



M.I.E.T. ENGINEERING COLLEGE


(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi
Accredited with 'A+' grade by NAAC
An ISO 9001:2015 Certified Institution
Recognized by UGC under section 2(f) & 12(B) of UGC Act, 1956
Trichy – Pudukkottai Road, Tiruchirappalli – 620 007. Phone:0431-2660 303
Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



1.2.2 Number of Add on/certificate programs offered during 2023-2024

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Date: 24.07.2023

To
The Principal
M.I.E.T. Engineering College,
Trichy - 620007

Respected Sir,


Sub: Permission to conduct the Value-Added Course - Reg.

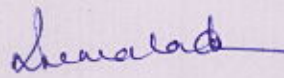
We have planned to conduct the Value-Added Course for our final year students of Civil Engineering Department from 25.07.2023 to 17.10.2023.

Title of the Value-Added Course	Resource person
Structural Engineering with STAAD Pro: Designing Beams, Frames, and Buildings	Dr.P.V.Premalatha Professor and Head, Civil Engineering Department M.I.E.T. Engineering College


So kindly give us permission to conduct the course.

Thanking you


Course coordinator


HoD/Civil


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CIRCULAR

Date: 25.07.2023


Sub: Certificate Program

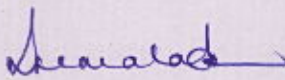
It is planned to conduct the certificate program for final year Civil Engineering students.

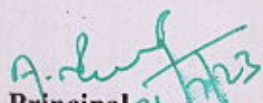
The certificate programs are short term certificate courses which are designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students; the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the certificate program	Course Coordinators
Structural Engineering with STAAD Pro: Designing Beams, Frames, and Buildings	Dr.P.V.Premalatha Professor and Head, Civil Engineering Department M.I.E.T. Engineering College
Commencement of course from 25.07.2023 to 17.10.2023 ,Time: 09.15 a.m to 12.55 p.m	


Course Coordinator


HoD/Civil

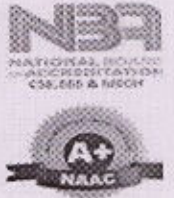

Principal 26/7/23


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DEPARTMENT OF CIVIL ENGINEERING

SHORT TERM COURSE ON STAAD Pro.

SYLLABUS

Name of the Course: STAAD PRO SOFTWARE

Course Code: CE23241

Course Coordinator: Mrs S.Nathina Thamrarai Selvi M.E, AP/CIVIL

Total hours: 30

Academic Year: 2023-2024

Preamble: To make the students to design various components of reinforced concrete structure using STAAD pro

Pre-requisites: Design of RC Structure

Course Outcomes:

At the end of the Course, the Student will be able to:

CO 1 Understand the structural geometry and coordinate system.

CO 2 Analyse beams and frames using STAAD Pro.

CO 3 analysis and design a building using STAAD Pro.

CO 4 Develop a design report.

MODULE 1: INTRODUCTION TO STAAD PRO: (6)

General Types of Structure Unit System - Structure Geometry and Coordinate systems

Relationship between Global & Local Coordinates.

MODULE 2: ANALYSIS OF BEAMS: (6)

Geometry Construction of beams, Assigning properties, constants- Loadings – post processing.

MODULE 3: ANALYSIS OF FRAMES (6)

Geometry Construction of frames, frames with sway and without sway, – post processing – design of beams and columns.

MODULE 4: MODELLING OF A BUILDING (6)

Concepts of load transfer – applying slab load – modelling of a building using advanced commands – applying Loads and load combinations- Analysing the model- Concrete Design – post processing.


