SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University)

146 /4B1, Amaravathi Village,
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Fax : 04565 – 234430
Mobile : 73737 11322, 73737 11333
E-mail : srrcet2010@gmail.com
Website : www.raajaraajan.org

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

PRO E + ANSYS (2017-2018)

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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

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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

SYLLABUS

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech.,
Amaravathipudur, Karaikudi - 630 301
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Ph : 04565 – 234230 / 326132

Fax : 04565 – 234430
Mobile : 73737 11343, 73737 11333
E-mail : srrcet2010@gmail.com
Website: www.sriraajaraajan.in

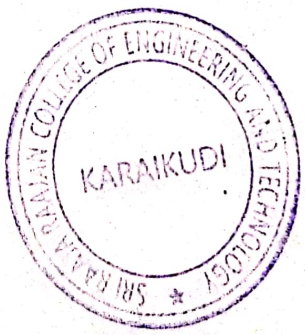
Date :

PRO/E+ANSYS Software Training

Course Curriculum 45hrs

Chapter 1: Before you start using Ansys

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



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Date :

Chapter 2: Selection Logic

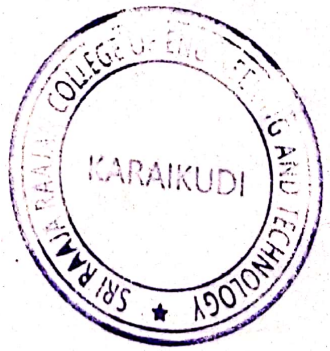
a. Pan-Zoom-Rotate
b. Picking
c. Coordinate Systems

Chapter 3: Solid Modeling

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

Chapter 4: Meshing

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



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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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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

REPORT

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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.,.

ANALYSIS

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

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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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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

NAME LIST

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY

DEPARTMENGT OF CIVIL ENGINEERING

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

S.NO	REG NUM	NAME	SIGNATURE
1	912514103002	AHAMED AASHIK.A	
2	912514103003	AJEETHKUMAR.T	
3	912514103005	AJITHKUMAR.S	
4	912514103006	AL AMEEN.M	
5	912514103007	ANANTHARAJ.V	
6	912514103008	ANISHKUMAR.S	
7	912514103009	ATCHAYAA.N	
8	912514103010	BALAJI.M	
9	912514103011	BASKARAN.J	
10	912514103012	BHARATHIRAJA.B	
11	912514103013	CHELLAPANDI.P	
12	912514103015	FRANCIS.P	
13	912514103016	HARIHARAN.M	
14	912514103017	JOHN SURESH.A	
15	912514103018	KAMALESHKUMAR.A	
16	912514103019	KANISHKA.V.K	
17	912514103024	KARTHIK RAJA.G	
18	912514103022	KARTHIKAISELVI.S	
19	912514103044	RAMSINGH.V	
20	912514103045	ROBINSON.J	
21	912514103046	SACHIN RAJA.M	
22	912514103047	SANDILYAN	
23	9125141030	SANGEETHA.A	
24	912514103049	SANGEETHA .B	
25	912514103050	SANJAY.E	
26	912514103051	SANTHIYA.S	
27	912514103052	SASIKUMAR.R	
28	912514103053	SEBASTIN MARTIN.A	
29	912514103054	SELVARANI	
30	912514103055	SEVUGAMOORTHIY.V	
31	912514103301	ARUN KUMAR.S	
32	912514103302	CHANDRAMURUGAN.A	
33	912514103303	KARTHIK.S	
34	912514103304	LAKSHMI PRIYANGA.A	
35	912514103306	MANIKANDA PRABHU.M	
36	912514103307	MATHIYARASAN.G	
37	912514103308	MUTHUKUMAR.S	
38	912514103309	PANDI.K	
39	912514103304	PRIYANKA.S	
40	912514103312	RAJAKUMARAN.S	
41	912514103501	AJAY VARMA.V	
42	912514103502	MANIMUTHU.M	
43	912514103901	PRADEEP.K	
44	912514103023	KARTHIKEYAN.B	

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45	912514103025	KARVANNAN	
46	912514103026	KAVIYARASU.M	
47	912514103027	KEERTHIKA.K	
48	912514103028	KOWSALYA	
49	912514103031	MAARESWARAN.M	
50	912514103029	MAHESWARAN.S	
51	912514103030	MANIKANDAN.A	
52	912514103032	MARIMUTHU,R	
53	912514103033	MEENAKSHISUNDARAM.A	
54	912514103034	MUTHUPANDI.R	
55	912514103035	NAVNEETHA KRISHNAN	
56	912514103037	PARTHEEPAN	
57	912514103038	RAJA.C	
58	912514103039	RAJAGURU.P	
59	912514103040	RAJAMANIKANDAN.R	
60	912514103041	RAJESHKUMAR.K	
61	912514103042	RAJESWARI.KS	
62	912514103043	RAMKUMAR.T	
63	912514103056	SINDHU.A	
64	912514103057	SOKKALINGAM.S	
65	912514103060	SUBBURATHINAM	
66	912514103061	SURESH KUMAR.K	
67	912514103062	SWATHI.M	
68	912514103063	VARGESHRAJA	
69	912514103064	VEERAMANI.G	
70	912514103065	VIJAYCHANDRAN	
71	912514103066	VINITH.B	
72	912514103067	VIRUMANDI	
73	912514103305	MATHAN KUMAR.U	
74	912514103310	PRASANNA	
75	912514103313	RAJESH.R	
76	912514103314	SAKTHIVAEL.R	
77	912514103315	SATHISH KUMAR.H	
78	912514103701	SHEIKABDULLAH	
79	912514103316	SIVASAKTHIRAMAN.M	
80	912514103317	SUBASH.M	
81	912514103318	SUTHAKAR.R	
82	912514103319	UDHAYAPRAKASH.R	
83	912514103320	UMASANKAR.M	
84	912514103321	VAIRAVANATHAN.C	
85	912514103322	VIJAY.P	
86	912514103323	VIMALSTALIN.J	
87	912514103503	RAMESH.K	
88	912514103702	PRAKASH.G	
89	912514103504	ARAVINDA KUMAR	

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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

ATTENDANCE SHEET

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

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Aug-17																												Sep-17																			
			1	1	3	3	4	4	8	8	10	10	11	11	14	14	17	17	18	18	22	22	24	24	25	25	28	28	31	31	1	1	2	2	5	5	8	8	15	15	19	19	21	21	22	22	23
			A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
1	912514103002	AHAMED AASHIK.A	a	a	a																																												
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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

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	Pro E+Ansys/2017	THEORY	20	100
		PRACTICAL	80	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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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 in.....format.

   A. .wbpj B. .scdoc C. .wbpz D. .cmdp

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

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?

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   C. Yield Strength and Poisson's ratio D.Ultimate strength and Yield Strength

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19. APDL solver and Workbench solver are two separate independent solvers.

A. True B. False

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Sivagangai Dist. Tamil Nadu

Aravindhakumar.
IV - yr

Assm

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE PROE/ANSYS QUESTION PAPER SET

19/20

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 in.....format.

   A. .wbpj B. .scdoc C. .wbpz D. .cmdp

4. Which numerical method is used by ANSYS to converge a nonlinear solution?

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DHANKA.C

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BALAJI. M
IV - Yr

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PRIYANKA.S
IV

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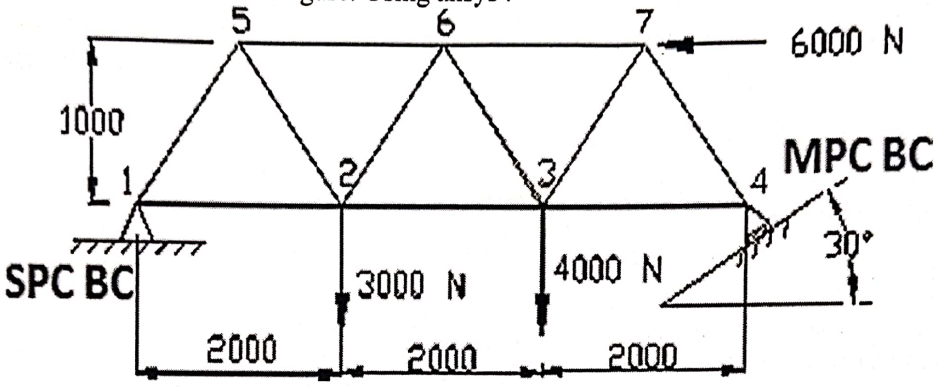
DEPARTMENT OF CIVIL ENGINEERING

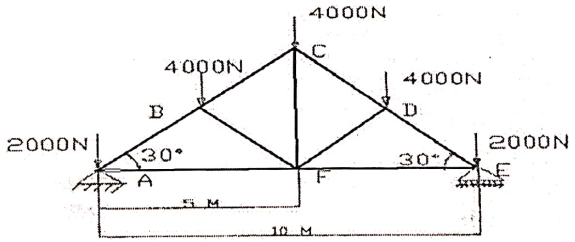
COURSES ON PRO-E ANSYS

PRACTICAL QUESTIONS: 80 MARKS

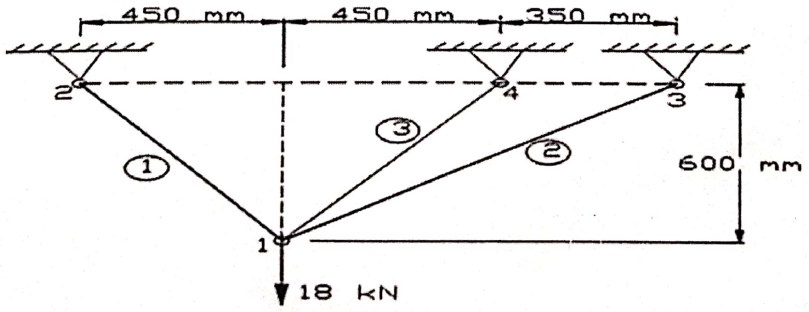
1. Figure shows a truss with an inclined roller support at node 4.The area of cross section of the elements of the truss is 120 sq. mm. The forces acting on the nodes are shown in the figure. It is supported at node 1by a hinged joint. Node 4 is supported on a roller arrangement and this support allows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



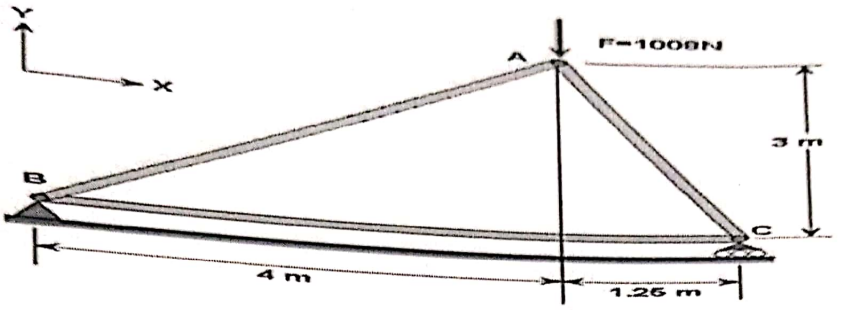
2. Find the forces, stresses on each member of the following truss structure.
Data; A=100mm^2 Young's modulus=25N/mmAlso find displacement field.



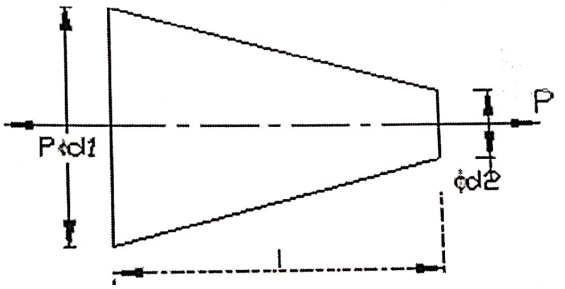
3. For the truss shown in figure, determine the reaction forces,nodal displacements, and element stresses.
A = 100 mm^2,
Young's modulus
= 200 GPa



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 $0.02\ m^2$, Young's modulus is $200x109\ N/m^2$ 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, l = 300 mm,



Young's modulus = 20 Gpa Using Ansys.

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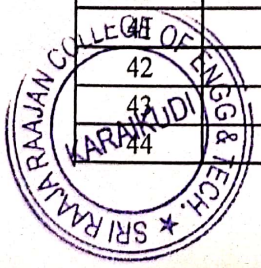
DEPARTMENGT OF CIVIL ENGINEERING

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

S.NO	REG NUM	NAME	Theory(20 marks)	Practical(80 marks)	Total 100 Marks
1	912514103002	AHAMED AASHIK.A	15	75	90
2	912514103003	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	912514103008	ANISHKUMAR.S	18	79	97
7	912514103009	ATCHAYAA.N	16	76	92
8	912514103010	BALAJI.M	15	78	93
9	912514103011	BASKARAN.J	14	79	93
10	912514103012	BHARATHIRAJA.B	13	76	89
11	912514103013	CHELLAPANDI.P	14	74	88
12	912514103015	FRANCIS.P	16	69	85
13	912514103016	HARIHARAN.M	17	74	91
14	912514103017	JOHN SURESH.A	19	72	91
15	912514103018	KAMALESHKUMAR.A	20	71	91
16	912514103019	KANISHKA.V.K	16	70	86
17	912514103024	KARTHIK RAJA.G	15	73	88
18	912514103022	KARTHIKAISELVI.S	18	75	93
19	912514103044	RAMSINGH.V	15	74	89
20	912514103045	ROBINSON.J	16	73	89
21	912514103046	SACHIN RAJA.M	14	72	86
22	912514103047	SANDILYAN	12	78	90
23	9125141030	SANGEETHA.A	17	79	96
24	912514103049	SANGEETHA .B	18	76	94
25	912514103050	SANJAY.E	16	78	94
26	912514103051	SANTHIYA.S	15	79	94
27	912514103052	SASIKUMAR.R	14	76	90
28	912514103053	SEBASTIN MARTIN.A	13	74	87
29	912514103054	SELVARANI	14	69	83
30	912514103055	SEVUGAMOORTHIY.V	16	74	90
31	912514103301	ARUN KUMAR.S	17	72	89
32	912514103302	CHANDRAMURUGAN.A	19	71	90
33	912514103303	KARTHIK.S	20	70	90
34	912514103304	LAKSHMI PRIYANGA.A	16	73	89
35	912514103306	MANIKANDA PRABHU.M	15	78	93
36	912514103307	MATHIYARASAN.G	18	79	97
37	912514103308	MUTHUKUMAR.S	15	76	91
38	912514103309	PANDI.K	18	74	92
39	912514103304	PRIYANKA.S	13	69	82
40	912514103312	RAJAKUMARAN.S	12	74	86
41	912514103501	AJAY VARMA.V	17	72	89
42	912514103502	MANIMUTHU.M	18	71	89
43	912514103901	PRADEEP.K	16	70	86
44	912514103023	KARTHIKEYAN.B	15	73	88



45	912514103025	KARVANNAN	14	75	89
46	912514103026	KAVIYARASU.M	13	74	87
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	912514103030	MANIKANDAN.A	20	74	94
52	912514103032	MARIMUTHU,R	16	69	85
53	912514103033	MEENAKSHISUNDARAM.A	15	74	89
54	912514103034	MUTHUPANDI.R	18	72	90
55	912514103035	NAVNEETHA KRISHNAN	12	71	83
56	912514103037	PARTHEEPAN	17	70	87
57	912514103038	RAJA.C	18	73	91
58	912514103039	RAJAGURU.P	16	78	94
59	912514103040	RAJAMANIKANDAN.R	15	79	94
60	912514103041	RAJESHKUMAR.K	14	76	90
61	912514103042	RAJESWARI.KS	13	74	87
62	912514103043	RAMKUMAR.T	14	69	83
63	912514103056	SINDHU.A	16	74	90
64	912514103057	SOKKALINGAM.S	17	72	89
65	912514103060	SUBBURATHINAM	19	71	90
66	912514103061	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
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86	912514103323	VIMALSTALIN.J	17	74	91
87	912514103503	RAMESH.K	18	73	91
88	912514103702	PRAKASH.G	16	72	88
89	912514103504	ARAVINDA KUMAR	19	71	90

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DEPARTMENT OF CIVIL ENGINEERING

PRO E + ANSYS (2017-2018)

CERTIFICATE

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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Techno CADD
Hi-end CAD/CAM/CAE/PPM

Certificate of Participation

This is to certify that FRANCIS P of SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY has participated in PRO / E + Analysis held on 01.08.2017 To 23.09.2017 , organized by Department of Civil Engineering in association with TECHNOCADD, Karaikudi.

