhur. Karaikudi - 630 301.

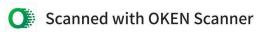
CERTIFICATE OF PARTICIPATION

This is to certify that ______ AJAY K _____ of SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY has participated in Diploma Course in AUTO CAD held on 02.08.2021 To 11.09.2021, organized by Department of Civil Engineering in association with CADDESK, Karaikudi.

CADDESK Branch Managing Director HOD / CIVIL







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SRI RAAJA RAAJAN	COLLEGE OF ENG	GINEERING ANI	TECHNOLOG'	Y has
participated in Dipl	oma Course in	AUTO C	AD h	eld on
02.08.2021 To 11.09.2	021, organized b	y Department	of Civil Engine	ering in
association with CADI	DESK, Karaikudi	•		J

CADDESK Branch Managing Director HOD/CIVIL





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This is to certify that	TECHNIC AND TECHNI	OLOGY	has
SRI RAAJA RAAJAN COLLEGE OF	ENGINEERING AND TECHN	OLUGI	Has

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CADDESK Branch Managing Director HOD/CIVIL





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DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE(2017-2018) AUTO CAD



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DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) SYLLABUS



PRINCIPAL

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Website: www.sriraajaraajan.in

Date:

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

OF ENGINEERING THE

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DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) REPORT



PRINCIPAL

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Name of the Course: Auto CADD

Course Conducted by: Techno CADD

Number of students attended:79

Start Date: 15th June 2017

Duration: 30 HOURS

End Date: 6th July 2017

INTRODUCTION

Computer Aided Drafting is a process of preparing a drawing of an object on the screen of a computer. There are various types of drawings in different fields of engineering and sciences. In the fields of mechanical or aeronautical engineering, the drawings of machine components and the layouts of them are prepared. In the field of civil engineering, plans and layouts of the buildings are prepared. In the field of electrical engineering, the layouts of power distribution system are prepared. In all fields of engineering use of computer is made for drawing and drafting.

The use of CAD process provides enhanced graphics capabilities which allows any designer to

Conceptualize his ideas Modify the design very easily Perform animation

Make design calculations

Use colors, fonts and other aesthetic features.

REASONS FOR IMPLEMENTING A CAD SYSTEM

 Increases the productivity of the designer: CAD improves the productivity of the designer to visualize the product and its component, parts and reduces the time requiredin synthesizing, analyzing and documenting the design

 Improves the quality of the design: CAD system improves the quality of the design. A CAD system permits a more detailed engineering analysis and a larger number of design alternatives can be investigated. The design errors are also reduced because of the greater accuracy provided by the system

3. Improves communication: It improves the communication in design. The use of a CAD system provides better engineering drawings, more standardization in the drawing, and better documentation of the design, few drawing errors and legibility.

Create data base for manufacturing: In the process of creating the documentation for these products, much of the required data base to manufacture the products is also created.

products is also created.

Limproves the efficiency of the design: It improves the efficiency of the design process and the wastage at the design stage can be reduced

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Date:

APPLICATION OF CAD:

There are various processes which can be performed by use of computer in the drafting process.

- Automated drafting: This involves the creation of hard copy engineering drawings directly from CAD data base. Drafting also includes features like automatic dimensioning, generation of cross – hatched areas, scaling of the drawing and the capability to develop sectional views and enlarged views in detail. It has ability to perform transformations of images and prepare 3D drawings like isometric views, perspective views etc.,
- 2. Geometric modeling: concerned with the computer compatible mathematical description of the geometry of an object. The mathematical description allows the image of an object to be displayed and manipulated on a graphics terminal through signals from the CPU of the CAD system. The software that provides geometric modeling capabilities must be designed for efficient use both by computer and the human designer.

BENEFITS OF CAD:

The implementation of the CAD system provides variety of benefits to the industries indesign and production as given below:

- 1. Improved productivity in drafting
- 2. Shorter preparation time for drawing
- 3. Reduced man power requirement
- 4. Customer modifications in drawing are easier
- More efficient operation in drafting
- Low wastage in drafting
- 7. Minimized transcription errors in drawing
- 8. Improved accuracy of drawing
- 9. Assistance in preparation of documentation
- 10. Better designs can be evolved
- 11. Revisions are possible
- 12. Colors can be used to customize the product
- OLLAG. Production of orthographic projections with dimensions and tolerances
 - 14. Hatching of all sections with different filling patterns

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Karaikudi - 630 301.

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Website: www.sriraajaraajan.in

LIMITATIONS OF CAD

Date:

- 32 bit word computer is necessary because of large amount of computer memory andtime
- 2. The size of the software package is large
- 3. Skill and judgment are required to prepare the drawing
- 4. Large investment.



PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) NAME LIST



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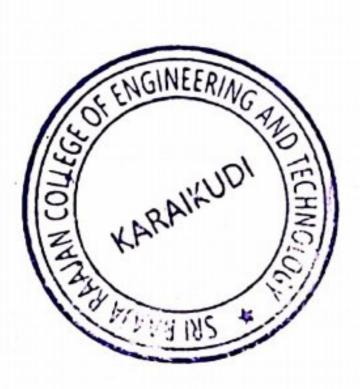
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Amarayath Conage Disc. Tamil Nadu

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

TECHNO CADD OFFERED AUTO CADD COURSE (JUN2017- JUL2017)

S.NO	REG NUM	NAME	SIGNATURE
1	912515103001	ABINASH.B	B. Abinash
2	912515103002	AJITH.K	Aiithile
3	912515103003	AMEER DEEN.S	-C - (1) - cc -
4	912515103004	ARASATCHI.N	
5	912515103005	ARUL PRAKASH.S	Archalold
6	912515103006	DINESH KUMAR.U	Aralpsakost.
7	912515103007	DIVYA BARATHI.M	D. Direstiken.
S	912515103008	GANAPATHY.P	Livya barrathi;
9	912515103009	GNANA SOWNDARYA.P	Gahapathys
10	912515103010	GOWTHAM,S	Grane Joundanys
11	912515103011	HARI PRIYA.K	S. Mowtham
12	912515103012		Hard priye.K
13	912515103014	JANES KUMAR.G JOTHIRAJ.P	Muskaman
14	912515103015		11. do histor
15	912515103016	KABILAN.K	Kabilan
16	912515103018	KALIDASS	Kahidaes.
17	912515103019	KAVITHA.V	Karithan
18	912515103019	LINGANATHAN.N	Lingama Thom.
19	912515103020	MADHUBALAN.A	Na dintara
20		MADHUMITHA.M	Madhunitha.
	912515103022	MAHENDRAN.A	A. Mahendran
21	912515103024	MANIKANDAPRABU.M	Manikandabrabh
22	912515103027	MARIMUTHU.A	A-madouthu
23	912515103029	MOHAMAD RILWAN.N	Mohamadrilaan
24	912515103030	MOHAMED ASHIK.S	Mohamed
25	912515103031	митни.м	Muthy.
26	912515103033	MUTHUMEENAL.P	Mythuneenal
27	912515103034	MUTHUPRABAHAR.V	Mathe
28	912515103035	NISANTHAN.R	Visartham.
29	912515103301	AJITH.G	G. Alith
30	912515103302	ARAVIND.K	Araviord.
31	912515103303	ARTHI.T	Dother
32	912515103305	BALASUBRAMANIYAN.C	Baladabananin
33	912515103306	BARATHIRAJA	Borath Disa 1
34	912515103307	BASKARAN.P	P. Baskaran.
35	912515103308	DINESHKUMAR.R	Dreshkumm.
36	912515103309	GANESAN.P	^
37	912515103310	KANNAN.A	(P) KODOOO
28161	N# 2515103311	LAVANYA.C	1
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41	902815103037	PANDIAN	Palamas
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43	912515103039	PILLAPAN	Dillapan.
44	912515103040	PRADEEP.D	Proder. D
45	912515103041	PRADEEPA	Dradeeps.
46	912515103042	PRAKASH RAJ	Prakash Ras
47	912515103043	PRAVEEN KUMAR.V	Pravsenkumon
48	912515103044	PRAVINKUMAR.A	A. Dravin Kumas
49	912515103046	RANIGA.S	Raniga.
50	912515103047	RANJITHKUMAR.K	K. Rangith Ruma
51	912515103048	RAYAPRIYAN.M	M. Rayconten
52	912515103050	SALMAN.M	Salmon
53	912515103051	SANKAR.M	M. Conker
54	912515103052	SARATHKUMAR.K	K. Sorat Exumal
55	912515103053	SARAVANA KUMAR.K	11 Caravantino
56	912515103054	SARAVANAN.K	Sararaan
57	912515103056	SATHYAPRIYA.S	Lather Prixers
58	912515103057	SIVAKUMAR.M	M. Sivakumar
59	912515103058	SOMASUNDARAM.M	Conasundagam
60	912515103059	SRINIVASAN.S	S. Soinevasan
61	912515103060	SUNDARAMOORTHY.N	Sundaramonsty.
62	912515103061	SUNDARI.V	W. Cundari
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73	912515103314	POOVARASAN.V	V. Pooressagar
74	912515103315	PRAKASH.G	Drakare, O)
75	912515103316	RAJESHKANNAN.A	RayoshKannoniA
76	912515103317	SAKTHIPRABAKARAN.S	Sickhipowar
77	912515103701	SANTHIYA.G	Gr Partluse
78	912515103319	SEVUGAPERUMAL.R	Geragaperumal.
79	912515103320	VENKATESHAN.R	D. Venduste



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DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) ATTENDANCE SHEET



PRINCIPAL

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Amaravath Amaravath Amaravath Savagangar Disc. Famil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CTVIL ENGINEERING

TECHNO CADD OFFERED AUTO CADD COURSE (JUN2017- JUL2017)