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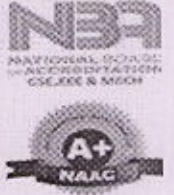
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MODULE 5: POST PROCESSING :

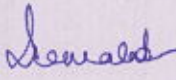
(6)


Checking Results- Report Generation Printing Reports- methods to check Results- Shear Force
Bending Moment Check

TEXT BOOK:


1. Staad Pro V8i for Beginners Paperback - August 22, 2014 by TS Sarma.
2. Structural Analysis and Design using STAAD.Pro V8i by Sivakumar Naganathan


Course Coordinator


Hod/Civil


IQAC Coordinator


Principal


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DEPARTMENT OF CIVIL ENGINEERING

Value Added course

Student Willing list

Name of the Course: STAAD PRO SOFTWARE

Course Code: CE23241

Course Coordinator: Mrs S.Nathina Thamrarai Selvi ,M.E, AP/CIVIL

Academic Year: 2023 - 2024

S.No.	Roll No.	Name of the Candidate	Signature
1	E1201001	ARAVIND S	Aravind S
2	E1211002	ATCHAYA T	Atchaya T
3	E1211003	FAISAL AHAMED A	Faisal Ahamed A
4	E1211004	GUNABALAN S	Gunabalan S
5	E1211006	JATHAULLAH A	Jathallah A
6	E1211007	MOHAMED IBRAHIM M	Mohamed Ibrahim M
7	E1211008	MOHAMED MUKFIL SHINAN	Mohamed Mukfil Shinan
8	E1211009	MOHAMED RAAFI R	Mohamed Raafi R
9	E1211011	MOHAMMAD ASLAM A	Mohammad Aslam A
10	E1211012	NISHANTHINI N	Nishanthini N
11	E1211013	NITHISH M	Nithish M
12	E1211014	RISHIKESH T	Rishikesh T
13	E1211015	SABARINATHAN L	Sabar Nathan L
14	E1211016	SHEIK MOHAMED A	Sheik Mohamed A
15	E1211017	SURESH KUMAR P	Suresh Kumar P
16	E1211018	THAMARAI SELVAN S	Thamarai Selvan S
17	E1211019	VIJAYAKUMAR P	Vijayakumar P
18	E 2211020	ABDU AZIZ M	Abdul Aziz M
19	E 2211021	ABDUL LATHEEF S	Abdul Latheef S
20	E 2211022	ABDUL RAHMAN	Abdul Rahman
21	E 2211024	AKILAN A	Akilan A
22	E 2211025	ARUNKUMAR S	Arunkumar S
23	E 2211026	ASIF K	Asif K
24	E 2211027	AZHAGAR S	Azhagar S
25	E 2211028	BEER MOHAMED J	Beer Mohamed J

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26	E 2211029	CHIBUANTONY A	
27	E 2211030	FAIZUL AHAMED A	
28	E 2211031	GANESAN P	
29	E 2211032	GURUPRASATH V	
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50	E 2211055	VELUMANI O	

Course Coordinator

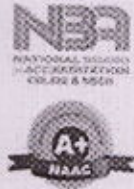
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DEPARTMENT OF CIVIL ENGINEERING

Name of the Course: STAAD PRO SOFTWARE

Course Code: CE23241

Course Coordinator: Mrs S.Nathina Thamrarai Selvi M.E, AP/CIVIL

Total hours: 44 hrs

Academic Year: 2023-2024

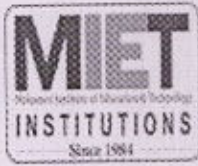
COURSE PLAN

S.No	Topics to be Covered	Planned Hours	Planned Date
1.	INTRODUCTION TO STAAD PRO	8	25/07/2023
2.	General Types of Structure Unit System		25/07/2023
3.	Structure Geometry		01/08/2023
4.	Relationship between Global & Local Coordinates.		01/08/2023
5.	ANALYSIS OF BEAMS	9	22/08/2023
6.	Geometry Construction		22/08/2023
7.	Assigning various properties		29/08/2023
8.	Constants		29/08/2023
9.	Grouping	29/08/2023	
10.	ANALYSIS OF FRAMES	9	05/09/2023
11.	Geometry Construction of frames		05/09/2023
12.	frames with sway		05/09/2023
13.	frames without sway		12/09/2023
14.	post processing	12/09/2023	
15.	MODELLING OF A BUILDING	9	12/09/2023
16.	Concepts of load transfer		26/09/2023
17.	Applying slab load		26/09/2023
18.	Modelling of a building using advanced commands		03/10/2023
19.	Applying Loads and load combinations		03/10/2023
20.	Analysing the model		03/10/2023
21.	Concrete Design	03/10/2023	
22.	post processing	03/10/2023	
23.	POST PROCESSING	9	10/10/2023
24.	Checking Results		17/10/2023
25.	Report Generation Printing Reports- methods to check Results		17/10/2023
26.	Sher Force Bending Moment Check		17/10/2023