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

STADD PRO (2018-2019)

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO (2018-2019)

SYLLABUS

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

Date :

Class Schedule for STAAD Pro

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

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO (2018-2019)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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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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STADD PRO (2018-2019)

NAME LIST

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DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED STADD.PRO COURSE (01 Aug 2018 -15 Sep 2018)

S.NO	REG NUM	NAME	SIGNATURE
1	912515103001	ABINASH.B	B. Abinash
2	912515103002	AJITH.K	Ajithi.k
3	912515103003	AMEER DEEN.S	S. AmeerDeen
4	912515103004	ARASATCHI.N	N. Arasatchi
5	912515103005	ARUL PRAKASH.S	S. Arul Prakash
6	912515103006	DINESH KUMAR.U	U. Dineshkumar
7	912515103007	DIVYA BARATHI.M	M. Divya Barathi.
8	912515103008	GANAPATHY.P	Ganapathy. P
9	912515103009	GNANA SOWNDARYA.P	Gnana Sowndarya.
10	912515103010	GOWTHAM.S	S. Gowtham
11	912515103011	HARI PRIYA.K	Hari Priya. K
12	912515103012	JANES KUMAR.G	Janeskumar.
13	912515103014	JOTHIRAJ.P	JothiRaj. P
14	912515103015	KABILAN.K	K. Kabilan
15	912515103016	KALIDASS	Kalidass
16	912515103018	KAVITHA.V	V. Kavitha
17	912515103019	LINGANATHAN.N	Linganathan
18	912515103020	MADHUBALAN.A	A. MathuBalan.
19	912515103021	MADHUMITHA.M	Madhumitha
20	912515103022	MAHENDRAN.A	Mahendhiran
21	912515103024	MANIKANDAPRABU.M	Manikandanprabu.m
22	912515103027	MARIMUTHU.A	Marimuthu
23	912515103029	MOHAMAD RILWAN.N	Mohamad Rilwan. N
24	912515103030	MOHAMED ASHIK.S	Mohamed ashik.
25	912515103031	MUTHU.M	Muthu
26	912515103033	MUTHUMEENAL.P	P. Muthumeenal
27	912515103034	MUTHUPRABAHAR.V	Muthuprabahar.
28	912515103035	NISANTHAN.R	R. Nisanthan
29	912515103301	AJITH.G	Ajith
30	912515103302	ARAVIND.K	K. Aravind
31	912515103303	ARTHI.T	Arthi. T
32	912515103305	BALASUBRAMANIYAN.C	Bala.
33	912515103306	BARATHIRAJA	Barathiraja.
34	912515103307	BASKARAN.P	Baskaran
35	912515103308	DINESHKUMAR.R	R. Dinesh
36	912515103309	GANESAN.P	Ganesan. P.
37	912515103310	KANNAN.A	A. Kannan.
38	912515103311	LAVANYA.C	C. Lavanya
39	912515103312	LOORTHUMARIYAN.B	Loorthumariyan.
40	912515103036	PALANIMURUGAN.K	Palani.
41	912515103037	PANDIAN	Pandian
42	912515103038	PANDI MANIKANDAN.M	Pandimanikandan
43	912515103039	PILLAPAN	Pillapan.
44	912515103040	PRADEEP.D	Pradeep.

45	912515103041	PRADEEPA	Pradeepa
46	912515103042	PRAKASH RAJ	Prakash Raj
47	912515103043	PRAVEEN KUMAR.V	V. Praveen Kumar.
48	912515103044	PRAVINKUMAR.A	A. Pravinkumar.
49	912515103046	RANIGA.S	S. Raniga.
50	912515103047	RANJITHKUMAR.K	K. Ranjithkumar.
51	912515103048	RAYAPRIYAN.M	M. Rayapriyan.
52	912515103050	SALMAN.M	Salman
53	912515103051	SANKAR.M	M. Sankar.
54	912515103052	SARATHKUMAR.K	Sarathkumar
55	912515103053	SARAVANA KUMAR.K	K. Saravana Kumar.
56	912515103054	SARAVANAN.K	Saravanan
57	912515103056	SATHYAPRIYA.S	S. Sathyapriya.
58	912515103057	SIVAKUMAR.M	Sivakumar
59	912515103058	SOMASUNDARAM.M	Somasundaram
60	912515103059	SRINIVASAN.S .	S. Srinivasan.
61	912515103060	SUNDARAMOORTHY.N	Sundaram
62	912515103061	SUNDARI.V	V. Sundari.
63	912515103062	SURENDHAR.V	Surendhar.
64	912515103063	SURYA.P	P. Surya.
65	912515103064	SYED ANVAR.N	N. Syed Anvar.
66	912515103065	USMAN ALI.A	Usman Ali.A
67	912515103066	VIGNESH.A	Vignesh
68	912515103067	VIJAY.P	Vijay
69	912515103068	VIJAYA KUMAR.K	K. Vijayakumar
70	912515103069	ESWARAN.K	Eswaran
71	912515103313	MANIKANDAN.C	C. Manikandan
72	912515103901	NAGAPANDI.M	Nagapandi.
73	912515103314	POOVARASAN.V	Poovarasan
74	912515103315	PRAKASH.G	Prakash.
75	912515103316	RAJESHKANNAN.A	Rajeshkannan.
76	912515103317	SAKTHIPRABAKARAN.S	Saktha
77	912515103701	SANTHIYA.G	G. Santhiya.
78	912515103319	SEVUGAPERUMAL.R	Sevugaperumal
79	912515103320	VENKATESHAN.R	R. Venkateshan.

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ATTENDANCE SHEET

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DEPARTMENGT OF CIVIL ENGINEERING

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ATTENDANCE SHEET

S.NO	REG NUM	NAME	Aug 18																		Sep 18											
			1	1	1	3	3	8	8	8	10	10	17	17	21	21	21	29	29	29	5	5	5	7	7	12	12	12	14	14	15	15
1	912515103001	ABINASH.B	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/
2	912515103002	AJITH.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912515103003	AMEER DEEN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912515103004	ARASATCHI.N	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912515103005	ARUL PRAKASH.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912515103006	DINESH KUMAR.U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912515103007	DIVYA BARATHI.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/	/	/
8	912515103008	GANAPATHY.P	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912515103009	GNANA SOWNDARYA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912515103010	GOWTHAM.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912515103011	HARI PRIYA.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912515103012	JANES KUMAR.G	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912515103014	JOTHIRAJ.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912515103015	KABILAN.K	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
15	912515103016	KALIDASS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912515103018	KAVITHA.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912515103019	LINGANATHAN.N	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
18	912515103020	MADHUBALAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912515103021	MADHUMITHA.M	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912515103022	MAHENDRAN.A	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912515103024	MANIKANDAPRABU.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/
22	912515103027	MARIMUTHU.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/
23	912515103029	MOHAMAD RILWAN.N	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	912515103030	MOHAMED ASHIK.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
25	912515103031	MUTHU.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	912515103033	MUTHUMEENAL.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912515103034	MUTHUPRABAHAR.V	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912515103035	NISANTHAN.R	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912515103301	AJITH.G	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/
30	912515103302	ARAVIND.K	a	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
31	912515103303	ARTHI.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912515103305	BALASUBRAMANIYAN.C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912515103306	BARATHIRAJA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
34	912515103307	BASKARAN.P	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912515103308	DINESHKUMAR.R	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
36	912515103309	GANESAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912515103310	KANNAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912515103311	LAVANYA.C	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912515103312	LOORTHUMARIYAN.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912515103036	PALANIMURUGAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912515103037	PANDIAN	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912515103038	PANDI MANIKANDAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/
43	912515103039	PILLAPAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912515103040	PRADEEP.D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912515103041	PRADEEPA	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912515103042	PRAKASH RAJ	/	a	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912515103043	PRAVEEN KUMAR.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	912515103044	PRAVINKUMAR.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
49	912515103046	RANIGA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50	912515103047	RANJITHKUMAR.K	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51	912515103048	RAYAPRIYAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52	912515103050	SALMAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53	912515103051	SANKAR.M	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54	912515103052	SARATHKUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55	912515103053	SARAVANA KUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56	912515103054	SARAVANAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/
57	912515103056	SATHYAPRIYA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58	912515103057	SIVAKUMAR.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
59	912515103058	SOMASUNDARAM.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60	912515103059	SRINIVASAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61	912515103060	SUNDARAMOORTHY.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62	912515103061	SUNDARI.V	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
63	912515103062	SURENDHAR.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64	912515103063	SURYA.P	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	a	/	/	/	/	/	/	/	/
65	912515103064	SYED ANVAR.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66	912515103065	USMAN ALI.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
67	912515103066	VIGNESH.A	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68	912515103067	VIJAY.P	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69	912515103068	VIJAYA KUMAR.K	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
70	9125151030[illegible]	ESWARAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71	912515103313	MANIKANDAN.C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	a	/	/	/	/
72	912515103901	NAGAPANDI.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
73	912515103314	POOVARASAN.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74	912515103315	PRAKASH.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/
75	912515103316	RAJESHKANNAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76	912515103317	SAKTHIPRABAKARAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
77	912515103701	SANTHIYA.G	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/
78	912515103319	SEVUGAPERUMAL.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
79	912515103320	VENKATESHAN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/

PRINCIPAL
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SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University)

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

DEPARTMENT OF CIVIL ENGINEERING

STADD PRO (2018-2019)

COURSE OUTCOME

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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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	STADD.PRO/2018	THEORY	20	100
		PRACTICAL	80	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

STADD PRO QUESTION PAPER SET

1. Which of the following structural loads are not applied commonly to a building?
a) Environmental load b) Live load c) Dead load d) Rain load

2. In the case of a structural member supporting more than one floor with load exceeding 100psf., what is the maximum permitted reduction %?
a) 20 b) 25 c) 15 d) 10

3. Which of the following is statically determinate structure?
a) Two hinged arch b) Fixed beam c) Double overhanging d) Continuous beam

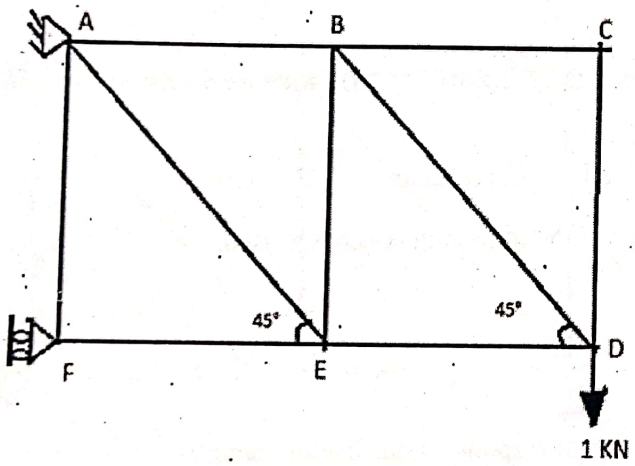
4.In the equation U-0.9D + 1.6W + 1.6H, what is the load factor for H if the structural action of H counteracts that due to W or E?
a) 0.005 b) 0 c) 0.1 d) 0.05

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 d) .03813gw

6. If we use link support in a structural system, then how many unknowns would we have?
a) 1 b) 2 c) 0 d) 4

7. Which of the following material is not used in making trusses?
a) Metal bars b) Concrete c) Wooden struts d) Channel

8. Calculate the force in member BC.



a) 0KN b) 2–√ KN (TENSILE) c) 1KN (TENSILE) d) 1KN (COMPRESSIVE)

9. Why is base plate provided in short roof trusses?
a) For rigidity
b) As provision for temperature related expansion/contraction
c) To transmit load effectively
d) For stability

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11. Which structure will perform better during earthquake?
a) Statically determinate and indeterminate
b) Depends upon magnitude of earthquake
c) Statically indeterminate
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12. Which type of structure would cost less in terms of materials?
a) Statically indeterminate
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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?
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18. If a structure has 2j – r no. of members, then it will be:-
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19. To draw qualitative ILD of indeterminate structure, which of the following concept is used.
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b) Kani's Method
c) Unit Load Method
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20. Which of the following material will have the highest value of response modification factor?
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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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Sivagangai Dist. Tamil Nadu

Kabilan. I.
ABINASH. B
IV -YR

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

17/20

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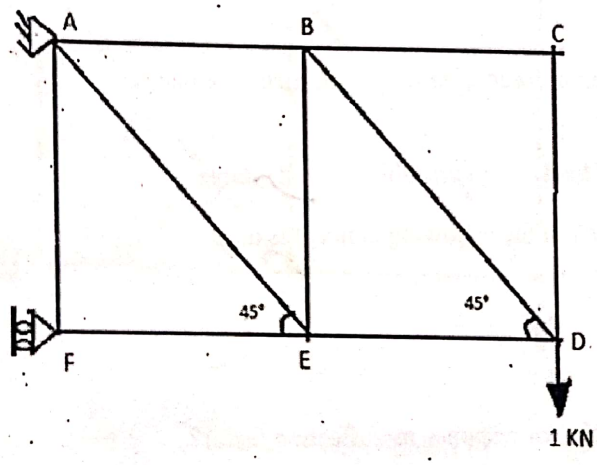