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	4	912515103004	ARASATCHI.N	4	1	Ļ	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	1	2	/	1	1	11	1	1	1	1	1
	5	912515103005	ARUL PRAKASH.S	\mathcal{H}	4	+	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	/	1	1	1	1	1	1	a	0	2
	6	912515103006	DINESH KUMAR.U	4	4	·	4	4	4	4	4	4	4	4	1	4	4	4	4	4	\leq	1	1	4	1	1	1	1	1	K.	1	4	1
_	7	912515103007	DIVYA BARATHI.M	1	+	-,	4	4	<u>-</u>	4	-4	쉰	4	4	4	; 	4	4	4	4	\leq	1	1	4	_	1	1	1/	1	14	1	4	1
	8	912515103008	GANAPATHY.P	7	-	1	1	1	/	4	4	쉬	$\frac{4}{}$	4	7	4	4	4	4	4		4	4	-	4	1	1	12	1	14	1	4	/
	9	912515103009	GNANA SOWNDARYA.P	7	,	1	0	al	0	,	/ 		5	Á	1	\mathcal{H}	4	Y	4	4	$\stackrel{\sim}{\sim}$	4	4	4	/	1	1	1	14	14	1	1	1
	10	912515103010	COWIHAMS	1	1	1	1	1	1	1	\mathcal{T}	H	7	7	1	7	$\frac{1}{2}$	7	A	/	H	4	4	·,	/	1	1	14	1	+	Υ,	٧,	1
	11	912515103011	HARI PRIYA.K	1	1	1	-	1	F	1	7	7	1	<i>'</i> ,	1	7	#	4	4	4		'	4	6	4	4	4	1	12	1	₽.	1	4
	12	912515103012	JANES KUMAR.G	1	5	1	1	1	1	1	1	7	1	,	7	5+	\mathcal{H}	7	\mathcal{H}	\mathcal{A}	5	4	4	4	-	/	۲,	K	1	1	Н	1	"
	14	912515103014	JOTHIRAJ.P	1	1	1	,	1	,	1	1	1	7	7	1	7	7	1	a	a	a	,	-	7	1	1	1	+	1	1	t	1	1
	15	912515103015 912515103016	KABILAN.K	9	4	a	1		7	1	1	7	1	-	7	7	7	オ	7	7	7	5	2	7	1	1	7	1	17	1	1	5	1
	16	912515103018	KALIDASS	0	1	1	1	Z	1	1	1	1	2	1	0	1	Í	7	\Box	1	7	,	T	7	1	1	1	1	1	1	1	1	1
	17	912515103019	KAVITHALV	1	1	1	1	1	1	1	1	1	1	1	7	7	7	1	A	カ	フ	7	1	7	1	7	1	1	1	1	1	1	5
	16	912515103020	LINGANATHAN.N	/	4	1	1	1	1	1	1	1	a	a	0	1	7	7	7	A	1	0	12	0	1	1	1	1	1	1	1	7	· ·
	19	912515103021	MADHUBALAN A MADHUMITHA M	1	1	4	1	1	1	1	1	1	1	1	1	\mathbb{Z}	ZI.	7	71	7	1	7	1	7	1	1	7	17	1	17	1	1	1
	20	912515103022	MAHENDRAN.A	1	-	1	1	4	1,	1	1	4	1	1	1	1	1	1	1	八	1	1	1	1	1	1	1	1		1	1	1	7
	21	912515103024	MANIKANDAPRABU.M	-	1	1	1	1	/	1	4	1	4	1	1	1	1	1	1	1	1	,	\mathcal{I}	7	1	1	1	17	17	11	1	1	1
	22	912515103027	MARIMUTHU.A	1	1	1	4	1	5	4	4	1	4	1	4	4	4	4	9	0	9	1	1	1	,	1	1	1	1	1	1	1	J
	23	912515103029	MOHAMAD RILWAN.N	1	1	1	1	5	-	1	1	1	4	/	4	4	1	4	4	/	/	1	1	1	1	1	1	1	1	17	1	1	1
	24	912515103030	MOHAMED ASHIK.S	a	1	6	1	1	-	1	1	5	4	4	4	1	1	4	긲	4	7	1	1	1	1	1	1	1	1/	1	1	1	1
	25	912515103031	MUTHU.M	1	7	1	17	1	7	1	1	CV	1	-	14	4	4	4	4	4	4	1	1	/	1	1	1	1/	1/	1	1	11	a
	26	912515103033	MUTHUMEENALP	1	5	7	17	7	1	1	1	5	7	5	1	4	4	4	4	4	4	/	1	1	1	1	1	/	1	4	1	4	1
_	27	912515103034	MUTHUPRABAHAR.V	1	1	1	17	1	1	1	1	1	1	7	1	4	4	H	,	4	÷	4	1	4	/	1	14.	1	1	1	14	4	/
	28	912515103035	NISANTHAN.R	1	1	1	1	1	1	1	1	1	1	,	1	力	1	7	4	4	5	1	1	1	4	1	K		4	K	1	1	4
	30	912515103301	АЛТН.С	1	0	0	0	1	a	1	1	1	1	1		7	1	5	6	5	,	6	1	1	1	1	۲.	+	1	1	1	4	1
	31	912515103302 912515103303	ARAVIND.K	1	1	1	1/	1	1	1	1	1		1	1	7	力	7	1	5	4	,	5	5	۲,	1	1	4	15	1	1	1	1
	32	912515103305	ARTHI.T	1	1	/	1	1	1	1	1	1	1	1	1	1	7	7	,	5	,	1	1	1	1	15	10	+	1	/ -	1	4	1
	33	912515103306	BALASUBRAMANIYAN.C	1	1	1	1	-	L	1	1	1	1	1	1	1	\mathbb{Z}	1	7	5	2	1	5	1	1	t	1	1	1/4	4	+	4	1
	34	912515103307	BARATHIRAJA BASKARAN P	1	1	Υ.	1	1	a	81	1	1	1	1	1	1	7	7	,	,	5	1	1	1	7	7	15	1	1	1	1	1	1
	35	912515103308	DINESHKUMAR.R	1	1	1	14	14	14	1/	1	1	1	/	/	1	1	Z	1	2	1	1	1	1	1	1	り	a	1a	la	15	5	1
	36	912515103309	GANISAND	10	1	1	14.	1	1/	1	1	K,	1	1	a	9	0	2	1)	1	1	1	7	1	17	17	17	17	17	1	1	1
	37	912515103310	KANNANA	17	10	100	1	14	1	1	1.	1	1	4		4	4	4	1	2	1	1	D	17	7	1	17	1	1	1	1,	1	5
	38	912515103311	LAVANYA.C	۲,	۲.	K	1	1	1	1	1	6	4	4		4	4	4	2	2	1	1	1	17	1	1	1	1	1	1	17	1	1
	39	912515103312	LOORTHUMARIYAN.B	1	1	1	1;	1	1	+	a	-	1	1	1	4	4	4	Ÿ	7	4	1	14	14	1	1	1		1/	1/	1	1	1
\vdash	40	912515103036	PALANIMURUGAN.K	7	1	1	1	1/2	1	1	1	۲,	1	1		4	4	4	4	4	4	4	1	1/	1	1	1		1/	1/	17	17	/
	41	912515103037	PANDIAN	1	1	1	1	1	۲	ゎ	tó	1	1	1		4	4	/	_	<u> </u>	\prec	14	14	1	1	12	1/	1/2	1/	1	1	1	1
_	42	912515103038	PANDI MANIKANDAN.M	1	1	D	1	1	17	Ť	1	5	1	-	15	\mathcal{L}	5	2	21	0	/	1	1	Υ.	1	12	12	1/	44	42	1	1	1
_	43	912515103039	PILLAPAN	/	V	$\overline{\mathcal{I}}$	1	7	1	17	1	1	1	1	1	7		Ħ	1	1	1	1	К	4	1	1/	╀	44	4	0	1	1	1
-	44	912515103040	PRADEEP.D	3	C	0	1/	1/	1		1/	1	1	1	7	,	7	7	T	,	5	1	1	1	1	1	1	1	4	44	1	1	1
_	45	912515103041	PRADEEPA	1	1	14	1/	1/	1	1	1	1	1/	1	1	7	1	7	1	,	5	12	17	1	1	1	1	1	1	,14	1	1	1
_	47	912515103042 912515103043	PRAKASH RAJ	1	1	14	1/2	1/2	1	1/	1	1	1	1		1	1	7	1	1	1	1	ケ	ť	۲,	+	1	+	41	1/	+	14	14
_	48	912515103044	PRAVEEN KUMARLV PRAVINKUMAR.A	1	1	1	10	1	10	1/	1/	1	14	1	1	2	a	1	1	1	1	17	Ź	15	1	1	15	+	\mathcal{H}'	, 1	44	+:	K
_	49	912515103046	RANIGA.S	+	4	14,	+	+	1	14	1	\vee	1	1	1	1	1	1	1	1	ラ	,	1	カ	1	1	1	1	1	-15	4	+	1
	50	912515103047	RANJITHKUMAR.K	۲,	+	+	+	1	1	1	1	1	1	4	1	1	1	2	1	Z	1	1	1	17	1	1	1	1	7	1	1	1	1
	51	912515103048	RAYAPRIYAN.M	۲,	╁	+	+	+	+	9	19	1	4	1	1	1	1,	4	2	2	1	1	1	7	1,	17	1	7	7	1	1	1	1
	52	912515103050	SALMANIM	1	ť	1	4	+	1	1	44	1	1	1	4	4	4	4	1	1	12	1	1	7	7	1	7	7	1	1	1	1	1
	53	912515103051	SANKARM	1,	1,	1	1	1	+	4	+	15	+	K	+	4	4	4	1	1	1	1	1	1	1	1	1	1	7	1	47	1	1
	54	912515103052	SARATHKUMAR.K	10	15	1	1	1	1	1	1	1	+	+	1	4	-	4	1	1	1	1/	11	17	1	1	1	1	1	17	1	17	7
	55	912515103053	SARAVANA KUMAR.K	1,	1	1,	1	1	1	1	17	1	1	1	1,	4	4	4	1	1	1	11	1	1/	L	1		1	1	7	1/2	1	17
	96	912515103054	SARAVANAN.K	1	17	1	17	17	17	0	10	0	15	1	1	4	5	-	1	-	1	1	4	1/	1	11	1	17	1/	1	1	1	1
-	57	912515103056	SATHYAPRIYA.S	1	1	1	1	1	イン	17	7	7	1	1	1	5	4	1	1	1	1	14	14	44	1	1	11	,	41		1 1	1	1
	58	912515103057	SIVAKUMAR.M	1	1	17	17	17	17	17	1	1	1	15	1	5	1	4	5	4	1	1	1	1	1	1	1	1	11	1/	1/	17	1
	50	912515103058	SOMASUNDARAM.M	1		1	17	1	17	1	1	1	1	1	1	5	5	-	1	+	+	1	1	+	+	11	1	1	4	41	10	6	79
_	60	912515103059	SRINIVASANS	12	1	1	1	1/	1	17	1	17	17	17	7	1	1	5	15	15	15	+	1	1	1	1	W	1	1	1/	1/	1	11
-	61	912515103000	SUNDARAMOORTHY.N		1	1	1	1	1	1	0	0	17	1	1	1	5	1	0	a	CA	1	1,	43	+	1	1	7	4	4	14	12	1
-	62	912515103061	SUNDAID.V	1/	1	1	1	1/	1	1	1	1	1	1	7	1	1	17	1	17	+	1	.1	+	1	1	7	X	5	4	1	1	1
-	63	912515103062	SURENDHAR.V	1	1	1	1	1/	1/	Z	1	1	1	7	D	17	7	1	1	1	1	7	7	, 17	+	7	+	1	4	1	1	1/	1
-	64	912515103063	SURYAP	14	42	1/		1	1	1	12	. 2	11	17	7	1	フ	1	1	1	17	7	7	7	+	1	1	2	-	-14	4	1	14
-	65	912515103064	SYED ANVAR N	1	14	14	1	12	1/	-12	1/	12	11	12	11	1	1	1	,	1	13	17	1	7	+	11	1	1	7	4	#	- 0	C
_	67	912515103065	USMAN ALIA	14	1	1	1	,14	1	1/	4	42	1/	12	1	1	1	12		a	0		1	77	1	7	7	5	514	7	44	1	+4.
-	68	912515103067	VIGNESHA	14	1-	0	14	14	-14	-1	-14	12	1	12	1	1	1	12	1	7	17			7	7	1	7	7	1	1	+	14	+
_	60	912515103067	Q YALIV VIJARAMUN AYALIV	1	1	1	14	1	44	1	14	1	14	-	1/	1	1	1	1	1	7	1	7	7		7	7	7	7	7	-14	15	1
-	70	917515103069	ESWARAN K	1	-	4	-14	415	1-1	44	-14	,/-	14	12	1	14	1	1	1	12	1		11		1	, ,	7	7	7	1	7	7	10
-	71	917515101411	MANIKANDAN.C	1	-	-	1	-17	-1-	14	1	1	14	1	1	1/	1	14	12	14	1	4		4	17		7	1	7	1	7	1	7
-	72	912515103901	NAGAPANDI.M	1	1	1	-	1	,/-	14	-14	,15	14	1	-	14	14	1	12	12	T	12	1	2	16	7	90	3/	1	7	17	17	1
-	71	- 972615103314	POOVARASAN.V	+	+	+	+4		+	,14	1	+	14	1	44	1	1	1	1	1	1	4		2	1			2	1	1	1	7	7
1	VALET	K/AIJSISTOUIS	PRAKASH G	14	14	-14	7/	1	514	>-		1-	1/2	-14	14	14	1	K	14	14	12	4	4	11	I	1	1	7	1	11	1	1	0
date	75-	- 91 AMMONG	RAJESHKANNAN.A	1	1	1	1	1	7	-14	71	πÉ	1	-14	,/	1	5	10	44	1	12	4	4	112	1	4	4	40	1	1	1	1	17
1	76	Megatacare		1	7	75	7	7	7	7/		7	7/	7	7	19	10	i d	1	1	1	1	44	4/	1	1	4	2	X	11	0	1/	10
1	77	9121,15100701	SANTHYAG	T	1	-1-	,15	7	7	7/2	TE	115	7	1	7	+	14	14	14	12	1-	44	44	114	1	4	4	1	$\langle 1 \rangle$	1	1		1.
-	78	श्रीहोडाठोज्ञ	SEVUGAPERUMALR	2	16	1 0	9	7	713	7	7	7	11	K	· F	14	14	+	1	+	1	1	1	+	7/	4	4	4	4	11	1	1	2
	79 .	912515103120	VENKATESHANIR	1	1	7/	7	7	7	زار	7	7	15	1	+	7	15	1	1	19	4	-	4	4	4				Ø.	1	1	1	1
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(Approved by AICTE, New Delhi & Affiliated to Anna University)

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph : 04565 – 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail: srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) COURSE OUTCOMES



Sri Raaja Raajan Courage of Engg. & Tech., Swaganger Disc famil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Value-Added courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Value-Added Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Value-Added Course are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Value-Added Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	AUTO CADD/2017	THEORY	20	100
		PRACTICAL	80	



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Amarayath Swagangar Disc. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD - QUESTION PAPER SET