Course Coordinator

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Resource Person Details

Title of the program	Short Term Course on STAAD-Pro V8i
Course Code	CE23241
Duration and timing of the program	30 Hours
Name of the resource person	Dr. P.V. PREMALATHA
Photo of the resource person	
Email address	pvprenalatha@miet.edu
Contact number	9944579386
Designation	Professor and Head
Educational qualification	B.E., M.Sc(Engg.),Ph.D.
Experience	Total Experience - 18 Years.


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DEPARTMENT OF CIVIL ENGINEERING

Value Added course

Student Name list

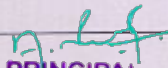
Name of the Course: STAAD PRO SOFTWARE

Course Code: CE23241

Course Coordinator: Mrs S.Nathina Thamrarai Selvi ,M.E, AP/CIVIL

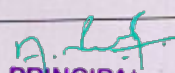
Academic Year: 2023 - 2024

S.No.	Roll No.	Name of the Candidate
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3	E1211003	FAISAL AHAMED A
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17	E1211019	VIJAYAKUMAR P


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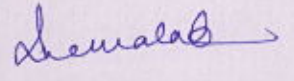
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S.No.	Roll No.	Name of the Candidate
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19	E 2211021	ABDUL LATHEEF S
20	E 2211022	ABDUL RAHMAN
21	E 2211024	AKILAN A
22	E 2211025	ARUNKUMAR S
23	E 2211026	ASIF K
24	E 2211027	AZHAGAR S
25	E 2211028	BEER MOHAMED J
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S.No.	Roll No.	Name of the Candidate
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46	E 2211050	RAJAGURU R
47	E 2211051	SAIFULLAH N
48	E 2211052	SETHU VINAYAGAM S
49	E 2211053	SHERLIN SWETHA X
50	E 2211055	VELUMANI O


Course Coordinator


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DEPARTMENT OF CIVIL ENGINEERING

Name of the Course: STAAD PRO SOFTWARE

Course Code: CE232 Course Coordinator: Mrs S.Nathina Thamararai Selvi M.E., AP/CIVIL

Total hours: 44 hrs- Academic Year: 2023-2024

S.NO.	ROLL-NO.	STUDENTS NAME	25-Jul	1-Aug	8-Aug	22-Aug	29-Aug	5-Sep	12-Sep	26-Sep	3-Oct	10-Oct	17-Oct	31-Oct
1	E1201001	ARAVIND S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
2	E1201002	ATCHAYA T	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
3	E1201003	FAISAL AHAMED A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
4	E1201004	GUNABALAN S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
5	E1201006	JATHAULLAH A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
6	E1201007	MOHAMED IBRAHIM M	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
7	E1201008	MOHAMED MUKHIL SHINAN	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
8	E1201009	MOHAMMED RAAFI R	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
9	E1201011	MUHAMMAD ASLAM A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
10	E1201012	NISHANTHINI N	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
11	E1201013	NITHISH M	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
12	E1201014	RISHIKESH T	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
13	E1201015	SABARINATHAN L	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
14	E1201016	SHEIK MOHAMED A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
15	E1201017	SURESH KUMAR P	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
16	E1201018	THAMARAI SELVAN S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
17	E1201019	VIJAYAKUMAR P	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
18	E2211020	ABDUL AZIZ M	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
19	E2211021	ABDUL LATHEEF S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
20	E2211022	ABDUL RAHMAN	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
21	E2211024	AKILAN A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
22	E2211025	ARUNKUMAR S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
23	E2211026	ASIF K	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
24	E2211027	AZHAGAR S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
25	E2211028	BEER MOHAMED J	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
26	E2211029	CHIBUANTONY A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
27	E2211030	FAIZUL AHAMED A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
28	E2211031	GANESAN P	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
29	E2211032	GURUPRASATH V	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
30	E2211033	HARISIDDHARTH K	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
31	E2211034	HARSATH AHAMED R	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
32	E2211035	JAYABHARATHI V	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
33	E2211037	KEVIN JACK J	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
34	E2211038	KUTHRATH NIYAS M	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
35	E2211039	LEO BENJAMINE JK	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
36	E2211040	MANIMARAN R	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
37	E2211041	MOHAMED FAIAD S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
38	E2211042	MOHAMED FAIZAL S	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
39	E2211043	MOHAMED JAFAR ALI A	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
40	E2211044	MOHAMED KHALID RAJA H	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj

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TRICHY - PUDUKKOTTAI MAIN ROAD, TRICHY - 620007



Course Completion Certificate

This is to certify that Mr./Ms. V. JAYABHARATHI of Final year has

completed the short term course on STAAD Pro V8i during Odd semester of Academic year 2023-2024 in

the Department of Civil Engineering at M.I.E.T. Engineering College, Trichy - 7.

Shenavath

COURSE COORDINATOR / HOD

A. Arul

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A. Arul
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Course Completion Certificate

This is to certify that Mr./Ms. A. CHIBU ANTONY of Final year has

completed the short term course on STAAD Pro V8i during Odd semester of Academic year 2023-2024 in

the Department of Civil Engineering at M.I.E.T. Engineering College, Trichy - 7.

Signature

COURSE COORDINATOR / HOD

A. def
PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007.

A. def
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DEPARTMENT OF CIVIL ENGINEERING

Report on Short term course

Name of the Course: STAAD PRO SOFTWARE

Course Code: CE23241

Course Coordinator: Mrs S.Nathina Thamrarai Selvi M.E, AP/CIVIL

Total hours: 44 hrs

Academic Year: 2023-2024

Department of Civil Engineering, M.I.E.T. Engineering College conducted short term course on STAAD-Pro V8i on odd semester at A-block CAD Lab. The course aimed to emphasize the importance of STAAD and its applications in various streams of Civil Engineering. The short term course are designed and offered by our department for the benefit of our students. Course conducted at free of cost. The certificate issued after the successful completion of the course.

Course starts with Inaugural Function, Dr.A.Naveen Sait, Principal and Dr.P.Shahul Hameed, Research Advisor offered felicitation in the inauguration function. Dr.P.V.Premalatha, Professor and Head of the Department, Civil Engineering briefed about the course plan.

Followed by the inaugural ceremony, the following topics are covered in short term course by Dr.P.V.Premalatha:

- Introduction to Staad-Pro,
- Analysis of Beams,
- Analysis of Frames
- Modelling of a Building.
- Post Processing

The course was very interesting and it received an overwhelming response from the participants. On 31.10.2023 Valedictory function held at A-Block seminar hall. Valedictory Address given by Dr.A.Naveen Sait, Principal of M.I.E.T. Engineering College and Dr.P.V.Premalatha, Professor and Head of the Department, Civil Engineering read the report on the program.