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Kabilan. Ic.
IV - Y

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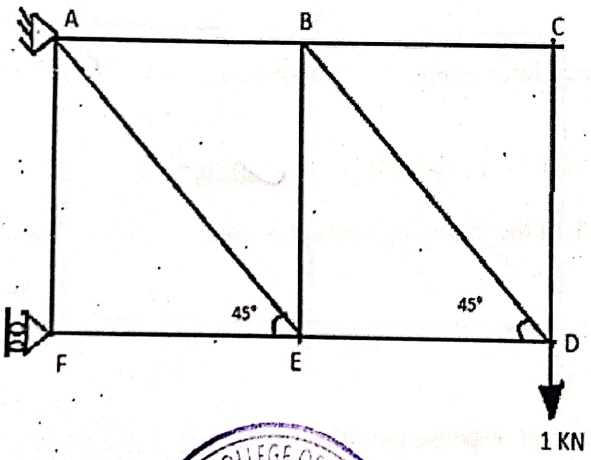

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Prakash. G
IV - yr

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DEPARTMENT OF CIVIL ENGINEERING

12/20

ADD ON COURSE

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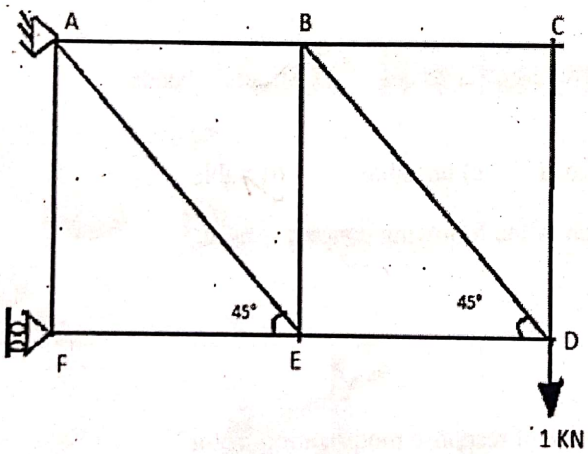

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9. Why is base plate provided in short roof trusses?
a) For rigidity
b) As provision for temperature related expansion/contraction
c) To transmit load effectively
d) For stability

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

13. Which of the following is carried by truss members?
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 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) Resistance of member

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 10th level of a structure if total gravity load is x and portion assigned to the 10th 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 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

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 frames
b) Reinforced concrete shear walls
c) Wood
d) Reinforced concrete frames with flexible joints

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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

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MEE CADD OFFERED STADD.PRO COURSE (01 Aug 2018 -15 Sep 2018)

S.NO	REG NUM	NAME	Theory(20 marks)	Practical(80 marks)	Total(100 marks)
1	912515103001	ABINASH.B	17	76	93
2	912515103002	AJITH.K	13	74	87
3	912515103003	AMEER DEEN.S	14	69	83
4	912515103004	ARASATCHI.N	16	74	90
5	912515103005	ARUL PRAKASH.S	17	72	89
6	912515103006	DINESH KUMAR.U	19	71	90
7	912515103007	DIVYA BARATHI.M	20	70	90
8	912515103008	GANAPATHY.P	16	76	92
9	912515103009	GNANA SOWNDARYA.P	15	74	89
10	912515103010	GOWTHAM.S	18	69	87
11	912515103011	HARI PRIYA.K	12	74	86
12	912515103012	JANES KUMAR.G	17	72	89
13	912515103014	JOTHIRAJ.P	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	PANDI MANIKANDAN.M	16	78	94
43	912515103039	PILLAPAN	15	79	94
44	912515103040	PRADEEP.D	14	76	90

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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	912515103053	SARAVANA KUMAR.K	18	74	92
56	912515103054	SARAVANAN.K	13	69	82
57	912515103056	SATHYAPRIYA.S	12	74	86
58	912515103057	SIVAKUMAR.M	17	72	89
59	912515103058	SOMASUNDARAM.M	18	71	89
60	912515103059	SRINIVASAN.S	16	70	86
61	912515103060	SUNDARAMOORTHY.N	15	73	88
62	912515103061	SUNDARI.V	14	75	89
63	912515103062	SURENDHAR.V	13	74	87
64	912515103063	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
79	912515103320	VENKATESHAN.R	16	78	94

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO (2018-2019)

CERTIFICATE

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PARI NAGAR KOTTAIYUR - 630 001

Certificate Number : QC17X0111413

CERTIFICATE

Awarded To

Mr/Ms. POOVARASAN V

in

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During 01/08/2018 - 15/09/2018

S. SURESH
Head (Training)

S. SURESH
INSTRUCTOR
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

REVIT ARCHITECTURE (2021-2022)

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

SYLLABUS

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Serial No:	Hour Wise Topic
HOURS: 1	• Introduction • Overview • Project Templates • Tool Palettes • Default Project Template • Exploring the User Interface • Starting a Project
HOURS: 2	• Project Units • Dimensions • Levels • Modifying level & editing • Create Grids, Editing grid
HOURS: 3	Walls • Wall Properties • Wall Shapes & Draw panel • Profile edit • Wall Joins • Working with Grids • Drawing a plan
HOURS: 4	4 Modify Commands • Move, Copy, Paste, • Create Similar , Rotate , Mirror, • Array , Scale , Scale , Trim / Extend • Offset , Align, Split, Split Face
HOURS: 5	•Column • Introduced to concrete & steel column • Modeling steel column • Modeling concrete column • Placing column at grids • Rotate after placement
HOURS: 6	Foundation • Introduction of foundation • Introduction Isolated footing • Introduced to & Wall foundation • Placing footing at grid
HOURS: 7	Beam • Introduced to concrete & steel beams • Concrete arc beam • Draw beam using chain option • Draw beams using grids
HOURS: 8	Annotation command • Dimensions • Text • Model Text • Model line
HOURS: 9	Floors • Introduction to floor • Introduction to type of floors • Inserting different type of layers in floor

Date :

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Date :

	• Type properties of floor • Edit floor property • Create duplicate floor
HOURS: 10	**Slab** • Introduced to slab • Draw a slab using boundary line • Type properties of slab • Edit slab property • Create duplicate slab
HOURS: 11	**Openings** • Vertical Opening • Shaft opening • Multiple floor Shaft opening • Wall opening • Opening By Face
HOURS: 12	**Component** • Loading Component • Placing Components • Modifying Properties • Visibility Graphics
HOURS: 13	**Reinforcement** • Introduced to reinforcement • Reinforcement in column & beam • Wall reinforcement • Stirrup reinforcement • Introduction to cover & editing cover
HOURS: 14	**Column Rebar Detailing** • Column Rebar • Column Covering • Beam Rebar • Beam covering
HOURS: 15	**TRUSS** • Introduce to steel frame structure • How to create truss • Introduce to Brace • Create Bracing in truss • Introduced to Beam System
HOURS: 16	**Insert Tab** • Decal • Create Decal and Setup Decal • Insert CAD File • Load Family
HOURS: 17	**Schedule** • Beam schedule • Column Schedule **Material Takeoff** • Wall material takeoff
HOURS: 18	**Detailing** • Callout views

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	• Duplicate View • Creating Details • Repeating Detail • Drafting Views
HOURS :19	**Symbols** • Exercise related above tools • Field Region • Revision Cloud
HOU RS: 20	**Sheet** • Adding a Sheet • Adding Views to a Sheet • Modifying a View on a Sheet • Creating a Title Sheet • Printing Setup
HOU RS: 21	**Visibility & Graphics** • Rendering • Camera • Walkthrough • Export Image and walkthrough
HOU RS: 22	• Fabric Reinforcement • Match Line • Scope Box • Drafting Spot Dimension
HOU RS: 23	**Legend** • Create Legend • Use Detail Line • Line Styles and Line Weights • Line Patterns • Groups
HOU RS: 24	**In-Place Families** • Setting Work Planes • Creating and Modifying • In-Place Families
HOU RS: 25-26	**Family Creation** • Introduction Architecture Template • Creating Column & Beam
HOURS: 27-38	**Short Reminder of All commands& doubts and discussion**
HOURS: 39-40	**PROJECT WORK**

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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Name of the Course: Revit Architecture

Duration: 40 HOURS

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 conceptual modeling.

Revit + Dynamo

Automate routine workflows.

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

NAME LIST

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DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED Revit Architecture COURSE (1nd Mar 2022- 10th May 2022)

S.NO	REG NUM	NAME	SIGNATURE
1	912517103002	Abiraj.s	
2	912517103004	Arhindh.K	
3	912517103007	Balamuraugan vr	
4	912517103008	Brindha	
5	912517103010	Dhanabalan.T	
6	912517103011	Gnanasekaran	
7	912517103012	Gobalakrishnan	
8	912517103013	Gokhul	
9	912517103014	Gopinath	
10	912517103015	Hameedriswan	
11	912517103016	Jayalakshmi.R	
12	912517103017	Karthickraja	
13	912517103018	Krishnaveni	
14	912517103019	Lalithadevi.A	
15	912517103020	Maheshboopathi	
16	912517103021	Mathikumar.S	
17	912517103022	Muthuperumal	
18	912517103023	Naveenkumar.m	
19	912517103024	Naveenkumar.M	
20	912517103025	Naveenkumar.s	
21	912517103025	Pradeepraj	
22	912517103027	Prakash	
23	912517102028	Prasannaraaj	
24	912517103029	Praveen.V	
25	912517103030	Ragupathi	
26	912517103031	Rajachandran	
27	912517103032	Rajesh	
28	912517103033	Ramya	
29	912517103034	Santhiyagubritto.S	
30	912517103035	Sevugarajan.S	
31	912517103036	Siva	
32	912517103038	Sowmiya.J	
33	912517103039	Sriram	
34	912517103040	Sundaramoorthy.T	
35	912517103041	Thirumurugan	
36	912517103044	Usha Nanthini	
37	912517103045	Vasantha Ragavi.V	
38	912517103046	Veeramanikandan	
39	912517103048	Vijayalakshmi	
40	912517103049	Vimalraj	
41	912517103301	Aravinth.V	
42	912517103302	Iyappan	
43	912517103303	Kuppusamy raj	
44	912517103305	Sarmila	
45	912517103306	Sundhar	
46	912517103307	Umarbasha	
47	912517103308	Vellaikalai	
48	912517103309	Vignesh	
49	912517103310	Vijay.R	
50	912517103501	Rajalakshmi	
51	912517103502	Sarkuna	

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

ATTENDANCE SHEET

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Sivagangai Dist. Tamil Nadu

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENGT OF CIVIL ENGINEERING

FREE CADD OFFERED Revit Architecture COURSE (2nd Mar 2022- 10th May 2022)

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Mar-22																															Apr-22													May-22					
			1	1	3	3	1	4	8	8	10	10	11	11	15	15	17	17	18	18	22	22	24	24	25	25	29	29	31	31	1	1	.	4	8	8	11	11	14	16	15	15	19	19	22	22	3	3	5	5	10	10
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1	912517103002	Abiraj.s	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	a	a
2	912517103004	Arhindh.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912517103007	Balamuraugan.vr	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912517103008	Brindha	/	/	/	/	/	/	/	/	a	a	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912517103010	Dhanabalan.T	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912517103011	Gnanasekaran	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912517103012	Gobalakrishnan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912517103013	Gokhul	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912517103014	Gopinath	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a
10	912517103015	Hameedriswan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/
11	912517103016	Jayalakshmi.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912517103017	Karthickraja	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912517103018	Krishnaveni	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912517103019	Lalithadevi.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	912517103020	Maheshboopathi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912517103021	Mathikumar.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912517103022	Muthuperumal	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912517103023	Naveenkumar.m	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912517103024	Naveenkumar.M	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/
20	912517103025	Naveenkumar.s	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912517103025	Pradeepraj	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912517103027	Prakash	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912517102028	Prasannaraaj	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	912517103029	Praveen.V	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	912517103030	Ragupathi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	912517103031	Rajachandran	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912517103032	Rajesh	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912517103033	Ramya	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912517103034	Santhiyagubritto.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	a	a	/	/	/	/	/	/	/	/
30	912517103035	Sevugarajan.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	912517103036	Siva	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912517103038	Sowmiya.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912517103039	Sriram	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/
34	912517103040	Sundaramoorthy.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912517103041	Thirumurugan	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	912517103044	Usha Nanthini	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912517103045	Vasantha Ragavi.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912517103046	Veeramanikandan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912517103048	Vijayalakshmi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912517103049	Vimalraj	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912517103301	Aravinth.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912517103302	[illegible]appan	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912517103303	Kuppusamy.[illegible]	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912517103305	Sarmila	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912517103306	Sondhar	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912517103307	Umarbasha	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912517103308	Vellaikalai	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	91251[illegible]	Vignesh	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/
49	91251[illegible]	Vijay[illegible]	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50	912517[illegible]	Rajalakshmi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a
51	912517[illegible]	Sarkuna	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY * KARAIKUDI

PRINCIPAL
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SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University)

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

COURSE OUTCOME

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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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	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
QUESTION PAPER (REVIT ARCHITECTURE)

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 d) All riser lines must touch the boundary 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?

a) Linear b) Angular c) Temporary d) Radial

Which is NOT a valid option when sketching a ceiling?