1. In CAD, the LIMITS command allows you to determine the:

- 1. Size of the drawing space.
- 2. Amount of time that is needed to draw the
- 3. Size of the text.
- 4. None of the above

2. A uniform pattern of dots/lines on the CAD screen is called a/an_____

- Snap pattern.
- Reference dot pattern.
- 3. Grid.
- 4. All of above

3. What do you mean by AutoCAD?

- 1. Automatic Candidate Address Detection
- 2. Automatic Card Address Direction
- 3. Automatic Computer Active Décor
- 4. Automatic Computer-Aided Design/Drafting

4. What does CAD in AutoCAD stand for?

- 1. Computer Aided Design
- 2. Computer Advance Detail
- Computer Assignment Description
- 4. All of above

5. Which key can be used to quickly cancel a command?

- 1. backspace
- 2. esc
- 3. tab
- 4. enter

6. What does UCS means? (In the context of CAD)

- 1. User Coordinate System
- 2. United CAD Software
- 3. United Coordinate System
- 4. User CAD Software

7. What are the characteristics of a Triangle?

- 1. 2 sides, 4 angles
- 2. 4 sides, 4 angles
- 3. 4 sides, 3 angles
- 4. 3 sides, 3 angles

5.	offset
6.	fillet
7.	pan .
8.	dist
9. A c	command used to check a distance
1.	fillet
- 2.	offset
3.	pan
4.	dist
10. W	hat does the Offset command do?
5.	Moves to specified distance
6.	Moves above specified distance
7.	Moves away from specified distance
8.	none of the above
11. W	there would AutoCAD ask you for something?
1.	Tool Icons .
2.	Command Line
3.	Properties Palette
4.	Toolbar
12. Ti	nis type of triangle has TWO equal sides?
- 1.	isosceles
2.	Scalene .
3.	equilateral
4.	Right
13. In	Cartesian coordinate system, the axis is vertical.
1.	X
2.	Y
3.	Z
4.	M .
14. M	inor axis and major axis must be specified in order to draw a(n)
1.	ellipse
2.	line
3.	chamfer
4.	circle
15. W	hen saving your drawings in Autocad the default file type is?
1.	pdf
2.	dwg
3.	bak
4.	doc

8. A command used to move the view planar to the screen.

16. What does the command Fillet do?

- 5. Straightens an angle
- 6. Curves an angle
- 7. Deletes an angle
- 8. All of above

17. The shortcut command key for UNDO.

- 1. CTRL+C
- 2. CTRL+Z
- 3. CTRL+CU
- 4. CTRL+CHA

18. The shortcut command key for TABLE.

- 1. TL
- 2. TE
- 3. TN
- 4. TB

19. This type of triangle has TWO equal sides? _____

- 1. Move
- 2. Trim
- 3. Extend
- 4. Scale

20. The _____command is used to lengthen a line to meet an edge.

- Array
- 2. Chamfer :
- Extend
- 4. Rotate



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Sivagangai Disc. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND

TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD - QUESTION PAPER SET

NAME: Ameerdeen . S

YEAR: TU

1. In CAD, the LIMITS command allows you to determine the:

- 1 Size of the drawing space.
- 2. Amount of time that is needed to draw the
- 3. Size of the text.
- 4. None of the above

2. A uniform pattern of dots/lines on the CAD screen is called a/an_

- 1. Snap pattern.
- 2. Reference dot pattern.
- Grid
- 4 All of above

3. What do you mean by AutoCAD?

- 1. Automatic Candidate Address Detection
- 2. Automatic Card Address Direction
- 3. Automatic Computer Active Décor
- 4. Automatic Computer-Aided Design/Drafting

4. What does CAD in AutoCAD stand for?

- Computer Aided Design
- Computer Advance Detail
- 3. Computer Assignment Description
- 4. All of above

5. Which key can be used to quickly cancel a command?

- * backspace
- 2. esc
- 3. tab .
- 4. enter

'6. What does UCS means? (In the context of CAD)

- User Coordinate System
- 2. United CAD Software ·
- United Coordinate System

OF4NGASE CAD Software

What are the characteristics of a Triangle?

2-sides Aangles

KAR 26 K4 Bibles 4 angles

3. 4 sides angles

4. 3 states 3 angles

8. A command used to move the view planar to the screen.
5. offset
6fillet ·
7. pan
8, dist ·
9. A command used to check a distance
1. fillet :
2 offset
3. pan
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10. What does the Offset command do?
5. Moves to specified distance
6. Moves above specified distance.
Moves away from specified distance 8. none of the above
- Home of the above
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1. Tool Icons
2. Command Line
3. Properties Palette
4. Toolbar
12. This type of triangle has TWO equal sides?
1. isosceles
2. Scalene
3. equilateral
4. Right
13. In Cartesian coordinate system, the axis is vertical.
1. X
2. Y
3. Z
4W
14. Minor axis and major axis must be specified in order to draw a(n)
1. ellipse
2. line
3. chamfer
4. circle .
15. When saving your drawings in Autocad the default file type is?
1. pdf
2. dwg
301 bak
4 doc Pa
KARAIKUDI [5]

16. What does the command Fillet do?

- ... 5. Straightens an angle
 - 6. Curves an angle
 - 7. Deletes an angle
 - 8, All of above

17. The shortcut command key for UNDO.

- 1. CTRL+C
- 2/CTRL+Z
- 3. CTRL+CU
- 4. CTRL+CHA

18. The shortcut command key for TABLE.

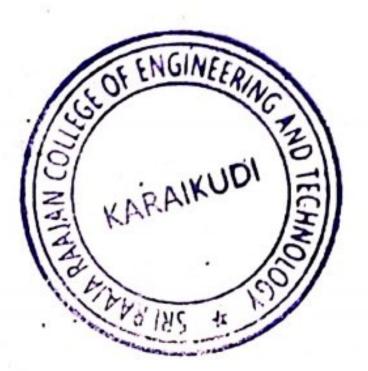
- 1. TL
- 2/TE
- 3. TN
- 4. TB '

. 19. This type of triangle has TWO equal sides? _____

- 1. Move
- 2. Trim
- 3. Extend
- 4. Scale

20. The _____command is used to lengthen a line to meet an edge.

- 1. Array
- Chamfer
- 3. Extend
- 4. Rotate





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND

TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD - QUESTION PAPER SET

NAME: HARI PRIYA . K

YEAR: 11

1. In CAD, the LIMITS command allows you to determine the:

- 1 Size of the drawing space.
- 2. Amount of time that is needed to draw the
- Size of the text.
- 4. None of the above

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- 3. United Coordinate System
- 4. User CAD Software

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4 sides 4 angles

3. 4 sides, 3 angles

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3 chamfer
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3. bak
4 doc
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16
(E KAPAIKUDI) S.
1/3/ 1/5//
11.00

16. What does the command Fillet do?	
5. Straightens an angle	
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8/ All of above	
17. The shortcut command key for UNDO.	
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3. Extend	
4. Scale	
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2 Chamfor	



3. Extend

4. Rotate



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND

TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD - QUESTION PAPER SET

NAME: Sandhiya 9

YEAR:

1. In CAD, the LIMITS command allows you to determine the:

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3 Dakery
4. dbc (3:)
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 Extend
- 4. Rotate

ENGINEERING

Sri Raaja Raajan College of Engg. & Tech., Amaravathipudin, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJANI COLLEGE OF ENGINEERING AND TECHNOLOGY

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

146 /4131, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301 Ph : 04568 - 234230 / 326132

Fex : 04565 - 234430

Mobile . 73737 11322, 73737 11333 Fernall : street2010@gmail.com

Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING COURSES ON AUTO CADD

PRACTICAL EXAMINATION:

80 MARKS

- 1) Design of residential Building using Auto CADD
- 2) Design of Resort using Auto CADD
- 3) Design of Hospital using Auto CADD
- 4) Design of Fruit shop using Auto CADD
- 5) Design of Auditorium using Auto CADD
- 6) Design of College canteen using Auto CADD
- 7) Design of Basket Ball court using Auto CADD
- 8) Design of Airport using Auto CADD
- 9) Design of Dry Docks using Auto CADD
- 10) Design of Hostel Building using Auto CADD

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Sjuanangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING TECHNO CADD OFFERED AUTO CADD COURSE (JUN2017- JUL2017)

			MARKLIST		
s.NO	REG NUM	NAME	THEORY (20)	PRACTICAL(80)	TOTAL (100MARKS)
1	912515103001	ABINASH.B	18	75	93
2	912515103002	AJITH.K	17	74	91
3	912515103003	AMEER DEEN.S	19	72	91
4	912515103004	ARASATCHI.N	16	73	89
5	912515103005	ARUL PRAKASH.S	15	71	86
6	912515103006	DINESH KUMAR.U	. 18	75	93
7	912515103007	DIVYA BARATHI.M	15	76	91
8	912515103007	GANAPATHY.P	16	77	93
9	912515103009	GNANA SOWNDARYA.P	17	79	96
10	912515103009	GOWTHAM.S	19	74	93
11	912515103011	HARI PRIYA.K	16	72	88
12	912515103011	JANES KUMAR.G	18	71	89
13	912515103014	JOTHIRAJ.P	17	76	93
14	912515103014	KABILAN.K	19	77	96
15	912515103016	KALIDASS	16	79	95
16	912515103018	KAVITHA.V	14	78	92
17	912515103019	LINGANATHAN.N	15	75	90
18	912515103020	MADHUBALAN.A	16	74	90
19	912515103021	MADHUMITHA.M	14	73	87
20	912515103022	MAHENDRAN.A	15	72	87
21	912515103024	MANIKANDAPRABU.M	17	75	92
22	912515103027	MARIMUTHU.A	18	74	92
23	912515103027	MOHAMAD RILWAN.N	17	72	89
-	912515103030	MOHAMED ASHIK.S	16	73	89
25	912515103031	MUTHU.M	17	71	88
26	100	MUTHUMEENAL.P	15	75	90
AKYU	902515103034	MUTHUPRABAHAR.V	16	76	92

20	013515103035	NISANTHAN.R	18	77	95
28	912515103035			79	98
29	912515103301	AJITH.G	19		
30	912515103302	ARAVIND.K	15	74	89
31	912515103303	ARTHI.T	14	72	86
32	912515103305	BALASUBRAMANIYAN.C	16	71	87
33	912515103306	BARATHIRAJA	18	76	94
34	912515103307	BASKARAN.P	19	77	96
35	912515103308	DINESHKUMAR.R	18	79	97
36	912515103309	GANESAN.P	17	78	95
37	912515103310	KANNAN.A	19	75	94
38	912515103311	LAVANYA.C	16	74	90
39	912515103312	LOORTHUMARIYAN.B	15	73	88
40	912515103036	PALANIMURUGAN.K	18	72	90
41	912515103037	PANDIAN	15	75	90
42	912515103038	PANDI MANIKANDAN.M	16	74	90
43	912515103039	PILLAPAN	17	72	89
44	912515103040	PRADEEP.D	19	73	92
45	912515103041	PRADEEPA	20	71	91
46	912515103042	PRAKASH RAJ	18	75	93
47	912515103043	PRAVEEN KUMAR.V	17	76	93
48	912515103044	PRAVINKUMAR.A	19	77	96
49	912515103046	RANIGA.S	16	79	95
50	912515103047	RANJITHKUMAR.K	14	74	88
51	912515103048	RAYAPRIYAN.M	15	72	87
52	912515103050	SALMAN.M	16	71	87
53	912515103051	SANKAR.M	14	76	90
54	912515103052	SARATHKUMAR.K	15	77	92
55	912515103053	SARAVANA KUMAR.K	17	79	96
56	912515103054	SARAVANAN.K	18	78	96
	E 912515103056	SATHYAPRIYA.S	17	75	92
58	912515103057	SIVAKUMAR.M	16	74	90

Sri Raaja Raajan College of Engg. & Tech Amaravathipudur, Karaikudi - 630 301



59	912515103058	SOMASUNDARAM.M	17	73	90
60	912515103059	SRINIVASAN.S	15	72	87
61	912515103060	SUNDARAMOORTHY.N	16	75	91
62	912515103061	SUNDARI.V	18	74	92
63	912515103062	SURENDHAR.V	19	72	91
64	912515103063	SURYA.P	15	73	88
65	912515103064	SYED ANVAR.N	14	71	85
66	912515103065	USMAN ALI.A	16	75	91
67	912515103066	VIGNESH.A	18	76	94
68	912515103067	VIJAY.P	19	77	96
69	912515103068	VIJAYA KUMAR.K	18	79	97
70	912515103069	ESWARAN.K	17	74	91
71	912515103313	MANIKANDAN.C	19	72	91
72	912515103901	NAGAPANDI.M	16	71	87
73	912515103314	POOVARASAN.V	15	76	91
74	912515103315	PRAKASH.G	18	77	95
75	912515103316	RAJESHKANNAN.A	15	79	94
76	912515103317	SAKTHIPRABAKARAN.S	16	78	94
77	912515103701	SANTHIYA.G	13	75	88
78	912515103319	SEVUGAPERUMAL.R	18	74	92
79	912515103320	VENKATESHAN.R	15	73	88



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DEPARTMENT OF CIVIL ENGINEERING AUTO CAD (2017-2018) CERTIFICATES



Sri Raaja Raajan Courage of Engg. & Tech., Swaganger Disc famil Nadu



This is to	certify that	MAHENDRANA	of
SRI RAAJA I	RAAJAN COL	LEGE OF ENGINEERING AND TECHNOLOGY	has
participated	in	AUTO CAD COURSE	held on
15.06.2017	To 06.07.20	17, organized by Department of Civil Engin	eering in
association v	with TECH	NOCADD, Karaikudi.	