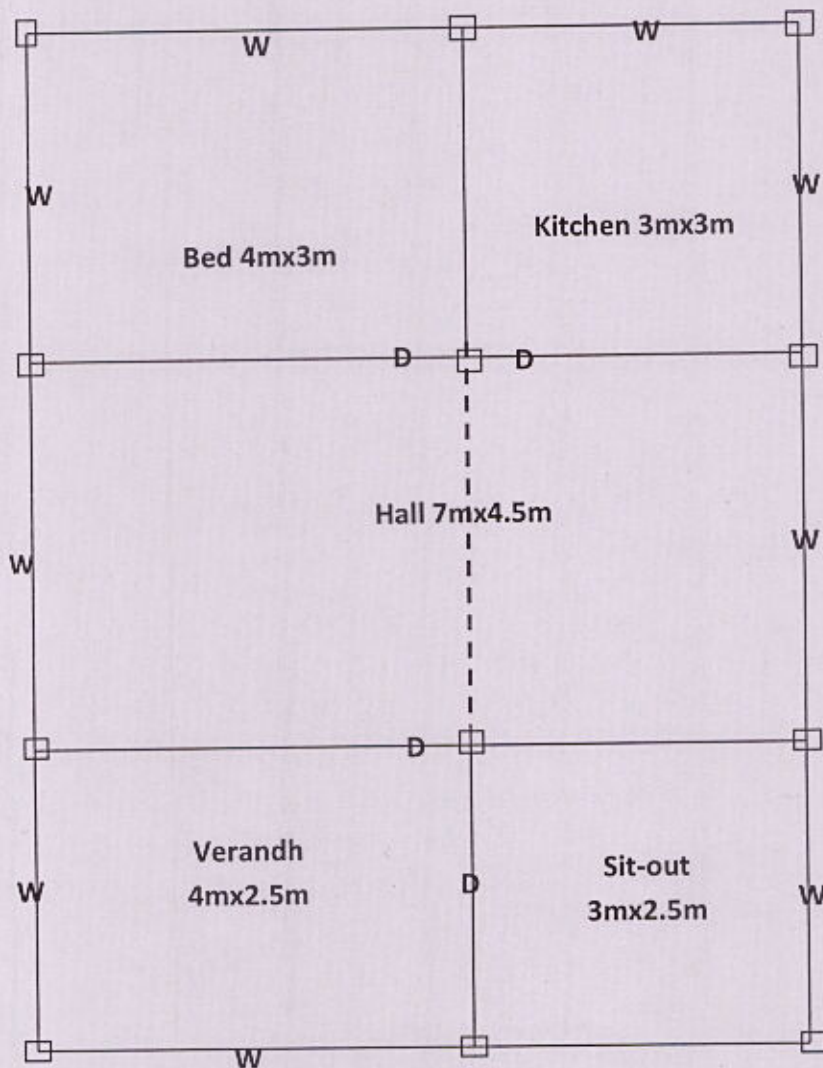

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Assessment Test for VAC on STAAD Pro	Date:31.10.2023
Duration:3 hours	Venue: CAD lab

Analyze the building using Space Frame Structure

Column size 300mmx300mm; Height of column below GL 1.5m; Beam size 300mmx450mm; Roof slab thickness 120mm; Floor slab thickness 150mm; Height of floor 3m, imposed load for Roof and Floor slab are 1.2kN/m² and 1.5KN/m²; Unit weight of concrete and bricks are 25kN/m³ and 20KN/m³; Wall thickness 200mm; Sizes of Door & Windows are W-1500mmx1500mm; D-1500mmx2100mm.



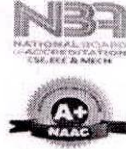
[Signature]
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Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



Date: 26.07.2023

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007

Respected Sir,

Sub: Permission to conduct the Value-Added Course - Reg.

We have planned to conduct the value-added course for our final year students of Civil Engineering from 27.07.2023 to 02.11.2023.

Name of the certificate program	Course Coordinators
Autocad for Civil Engineers - Planning and Structural Detailing	Ms.K.Kalpana/AP/Civil Mrs.L.Kiruthika/AP/Civil

So kindly give us permission to conduct the course.

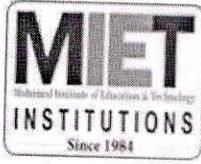
Thanking you

1. K.Kal
2. Kiruthika
Course Coordinator

Semalath
HoD/Civil

A. Kal
Principal 26/7/23

A. Kal
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CIRCULAR

Date: 26.07.2023

Sub: Value Added course.

It is planned to conduct a Value-Added course for our Final year Civil Engineering students.

The Value-Added course is short term certificate courses which are designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students; the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Value-Added course	Course Coordinators
Autocad for Civil Engineers – Planning and Structural Detailing	Ms.K.Kalpana/ AP / Civil & Mrs.L.Kiruthika / AP/ Civil
Commencement of course from 27/07/2023 to 02/11/2023 Time: 9.15 AM – 12.55 PM	

1. K. Kal
2. Kiruthika
Course coordinators

Deenabad
Hod/Civil

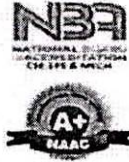
G. S. S.
Principal 26/7/23

G. S. S.
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DEPARTMENT OF CIVIL ENGINEERING

Date:26.07.2023

To

The Website Incharge,
M.I.E.T. Engineering College,
Trichy.