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

9. What kind of dimension shows up while you start drawing a line?

a) Listening b) Spot c) Permanent d) Temporary

10. Which one is not a Stair System Family?

a) Cast in place Stair b) Monolithic Stair c) Precast Stair d) Assembled Stair

11. Which is not a property of a slope arrow pf a roof?

a) Level b) Level at tail c) Height offset at head d) Level at head

12. When modelling a floor, the floor _____ must be a closed loop.

a) Slope b) Type c) Function d) Boundary

13. To define the extents of room, you must use room bounding elements or room separation _____.

a) Lines b) Parameters c) Tags d) 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 _____.

a) Be deleted b) Move c)Stay the same d) Highlighted

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

19. You can add a building pad to a _____ and then modify the pad's structure and depth.

a) Site surface b) Toposurface c) Floor Slabs d) Earth surface

20. When creating a straight run, the run lines that indicate slope are _____ color.

a) Blue b) Green c) Red d) Black

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Sivagangai Dist. Tamil Nadu

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
QUESTION PAPER (REVIT ARCHITECTURE)

NAME: ARHINDH.K YAER: IV

17/20

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 d) All riser lines must touch the boundary 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?
a) Lenear b) Angular c) Temporary d) Radial
8. Which is NOT a valid option when sketching a ceiling?
a) Construction line b) Pick line c) Slope Arrow d) Pick Walls

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

9. What kind of dimension shows up while you start drawing a line?

a) Listening b) Spot c) Permanent d) Temporary

10. Which one is not a Stair System Family?

a) Cast in place Stair b) Monolithic Stair c) Precast Stair d) Assembled Stair

11. Which is not a property of a slope arrow pf a roof?

a) Level b) Level at tail c) Height offset at head d) Level at head

12. When modelling a floor, the floor _____ must be a closed loop.

a) Slope b) Type c) Function d) Boundary

13. To define the extents of room, you must use room bounding elements or room separation _____.

a) Lines b) Parameters c) Tags d) 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 _____.

a) Be deleted b) Move c) Stay the same d) Highlighted

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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DEPARTMENT OF CIVIL ENGINEERING
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NAME: Mathi kumar.S YAER: IV

15/20

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DEPARTMENT OF CIVIL ENGINEERING
QUESTION PAPER (REVIT ARCHITECTURE)

NAME: Sundaramoorthy. T **YAER:**

10/20

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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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S.NO	REG NUM	NAME	Theory(20)	Practical(80)	Total(100)
1	912517103002	Abiraj.s	15	75	90
2	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	88
12	912517103017	Karthickraja	16	69	85
13	912517103018	Krishnaveni	17	74	91
14	912517103019	Lalithadevi.A	19	72	91
15	912517103020	Maheshboopathi	20	71	91
16	912517103021	Mathikumar.S	15	70	85
17	912517103022	Muthuperumal	15	73	88
18	912517103023	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	912517103302	Iyappan	18	71	89
43	912517103303	Kuppusamy raj	16	70	86
44	912517103305	Sarmila	15	73	88
45	912517103306	Sundhar	14	75	89
46	912517103307	Umarbasha	13	74	87
47	912517103308	Vellaikalai	14	73	87
48	912517103309	Vignesh	16	72	88
49	912517103310	Vijay.R	17	78	95
50	912517103501	Rajalakshmi	19	79	98
51	912517103502	Sarkuna	20	74	94

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DEPARTMENT OF CIVIL ENGINEERING

REVIT ARCHITECTURE (2021-2022)

CERTIFICATE

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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CAD/CAM/CAE Training Institute

PARI NAGAR KOTTAIYUR – 630 001

AN ISO 9001:2015 CERTIFIED COMPANY

Certificate Number : QC 17X8111413

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

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maravathipudur, KARAIKUDI - 630 301. ...

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CERTIFICATE

Awarded To

Mr/Ms.....THIRUMURUGAN.....

in

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

AUTO CADD (2021-2022)

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

SYLLABUS

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E-mail : srrcet2010@gmail.com
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Serial No:	Hr Wise Topic Date :
HR : 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
HR : 2	• Units • Drafting Settings (OSnap and Otrack) • Dynamic Input • Options • Properties Tab (Line type, line weight, Object Color) • Dimensions and Dimensions Style
HR : 3	• Circle (Centre Rad/Dia, 2 point, 3 point, ttr,ttt) • Rectangle (Chamfer, Fillet, Width) • Polygon (Inscribed, Circumscribed)
HR : 4	• Ellipse (Centre axis and elliptical arc) • Arc • Fillet and Chamfer
HR : 5	• Move, Copy, Rotate • Offset • Trim, Extend
HR : 6	• Mirror, Join, Break • Stretch and Scale • Explode
HR : 7	• LIMITS (ON/OFF/COORDINATE) • Match Properties • Polylines and Polylines Edit
HR : 8	• Layers • Layers ON/OFF, Freeze, Lock • Layer Isolate/Un Isolate

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HR : 9	• Text and Text Style • Single line and Multiline text • Spell • Hatch and Hatch Edit • Open Area Hatch
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 • Lengthen • Quick Calculator • Quick Properties • Advance Selection Methods (Quick Select, Filter, SelectionCycle)
HR : 14	• Design Centre • Tool Pallets and Tool Pallets Creation • Layout and Template Creation • Print and Publish Settings
HR : 15	• Create Block and Insert Block • Block Editor and Dynamic Block • Attributes, Edit Attributes • Block Attribute Manager • Attribute Display
HR : 16	• Data Extraction • Raster image reference and Clip • Ole Object • Hyperlink • E-Transmit • Edit Menu

Date :

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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
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
HR : 20	• Extrude and Loft • Revolve, Intersect and Region • Subtract and Union
HR : 21	• Press/Pull • Sweep and 3D Align • Shell
HR : 22	• Dynamic UCS • Rotate 3d, Mirror 3D • Fillet, Chamfer

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HR : 22	• Dynamic UCS • Rotate 3d, Mirror 3D • Fillet, Chamfer
HR : 23	• Section Plane • Solid Edit (Face, Edge and Body) • Surface Edit • Thicken
HR : 24	• Mesh • Material • Render
HR : 25-	• Motion Path and Animation • Lights
HR : 26-30	PROJECT

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech.,
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SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY

Name of the Course: AUTO CADD

Duration: 40 HOURS

Course Conducted by: CADD Desk

Number of students attended: 47

Start Date: 02nd Aug 2021

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.

COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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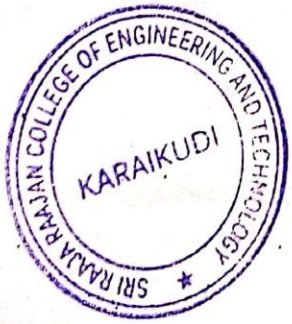
Website : www.raajaraajan.org

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.



SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
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146 /4B1, Amaravathi Village,
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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

NAME LIST

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech.,
Amaravathipudur, Karaikudi - 630 301
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	SIGNATURE
1	912516103001	AJAY.K	Ajay.
2	912516103002	AJITHKUMAR.C	C. Ajithkumar.
3	912516103003	AKASH.K	Akash.k
4	912516103004	BALAGI.P	Balagi
5	912516103005	DEVASIVA.V	V. Devasiva
6	912516103006	DIVYA.T	Divya
7	912516103007	GOWSALYADEVI.T	T. Gowsalyadevi.
8	912516103008	IYAPPAN.P	P. Iyappan.
9	912516103009	JUHEE JAHAN.B	Juhee Jahan
10	912516103010	KALEESWARAN.A	A. Kaleeswaran.
11	912516103011	KARTHIKEYAN.R	R Karthikeyan.
12	912516103012	KAYATHRI.S	S. Kayathri
13	912516103013	MADHAN KUMAR.A	A. Madhan kumar.
14	912516103014	MARISWARAN.P	Mariswaran. P
15	912516103015	NAVEEN.N	Naveen.
16	912516103016	NIRANJANI.M	M. Niranjani
17	912516103017	PARTHIPAN.T	T. Parthipan
18	912516103018	PAVITHRA.S	Pavithra
19	912516103019	RAJASEKARAN.M	M. Rajasekaran
20	912516103020	RAMANATHA SETHUPATHY.S	Ramanatha Sethupathy.
21	912516103021	RAMU.R	Ramu.S
22	912516103022	RENGASAMY.G	G. Rengasamy.
23	912516103023	SARAVANAN.M	Saravanan.
24	912516103024	SASIKUMAR.R	Sasikumar
25	912516103025	SELVAKUMARAN.G	selvakumaran.
26	912516103026	SHANGAR.S	Shangar.
27	912516103027	SUNDAR.S	S. Sundar.
28	912516103301	ABDUL RIYAS.A	Riyas
29	912516103302	ARAVINTH.A	Aravinth.A
30	912516103304	BALASUBRAMANI.T	T. Balasubramani
31	912516103306	DHANASEELAN.D	Dhanaseelan.D
32	912516103307	GOKUL KANNAN.K	Gokulkannan
33	912516103308	ILAVASRASAN.R	R. Ilavasran.R
34	912516103310	KARPAGASUNDARAM.M	M. Karpagasundaram
35	912516103310	KULOTHUNGAN.E	E. kulothungan
36	912516103311	LOGESWARAN.P	P. Logeswaran
37	912516103312	MADHAVAN.U	Madhavan.
38	912516103313	MAREESHWARAN.C	C. Mareeshwaran.
39	912516103314	MOHAMED RAFIQ RAJA.M	Rafiq
40	912516103315	NAVINKUMAR.N	N. Navinkumar
41	912516103316	PRAVIN KUMAR.K	Pravin.Kumar
42	912516103318	RAJA PRAVEEN.R	Raja praveen
43	912516103319	RAMANATHAN.S	S. Ramanathan
44	912516103320	RESHMA BANU.S	S. Reshma Banu.
45	912516103324	SIVARAMAKRISHNAN.P	Sivaramakrishnan. P
46	912516103325	VASANTH.P	Vasanth
47	912516103501	MANIKANDAN.C	C. Manikandan

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

ATTENDANCE SHEET

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENGT OF CIVIL ENGINEERING

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

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Aug-21																				Sep-21									
			2	2	3	3	9	9	10	10	16	16	17	17	23	23	24	24	30	30	31	31	6	6	7	7	9	9	10	10	11	11
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1	912516103001	AJAY.K	a	a																												
2	912516103002	AJITHKUMAR.C			a	a																										
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13	912516103013	MADHAN KUMAR.A																			a	a										
14	912516103014	MARISWARAN.P									a	a																				
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23	912516103023	SARAVANAN.M																			a	a										
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25	912516103025	SELVAKUMARAN.G	a	a									a	a																		
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Principal
Sri Raaja Raajan College of Engg. & Tech.
Sivagangai-630 561

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

COURSE OUTCOMES

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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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	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

AUTOCADD QUESTION PAPER SET

1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

A. X
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
B. To make the array non associative you need to use explode command on it
C. The array can be edited again by selecting it
D. The array can't be modified in any way once it is made associative

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

6. An open area can be filled with which of the following gradient:

E. Gap
F. Tolerance
G. Transparency
H. Open

7. Is there any difference between Command Plot and Print?

A. plot command prints only big plans
B. The plot command for CNC (CAM)
C. No difference
D. print command can print up to A3 size paper

8. The shortcut to start a table is,

E. T
F. TA
G. TBL
H. TABLE

9. What is the shortcut for zoom command?

A. Z Command
B. Rotate mouse wheel
C. ZOOM Command
D. All of the above

10. To select a set of objects in the workspace, what should be done?

E. By a crossing window drawn from right to left
F. By a crossing window drawn left to right
G. Shift + clicking on the objects
H. None of the above

11. A line shows its dimension as 14.52. What is the precision of this line?

A. [0.0]
B. [0.00]
C. [0.000]
D. Display of length has nothing to do with precision

12. Model Tab and Layout Tab can be majorly distinguished as,

E. 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 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

13. Shortcut key for Multileader in AutoCAD 2022,

A. ML
B. MLN
C. MLEADER
D. MULTI

14. To bring a particular area of the workspace in focus, what command should be used?

E. Zoom Extents
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15. What are the various options from left to right and the opposite direction?

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J. Select objects according to their colour
K. Select objects according to their position
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16. Shortcut for Trim command is,

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

A. 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 origin?

A. 30<15
B. 15<30
C. @30<15
D. @15<30

SRI RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

PRINCIPAL
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SUNDAR. S
IV - CIVIL

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

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16/20

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A.TAY.16
Dharanjani. M
IV - YR

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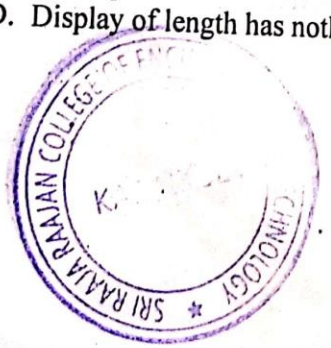

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F. You should not raise the objects already exist (scale) by 5
G. You will not need to change anything in hitherto methodology
H. Should be converted into new items that will add based on the new scale

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 origin?

A. 30<15
B. 15<30
C. @30<15
D. @15<30

A SDY · 1c
IV - Yr

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING TE CHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

AUTOCADD QUESTION PAPER SET

11/20

1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

A. X
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
B. To make the array non associative you need to use explode command on it
C. The array can be edited again by selecting it
D. The array can't be modified in any way once it is made associative

6. An open area can be filled with which of the following gradient:

E. Gap
F. Tolerance
G. Transparency
H. Open

7. Is there any difference between Command Plot and Print?

A. plot command prints only big plans
B. The plot command for CNC (CAM)
C. No difference
D. print command can print up to A3 size paper

8. The shortcut to start a table is,

E. T
F. TA
G. TBL
H. TABLE

9. What is the shortcut for zoom command?

A. Z Command
B. Rotate mouse wheel
C. ZOOM Command
D. All of the above

10. To select a set of objects in the workspace, what should be done?

E. By a crossing window drawn from right to left
F. By a crossing window drawn left to right
G. Shift + clicking on the objects
H. None of the above

11. A line shows its dimension as 14.52. What is the precision of this line?

A. [0.0]
B. [0.00]
C. [0.000]
D. Display of length has nothing to do with precision

12. Model Tab and Layout Tab can be majorly distinguished as,

E. 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 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

13. Shortcut key for Multileader in AutoCAD 2022,

A. ML
B. MLN
C. MLEADER
D. MULTI

14. To bring a particular area of the workspace in focus, what command should be used?

E. Zoom Extents
F. Zoom Window
G. Zoom Dynamic
H. Zoom All

15. What are the various options from left to right and the opposite direction?

I. Choose a different category of objects
J. Select objects according to their colour
K. Select objects according to their position
L. No difference

16. Shortcut for Trim command is,

M. T
N. TR
O. TI
P. X

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

A. 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 origin?

A. 30<15
B. 15<30
C. @30<15
D. @15<30

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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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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	912516103002	AJITHKUMAR.C	13	74	87
3	912516103003	AKASH.K	14	69	83
4	912516103004	BALAGI.P	16	74	90
5	912516103005	DEVASIVA.V	17	72	89
6	912516103006	DIVYA.T	19	71	90
7	912516103007	GOWSALYADEVI.T	20	70	90
8	912516103008	IYAPPAN.P	16	76	92
9	912516103009	JUHEE JAHAN.B	15	74	89
10	912516103010	KALEESWARAN.A	18	69	87
11	912516103011	KARTHIKEYAN.R	12	74	86
12	912516103012	KAYATHRI.S	17	72	89
13	912516103013	MADHAN KUMAR.A	18	71	89
14	912516103014	MARISWARAN.P	15	70	85
15	912516103015	NAVEEN.N	15	73	88
16	912516103016	NIRANJANI.M	18	78	96
17	912516103017	PARTHIPAN.T	13	79	92
18	912516103018	PAVITHRA.S	14	76	90
19	912516103019	RAJASEKARAN.M	16	74	90
20	912516103020	RAMANATHA SETHUPATHY.S	17	69	86
21	912516103021	RAMU.R	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	GOKUL KANNAN.K	20	71	91
33	912516103308	ILAVASRASAN.R	16	70	86
34	912516103310	KARPAGASUNDARAM.M	15	73	88
35	912516103310	KULOTHUNGAN.E	18	75	93
36	912516103311	LOGESWARAN.P	15	74	89
37	912516103312	MADHAVAN.U	16	73	89
38	912516103313	MAREESHWARAN.C	14	72	86
39	912516103314	MOHAMED RAFIQ RAJA.M	12	78	90
40	912516103315	NAVINKUMAR.N	17	79	96
41	912516103316	PRAVIN KUMAR.K	18	76	94
42	912516103318	RAJA PRAVEEN.R	16	78	94
43	912516103319	RAMANATHAN.S	15	79	94
44	912516103320	RESHMA BANU.S	14	76	90
45	912516103324	SIVARAMAKRISHNAN.P	13	74	87
46	912516103325	VASANTH.P	14	69	83
47	912516103501	MANIKANDAN.C	16	74	90

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD (2021-2022)

CERTIFICATE FRONT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY * KARAIKUDI

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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.