TECHNOCADD MANAGING DIRECTOR HOD / CIVIL

PRINCIPAL



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TECHNOCADD MANAGING DIRECTOR

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PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE(2018-2019) STADD PRO



PRINCIPAL

Sri Raaja Raajan Cowage of Engg. & Tech.,
Amarayath Cowage Disc Tamil Nadu

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DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) SYLLABUS



PRINCIPAL
Sri Raaja Raajan Cowage of Engg. & Tech.,
Amaravatha Comage of Engg. & Tech.,
Swagangar Disc. Tamil Nadu



PROPOSAL LETTER

CELL NO: 8825545628



STAAD.Pro (40Hrs)

	Topic
No.	· · · · · · · · · · · · · · · · · · ·
of	
Day	*
S	
Day	Overview of Structural Analysis andDesign
l '	Introduction STAAD, ProV8i
1	Staad Pro Workspace
	Staad Pro Interface
	A. Menu bar
	B. Toolbar
	C. Mode Bar
	D. Page Control
	E. Datasheet
Day	Co andicate Suri
2	Co-ordinateSystems Global Co-ordinate
	o Local Co-ordinate
	• Units
	o Input Unit
	o Graphical Display Unit
	Dimensions
Davi	• Dilletizionz
Day 3	• Labels
,	o Node Labels
1	o Beam Labels
	o Supports Labels
	• Tools
	o Rotation Tools
	o Zoom Tools
	o View Tools
Day	Geometry creation Methods
4	o Snap /Grid Method
	o A. Linear Grid
	O B. Radlal Grid
	o Copy Cut Method
Day	Copy carmentod
5	Geometry creation Methods
	Run Structure Wizard
	Co-ordinate Method
	DXF Method/ Import CAD Models
Day	 InsertNode
6	o For a SingleMember
OFE	O For MultipleMembers NGINE A CIDENT OF THE POINT OF THE
(S)	Point toPoint
/	ez HetweenMidpoints
	15'II. W. Commobourg

	o PerpendicularIntersection
	o CurvedMember
Day	Model EditingTools
7	- Lut 10 .
	o IranslationalRepeat o CircularRepeat
Day	o circular Nepeat
8	 Model EditingTools
	o Move
	o Mirror
	o Rotate
	о Сору
Day	Model Editing Loois
9	o Connect BeamsAlong
e	o Stretch Selected Members
	o Intersect SelectedMembers
	o Create Collinear Bea
Dzy	C Cicato Comment Dea
10	 Model Editing Tools
	 Merge SelectedMembers
	o Renumber
	o SplitBeam
_	Break Beams at SelectedNodes
Day	 Section Properties
	o Circular
	o Tee
	o Trapezoidal
	o Tapered
	Section Database
	Assignment Method
	 Usertable Beta Angle
Devi	
Day 12	Structure Diagrams
	o Full Section
	o Section Outlines
	Cut Sections/Plane
	o Range By Joint
	o Range By Min/Max Select to View
Day	
13	Supports Assignment
-	 Introduction of structural
	supports
	 Fixed Support
	 Pinned Support
	 Enforced



CELL NO: 8825545628



STAAD.Pro (40Hrs)

	·		
	 Enforced But 	Day	Understanding Staad Editor
	Assignment Methods	17	 Job Information
	Member Offset		Input width
Day	Loading	1	 Join Coordinates
14	NodalLoad		Member incidences
1	Nodal Moment	10	• Finish
	MemberLoad		 Writing notes/ information in
1	Uniform Force and Moment		editor
1	o Concentrated Force		Geometry Verification
1	andMoment	1	 Tools Menu
	o Linear Varying Load o Trapezoidal Load		o Orphan Nodes
1	o HydrostaticLoad		o Duplicates Nodes/
1	AreaLoad		Members
	FloorLoad		o Overlapping Collinear
Day	Understanding & Calculating Building Loads		Members
15	 Self-Weight of Members & 	7	Unit Convertor
	Self Weight factor		 Cal/culator
1	 Linear Load- Wall Loads 		
1	Calculation of Floor Dead		Member Specifications
1	Loads		Member Release
	Distribution of Floor load		Member Offset
1	One way & Two way	Day	Introduction to RCC Design As per IS 456
-	Special Loads- Lift machine load, Sunken load	18	Defining Various RCC Design
Day 16	Introduction to Floor load &		Parameters
1	Live load as per 15 8/5-1 & 11		 Beam Design
	Creation of Primary Load .	-	 Column Design
	Cases		 RCC Detailing Methods
1	o Primary Dead Load	Day	WindLoad Design As per IS 875 III
	case o Primary Live Load	19	 Introduction to wind design
1	case	,	 Design factors and Coefficient
1	Load Combinations	Day	Calculation of Wind load as per IS 875 Part 3
l	o Manual	20	 Create Wind definition
	Combination		 Primary Load Case for Wind load
	Method		Load combinations
1	O Auto Load	Day 21	Seismic Analysis & Design as per IS-1893
	Combination	21	Introduction
İ	Method		 Terminologies
	Analysis & Print Command		 Standards for
	Post Processing		EarthquakeDesign
	Result setup		General Principals for
	o Nodereaction &		EarthquakeDesign
	displacement	Day	Seismic Analysis & Design as per IS-1893
1	displacement o Beam Forces o Beam Graphs	22	
1/8	o Beam Graphs		 Static Analysis Method
#3/	101 [2]	an ta	 Seismic Definition, Seismic
13	phovikad, E		40HRS
1	KM /8/		



PROPOSAL LETTER

CELL NO: 8825545628

STAAD.Pro

(40Hrs)

	Parameters
	Elementary Introduction –
	A. IS Code 1893(2002/2005)
	B. IS Code 13920
Day	STEEL Design inSTAAD Pro As Per IS-800
23	 Steel Design Mode
	o Load Envelopes
	o Member Setup
	o Member Restraints o Design briefs
	Design Groups
Day 24	Interactive SteelDesign
	Introduction Of Transmission Line
	Towers
	Design of Transmission LineTowers
Day	FEM Modelling inSTAAD.Pro
25	 FEM Modelling introduction
	o SnapPlate
	o AddPlate
	G Create InfillPlates
	o Create surfaces
	Generate SurfaceMeshing
	o Generate PlateMesh
	Adding PlateThickness
	PlateLoad
-	o Pressure on FullPlate
	o ConcentratedLoad
	o Partial Plate PressureLoad
	o TrapezoidalLoad
	o HydrostaticLoad
Day	Water Tank Design
26	Creating a RCC underground
	rectangular tank using plates o Tank empty
	O Tank empty O Tank Full
	Creating circular water tank
Day 27	Shear Wall Design
	 Introduction to Shear wall
	Shear wall Modeling andDesign
Day 28	Moving (Rolling) Loads
	Vehicle definition
	 Primary load case for moving load

Dav 29-30	moving loa Viewing Influence line Foundation Design Introduction to	e Diagram to structural foundation s from Staad Pro to
	l. Isolated F	oothig design
	o	Basic of Isolated Footing
	0	Creating a Isolated Footing job
	o	Specification of design parameters
	0	Design result
	II. Combined	l Footing Design
	c ·	Basic of combined Footing
	0	Creating a Combined Footing job
	0	Specification of design
	0	Design result
Day 31-40	FINAL PROJE	CT



PRINCIPAL Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Karaikudi - 630 303 Sivagangai Dist. Tamil Nadu

Fax : 04565 – 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) REPORT



PRINCIPAL

Sri Raaja Raajan Cowage of Engg. & Tech.,
Amaravathan Cowage of Engg. & Tech.,
Swagangar Disc. Tamil Nadu





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

146 /4B1, Amaravathi Village,

Amaravathipudur (Po.), Karaikudi – 630 301.

Ph: 04565 - 234230 / 326132

Fax : 04565 - 234430

Mobile: 73737 11343, 73737 11333

E-mail: srrcet2010@gmail.com Website: www.sriraajaraajan.in

Name of the Course: STADD. Pro

Duration: 49tHOURS

Course Conducted by: MEE CADD

Number of students attended: 47

Start Date: 3rd Oct 2018

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End Date: 30th Oct 2018

INTRODUCTION

STAAD.Pro is a comprehensive and integrated finite element analysis and design application that includes visualization capabilities, a simple user interface, and a wide range of design codes. You can analyze any structure exposed to static, dynamic, wind, earthquake, thermal, and moving loads. STAAD.Pro provides structural analysis and design for any type of project, including buildings, culverts, plants, bridges, stadiums, and marine structures.

Analysis and Design

The standard STAAD.Pro analysis methods provide you with a grounding in structural and analysis requirements for an array of projects. When more advanced capabilities are required, you can extend to STAAD.Pro Advanced. STAAD.Pro reduces the resource hours required to properly load your structure by automating the forces caused by gravity, wind, earthquakes, snow, or vehicles. STAAD.Pro can easily accommodate your design and loading requirements, including U.S., Eurocodes, Indian, Russian, Chinese, and Japanese codes. With an unparalleled quality-assurance program, open architecture for customization, and a 25-year track record, more design firms are choosing STAAD.Pro.

Extremely Flexible Modeling Environment

The power of STAAD.Pro is in a technologically advanced interface. It's easy to get started due to the vast library of online content available, including SIGs that regularly cover specialist topics and courses available in the Bentley Learn Server, in addition to online help and dozens of examples to illustrate solutions to commonly raised modeling, analysis, and design issues in fact, 80% of new users learn to use STAAD.Pro efficiently in under two hours.

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

Ph: 04565 - 234230, Mobile: 73737 11343, 73737 11339,73737 11322

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Broad Spectra of Design Codes

Date:

Take advantage of steel, concrete, timber, and aluminum design codes from around the world, including historical codes. The breadth of design codes that are built into the program, both current and historical, means that STAAD is equally comfortable being used on small local jobs as well as large international projects. As a result, the software grows as your business does. Interoperability and Open Architecture

STAAD.Pro is more than an analysis and design application. From simple importing of CAD models to creating custom links and developing third-party applications, STAAD.Pro can be the heart of your structural solution. When integrated with ProjectWise® or integrated into a wider Bentley CONNECT project, your STAAD.Pro models can be efficiently managed with the leading project collaboration system.