Through: The Principal

Sir,

Sub: Update the Value Added Course details in News and Events tab of website-
Reg.

Department of Civil Engineering organizing, Value Added Course on "Autocad For
Civil Engineers - Planning And Structural Detailing" for the students of Civil Engineering
Department from 27.07.2023 to 02.11.2023.

Venue: -CAD Lab - A Block. I request you to update these details in News and Events
tab of website.

Devala
26/7/23
HoD/Civil

A. S. S.
Principal 26/7/23

A. S. S.
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DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE (IV Year)

Syllabus

Name of the Course: AutoCAD for Civil Engineers – Planning and Structural Detailing

Course Code: CE23242

Course Coordinator: Ms.K.Kalpana/AP/Civil, Ms.L.Kiruthika/AP/Civil

Total hours: 44

Academic Year: 2023-24

Objectives

At the end of the course, student is expected to

- Impart knowledge and skill relevant to Building drawing and Detailing using AutoCAD Software
- Draft Building plan and its Elements using AutoCAD Software

Unit I – Introduction of AutoCAD Commands

8

Introduction to AutoCAD for Civil Engineers – Getting started with AutoCAD – Display and customizing –Setting and customizing – Units - Setting drawing limit - creating drawing using various CAD commands – Object snap – polar tracking - Object Manipulation –scaling – offsetting - Altering Objects – Fillet – chamfer - Properties and Hatch – Grouping objects – Dimensions and Annotate

Unit II – Drafting of building plan

10

2D drawings - complex tools and techniques - floor plans - elevation and sectional views - Office Building - Residential Building (R.C.C Roof) - Residential Building (Tiled Roofing) – Paneled doors and windows

Unit III – Detailing of Flexural Members and Staircase

10

Column and Beam Layout plan in AutoCAD – Grid lines - Detailing of Beams – singly and doubly reinforced beam – continuous beam – cantilever beam – Detailing of Slab – One way slab – two way slab – continuous slab – Cantilever slab – Curtailment – Detailing of Dog-legged Staircase

Unit IV –Detailing of Compression member and Footing

10

Detailing of Column – Circular column – Rectangular column – Detailing of Footing – Isolated footing – Sloped footing – Combined footing

Unit V –Detailing of water tank, layout and plotting

6

Detailing of water tank – circular – Rectangular – Layout and plotting – importing and exporting of files –sharing of files.

TOTAL PERIODS: 44

Outcomes

On completion of this course the participant will be able to,

- Draft the plan, elevation and sectional view of the load bearing and framed buildings
- Draw the structural detailing of RCC elements
- Draw the structural detailing of RCC water tanks, footings

References

1. National Building Code of India 2016 (NBC 2016)
2. D.N.Ghose, “Civil Engineering Drawing and Design” CBS Publishers & Distributors Pvt.Ltd., 2nd Edition, 2010.

1. K. Kalpana
2. Kiruthika
Course Coordinator

HoD/Civil

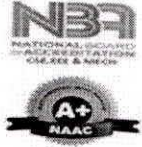
IQAC Coordinator

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DEPARTMENT OF CIVIL ENGINEERING Value Added course (IV Year)

Name of the course: AutoCAD for Civil Engineers – Planning and Structural Detailing