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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE(2017-2018)

AUTO CAD

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF CIVIL ENGINEERING

AUTO CAD (2017-2018)

SYLLABUS

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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

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CAD (2017-2018)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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Name of the Course: Auto CADD

Duration: 30 HOURS

Date :

Course Conducted by: Techno CADD

Number of students attended: 79

Start Date: 15th June 2017

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

1. 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
2. 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.
4. Create data base for manufacturing: In the process of creating the documentationfor these products, much of the required data base to manufacture the products is also created.
5. Improves 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 draftingprocess.

1. 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
5. More efficient operation in drafting
6. 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
13. Production of orthographic projections with dimensions and tolerances
14. Hatching of all sections with different filling patterns

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LIMITATIONS OF CAD

Date :

1. 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.

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CAD (2017-2018)

NAME LIST

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DEPARTMENGT OF CIVIL ENGINEERING

TECHNO CADD OFEERED AUTO CADD COURSE (JUN2017- JUL2017)

S.NO	REG NUM	NAME	SIGNATURE
1	912515103001	ABINASH.B	B. Abinash
2	912515103002	AJITH.K	Ajith.K
3	912515103003	AMEER DEEN.S	S. Ameer Deen
4	912515103004	ARASATCHI.N	Arasatchi.N
5	912515103005	ARUL PRAKASH.S	Arulprakash.
6	912515103006	DINESH KUMAR.U	U. Dineshkumar.
7	912515103007	DIVYA BARATHI.M	Divyabarathi
8	912515103008	GANAPATHY.P	Ganapathy.P
9	912515103009	GNANA SOWNDARYA.P	Gnana Sowndarya
10	912515103010	GOWTHAM.S	S. Gowtham
11	912515103011	HARI PRIYA.K	Hari priya.K
12	912515103012	JANES KUMAR.G	Janeskumar
13	912515103014	JOTHIRAJ.P	P. Jothiraj
14	912515103015	KABILAN.K	Kabilan
15	912515103016	KALIDASS	Kalidass.
16	912515103018	KAVITHA.V	Kavitha
17	912515103019	LINGANATHAN.N	Linganathan.
18	912515103020	MADHUBALAN.A	Madhubalan
19	912515103021	MADHUMITHA.M	Madhumitha.
20	912515103022	MAHENDRAN.A	A. Mahendran
21	912515103024	MANIKANDAPRABU.M	Manikandaprabu
22	912515103027	MARIMUTHU.A	A. marimuthu
23	912515103029	MOHAMAD RILWAN.N	Mohamadrilwan
24	912515103030	MOHAMED ASHIK.S	Mohamed
25	912515103031	MUTHU.M	Muthu.
26	912515103033	MUTHUMEENAL.P	Muthumeenal
27	912515103034	MUTHUPRABAHAR.V	Muthu
28	912515103035	NISANTHAN.R	Nisanthan.
29	912515103301	AJITH.G	G. Ajith
30	912515103302	ARAVIND.K	Aravind.
31	912515103303	ARTHI.T	Arthi
32	912515103305	BALASUBRAMANIYAN.C	Balasubramaniyan.
33	912515103306	BARATHIRAJA	Barathiraja
34	912515103307	BASKARAN.P	P. Baskaran.
35	912515103308	DINESHKUMAR.R	Dineshkumar
36	912515103309	GANESAN.P	Ganesan
37	912515103310	KANNAN.A	A. Kannan
38	912515103311	LAVANYA.C	Lavanya.
39	912515103312	LOORTHUMARIYAN.B	Loorthumariyan.
40	912515103036	PALANIMURUGAN.K	Palanimurugan
41	912515103037	PANDIAN	Pandian
42	912515103038	PANDI MANIKANDAN.M	Pandi Manikandan.M

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43	912515103039	PILLAPAN	Pillapan.
44	912515103040	PRADEEP.D	Pradeep.D
45	912515103041	PRADEEPA	Pradeepa.
46	912515103042	PRAKASH RAJ	Prakash Raj
47	912515103043	PRAVEEN KUMAR.V	Praveenkumar
48	912515103044	PRAVINKUMAR.A	A. Pravinkumar
49	912515103046	RANIGA.S	Raniga.
50	912515103047	RANJITHKUMAR.K	K. Ranjithkumar
51	912515103048	RAYAPRIYAN.M	M. Rayapriyan.
52	912515103050	SALMAN.M	Salman
53	912515103051	SANKAR.M	M. Sankar
54	912515103052	SARATHKUMAR.K	K. Sarathkumar
55	912515103053	SARAVANA KUMAR.K	K. Saravanakumar
56	912515103054	SARAVANAN.K	Saravanan
57	912515103056	SATHYAPRIYA.S	Sathyapriya.S
58	912515103057	SIVAKUMAR.M	M. Sivakumar
59	912515103058	SOMASUNDARAM.M	Somasundaram
60	912515103059	SRINIVASAN.S	S. Srinivasan
61	912515103060	SUNDARAMOORTHY.N	Sundaramoorthy.
62	912515103061	SUNDARI.V	V. Sundari
63	912515103062	SURENDHAR.V	Surendhar.
64	912515103063	SURYA.P	P. Surya
65	912515103064	SYED ANVAR.N	N. Syed Anvar
66	912515103065	USMAN ALI.A	Usmanali.
67	912515103066	VIGNESH.A	Vignesh.A
68	912515103067	VIJAY.P	P. Vijay
69	912515103068	VIJAYA KUMAR.K	Vijayakumar
70	912515103069	ESWARAN.K	K. Eswaran
71	912515103313	MANIKANDAN.C	Manikandan.
72	912515103901	NAGAPANDI.M	M. Nagapandi
73	912515103314	POOVARASAN.V	V. Poovarasan
74	912515103315	PRAKASH.G	Prakash.G
75	912515103316	RAJESHKANNAN.A	Rajeshkannan.A
76	912515103317	SAKTHIPRABAKARAN.S	S. Sakthiprabakaran
77	912515103701	SANTHIYA.G	G. Santhiya
78	912515103319	SEVUGAPERUMAL.R	Sevugaperumal.
79	912515103320	VENKATESHAN.R	R. Venkatesh.

SRI RAAJA RAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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Sivagangai Dist. Tamil Nadu

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DEPARTMENT OF CIVIL ENGINEERING

AUTO CAD (2017-2018)

ATTENDANCE SHEET

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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Sivaganga Dist. Tamil Nadu

Attendance

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

TECHNO CADD OFFERED AUTO CADD COURSE (JUN2017- JUL2017)

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Jun-17																								Jul-17					
			15	15	15	16	16	16	19	19	19	22	22	22	23	23	23	26	26	26	29	2	29	30	30	30	3	3	3	6	6	6
			5	6	7	2	3	4	5	6	7	5	6	7	2	3	4	5	6	7	5	6	7	2	3	4	5	6	7	2	3	4
1	912515103001	ABINASH.B	/	/	/	/	a	a	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	912515103002	AJITH.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912515103003	AMLER DELN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912515103004	ARASATCHI.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912515103005	ARUL PRAKASH.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a
6	912515103006	DINESH KUMAR.U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912515103007	DIVYA BARATHI.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912515103008	GANAPATHY.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912515103009	GNANA SOWNDARYA.P	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912515103010	GOWTHAM.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912515103011	HARI PRIYA.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912515103012	JANES KUMAR.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912515103014	JOTHIRAJ.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912515103015	KABILAN.K	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
15	912515103016	KALIDASS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912515103018	KAVITHA.V	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912515103019	LINGANATHAN.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912515103020	MADHUBALAN.A	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/
19	912515103021	MADHUMITHA.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912515103022	MAHENDRAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912515103024	MANIKANDAPRABU.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912515103027	MARIMUTHU.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
23	912515103029	MOHAMAD RILWAN.N				/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	912515103030	MOHAMED ASHIK.S	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	912515103031	MUTHU.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a
26	912515103033	MUTHUMEENAL.P	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912515103034	MUTHUPRABAHAR.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912515103035	NISANTHAN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912515103301	AJITH.G	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	912515103302	ARAVIND.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	912515103303	ARTHI.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912515103305	BALASUBRAMANIYAN.C	/	/	/				/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
33	912515103306	BARATHIRAJA	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	912515103307	BASKARAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912515103308	DINESHKUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/
36	912515103309	GANESAN.P	a	a	a	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912515103310	KANNAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912515103311	LAVANYA.C	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912515103312	LOORTHUMARIYAN.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912515103036	PALANIMURUGAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912515103037	PANDIAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912515103038	PANDI MANIKANDAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912515103039	PILLAPAN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	a	a	/	/	/
44	912515103040	PRADEEP.D	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912515103041	PRADEEPA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912515103042	PRAKASH RAJ	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912515103043	PRAVEEN KUMAR.V	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	912515103044	PRAVINKUMAR.A	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49	912515103046	RANIGA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50	912515103047	RANJITHKUMAR.K	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51	912515103048	RAYAPRIYAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52	912515103050	SALMAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53	912515103051	SANKAR.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54	912515103052	SARATHKUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55	912515103053	SARAVANA KUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56	912515103054	SARAVANAN.K	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57	912515103056	SATHYAPRIYA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58	912515103057	SIVAKUMAR.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59	912515103058	SOMASUNDARAM.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a
60	912515103059	SRINIVASAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61	912515103060	SUNDARAMOORTHY.N	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62	912515103061	SUNDARI.V	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
63	912515103062	SURENDHAR.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64	912515103063	SURYA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65	912515103064	SYED ANVAR.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	a	a	a
66	912515103065	USMAN ALI.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
67	912515103066	VIGNESH.A	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/
68	912515103067	VIJAY.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69	912515103068	VIJAYA KUMAR.K	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
70	912515103069	ESWARAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
71	912515103111	MANIKANDAN.C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72	912515103901	NAGAPANDI.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/
73	912515103314	POOVARASAN.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74	912515103315	PRAKASH.G	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
75	912515103316	RAJESHKANNAN.A	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76	912515103317	SAKTHIPRABAKARAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a
77	912515103701	SANTHIYA.G	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
78	912515103319	SEVUGAPERUMAL.R	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
79	912515103320	VENKATESHAN.R	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/

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COURSE OUTCOMES

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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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.

146 /4B1, Amaravathi Village,
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Karaikudi – 630 301.
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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	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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Sivaganga Dist. Tamil Nadu

Question paper set

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_____

1. Snap pattern.
2. 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
3. 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
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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

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

5. offset
6. fillet
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1. Tool Icons
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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
4. W

14. Minor axis and major axis must be specified in order to draw a(n) _____

1. ellipse
2. line
3. chamfer
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15. When saving your drawings in Autocad the default file type is...?

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16. What does the command Fillet do?

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

AUTO CADD – QUESTION PAPER SET

NAME: Ameerdeen S **YEAR:** III

19/20

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

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16/20

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DEPARTMENT OF CIVIL ENGINEERING

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13/20

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

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	912515103008	GANAPATHY.P	16	77	93
9	912515103009	GNANA SOWNDARYA.P	17	79	96
10	912515103010	GOWTHAM.S	19	74	93
11	912515103011	HARI PRIYA.K	16	72	88
12	912515103012	JANES KUMAR.G	18	71	89
13	912515103014	JOTHIRAJ.P	17	76	93
14	912515103015	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	912515103029	MOHAMAD RILWAN.N	17	72	89
24	912515103030	MOHAMED ASHIK.S	16	73	89
25	912515103031	MUTHU.M	17	71	88
26	912515103033	MUTHUMEENAL.P	15	75	90
27	912515103034	MUTHUPRABAHAR.V	16	76	92

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28	912515103035	NISANTHAN.R	18	77	95
29	912515103301	AJITH.G	19	79	98
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
57	912515103056	SATHYAPRIYA.S	17	75	92
58	912515103057	SIVAKUMAR.M	16	74	90

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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 COLLEGE OF ENGINEERING AND TECHNOLOGY
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Techno CADD
Hi-end CAD/CAM/CAE/PPM

Certificate of Participation

This is to certify that MAHENDRAN A of SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY has participated in AUTO CAD COURSE held on 15.06.2017 To 06.07.2017 , organized by Department of Civil Engineering in association with TECHNOCADD, Karaikudi.