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DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) NAME LIST



Sri Raaja Raajan Courage of Engg. & Tech., Swagangai Disc. Tamil Nadu





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING MEE CAPP OFFERED STAPPPRO COURSE (3rd Oct 2018- 50th Oct 2018)

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DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) ATTENDANCE SHEET



PRINCIPAL

Sri Raaja Raajan Kowana of Engg. & Tech.,
Amarayath Savaganga Disc. Tamil Nadu

KARAIKUDI



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING MEE CADD OFFERED STADDPRO COURSE (3rd Oct 2018 - 30th Oct 2018)

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DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) COURSE OUTCOMES



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DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Value-Added courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Value-Added Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Value-Added Course are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Value-Added Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	PRIMA VERA	THEORY	20	100
		PRACTICAL	80	



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Amaravath Swagangar Disc. Tamil Nadu



C. the Budgeted Cost of Work Schedule

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING **QUESTION PAPER -PRIMA VERA**

1) Identify one project intense industries where Primavera has a significant presence.
A. Oil and Gas B. Communications C. Health Sciences D. Tax
2) What is the significance of assigning the Responsible Manager to an EPS Node?
A. It assigns a generic resource to the EPS B. It assigns a named resource to the EPS C. It links the EPS to an OBS element D. It links the EPS to management reports
3) Identify the field that must be unique in Primavera.
A. Project Name B. Project Description C. Project ID D. Project Manager
4) Identify a relevant use case for applying a Must Finish By date to a project.
A. Compare Scheduled Finish to Must Finish By dates to negotiate realistic Finish dates
B. Apply Must Finish By dates to shorten the duration of the schedule
C. Apply Must Finish By dates to build case for requesting resources
D. Compare Must Finish By date to Actual Finish Date to negotiate realistic Finish dates
5) Identify one example of Enterprise specific data.
A. Enterprise Project Structure B. Activities C. Baselines D. Expenses
6) Identify the True statement regarding the Enterprise Project Structure.
A. It is defined during installation and cannot be changed B. It is the default filing system for projects
C. Activities represent the lowest level of the hierarchy Client D.It is defined and maintained in the Optional
7) An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned
to the activity. Physical % is updated to equal 80%. What is the Remaining Duration for this activity?
A. 80 B. 10 C.2 D.8
8) What takes the highest recedence during Resource Leveling?
A. Carling priority B. Mandatory constraint C. Topological sequent D. Resource Calendar 9) Cost Variance is catherated as
13000
A. Earned Value Cost - Actual Cost B. the Actual Cost of Work Performed

B. the Actual Cost of Work Performed

D.Budget at Completion - Earned Value Cost

- 10) Where are "User Defined Fields" typically maintained?
- A, in the Web interface, in the preferences section
- B. in the Client interface by the system administrator
- C. in the Web interface, on the Activities tab
- D. in the Client interface under Admin Preferences
- 11) You are coaching a set of new Primavera users that are entering data into an Activity View. They are concerned because they are not able to view Activity Details. What could be the cause of the problem?
- A. They don't have sufficient security to view Activity Details
- B. They have not selected an Activity in the project plan
- C. Activity Details have been removed from the plan
- D. They are using an EPS View for Activities
- 12) Select the true statement regarding Global Preferences in Primavera P6 EPPM Web Interface.
- A. Global Preferences are shared among all users.
- B. Global Preferences are customized at the user level.
- C. Global Preferences are controlled by the System Administrator
- D. Global Preferences are controlled by Global Security Profiles.
- 13. You are a Portfolio Manager looking for a new portfolio that you manually created for your have clicked the Group By drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
- A. Global Portfolio
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- B. Click on View, Expand All and scroll to locate the sub node
- C. Click on each Node and Expand it to the lowest level
- D. Click "Add" button, so that all nodes are expanded, and then cancel.
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B. 40

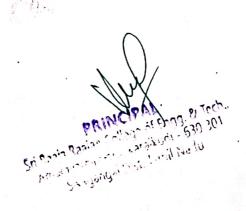
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C. 60

D. 80

16) What is a constraint in pr	imavera)		•
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A. 10	B. 15	C. 12	D. Cannot be determined







C. the Budgeted Cost of Work Schedule

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING **QUESTION PAPER -PRIMA VERA**

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A. 80.	tion for this activity?
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Al Edveling priority Z March	il a militar
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A F 1900	
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D.Budget at Completion - Earned Value Cost

10) Where are "User Defined Fields" typically maintained? A in the Web interface, in the preferences section B. in the Client interface by the system administrator C. in the Web interface, on the Activities tab

D. in the Client interface under Admin Preferences

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C. the Budgeted Cost of Work Schedule

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

QUESTION PAPER -PRIMA VERA
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Amaravathy caches a sixuadi - 630 301
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146 ~1B1, Amamyathi Village, Amamyathipudur (Po.), Karaikudi = 630 301, Ph + 04568 = 234230 / 326132 Fax : 04565 - 234430 Mobile : 73777 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.ranjaranjan.org

DEPARTMENT OF CIVIL ENGINEERING

COURSES ON Primavera P6

PRACTICAL EXAMINATION:

80 MARKS

- 1. Create a new layout called Activity Entry.
- Using your own standalone copy of Primavera P6 Professional, familiarize yourself with the P6 interface. Access the main views such as the Projects view, WBS view and Activities view.
- 3. In the Projects view, use the Add button or right-click menu's Add option to run the "Create a new project" wizard. Create a project with the following attributes: EPS Node: E&C (Engineering and Construction) Project ID: EC00720 Project Name: New Home Construction Project Planned Start: 04-FEB-2013 Data Date: 04-FEB-2013 (typically will be automatically set to Project Planned Start).
- 4. Using the techniques described in the training video, create the following Work

 Breakdown Structure for your New Home Construction project:
- Perform a Schedule process on your copy of the New Home Construction project and verify the project planned finish date.
- 6. Using the techniques described in the video, select the Pour and Float Slab Concrete activity and increase the number of General Laborers to 6 by setting the Budgeted Units field in the Resources tab to 48.0h
- 7. Go to the Project menu and use the Maintain Baselines dialog to create a baseline of your New Home Construction project.
- 8. Export your New Home Construction project to an XER file in P6 R6.2 format using the Export Wizard.



EGE OF ENGINEERING AND TECHNOLOGY

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E-mail: srrcet2010@gmail.com Website: www.rnajarnajan.org

9. Locate and run the report named PR-01 Resources on Open Project. Load this report into an Excel Spreadsheet.

10. Make the following resource assignments in the New Home Construction schedule:

Activity ID	Activity Name	Resource ID	Budgeted Units / Time	Quantity
A1010	Project Management	Foreman	8/d	1
A1030	Survey and Mark Out Site	Surveyor	8/d	1
A1040	Grade Site	Operator	8/d	1
A1050	Install Foundation Forms	RCarp	8/d	1
A1050	Install Foundation Forms	GenLabor	8/d	1
A1060	Install Slab Plumbing	Plumb	8/d	1
A1070	Pour and Float Slab Concrete	GenLabor	8/d	4
A1080	Erect Exterior Wall Frames	RCarp	8/d	3
A1090	Erect Interior Stud Walls	RCarp	8/d	2
A1100	Install OSB Exterior Cladding	RCarp	8/d	3
A1110	Install Trusses	RCarp	8/d	3
A1120	Install Roof Sheeting	RCarp	8/d	3
A1130	Install Paper and Shingles	Roofing	8/d	3
A1140	Install HVAC Ducting	HVACEng	B/d	1
A1150	Install HVAC Unit	HVACEng	8/d	1
A1160	Install Breaker Box and Rough Wiring	Elec	8/d	1
A1170	Finish Wiring	Elec	8/d	i
A1180	Install Rough Plumbing Lines	Plumb	8/d	1
A1190	Install Drywall Sheeting	Drywall	8/d	2
A1200	Tape and Mud	Drywall	8/d	2
A1210	Install Doors	FCarp	8/d	1
A1220	Door Casings and Baseboards	FCarp	8/d	1
A1230	Install Kitchen	FCarp	8/d	2
A1240	Install Windows	FCarp	8/d	1
A1250	Install Siding	Siding	8/d	1
A1260	Lay Turf and Plant Trees	Genlabor	8/d	3

Sri Raaja Raajan College of Engg. & Iec. Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING CADD DESK OFFERED PRIMA VERA COURSE (8th Jul 2021- 07th Sep 2021)

MARK LIST

S.NO	REG NUM	NAME	THEORY (20 MARK)	PRACTICAL (80 MARK	TOTAL
1	912517103002	Abirai.s	15	75	90
2	912517103004		17	74	91
3		Balamuraugan vr	19	76	95
4	912517103008		16	77	93
5	912517103010		18	78	96
6	912517103011		19	79	98
7		Gobalakrishnan	20	72	92
8	912517103013		17	71	88
9	912517103014		18	73	91
10		Hameedriswan	19	74	93
11	912517103016		17	75	92
12	912517103017		15	74	89
13	912517103018		17	78	95
14	912517103019		14	79	93
15		Maheshboopathi	16	74	90
16	912517103021		18	76	94
17		Muthuperumal	19	72	91
18		Naveenkumar.m	20	71	91
19		Naveenkumar.M	17	75	92
20		Naveenkumar.s	18	74	92
21	912517103025		19	76	95
22	912517103027		19	77	96
23	912517102028		15	78	93
24	912517103029		17	79	96
25	912517103030		14	72	86
26	912517103031		16	71	87
27	912517103032		18	73	91
28	912517103033		19	74	93
29		Santhiyagubritto.S	20	75	95
30	912517103035		15	75	90
31	912517103036		17	74	91
32	912517103038		14	76	90
33	912517103039		16	77	93
34		Sundaramoorthy.T	18	78	96
35	912517103041		19	79	98
36	912517103044		20	72	92
37		Vasantha Ragavi.V	17	71	88
38		Veeramanikandan	18	73	91
39	912517103048		19	74	93
40	912517103049		20	75	95
4·1	912517103301		15	74	89
42	912517103302		17	78	95
4.3	912517103303		14	79	93
44	912517103305		16	74	90
4.5	912517103306		18	76	94
46	912517103307		19	72	91
47	912517103308		20	71	91
48	912517103309		17	75	92
49	912517103310		13	74	87
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DEPARTMENT OF CIVIL ENGINEERING STADD PRO(2018-2019) CERTIFICATES



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Sri Raaja Raajan Kowage of Engg. & Tech.,
Amaravath Committee Grokudi - 630 301
Swagangai Disc. Tamil Nadu



Made For Energized Engineers

CAD/CAM/CAE Training Institute
PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To

Mr/Ms...KAYATHRI.S

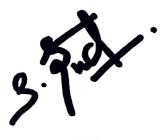
in

Diploma CAD in STADD.Prov8i
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MEE CADD

Made for Energized Engineers

During 03/10/2018 - 30/10/2018



S. SURESH Head (Training) S. SURESH
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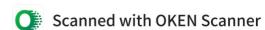
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DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE (2020-2021) ESTIMATION, COSTING AND VALUATION



PRINCIPAL

Sri Raaja Raajan Kowage of Engg. & Tech.,
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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) SYLLABUS



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

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Mobile: 73737 11343, 73737 11333

E-mail: erroe@01@gmail.com Website: www.sriraajaraajan.in

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 !BRD / MORTH Standard bidding documents - Construction contracts - Contract problems - Arbitration and legal requirements.

24/63, T.T. Nagar Church 3th Street, Opp. to Golden Singar Hotel, Karaikudi - 630 001.

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146/4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph UNIT V-VAEUATION

Fax : 04565 - 234430

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E-mail: srrcet2010@gmail.eom Website: www.sriraajaraajan.in

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

Duration: 45 hrs



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

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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) REPORT



PRINCIPAL

Sri Raaja Raajan Kowage of Engg. & Tech.,
Amaravath Savagangar Disc Tamil Nadu





146 /4B1, Amaravathi Village,

Amaravathipudur (Po.),

Karaikudi - 630 301.

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Name of the Course ESTIMATION, COSTING AND VALUATION

Duration: 45 HOURS

Course Conducted by: MEE CADD

Number of students attended:

Start Date: 3rd Jan 2022

End Date: 30th Mar 2022

INTRODUCTION

Estimating is the technique of calculating or computing the various quantities and the expected Expenditure to be incurred on a particular work orproject. In case the funds available are less than the estimated cost the work isdone in part or by reducing it or specifications are altered, the following requirementare necessary for preparingan estimate. Drawings like plan, elevation and sections of important points. Detailed specifications about workmanship& properties of materialsetc. Standard schedule of rates of the currentyear.

UNITS OF MEASUREMENTS

GINEEL

KARAIKUD

The units of measurements are mainly categorized for their nature, shape and size and for making payments to the contractor and also. The principle of units of measurements normally consists the following: Single units work like sanitary fittings, Electrical points, electrical appliences, etc., is expressed innumbers. Works consists linear measurements involve length like cornice, fencing, hand rail, pipe length with details, bands of specified width and skirting etc., are expressedinrunning meters (RM) Works consists areal surface measurements involve area like plastering, white washing, partitions of specified thickness, glass of specified thickness, flooring upto the thickness of 40mm, Tiles flooring, wall tile finishing, painting of doors and windows, A.C Sheet roofing, Weathering tiles, Doors and windows shutter with required specifications, Half brick work, Honey comb Brick work, Brick on edge work etc., are expressed in square meters (m2) Works consists cubical contents which involve volume like earth work, Earth fill, cement concrete, Masonry etc are expressed in Cubicmetres. Steel for RCC works is expressed in Killogram, Killonewton or tonne.

> (kg) 24/63, T.T. Nagar Church 3rd Street, Opp. to Golden Sipe ar Hotel Karaikudi – 630. kudi - 630 301

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Sivagangai Disc. Tamil Nadu



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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) NAME LIST



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Sri Raaja Raajan Kowage of Engg. & Tech.,
Amarayath Amarayath Arabidist Tamil Nadu





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY **DEPARTMENGT OF CIVIL ENGINEERING** MEE CADD ESTIMATION COSTING AND VALUATION COURSE 3rd Ian 2022- 30th mar 2022)

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3	912518103003	ARUNDEENBASTIN,A	Stoundeenbastin
4	912518103004	BALASUBRAMANIAN.V	V. Ralaschraminan
5	912518103005	BRINITHA.S	Brintha.
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17	912518103019	VAITHISHKUMAR.SR	· Haithelkuman
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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) ATTENDANCE SHEET



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Amarayath Amarayath Arabidist Tamil Nadu





SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY

DEPARTMENGT OF CIVIL ENGINEERING

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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) COURSE OUTCOMES



PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

Value-Added courses/Add on Courses

Introduction

Value-Added courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Value-Added Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Value-Added Course are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.

Designing the Courses

- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts

to understand the expectations for current and emerging trends.

3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Value-Added Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	ESTIMATION,COSTING	THEORY	20	100
	AND VALUATION	PRACTICAL	80	



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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION - QUESTION SET

- 1. The rate of payment is made for 100 cu m (per % cu m) in case of
- (A) Earth work in excavation
- (B) Rock cutting
- (C) Excavation in trenches for foundation
- (D) All the above
- 2. The rate of an item of work depends on
 - (A) Specifications of works
- (B) Specifications of materials
- (C) Proportion of mortar
- (D) All the above
- 3. The main factor to be considered while preparing a detailed estimate, is
- (A) Quantity of the materials
- (B) Availability of materials .
- (C) Transportation of materials
- (D) All the above
- 4. Pick up the correct statement from the following:
- (A) The estimated value of the work excluding the amount for contingencies, work charged establishment, tool and plants, is called work value
- (B) The actual expenditure involved to complete a work including incidental, establishment andtravelling charges, is called actual cost
- (C) The formal acceptance by the administrative department for incurring an expenditure on thework, is called administrative approval
- (D) All the above
- 5. Brick walls are measured in sq. m if the thickness of the wall is
- (A) 10 cm
- (B) 15 cm
- (C) 20 cm
- (D) None of these
- The plinth area of a building not includes
- (A) Area of the walls at the floor level
- (B) Internal shaft for sanitary installations up to 2 sq m. in area
- (C) Lift and wall including landing
- (E) Area of cantilevered porch
- 7. If the formation level of a highway has a uniform gradient for a particular length, and the ground is also having a longitudinal slope, the earthwork may be calculated by
 - A) Mid-section formula
 - (B) Trapezoldal lormula
- (C) Prismoidal RACIK formula
- (D) BY MY MY PDIO

- 8. While estimating a reinforced cement structure, the omitted cover of concrete is assumed
- (A) At the end of reinforcing bar, not less than 25 mm or twice the diameter of the bar
- (B) In thin slabs, 12 mm minimum or diameter of the bar whichever is more
- (C) For reinforcing longitudinal bar in a beam 25 mm minimum or diameter of the largest barwhich is more
- (D) All the above
- 9. A cement concrete road is 1000 m long, 8 m wide and 15 cm thick over the sub-base of 10 cm thickgravel. The box cutting in road crust is
 - (A) 500 m³ (B) 1000 $m^3(C)$ 1500 $m^3(D)$ 2000 m³
- 10. While estimating the qualities for the construction of a building, the correct metric unit is
 - (A) Meter for length
 - (B) Cubic meter for area
 - (C) Square meters for volume
 - (D) Liter for capacity
- 11. Pick up the correct statement from the following:
 - (A) In order to check up the average depth of excavation, 'Dead man's' are left at the mid-widths of borrow pits
 - (B) The earthwork calculation in excavation is made from the difference in levels obtained with a level
 - (C) The earth work in excavation to form the road embankment includes the formation of correct profile and depositing the soil in layers
 - (D) All the above
- 12. The brick work is not measured in cu m in case of
 - (A) One or more than one brick wall
 - (B) Brick work in arches
 - (C) Reinforced brick work
 - (D) Half brick wall
- 13. Pick up the incorrect statement from the following:
 - (A) Lead is the average horizontal straight distance between the borrow pit and the place ofspreading
 - (B) The lead is calculated for each block of the excavated area
 - (C) The unit of lead is 50 m for a distance upto 500 m
 - (D) The unit of lead is 1 km where the lead exceeds 2 km
- 14. The assumption on which the trapezoidal formula for volumes is based, is
 - (A) The end sections are parallel planes
 - (B) The mid-area of a pyramid is half the average area of the ends
 - (C) The volume of the Prismoidal is over-estimated and hence a Prismoidal correction is applied
 - (D) ATTEREVALUET

15. In the mid-section formula

- (A) The mean depth is the average of depths of two consecutive sections
- (B) The area of mid-sections is calculated by using mean depth
- (C) The volume of the earth work is calculated by multiplying the mid-section area by the distance between the two original sections
- (D) All of the above

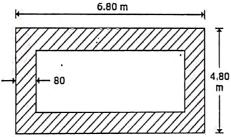
16. Pick up the correct statement from the following:

- (A) The earth work of cutting in trenches or borrow pits in fairly uniform ground is measured with the help of average depths of the dead men
- (B) The earth work in trenches or borrow pits in irregular ground is measured by taking the difference in levels before and after completion of work
- (C) The earth work in trenches or borrow pits, where neither a nor b is feasible, are measured from the fillings after deduction of voids
- (D) All the above

17. The cross-sections for a highway is taken at

- (A) Right angle to the centre line
- (B) 30 meters apart
- (C) Intermediate points having abrupt change in gradient
- (D) All the above

18.



Referring of given figure, pick up the correct statement from the following:

- (A) The total length of centre line of four walls is 20 m
- (B) Length of long wall out-to-out is 6.80 m
- (C) Length of short walls in-to-in is 3.20 m
- (D) All the above

. 19. Pick up the correct statement regarding the centre line method of estimating a building

(A) Product of the centre line of the walls and area of cross-section of any item, gives total quantity of the item

- (B) The centre line is worked out separately for different sections of walls of a building
- (CXThe centre line length is reduced by half the layer of main wall joining the partition wall
- (D) All the above

20. According to Indian Standards Institute, the actual size of modular bricks is

- (A) $23 \text{ cm} \times 11.5 \text{ cm} \times 7.5 \text{ cm}$
- (B) 25 cm × 13 cm × 7.5 cm
- (C) $19 \text{ cm} \times 9 \text{ cm} \times 9 \text{ cm}$
- (D) $20 \text{ cm} \times 10 \text{ cm} \times 10$



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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION - QUESTION SET

NAME:

YEAR: [11

- 1. The rate of payment is made for 100 cu m (per % cu m) in case of
- (A) Earth work in excavation
- (B) Rock cutting
- (C) Excavation in trenches for foundation
- (D) All the above
- 2. The rate of an item of work depends on
- (A) Specifications of works
- (B) Specifications of materials
- (C) Proportion of mortar
- (D) All the above
- 3. The main factor to be considered while preparing a detailed estimate, is
- (A) Quantity of the materials
- (B) Availability of materials
- (C) Transportation of materials
- (D) All the above
- 4. Pick up the correct statement from the following:
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- (C) The formal acceptance by the administrative department for incurring an expenditure on thework, is called administrative approval
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- 5. Brick walls are measured in sq. m if the thickness of the wall is
- (A) 10 cm
- (B) 15 cm
- (Ç) /20 cm
- (D) None of these
- 6. The plinth area of a building not includes
- (A) Area of the walls at the floor level
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- (C) Lift and wall including landing
- (E) Area of cantilevered porch

ENGLISHED that ion level of a highway has a uniform gradient for a particular length, and the ground is a longitudinal slope, the earthwork may be calculated by

Mid-sected formula

KARB Trapezonta formula

(C) Prismoid // ;L'[K formula





- 8. While estimating a reinforced cement structure, the omitted cover of concrete is assumed
- (A) At the end of reinforcing bar, not less than 25 mm or twice the diameter of the bar
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- 9. A cement concrete road is 1000 m long, 8 m wide and 15 cm thick over the sub-base of 10 cm thickgravel.

(A) 500 m³ (B) 1000 m³(C) 1500 m³(D) 2000 m³

- 10. While estimating the qualities for the construction of a building, the correct metric unit is
 - (A) Meter for length
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- 13. Pick up the incorrect statement from the following:
 - (A) Lead is the average horizontal straight distance between the borrow pit and the place of spreading
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- 14. The assumption on which the trapezoidal formula for volumes is based, is
 - (A) The end sections are parallel planes
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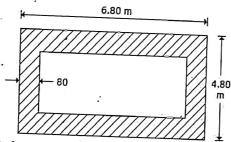
16. Pick up the correct statement from the following:

- (A) The earth work of cutting in trenches or borrow pits in fairly uniform ground is measured with the help of average depths of the dead men
- (B) The earth work in trenches or borrow pits in irregular ground is measured by taking the difference in levels before and after completion of work
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17. The cross-sections for a highway is taken at

- (A) Right angle to the centre line
- (B) 30 meters apart
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18.



Referring of given figure, pick up the correct statement from the following:

- (A) The total length of centre line of four walls is 20 m
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- (A) $23 \text{ cm} \times 11.5 \text{ cm} \times 7.5 \text{ cm}$
- (B) 25 cm \times 13 cm \times 7.5 cm
- (C) 19 cm × 9 cm × 9 cm
- (D) $20 \text{ cm} \times 10 \text{ cm} \times 10$



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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION - QUESTION SET

NAME:

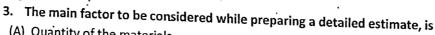
YEAR: (1)

1. The rate of payment is made for 100 cu m (per % cu m) in case of

- (A) Earth work in excavation
- (B) Rock cutting
- Excavation in trenches for foundation
- (D) All the above

2. The rate of an item of work depends on

- (A) Specifications of works
- (B) Specifications of materials
- (C) Proportion of mortar
- (D) All the above



- (A) Quantity of the materials
- (B) Availability of materials
- (C) Transportation of materials \
- (D) All the above

4. Pick up the correct statement from the following:

- (A) The estimated value of the work excluding the amount for contingencies, work charged establishment, tool and plants, is called work value
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 - (B) The earthwork calculation in excavation is made from the difference in levels obtained witha level
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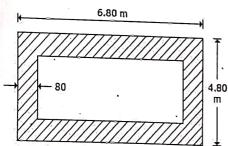
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- (A) Product of the centre line of the walls and area of cross-section of any item, gives total guantity of the item
- (B) The centre line is worked out separately for different sections of walls of a building
- (c) The centre line length is reduced by half the layer of main wall joining the partition wall KAIIFtHelabove

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION - QUESTION SET

NAME:

YEAR: 11)

- 1. The rate of payment is made for 100 cu m (per % cu m) in case of
- (A) Earth work in excavation
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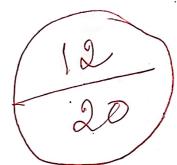
2. The rate of an item of work depends on

- (A) Specifications of works
- (B) Specifications of materials
- (C) Proportion of mortar
- (D) All the above
- 3. The main factor to be considered while preparing a detailed estimate, is
- (A) Quantity of the materials
- (B) Avallability of materials
- (C) Iransportation of materials
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- 4. Pick up the correct statement from the following:
- (A) The estimated value of the work excluding the amount for contingencies, work charged establishment, tool and plants, is called work value
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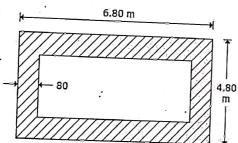
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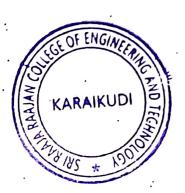
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Sri Raaja Raajan College of Engg. & Tech., Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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146 (181), Amazicathi Village, Amazicathipudai (1845), Kamikodi (1810-10) 191 (1486) (211210) 128112 Fas : 04565 - 234430