TECHNOCADD
MANAGING DIRECTOR

HOD / CIVIL

PRINCIPAL

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Techno CADD
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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE(2018-2019)

STADD PRO

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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

SRI RAAJA RAAJAN
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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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO(2018-2019)

SYLLABUS

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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

MEE CADD

Made For Engineering Excellence

PROPOSAL LETTER

CELL NO : 8825545628

AN ISO 9001:2015 CERTIFIED COMPANY

STAAD.Pro
(40Hrs)

No. of Days	Topic
Day 1	Overview of Structural Analysis andDesign • Introduction STAAD.ProV8i • Staad Pro Workspace • Staad Pro Interface A. Menu bar B. Toolbar C. Mode Bar D. Page Control E. Datasheet
Day 2	• Co-ordinateSystems o Global Co-ordinate o Local Co-ordinate • Units o Input Unit o Graphical Display Unit • Dimensions
Day 3	• Labels o Node Labels o Beam Labels o Supports Labels • Tools o Rotation Tools o Zoom Tools o View Tools
Day 4	Geometry creation Methods o Snap /Grid Method o A. Linear Grid o B. Radial Grid o Copy Cut Method
Day 5	Geometry creation Methods o Run Structure Wizard o Co-ordinate Method DXF Method/ Import CAD Models
Day 6	• InsertNode o For a SingleMember o For MultipleMembers AddBeam Point toPoint BetweenMidpoints
	o PerpendicularIntersection o CurvedMember
Day 7	• Model EditingTools o TranslationalRepeat o CircularRepeat
Day 8	• Model EditingTools o Move o Mirror o Rotate o Copy
Day 9	• Model Editing Tools o Connect BeamsAlong o Stretch SelectedMembers o Intersect SelectedMembers o Create Collinear Bea
Day 10	• Model EditingTools o Merge SelectedMembers o Renumber o SplitBeam Break Beams at SelectedNodes
Day 11	• Section Properties o Circular o Tee o Trapezoidal o Tapered • Section Database • Assignment Method • User table Beta Angle
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 o Fixed Support o Pinned Support o Enforced

SRI RAMAJAYAM COLLEGE OF ENGINEERING AND TECHNOLOGY ★ KARAIKUDI

STAAD.PRO 40HRS

CELL NO : 8825545628

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PROPOSAL LETTER

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STAAD.Pro
(40Hrs)

	○ Enforced But • Assignment Methods Member Offset
Day 14	Loading • NodalLoad • Nodal Moment • MemberLoad ○ Uniform Force andMoment ○ Concentrated Force andMoment ○ Linear VaryingLoad ○ TrapezoidalLoad ○ HydrostaticLoad • AreaLoad FloorLoad
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
Day 16	• Introduction to Floor load & Live load as per IS 875-I & II • Creation of Primary Load Cases ○ Primary Dead Load case ○ Primary Live Load case • Load Combinations ○ Manual Combination Method ○ Auto Load Combination Method • Analysis & Print Command • Post Processing ○ Result setup ○ Node reaction & displacement ○ Beam Forces ○ Beam Graphs
Day 17	Understanding Staad Editor • Job Information • Input width • Join Coordinates • Member Incidences • Finish • Writing notes/ information in editor Geometry Verification • Tools Menu ○ Orphan Nodes ○ Duplicates Nodes/ Members ○ Overlapping Collinear Members • Unit Convertor • Calculator Member Specifications • Member Release • Member Offset
Day 18	Introduction to RCC Design As per IS 456 • Defining Various RCC Design Parameters • Beam Design • Column Design • RCC Detailing Methods
Day 19	WindLoad Design As per IS 875 III • Introduction to wind design • Design factors and Coefficient
Day 20	Calculation of Wind load as per IS 875 Part 3 • Create Wind definition • Primary Load Case for Wind load • Load combinations
Day 21	Seismic Analysis & Design as per IS-1893 • Introduction • Terminologies ○ Standards for EarthquakeDesign ○ General Principals for EarthquakeDesign
Day 22	Seismic Analysis & Design as per IS-1893 • Static Analysis Method • Seismic Definition ,Seismic

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STAAD.Pro

(40Hrs)

	Parameters • Elementary Introduction – A. IS Code 1893(2002/2005) B. IS Code 13920
Day 23	STEEL Design inSTAAD Pro As Per IS-800 • 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 25	FEM Modelling inSTAAD.Pro • FEM Modelling introduction o SnapPlate o AddPlate o Create InfillPlates o Create surfaces o Generate SurfaceMeshing o Generate PlateMesh • Adding PlateThickness • PlateLoad o Pressure on FullPlate o ConcentratedLoad o Partial Plate PressureLoad o TrapezoidalLoad o HydrostaticLoad
Day 26	Water Tank Design • Creating a RCC underground rectangular tank using plates 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

	• Analysis of a RCC deck slab for moving load Viewing Influence line Diagram
Day 29-30	Foundation Design • Introduction to structural foundation • Importing files from Staad Pro to Staad Foundation I. Isolated Footing design o Basic of Isolated Footing o Creating a Isolated Footing job o Specification of design parameters o Design result II. Combined Footing Design o Basic of combined Footing o Creating a Combined Footing job o Specification of design parameters o Design result
Day 31-40	FINAL PROJECT

KARAIKUDI

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO(2018-2019)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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Mobile : 73737 11343, 73737 11333
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Website: www.sriraajaraajan.in

Name of the Course: STADD. Pro

Duration: 40 HOURS

Course Conducted by: MEE CADD

Number of students attended: 47

Start Date: 3rd Oct 2018

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.

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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

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY

DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED STADDPRO COURSE (3rd Oct 2018- 30th Oct 2018)

S.NO	REG NUM	NAME	SIGNATURE
1	912516103001	AJAY.K	Ajay.
2	912516103002	AJITHKUMAR.C	Ajithkumar.
3	912516103003	AKASH.K	Akash
4	912516103004	BALAGI.P	Balagi
5	912516103005	DEVASIVA.V	Devasiva
6	912516103006	DIVYA.T	T. Divya.
7	912516103007	GOWSALYADEVI.T	T. Gowsalyadevi.
8	912516103008	IYAPPAN.P	P. Iyappan.
9	912516103009	JUHEE JAHAN.B	Juhee Jahan
10	912516103010	KALEESWARAN.A	A. Kaleeswaran.
11	912516103011	KARTHIKEYAN.R	R. Karthikeyan.
12	912516103012	KAYATHRI.S	S. Kayathri
13	912516103013	MADHAN KUMAR.A	A Madhankumar
14	912516103014	MARISWARAN.P	Mariswaran. P
15	912516103015	NAVEEN.N	N. Naveen.
16	912516103016	NIRANJANI.M	M. Niranjani
17	912516103017	PARTHIPAN.T	T. Parthipan
18	912516103018	PAVITHRA.S	S. Pavithra.
19	912516103019	RAJASEKARAN.M	M. Rajasekaran.
20	912516103020	RAMANATHA SETHUPATHY.S	Ramanatha Sethupathy S.
21	912516103021	RAMU.R	R. Ramu.
22	912516103022	RENGASAMY.G	G. Rengasamy
23	912516103023	SARAVANAN.M	Saravanan
24	912516103024	SASIKUMAR.R	Sasikumar
25	912516103025	SELVAKUMARAN.G	Selvakumaran
26	912516103026	SHANGAR.S	Shangar.
27	912516103027	SUNDAR.S	S. Sundar.
28	912516103301	ABDUL RIYAS.A	Riyas
29	912516103302	ARAVINTH.A	Aravinth. A
30	912516103304	BALASUBRAMANI.T	Balasubramani
31	912516103306	DHANASEELAN.D	Dhanaseelan. D
32	912516103307	GOKUL KANNAN.K	Gokulkannan
33	912516103308	ILAVASRASAN.R	Ilavarasan.
34	912516103310	KARPAGASUNDARAM.M	Karpagasundaram
35	912516103310	KULOTHUNGAN.E	Kulothungan
36	912516103311	LOGESWARAN.P	Logeswaran.
37	912516103312	MADHAVAN.U	Madhavan.
38	912516103313	MAREESHWARAN.C	Mareeswaran
39	912516103314	MOHAMED RAFIQ RAJA.M	Mohamed Rafiq.
40	912516103315	NAVINKUMAR.N	Navinkumar
41	912516103316	PRAVIN KUMAR.K	Pravinkumar k
42	912516103318	RAJA PRAVEEN.R	Raja
43	912516103319	RAMANATHAN.S	Ramanathan
44	912516103320	RESHMA BANU.S	Banu
45	912516103324	SIVARAMAKRISHNAN.P	Sivaramakrishnan.
46	912516103325	VASANTH.P	Vasanth.
47	912516103501	MANIKANDAN.C	Manikandan

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO(2018-2019)

ATTENDANCE SHEET

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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attendance sheet

3

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNLOGY

DEPARTMENGT OF CIVIL ENGINEERING

MEE CADD OFFERED STADDPRO COURSE (3rd Oct 2018- 30th Oct 2018)

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Oct-18																																					
			3	3	3	3	5	5	5	5	6	6	6	6	10	10	10	10	12	12	12	12	17	17	17	17	22	22	22	22	24	24	H6:	24	26	26	26	26	30	30	30	30
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	912516103001	AJAY.K	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	912516103002	AJITHKUMAR.C	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/
3	912516103003	AKASH.K	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a
4	912516103004	BALAGI.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912516103005	DEVASIVA.V	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912516103006	DIVYA.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912516103007	GOWSALYADEVI.T	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	912516103008	IYAPPAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
9	912516103009	JUHEE JAHAN.B	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912516103010	KALEESWARAN.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912516103011	KARTHIKEYAN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912516103012	KAYATHRI.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	912516103013	MADHAN KUMAR.A	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912516103014	MARISWARAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/
15	912516103015	NAVEEN.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912516103016	NIRANJANI.M	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912516103017	PARTHIPAN.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	912516103018	PAVITHRA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	912516103019	RAJASEKARAN.M	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912516103020	RAMANATHA SETHUPATHY.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912516103021	RAMU.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	912516103022	RENGASAMY.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912516103023	SARAVANAN.M	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	912516103024	SASIKUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	[illegible]	a	a	a	a	/	/	/	/	/	/	/	/
25	912516103025	SELVAKUMARAN.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	912516103026	SHANGAR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	912516103027	SUNDAR.S	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	912516103301	ABDUL RIYAS.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29	912516103302	ARAVINTH.A	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30	912516103304	BALASUBRAMANI.T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31	912516103306	DHANASEELAN.D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32	912516103307	GOKUL KANNAN.K	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912516103308	ILAVASRASAN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	912516103310	KARPAGASUNDARAM.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912516103310	KULOTHUNGAN.E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	912516103311	LOGESWARAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912516103312	MADHAVAN.U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912516103313	MAREESHWARAN.C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912516103314	MOHAMED RAFIQ RAJA.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912516103315	NAVINKUMAR.N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912516103316	PRAVIN KUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
42	912516103318	RAJA PRAVEEN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912516103319	RAMANATHAN.S	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912516103320	RESHMA BANU.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912516103324	SIVARAMAKRISHNAN.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912516103325	VASANTH.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a
47	912516103501	MANIKANDAN.C	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY ★ KARAIKUDI

PRINCIPAL

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

SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University)

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

DEPARTMENT OF CIVIL ENGINEERING

STADD PRO(2018-2019)

COURSE OUTCOMES

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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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	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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Question paper

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DEPARTMENT OF CIVIL ENGINEERING
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KARAIKUDI

PRINCIPAL

Ans - 3rd

BALAMURUGAN. VR

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DEPARTMENT OF CIVIL ENGINEERING
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19/20

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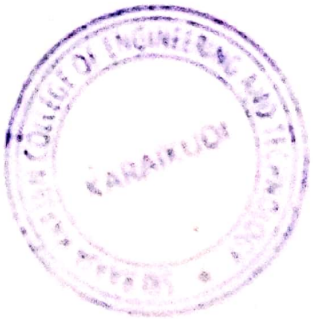

Vijay. R

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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.

15) The Project Manager selects the Update unit when cost change on resource assignment ¡± opt i on o Calculations tab in Project Details. The Budgeted Cost is $2,000 and the Budgeted Units is 80 for the resource on an activity. If the User assigns the activity an Actual Cost of $1,000, what is the Actual Units for the resource?

A. 20 B. 40 C. 60 D. 80

16) What is a constraint in primavera)

a) Project Must Finish by b)Mandatory Start / Mandatory Finish c)Start / Finish On or After

d) Start / Finish On or Before e)Start / Finish On f) Expected Finish

17) What is PERT analysis based on?

A. Optimistic time B. Pessimistic time C. Most likely time D. All of the above

18) What is the particular task performance in CPM known as?

A. Dummy B. Event C. Activity D. Contract

19) What is the completion of a CPM network diagram activity commonly known as?

A. Connector B. Event C. Node D. All of the above

20) Activities A, B, and C are the immediate predecessors for Y activity. If the earliest finishing time for the three activities are 12, 15, and 10, then what will be the earliest starting time for Y?

A. 10 B. 15 C. 12 D. Cannot be determined

KARAIKUDI

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DEPARTMENT OF CIVIL ENGINEERING

COURSES ON Primavera P6

PRACTICAL EXAMINATION: **80 MARKS**

1. Create a new layout called Activity Entry .
2. 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:
5. 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.

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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	8/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	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

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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	Abiraj.s	15	75	90
2	912517103004	Arhindh.K	17	74	91
3	912517103007	Balamuraugan vr	19	76	95
4	912517103008	Brindha	16	77	93
5	912517103010	Dhanabalan.T	18	78	96
6	912517103011	Gnanasekaran	19	79	98
7	912517103012	Gobalakrishnan	20	72	92
8	912517103013	Gokhul	17	71	88
9	912517103014	Gopinath	18	73	91
10	912517103015	Hameedriswan	19	74	93
11	912517103016	Jayalakshmi.R	17	75	92
12	912517103017	Karthickraja	15	74	89
13	912517103018	Krishnaveni	17	78	95
14	912517103019	Lalithadevi.A	14	79	93
15	912517103020	Maheshboopathi	16	74	90
16	912517103021	Mathikumar.S	18	76	94
17	912517103022	Muthuperumal	19	72	91
18	912517103023	Naveenkumar.m	20	71	91
19	912517103024	Naveenkumar.M	17	75	92
20	912517103025	Naveenkumar.s	18	74	92
21	912517103025	Pradeepraj	19	76	95
22	912517103027	Prakash	19	77	96
23	912517102028	Prasannaraaj	15	78	93
24	912517103029	Praveen.V	17	79	96
25	912517103030	Ragupathi	14	72	86
26	912517103031	Rajachandran	16	71	87
27	912517103032	Rajesh	18	73	91
28	912517103033	Ramya	19	74	93
29	912517103034	Santhiyagubritto.S	20	75	95
30	912517103035	Sevugarajan.S	15	75	90
31	912517103036	Siva	17	74	91
32	912517103038	Sowmiya.J	14	76	90
33	912517103039	Sriram	16	77	93
34	912517103040	Sundaramoorthy.T	18	78	96
35	912517103041	Thirumurugan	19	79	98
36	912517103044	Usha Nanthini	20	72	92
37	912517103045	Vasantha Ragavi.V	17	71	88
38	912517103046	Veeramanikandan	18	73	91
39	912517103048	Vijayalakshmi	19	74	93
40	912517103049	Vimalraj	20	75	95
41	912517103301	Aravinth.V	15	74	89
42	912517103302	Iyappan	17	78	95
43	912517103303	Kuppusamy raj	14	79	93
44	912517103305	Sarmila	16	74	90
45	912517103306	Sundhar	18	76	94
46	912517103307	Umarbasha	19	72	91
47	912517103308	Vellalkalai	20	71	91
48	912517103309	Vignesh	17	75	92
49	912517103310	Vijay.R	13	74	87
50	912517103501	Rajalakshmi	19	76	95
51	912517103502	Sarkuna	19	77	96

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DEPARTMENT OF CIVIL ENGINEERING

STADD PRO(2018-2019)

CERTIFICATES

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MEE CADD

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CAD/CAM/CAE Training Institute

PARI NAGAR KOTTAIYUR – 630 001

AN ISO 9001:2015 CERTIFIED COMPANY

Certificate Number : QC17XBH1413

CERTIFICATE

Awarded To

Mr/Ms. KAYATHRI.S .....

in

Diploma CAD in STADD.Prov8i

By

MEE CADD

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

S. SURESH
Head (Training)

S. SURESH
INSTRUCTOR
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MEE CADD

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AN ISO 9001:2015 CERTIFIED COMPANY

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CERTIFICATE

Awarded To

Mr/Ms.....BALAJI.P.....

in

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By

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Certificate Number : QC17X0011413

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Awarded To

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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE (2020-2021)

ESTIMATION,COSTING AND VALUATION

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

SYLLABUS

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Date :

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 IRD / MORTH Standard bidding documents – Construction contracts – Contract problems – Arbitration and legal requirements.

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UNIT V VALUATION

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

Date:

Duration: 45 hrs

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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

REPORT

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

PRINCIPAL
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Name of the Course: ESTIMATION,COSTING AND VALUATION **Duration:** 45 HOURS

Date :

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 variousquantities 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 importantpoints. Detailed specifications about workmanship& properties of materialsetc. Standard schedule of rates of the currentyear.

UNITS OF MEASUREMENTS

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.

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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

NAME LIST

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DEPARTMENGT OF CIVIL ENGINEERING

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

S.NO	REG NUM	NAME	SIGNATURE
1	912518103001	ABIKUMAR	Abikumar
2	912518103002	ABINAYA	Abinaya
3	912518103003	ARUNDEENBASTIN.A	Arundeenbastin
4	912518103004	BALASUBRAMANIAN.V	V. Balasubramanian
5	912518103005	BRINITHA.S	Brinitha.
6	912518103006	GANESH.M	M. Ganesh
7	912518103007	KAVIYA.M	Kaviya.
8	912518103008	MOHAMMED USMAN.N	N. Mohammed Usman
9	912518103009	MUGESHKANNAN.M	M. Mugesh Kannan.
10	912518103010	NATHIYA.P	Nathiya
11	912518103011	NAVANEETHAN.S	S. Navaneethan
12	912518103012	PRAKASH.A	Prakash
13	912518103015	SANTHOSHKUMAR.V	V. Santhoshkumar,
14	912518103016	SELUVATHI.S	Seluvathi
15	91251813017	SUBASHCHANDRABOSE.S	S. Subashchandrabose
16	912518103018	SURYA.S	Surya.
17	912518103019	VAITHISHKUMAR.SR	Vaithishkumar
18	912518103020	VIGNESHWARAN.K	K. Vigneshwaran
19	912518103301	DURAIRAJ.S	S. Durairaj.
20	912518103302	EESWARAN	
21	912518103303	GOWTHAMKUMAR.S	S. Gowthamkumar
22	912518103304	HARIHARAN.C	Hariharan.
23	912518103305	KAVIYARASAN.G	G. Kaviyarasan.
24	912518103307	MUTHUKRISHNAN.M	Muthukrishnan

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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

ATTENDANCE SHEET

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DEPARTMENGT OF CIVIL ENGINEERING

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

ATTENDANCE SHEET

S.NO	REG NUM	NAME	Jan-22																				Feb-22																Mar-22									
			3	3	5	5	7	7	10	10	12	12	19	19	21	21	24	24	28	28	31	31	2	2	4	4	7	7	9	9	11	11	14	14	16	16	21	4	4	11	11	18	18	25	25	30	30
1	912518103001	ABIKUMAR	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/
2	912518103002	ABINAYA	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	912518103003	ARUNDEENBASTIN.A	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	912518103004	BALASUBRAMANIAN.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	912518103005	BRINITHA.S	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	912518103006	GANESH.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	912518103007	KAVIYA.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/
8	912518103008	MOHAMMED USMAN.N	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	912518103009	MUGESHKANNAN.M	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	912518103010	NATHIYA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	912518103011	NAVANEETHAN.S	a	a	a	a	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	912518103012	PRAKASH.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	a	a
13	912518103015	SANTHOSHKUMAR.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	912518103016	SELUVATHI.S	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/
15	91251813017	SUBASHCHANDRABOSE.S	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	912518103018	SURYA.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17	912518103019	VAITHISHKUMAR.SR	/	/	a	a	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	
18	912518103020	VIGNESHWARAN.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/
19	912518103301	DURAIRAJ.S	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	912518103302	EESWARAN	a	a	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	912518103303	GOWTHAMKUMAR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/
22	912518103304	HARIHARAN.C	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	912518103305	KAVIYARASAN.G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	
24	912518103307	MUTHUKRISHNAN.M	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/

PRINCIPAL

Sri Raaja Raajan College of Engg. & Tech.

Amaravathipudur - 630 301

Sivaganga District, Tamil Nadu

SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
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146 /4B1, Amaravathi Village,
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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

COURSE OUTCOMES

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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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 AND VALUATION	THEORY	20	100
		PRACTICAL	80	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
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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
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   (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
6. **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
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   (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) Trapezoidal formula
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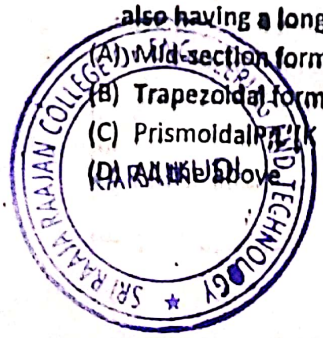

8. **While estimating a reinforced cement structure, the omitted cover of concrete is assumed**
   (A) At the end of reinforcing bar, not less than 25 mm or twice the diameter of the bar
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9. **A cement concrete road is 1000 m long, 8 m wide and 15 cm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

   (A) 500 m^3 (B) 1000 m^3(C) 1500 m^3(D) 2000 m^3

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   (B) The earthwork calculation in excavation is made from the difference in levels obtained witha level
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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 soil
   (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
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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
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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
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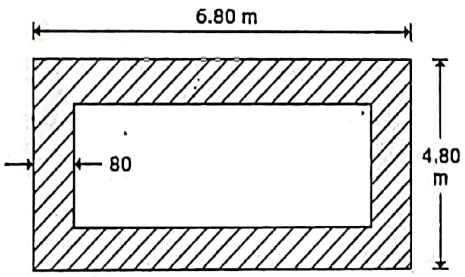

Referring of given figure, pick up the correct statement from the following:

(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
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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
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SRI RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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N. MOHAMED USMAN

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION – QUESTION SET

NAME:

YEAR: III

18/20

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SRI RAAJA RAAJAN COLLEGE OF ENGINEERING & TECHNOLOGY KARAIKUDI

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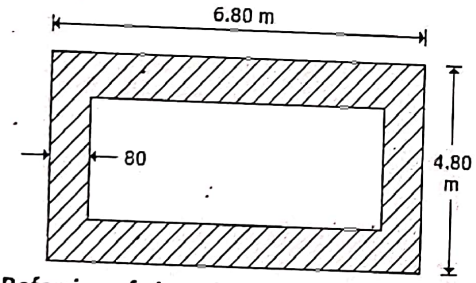

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Abinaya

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DEPARTMENT OF CIVIL ENGINEERING

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YEAR: III

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RAAJAN COLLEGE OF ENGINEERING & TECHNOLOGY KARAIKUDI

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(A) Lead is the average horizontal straight distance between the borrow pit and the place ofspreading soil

(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) All the above

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

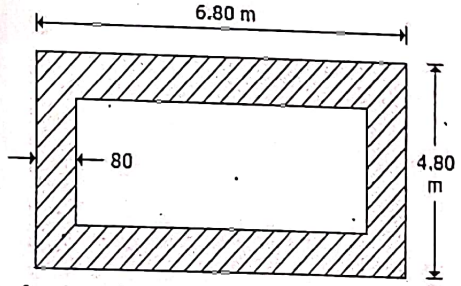
16. **Pick up the correct statement from the following:**

(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
(C) The 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 cm × 11.5 cm × 7.5 cm
(B) 25 cm × 13 cm × 7.5 cm
(C) 19 cm × 9 cm × 9 cm
(D) 20 cm × 10 cm × 10

Abikumar

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION COSTING AND VALUATION – QUESTION SET

NAME:

YEAR: III

12/20

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
6. **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) Trapezhidal formula
   (C) PrismoidalP;L'[K formula
   (D) All the above

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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 m^3 (B) 1000 m^3(C) 1500 m^3(D) 2000 m^3

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 witha level
   (C) The earth work in excavation to form the road embankment includes the formation ofcorrect 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 soil
   (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
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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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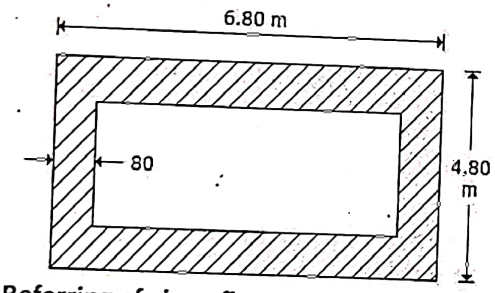

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DEPARTMENT OF CIVIL ENGINEERING

COURSES ON ESTIMATION,COSTING AND VALUATION

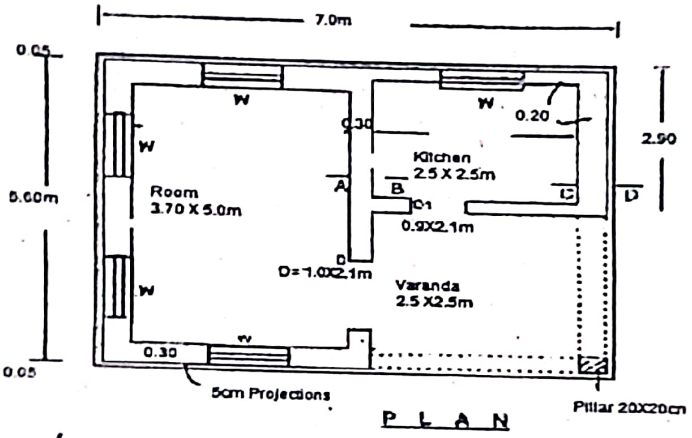
PRACTICAL EXAMINATION: **80 MARKS**

1.Estimate the following data's

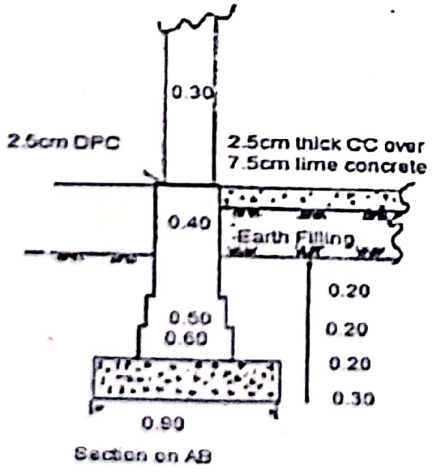
(i) Calculate the Earthwork

(ii) Plastering

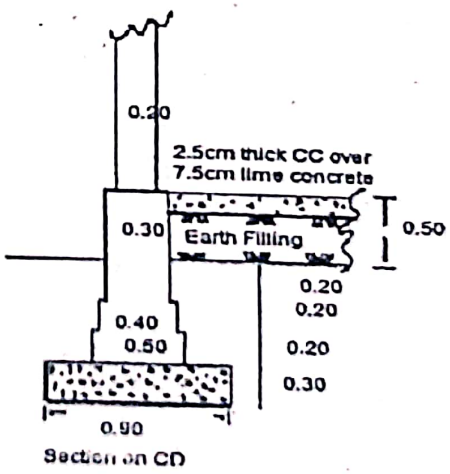
(iii) D.P.C



P L A N



Section on AB



Section on CD

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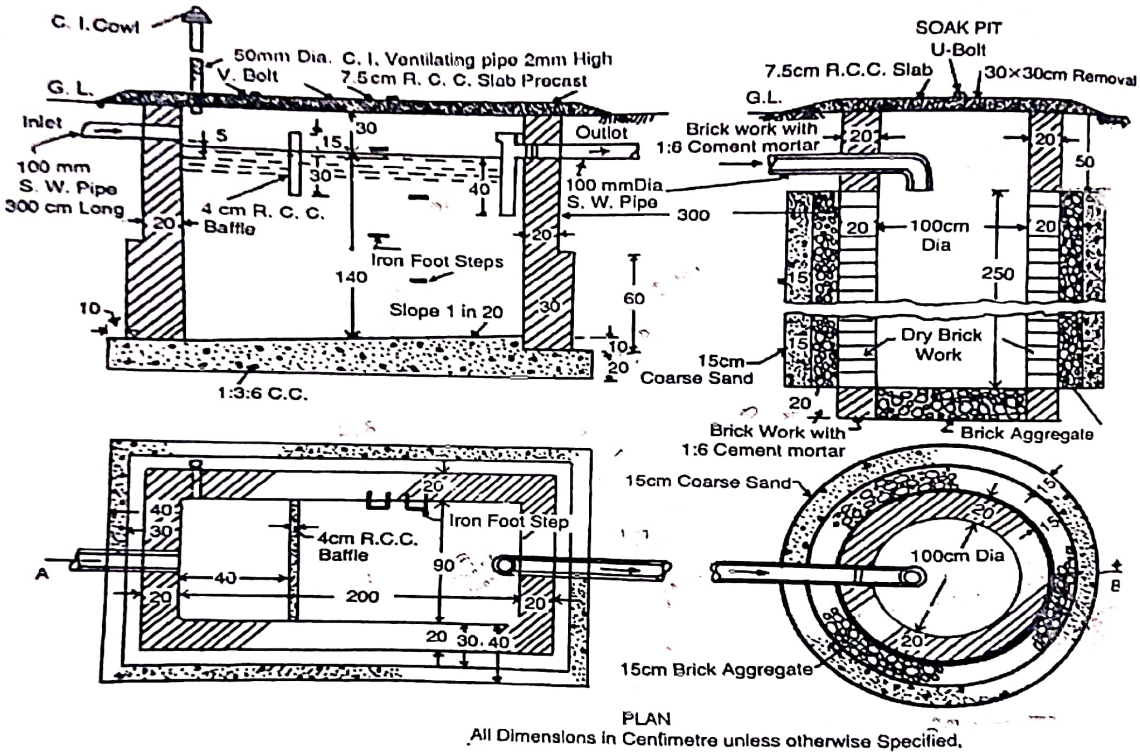
2. Prepare the estimate for the 'Septic Tank'
   (i) Earthwork in Excavation (3)
   (ii) I[st]Class Brickwork in Septictank &II[nd]Class Brick work in Soak pit
   (iii) Precast RCC work, Water proofing Compounds & Brick Aggregate