Mobile : 71717 11322, 71737 11333 F-mail : street2010@gmail.com

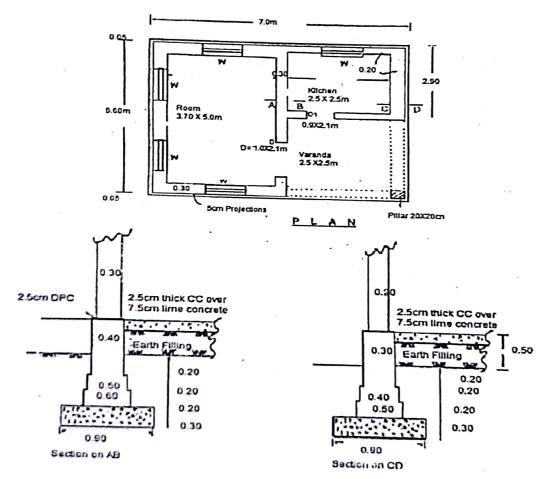
Website www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING COURSES ON ESTIMATION, COSTING AND VALUATION

PRACTICAL EXAMINATION:

80 MARKS

- 1. Estimate the following data's
- (i) Calculate the Earthwork
- (ii) Plastering
- (iii) D.P.C





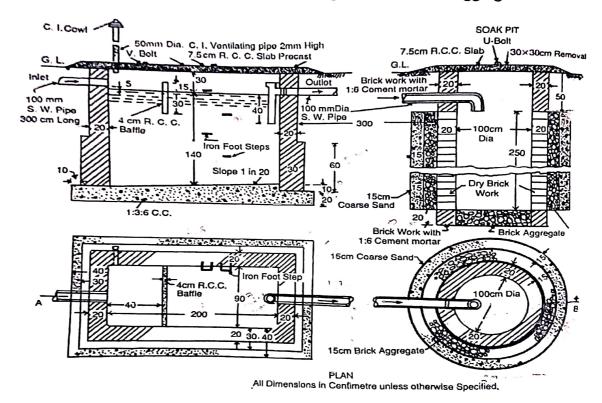


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146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi - 630 301 Ph : 04565 234230 / 326132

: 04565 - 234430 Mobile: 73737 11322, 73737 11333 E-mail : srrce(2010@)gmail.com Website: www.raajaraajan.org

- 2. Prepare the estimate for the 'Septic Tank'
 - Earthwork in Excavation (3) (i)
 - IstClass Brickwork in Septictank &IIndClass Brick work in Soak pit (ii)
 - Precast RCC work, Water proofing Compounds & Brick Aggregate (iii)



- 3. The Plan and sectional elevation of the building are given in fig Find the Estimate the quantities for the following items of works.
- (i) Earthwork in Excavation
- (ii) Plain Cement Concrete for Foundation
- (iii) Ist class Brickwork for foundation
- (iv) Concrete for roof slab(thickness of slab = 100 mm



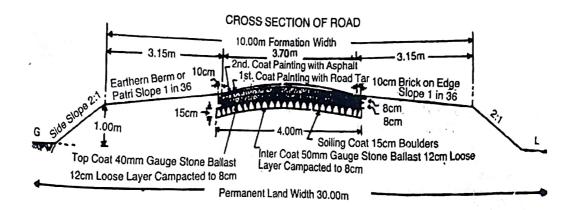


SRI RAAJA RAAJAN

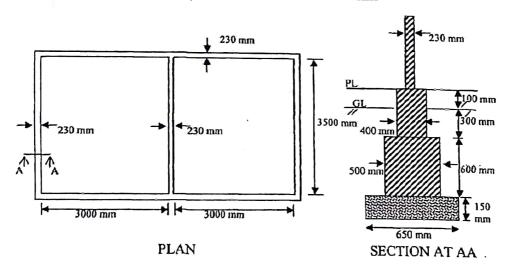
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Pax : 04565 - 234430 Mobile : 73737 11322, 73737 11333 E-mail : street2010@gmail.com Website: www.raajaraajan.org



- 4. The Plan and sectional elevation of the building are given in Fig.9 Find the Estimate the quantities for the following items of works.
- (v) Earthwork in Excavation
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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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

146 /4111, Amaravathi Village, Amaravathipudur (Po.), Karnikudi ~ 630 301. Ph : 04868 ~ 244240 / 326432

Vas : 04565 - 234430 Mobile : 73737 11322, 73737 11333 E-mail : street2010@gmail.com Website: www.raajaraajan.org

5. Prepare a data sheet and calculate the cost of the items given

below:

(i) Brick masonry in C.M. (1:6) with country bricks-unit Icum.

600Nos. country bricks.

0.38m3 C.M.(1:6)

1.40Nos. Mason

0.7 Nos. Man Mazdoor

2.1 Nos. Woman Mazdoor

L.S. Sundries.

(ii) C.C.(1:5:10) using 40mm HBG metal unit 1cum.

0.92m3...... 40mm size HBG metal

0.46m3..... Sand

0.092m3.....Cement

0.2 Nos Mason

1.8 Nos Man Mazdoor

1.4 Nos. Woman Mazdoor

L.S. Sundries.

Lead Statement of materials:

S.No.	Material	Cost at Source	Per	Lead in	Conveyance
		Rs. Ps.		Kın	Charges per Km
1	40mmHBG metal	210=00	m³	16	Rs.6=00/m ³
2	Sand	16-00	m^3	18	$Rs.3=00/m^3$
3	Bricks country	780=00	1000Nos	at site	
4	Cement	2600=00	10KN	at site	
			or		
i			1tonne		-



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Sri Raaja Raajan College of Engg. & Tech
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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND **TECHNLOGY**

DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD ESTIMATION COSTING AND VALUATION COURSE 3rd Inn 2022- 30th mar 2022)

MARK LIST

	MARK LIST					
s.no	REG NUM	NAME	THEORY (20 MARK)	PRACTIC AL (80 MARK	TOTAL	
1	912518103001	ABIKUMAR	15	75	90	
2	912518103002	ABINAYA	17	74	91	
3	912518103003	ARUNDEENBASTIN.A	14	76	90	
4	912518103004	BALASUBRAMANIAN.V	16	77	93	
5	912518103005	BRINITHA.S	18	78	96	
6	912518103006	GANESH.M	19	79	98	
7	912518103007	KAVIYA.M	20	72	92	
8	912518103008	MOHAMMED USMAN.N	17	71	88	
9	912518103009	MUGESHKANNAN.M	18	73	91	
10	912518103010	NATHIYA.P	19	74	93	
11	912518103011	NAVANEETHAN.S	20	75	95	
12	912518103012	PRAKASH.A	15	74	89	
13	912518103015	SANTHOSHKUMAR.V	17	78	95	
14	912518103016	SELUVATHI.S	14	79	93	
15	91251813017	SUBASHCHANDRABOSE.S	16	74	90	
16	912518103018	SURYA.S	18	76	94	
17	912518103019	VAITHISHKUMAR.SR	19	72	91	
18	912518103020	VIGNESHWARAN.K	20	71	91	
19	912518103301	DURAIRAJ.S	17	75	92	
20	912518103302	EESWARAN	18	74	92	
21	912518103303	GOWTHAMKUMAR.S	19	76	95	
22	912518103304	HARIHARAN.C	19	77	96	
OF THE PROPERTY OF THE PROPERT	912518103305	KAVIYARASAN.G	15	78	1 93	
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DEPARTMENT OF CIVIL ENGINEERING ESTIMATION, COSTING AND VALUATION (2020-2021) CERTIFICATE



PRINCIPAL

Sri Raaja Raajan Kowage of Engg. & Tech.,
Amarayath Committee Good Sold Swagangar Disc. Famil Nadu





CAD/CAM/CAE Training Institute
PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To
Mr/Ms. BRINITHA S

in

Diploma ESTIMATION COSTING AND VALUATION

By
MEE CADD

Made for Energized Engineers

During ... 03/01/2022 - 30/03/2022

S. SURESH Head (Training) S. SURESH
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MEE CADD



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PARI NAGAR KOTTAIYUR - 630 001



CERTIFICATE

Awarded To

Mr/Ms MOHAMMED USMAN N

in

Diploma ESTIMATION COSTING AND VALUATION

By

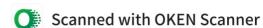
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CERTIFICATE

Awarded To

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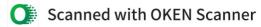
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CERTIFICATE

Awarded To

Mr/Ms. KAVIYARASAN G

in

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DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE (2021 2022) PRIMA VERA



PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) SYLLABUS



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Date:

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
10	DAY : 16	Activity Codes	2 ·	32
	DAY : 17	Resource Codes	2	34
10	DAY: 18	Working With Activities (Continue)	2	36
17	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
27	DAY : 24	Defining Budgets .	. 2	48
25	DAY: 25	Final Project	2	50

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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) REPORT



PRINCIPAL

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Duration: 50 HOURS

Name of the Course: PRIMA VERA

Course Conducted by: CADD DESK

Number of students attended:

Start Date: 8th Jul 2021

End Date: 07th Sep 2021

INTRODUCTION

There are a lot of project management software tools to choose from, and there are a few that truly seem to dominate the space, like Oracle's Primavera P6. How can you find the project management solution that fits your organization, project and how your team works? You must. first understand what these tools are and the feature set they offer.

Primavera P6 is the product of the multinational computer technology corporation Oracle. For such a well-known brand, it's a product that doesn't have great name recognition, even among those in the industry.

It's time to change that. Let's take a closer look at Oracle Primavera P6 to see what it can do and if it's right the right choice for your project management needs.

What Is Primavera P6?

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Oracle Primavera P6 is a project, program and portfolio management tool that's used for planning, managing and executing your project work. It's designed to handle large and small projects in many diverse industries, such as construction, manufacturing, energy, and IT. It's been doing so for more than 30 years in projects across the globe. OF ENGINE

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Date

Primavera P6 can trace its origins to 1983 when it was first established under the name Primavera Systems. In the next 15 years, it rapidly gained popularity. By the late 90s, advancements in server technology drove the company to split Primavera systems into two versions of the software: a desktop application (which is preferred by contractors, suppliers and manufacturing companies) and a web-based enterprise option.

In 2008, Primavera Systems was bought out by Oracle, which then developed the tool into the Primavera software that's used today.

The modern incarnation, Oracle Primavera P6, sells itself as a project portfolio management tool to increase your efficiency when planning, which reduces the risk of schedule overruns. One way it does this is by providing visibility into the work, so potential bottlenecks can be identified and resolved before they cause delays. It claims to work on projects of all sizes.

Primavera P6 Features

Let's zoom in closer on Primavera P6. First, it's a tool that works on an enterprise structure. That means it goes from the highest level of management down the line of project members. In terms of the key features, they are as follows.

• Project timelines: A traditional Gantt chart to schedule tasks on a bar graph

Risk management: Identify, track and resolve risks before they become issues

Information dashboard: A dashboard to track key project metrics

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• Reporting & analytics: Ability to generate status reports for stakeholders

• Calendar & activity views: View project tasks set over a calendar view

 Scheduling alerts: Keep the project on track by always knowing what's due when

 Project network view: Project network diagrams allow users to visualize their project schedules by sequencing project activities.

 Work breakdown structure: P6 allows users to create a work breakdown structure that lets them group related tasks together and establish a hierarchy.

Critical path method (CPM): Oracle Primavera lets users find the
critical path of their projects. The critical path method is an important
project scheduling technique that allows project managers to estimate the
total duration of a project and determine which project tasks must be
completed on time for the project to be delivered on schedule.

What Is Primavera P6 Used for?

Primavera P6 is used for project, program and portfolio management, thanks to its robust project management features. Here's an overview of how Oracle Primavera works.

Project planning & scheduling: Primavera P6 offers Gantt charts, project tables and network diagrams as its main project planning and scheduling tools. These tools allow users to create scope, schedule and resource baselines.

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 Project portfolio management: It can manage multiple projects in a program or portfolio at once with the enterprise project structure (EPS) tool.

- Resource management: Keep track and reallocate resources as needed by using customizable resource leveling forms.
- Risk management: Risk analysis features allow project managers to identify, track and resolve risks before they become issues.
- Contract management: Manage multiple projects, and get info from the database fast.
- Project Reporting: Report on timelines, resources and costs.

Who Uses Primavera P6?*

Oracle Primavera P6 is used by project managers who are in charge of delivering a project, program or portfolio of projects. Primavera P6 is mostly used for large-scale construction projects, but it can also be used in other fields such as business and manufacturing.

Any project professional can benefit from P6, such as engineers, schedulers and others who are instrumental in planning, management and reporting on the project. It's usually recommended that whoever uses the Primavera software takes a training course. The tool is built to help manage complex projects and therefore using it can be complicated as well.



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There are two main versions of Primavera P6. There's Primavera P6 Professional and Primavera P6 Enterprise Project Portfolio Management (EPPM). In addition, Oracle developed Oracle Primavera Cloud, which is a new cloud-based PPM platform. Here's a quick overview of their

Oracle Primavera P6 Professional

The P6 Professional version of Primavera is a desktop-based software that can be purchased directly from Oracle, or through an authorized Oracle reseller. You'll need to install the software on all your workstations. Oracle Primavera P6 Professional will cost \$2,570 for an annual subscription. That price includes \$2,020 plus an annual maintenance fee of \$550 for upgrades, fixes, patches, etc. The renewal of the maintenance cost isn't required, but it's suggested.

Oracle Primavera P6 EPPM

There's also the enterprise option, Primavera P6 Enterprise Professional Project Management (EPPM). This version of Primavera P6 is accessed via the web rather than being a desktop software application which makes it easier to implement in large organizations. It also has a slightly different feature set from the P6 Professional option. This option will run you \$2,750 for a perpetual license, which includes an annual maintenance fee of \$605.

Oracle Primavera Cloud (OPC)

Like Prima et P6 Professional and Primavera P6 EPPM, Oracle Primavera Cloud focuses on program and portfolio management, but has a different feature set. OPC has the added of faster delivery and fosters collaboration to improve efficiency and quality.

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However, the features that you'll get with Oracle Primavera Cloud depend on the license plan you choose, which is even more expensive than the desktop version of Primavera P6. OPC has the following license plans:

Oracle Primavera scheduling cloud service: \$1,320 user/year

Oracle Primavera task management cloud service: \$660 user/year

Oracle Primavera progress cloud service: \$144 user/year

Oracle Primavera portfolio planning cloud service: \$2,640 user/year

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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) NAME LIST



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CADD DESK OFFERED PRIMA VERA COURSE (8th Jul 2021- 97th Sep 2021)

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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) ATTENDANCE SHEET



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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) COURSE OUTCOMES



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Amarayath Cowage of Engg. & Tech.,
Swagangar Disc. Famil Nadu

146 /4B1, Amaravathi Village, Amaravathipudur (Po.), Karaikudi – 630 301. Ph: 04565 – 234230 / 326132 Fax : 04565 - 234430 Mobile : 73737 11322, 73737 11333 E-mail : srrcet2010@gmail.com Website: www.raajaraajan.org

<u>DEPARTMENT OF CIVIL ENGINEERING</u> <u>Value-Added courses/Add on Courses</u>

Introduction

Value-Added courses are part of the curriculum designed to provide necessary skills to increase the employability quotient and equipping the students with essential skills to succeed in life. Sri Raaja Raajan College of Engineering and Technology offers a wide variety of Value-Added Courses which shall be conducted on after class hours. These courses shall be conducted by experts or in-house staff and help students stand apart from the rest in the job market by adding further value to their resume. These value-added courses will be mostly independent to each type of the fields.

Objectives

Objectives of the Value-Added Course are:

- 1. To provide students an understanding of the expectations of industry.
- 2. To improve employability skills of students.
- 3. To bridge the skill gaps and make students industry ready.
- 4. To provide an opportunity to students develop their inter-disciplinary skills.
- 5. To mould students as job providers rather than job seekers.
- 1. Before designing the syllabus, the feedback from the employers, alumni and industry people will be analysed and considered to select and design an appropriate course by identifying the gaps.
- 2. Apart from these discussions may also be held with the employers, alumni and industrial experts to understand the expectations for current and emerging trends.
- 3. Any new Value-Added Course developed by a department should be placed before the Board of Studies and approved by the Academic Council.

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- 4. The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in University Departments.
- 5. A unique course code is to be given for each course.

Course Completion

- 1. Learners will get a certificate after they have registered for, written the exam and successfully passed.
- 2. The students who have successfully completed the Value-Added Course shall be issued with a Certificate duly signed by the Authorized signatories.

S. NO	PAPER TITLE/YEAR	THEORY/PRACTICAL	MARKS	TOTAL
1	PRIMA VERA	THEORY	20	100
		PRACTICAL	80	



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Sri Raaja Raajan Kowage of Engg. & Tech.,

Amarayatha and stockudi - 630 301

Swagangai Disc. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING **QUESTION PAPER -PRIMA VERA**

	1) Identify one project intense industries where Primavera has a significant presence.
	A. Oil and Gas B. Communications C. Health Sciences D. Tax
	2) What is the significance of assigning the Responsible Manager to an EPS Node?
	A. It assigns a generic resource to the EPS B. It assigns a named resource to the EPS C: It links the EPS to an OBS element D. It links the EPS to management reports
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	C. Activities represent the lowest level of the hierarchy D.It is defined and maintained in the Optional Client
	7) An activity has an Original Duration of 10, and a Remaining Duration of 10. The Actual Start is assigned
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D.Budget at Completion - Earned Value Cost

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- 12) Select the true statement regarding Global Preferences in Primavera P6 EPPM Web Interface.
- A. Global Preferences are shared among all users.
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- 13. You are a Portfolio Manager looking for a new portfolio that you manually created for your have clicked the Group By drop-down list in Portfolios. Which option should you select to quickly find your portfolio?
- A. Global Portfolio
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- B. Click on View, Expand All and scroll to locate the sub node
- C. Click on each Node and Expand it to the lowest level
- D. Click "Add" button, so that all nodes are expanded, and then cancel.
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B. 40

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C. 60

D. 80

16) What is a constraint in pri	imavera)		
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A. 10	B. 15	C. 12	D. Cannot be determined







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DEPARTMENT OF CIVIL ENGINEERING

COURSES ON Primavera P6

PRACTICAL EXAMINATION:

80 MARKS

- Create a new layout called Activity Entry.
- Using your own standalone copy of Primavera P6 Professional, familiarize yourself with the P6 interface. Access the main views such as the Projects view, WBS view and Activities view.
- 3. In the Projects view, use the Add button or right-click menu's Add option to run the "Create a new project" wizard. Create a project with the following attributes: EPS Node: E&C (Engineering and Construction) Project ID: EC00720 Project Name: New Home Construction Project Planned Start: 04-FEB-2013 Data Date: 04-FEB-2013 (typically will be automatically set to Project Planned Start).
- 4. Using the techniques described in the training video, create the following Work

 Breakdown Structure for your New Home Construction project:
- Perform a Schedule process on your copy of the New Home Construction project and verify the project planned finish date.
- 6. Using the techniques described in the video, select the Pour and Float Slab Concrete activity and increase the number of General Laborers to 6 by setting the Budgeted Units field in the Resources tab to 48.0h
- Go to the Project menu and use the Maintain Baselines dialog to create a baseline of your New Home Construction project.
- 8. Export your New Home Construction project to an XER file in P6 R6.2 format using the Export Wizard.



EGE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE, New Delhi & Affiliated to Anna University)

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Website: www.rnajarnajan.org

9. Locate and run the report named PR-01 Resources on Open Project. Load this report into an Excel Spreadsheet.

10. Make the following resource assignments in the New Home Construction schedule:

Activity ID	Activity Name	Resource ID	Budgeted Units / Time	Quantity
A1010	Project Management	Foreman	8/d	1
A1030	Survey and Mark Out Site	Surveyor	8/d	1
A1040	Grade Site	Operator	8/d	1
A1050	Install Foundation Forms	RCarp	8/d	1
A1050	Install Foundation Forms	GenLabor	8/d	1
A1060	Install Slab Plumbing	Plumb	8/d	1
A1070	Pour and Float Slab Concrete	GenLabor	8/d	4
A1080	Erect Exterior Wall Frames	RCarp	8/d	3
A1090	Erect Interior Stud Walls	RCarp	8/d	2
A1100	Install OSB Exterior Cladding	RCarp	8/d	3
A1110	Install Trusses	RCarp	8/d	3
A1120	Install Roof Sheeting	RCarp	8/d	3
A1130	Install Paper and Shingles	Roofing	8/d	3
A1140	Install HVAC Ducting	HVACEng	B/d	1
A1150	Install HVAC Unit	HVACEng	8/d	1
A1160	Install Breaker Box and Rough Wiring	Elec	8/d	1
A1170	Finish Wiring	Elec	8/d	1
A1180	Install Rough Plumbing Lines	Plumb	8/d	1
A1190	Install Drywall Sheeting	Drywall	8/d	2
A1200	Tape and Mud	Drywall	8/d	2
A1210	Install Doors	FCarp	8/d	1
A1220	Door Casings and Baseboards	FCarp	8/d	
A1230	Install Kitchen	FCarp	8/d	1
A1240	Install Windows	FCarp	8/d	
A1250	Install Siding	Siding	8/d	
A1260	Lay Turf and Plant Trees	GenLabor	8/d	

Sri Raaja Raajan College of Engg. & Iec. Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu



SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY DEPARTMENGT OF CIVIL ENGINEERING

CADD DESK OFFERED PRIMA VERA COURSE (8th Jul 2021- 07th Sep 2021) MARK LIST

MARK LIST						
S.NO	REG NUM	NAME	THEORY (20 MARK)	PRACTICAL (80 MARK	TOTAL	
1	912517103002	Abirai.s	15	75	90	
2	912517103004		17	74	91	
3		Balamuraugan vr	19	76	95	
4	912517103008		16	77	93	
5	912517103010		18	78	96	
6	912517103011		19	79	98	
7		Gobalakrishnan	20	72	92	
8	912517103013		17	71	88	
9	912517103014		18	73	91	
10		Hameedriswan	19	74	93	
11	912517103016		17	75	92	
12	912517103017		15	74	89	
13	912517103018		17	78	95	
14	912517103019		14	79	93	
15		Maheshboopathi	16	74	90	
16	912517103021		18	76	94	
17		Muthuperumal	19	72	91	
18		Naveenkumar.m	20	71	91	
19		Naveenkumar.M	17	75	92	
20		Naveenkumar.s	18	74	92	
21	912517103025		19	76	95	
22	912517103027		19	77	96	
23	912517102028		15	78	93	
24	912517103029		17	79	96	
25	912517103029		14	79	86	
26	912517103030		16	71	87	
27	912517103031		18	73	91	
28	912517103032		19	74	93	
29		Santhiyagubritto.S	20	75	95	
30	912517103034		15	75		
31	912517103033		17	74	90	
32	912517103030		14		91	
	912517103038		16	76	90	
33		Sundaramoorthy.T	18	77 78	93	
34	912517103040		19		96	
35	912517103041		20	79	98	
36		Vasantha Ragavi.V	17	72	92	
37		Veeramanikandan		71	88	
38	912517103048		18	73	91	
39	912517103048		20	74	93	
40	912517103049		15	75	95	
41	912517103301			74	89	
42			17	78	95	
43	912517103303		14	79	93	
44	912517103305		16	74	90	
4.5	912517103306		18	76	94	
46	912517103307		19	72	91	
47	912517103308		20	71	91	
48	912517103309		17	75	92	
49	912517103310		13	74	87	
50	912517103501		19	76	95	
51	912517103502	Sarkuna	19	77	96	



PRINCIPAL
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DEPARTMENT OF CIVIL ENGINEERING PRIMA VERA (2021-2022) **CERTIFICATE**



Sri Raaja Raajan Course of Engg. & Tech., · Amaravath Swagangai Disc. famil Nadu

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CERTIFICATE OF PARTICIPATION

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SRI RAAJA RAAJAN CO	OLLEGE OF ENC	GINEERING AND TECHNOL	OGY_ has
participated in Diplon	na Course in	PRIMA VERA	held on
08.07.2021 To 07.09.20	21, organized b	y Department of Civil Eng	ineering in
association with CADDE	SK, Karaikudi	•	\wedge

CADDESK Branch Managing Director HOD/CIVIL



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participated in Diploma Cours	e in PRIMA VERA	held on			
08.07.2021 To 07.09.2021, organized by Department of Civil Engineering in					
association with CADDESK, Kar	raikudi.	^			

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This is to certify th	atVIJ	VIJAY R	
SRI RAAJA RAAJAN	COLLEGE OF EN	GINEERING AND TECHN	OLOGY has
participated in Dip	oloma Course in	PRIMA VERA	held on
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association with CAD	DESK, Karaikudi		\bigcap
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SRI RAAJA RAAJAN CC	LLEGE OF ENC	GINEERING AND TECHNOL	OGY has		
participated in Diplon	na Course in	PRIMA VERA	held on		
08.07.2021 To 07.09.2021, organized by Department of Civil Engineering in					
association with CADDE	SK, Karaikudi	L.			

CADDESK Branch Managing Director