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

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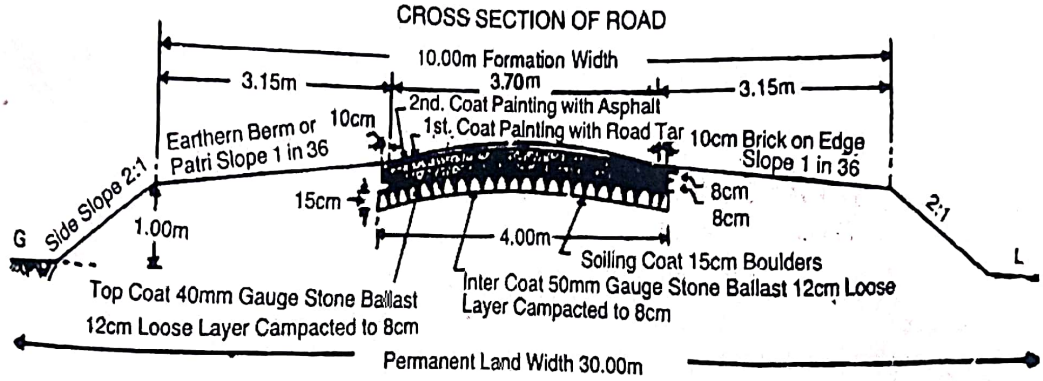


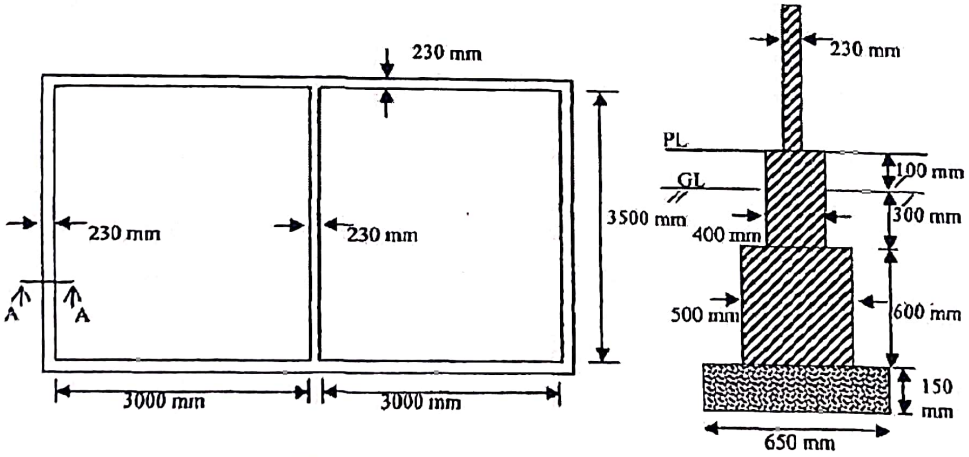
4. The Plan and sectional elevation of the building are given in Fig.9 Find the Estimate the quantities for the following items of works.

(v) Earthwork in Excavation

(vi) Plain Cement Concrete for Foundation

(vii) Ist class Brickwork for foundation

(viii) Concrete for roof slab(thickness of slab = 100 mm



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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 Rs. Ps.	Per	Lead in Km	Conveyance Charges per Km
1	40mmHBG metal	210=00	m^3	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 or 1tonne	at site	--

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DEPARTMENGT OF CIVIL ENGINEERING

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

MARK LIST

S.NO	REG NUM	NAME	THEORY (20 MARK)	PRACTICAL (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
23	912518103305	KAVIYARASAN.G	15	78	93
24	912518103307	MUTHUKRISHNAN.M	17	79	96

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DEPARTMENT OF CIVIL ENGINEERING

ESTIMATION,COSTING AND VALUATION (2020-2021)

CERTIFICATE

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PARI NAGAR KOTTAIYUR – 630 001

AN ISO 9001:2015 CERTIFIED COMPANY

Certificate Number : QC17XB011413

CERTIFICATE

Awarded To

Mr/Ms..... BRINITHA S .....

in

Diploma ESTIMATION COSTING AND VALUATION

By

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Made for Energized Engineers

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

S. SURESH
Head (Training)

S. SURESH
INSTRUCTOR
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MEE CADD

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CAD/CAM/CAE Training Institute

PARI NAGAR KOTTAIYUR – 630 001

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Certificate Number : QC17XBIII413

CERTIFICATE

Awarded To

Mr/Ms. MOHAMMED USMAN N

in

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Awarded To

Mr/Ms.....DURAI RAJ S.....

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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE (2021-2022) PRIMA VERA

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DEPARTMENT OF CIVIL ENGINEERING

PRIMA VERA (2021-2022)

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KARAIKUDI

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Syllabus

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Website: www.sriraajaraajan.in

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
16	DAY : 16	Activity Codes	2	32
17	DAY : 17	Resource Codes	2	34
18	DAY : 18	Working With Activities (Continue...)	2	36
19	DAY :19	Working With Activities	2	38
20	DAY : 20	User Defined Fields	2	40
21	DAY : 21	Cost Accounts	2	42
22	DAY : 22	Project Expenses	2	44
23	DAY : 23	Performing Top Down Estimation	2	46
24	DAY : 24	Defining Budgets	2	48
25	DAY : 25	Final Project	2	50

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DEPARTMENT OF CIVIL ENGINEERING

PRIMA VERA (2021-2022)

REPORT

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Name of the Course: PRIMA VERA

Duration: 50 HOURS

Course Conducted by: CADD DESK

Date :

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?

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.

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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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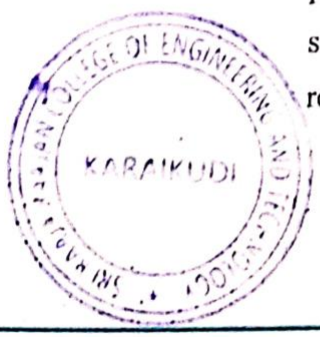
- **Reporting & analytics:** Ability to generate status reports for stakeholders
- **Calendar & activity views:** View project tasks set over a calendar view
- **Scheduling alerts:** Keep the project on track by always knowing what's due when
- Project network view: Project network diagrams allow users 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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Primavera P6 Plans and Pricing

Date :

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 pricing plans.

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 Primavera P6 Professional and Primavera P6 EPPM, Oracle Primavera Cloud focuses on project, program and portfolio management, but has a different feature set. OPC has the added benefits 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: S1,320 user/year
- Oracle Primavera task management cloud service: S660 user/year
- Oracle Primavera progress cloud service: S144 user/year
- Oracle Primavera portfolio planning cloud service: S2,640 user/year

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NAME LIST

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DEPARTMENGT OF CIVIL ENGINEERING

CADD DESK OFFERED PRIMA VERA COURSE (6th Jul 2021- 07th Sep 2021)

S.NO	REG NUM	NAME	SIGNATURE
1	912517103002	Abiraj.s	
2	912517103004	Arhindh.K	
3	912517103007	Balamuraugan vr	
4	912517103008	Brindha	
5	912517103010	Dhanabalan.T	
6	912517103011	Gnanasekaran	
7	912517103012	Gobalakrishnan	
8	912517103013	Gokhul	
9	912517103014	Gopinath	
10	912517103015	Hameedriswan	
11	912517103016	Jayalakshmi.R	
12	912517103017	Karthickraja	
13	912517103018	Krishnaveni	
14	912517103019	Lalithadevi.A	
15	912517103020	Maheshboopathi	
16	912517103021	Mathikumar.S	
17	912517103022	Muthuperumal	
18	912517103023	Naveenkumar.m	
19	912517103024	Naveenkumar.M	
20	912517103025	Naveenkumar.s	
21	912517103025	Pradeepraj	
22	912517103027	Prakash	
23	912517102028	Prasannaraaj	
24	912517103029	Praveen.V	
25	912517103030	Ragupathi	
26	912517103031	Rajachandran	
27	912517103032	Rajesh	
28	912517103033	Ramya	
29	912517103034	Santhiyagubritto.S	
30	912517103035	Sevugarajan.S	
31	912517103036	Siva	
32	912517103038	Sowmiya.J	
33	912517103039	Sriram	
34	912517103040	Sundaramoorthy.T	
35	912517103041	Thirumurugan	
36	912517103044	Usha Nanthini	
37	912517103045	Vasantha Ragavi.V	
38	912517103046	Veeramanikandan	
39	912517103048	Vijayalakshmi	
40	912517103049	Vimalraj	
41	912517103301	Aravinth.V	
42	912517103302	Iyappan	
43	912517103303	Kuppusamy raj	
44	912517103305	Sarmila	
45	912517103306	Sundhar	
46	912517103307	Umarbasha	
47	912517103308	Vellaikalai	
48	912517103309	Vignesh	
49	912517103310	Vijay.R	
50	912517103501	Rajalakshmi	
51	912517103502	Sarkuna	

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ATTENDANCE SHEET

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S.NO	REG NUM	NAME	Jul-21																		Aug-21																										Sep-21					
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32	912517103038	Sowmiya.J	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33	912517103039	Sriram	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34	912517103040	Sundaramoorthy.T	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35	912517103041	Thirumurugan	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	912517103044	Usha Nanthini	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	912517103045	Vasantha Ragavi.V	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38	912517103046	Veeramanikandan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39	912517103048	Vijayalakshmi	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40	912517103049	Vimalraj	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41	912517103301	Aravinth.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42	912517103302	Iyappan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43	912517103303	Kuppusamy raj	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44	912517103305	Sarmila	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45	912517103306	Sundhar	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46	912517103307	Umarbasha	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47	912517103308	Vellaikalai	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48	912517103309	Vignesh	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49	912517103310	Vijay.R	/	/	/	/	/	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50	912517103501	Rajalakshmi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51	912517103502	Sarkuna	/	/	/	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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

DEPARTMENT OF CIVIL ENGINEERING

PRIMA VERA (2021-2022)

COURSE OUTCOMES

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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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.**

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	

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
KARAIKUDI

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

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KARAIKUDI

PRINCIPAL

BALAMURUGAN. VR

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DEPARTMENT OF CIVIL ENGINEERING
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19/20

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Jayalakshmi. R

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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 B. Global Filtered Portfolio C. User Portfolio D. User Filtered Portfolio

14. You are coaching a new Primavera user that is attempting to create a project. They navigate to the EPS page. However, they do not see the sub-node where the project should be created. Identify the easiest way for the User to see sub-nodes in the EPS page.

A. Obtain security assignments at Read Only to all nodes

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.

15) The Project Manager selects the Update unit when cost change on resource assignment ¡± opt i on o Calculations tab in Project Details. The Budgeted Cost is $2,000 and the Budgeted Units is 80 for the resource on an activity. If the User assigns the activity an Actual Cost of $1,000, what is the Actual Units for the resource?

A. 20 B. 40 C. 60 D. 80

16) What is a constraint in primavera)

a) Project Must Finish by b)Mandatory Start / Mandatory Finish c)Start / Finish On or After

d) Start / Finish On or Before e)Start / Finish On f) Expected Finish

17) What is PERT analysis based on?

A. Optimistic time B. Pessimistic time C. Most likely time D. All of the above

18) What is the particular task performance in CPM known as?

A. Dummy B. Event C. Activity D. Contract

19) What is the completion of a CPM network diagram activity commonly known as?

A. Connector B. Event C. Node D. All of the above

20) Activities A, B, and C are the immediate predecessors for Y activity. If the earliest finishing time for the three activities are 12, 15, and 10, then what will be the earliest starting time for Y?

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**

1. Create a new layout called Activity Entry .
2. 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:
5. 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.

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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	8/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	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

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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	Abiraj.s	15	75	90
2	912517103004	Arhindh.K	17	74	91
3	912517103007	Balamuraugan vr	19	76	95
4	912517103008	Brindha	16	77	93
5	912517103010	Dhanabalan.T	18	78	96
6	912517103011	Gnanasekaran	19	79	98
7	912517103012	Gobalakrishnan	20	72	92
8	912517103013	Gokhul	17	71	88
9	912517103014	Gopinath	18	73	91
10	912517103015	Hameedriswan	19	74	93
11	912517103016	Jayalakshmi.R	17	75	92
12	912517103017	Karthickraja	15	74	89
13	912517103018	Krishnaveni	17	78	95
14	912517103019	Lalithadevi.A	14	79	93
15	912517103020	Maheshboopathi	16	74	90
16	912517103021	Mathikumar.S	18	76	94
17	912517103022	Muthuperumal	19	72	91
18	912517103023	Naveenkumar.m	20	71	91
19	912517103024	Naveenkumar.M	17	75	92
20	912517103025	Naveenkumar.s	18	74	92
21	912517103025	Pradeepraj	19	76	95
22	912517103027	Prakash	19	77	96
23	912517102028	Prasannaraaj	15	78	93
24	912517103029	Praveen.V	17	79	96
25	912517103030	Ragupathi	14	72	86
26	912517103031	Rajachandran	16	71	87
27	912517103032	Rajesh	18	73	91
28	912517103033	Ramya	19	74	93
29	912517103034	Santhiyagubritto.S	20	75	95
30	912517103035	Sevugarajan.S	15	75	90
31	912517103036	Siva	17	74	91
32	912517103038	Sowmiya.J	14	76	90
33	912517103039	Sriram	16	77	93
34	912517103040	Sundaramoorthy.T	18	78	96
35	912517103041	Thirumurugan	19	79	98
36	912517103044	Usha Nanthini	20	72	92
37	912517103045	Vasantha Ragavi.V	17	71	88
38	912517103046	Veeramanikandan	18	73	91
39	912517103048	Vijayalakshmi	19	74	93
40	912517103049	Vimalraj	20	75	95
41	912517103301	Aravinth.V	15	74	89
42	912517103302	Iyappan	17	78	95
43	912517103303	Kuppusamy raj	14	79	93
44	912517103305	Sarmila	16	74	90
45	912517103306	Sundhar	18	76	94
46	912517103307	Umarbasha	19	72	91
47	912517103308	Vellaikalal	20	71	91
48	912517103309	Vignesh	17	75	92
49	912517103310	Vijay.R	13	74	87
50	912517103501	Rajalakshmi	19	76	95
51	912517103502	Sarkuna	19	77	96

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DEPARTMENT OF CIVIL ENGINEERING

PRIMA VERA (2021-2022)

CERTIFICATE

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