Course Code: CE23242

Course Coordinator: Ms.K.Kalpana/AP/Civil, Ms.L.Kiruthika/AP/Civil

Total hours: 44

Academic Year: 2023-24

COURSE PLAN

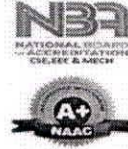
S.No	Topics To Be Covered	Planned Hours	Planned Date
1.	Introduction of AutoCAD Commands	8	27/7/2023
2.	Introduction to AutoCAD for Civil Engineers – Getting started with AutoCAD		27/7/2023
3.	Display and customizing –Setting and customizing - Units - Setting drawing limit		27/7/2023
4.	Creating drawing using various CAD commands Object snap – polar tracking		27/7/2023
5.	Object Manipulation –scaling		10/8/2023
6.	offsetting - Altering Objects		10/8/2023
7.	Fillet – chamber - Properties and Hatch		10/8/2023
8.	Grouping objects Dimensions and Annotate		10/8/2023
9.	Drafting of building plan	10	24/8/2023
10.	2D drawings - complex tools and techniques		24/8/2023
11.	Floor plans		24/8/2023
12.	Elevation and sectional views		24/8/2023
13.	Office Building		31/8/2023
14.	Residential Building (R.C.C Roof)		31/8/2023
15.	Residential Building (R.C.C Roof)		31/8/2023
16.	Residential Building (Tiled Roofing)		31/8/2023
17.	Residential Building (Tiled Roofing)		14/9/2023
18.	Paneled doors and windows		14/9/2023
19.	Detailing of Flexural Members and Staircase	10	14/9/2023
20.	Detailing of Beams – singly and doubly reinforced beam		14/9/2023
21.	Column and Beam Layout plan in AutoCAD – Grid lines		21/9/2023
22.	Detailing of Beams - cantilever beam		21/9/2023
23.	Detailing of Beams - continuous beam		21/9/2023
24.	Detailing of Slab – One way and Two way Slab		21/9/2023

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Resource Person Details

Title of the program	AutoCAD for Civil Engineers – Planning and Structural Detailing
Course Code	CE23242
Duration and timing of the program	40 Hrs, 9.15 AM to 12.45 PM
Name of the resource person	Ms.L.Kiruthika
Photo of the resource person	
Email address	Kiruthika.l@miet.edu
Contact number	8056841043
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">➤ B.E -CIVIL Engineering 2013 in JJ Engineering College (Anna University), Trichy, with 8.3 CGPA➤ M.E –Structural Engineering 2015 in M.A.M.College of Engineering and Technology, (Anna University) Trichy. With CGPA 7.8.
Experience	Teaching Experience – 5.5 Years.


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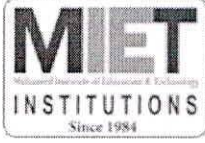
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Resource Person Details

Title of the program	AutoCAD for Civil Engineers – Planning and Structural Detailing
Course Code	CE23242
Duration and timing of the program	40Hrs, 9.15 AM to 12.45 PM
Name of the resource person	Ms.K.Kalpana/AP/Civil
Photo of the resource person	
Email address	Kalpana.k@miet.edu
Contact number	8838204897
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">➤ B.E –Civil Engineering(2016) in Anna University, Thirukuvalai Campus, Tamil Nadu.with 7.6 CGPA➤ M.E –Structural Engineering (2018) in Oxford Engineering College, Trichy affiliated to Anna University Chennai with 8.99 CGPA
Experience	Teaching Experience – 3.5 Years.


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DEPARTMENT OF CIVIL ENGINEERING

Value Added course

Student Willing list

Name of the Course: AutoCAD for Civil Engineers – Planning and Structural Detailing

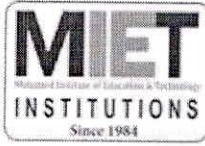
Course Code: CE23242

Course Coordinator: Ms.K.Kalpana/AP/CIVIL & Mrs.L.Kiruthika/AP/CIVIL

Academic Year: 2023 - 2024

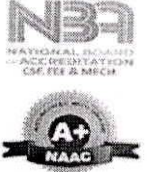
S.No.	Roll No.	Name of the Candidate	Signature
1	E1201001	ARAVIND S	S. Aravind
2	E1211002	ATCHAYA T	T. Achaya
3	E1211003	FAISAL AHAMED A	A. Faisal
4	E1211004	GUNABALAN S	S. Gunabalan
5	E1211006	JATHAULLAH A	A. Jathullah
6	E1211007	MOHAMED IBRAHIM M	M. Ibrahim
7	E1211008	MOHAMED MUKFIL SHINAN	M. Mukfil
8	E1211009	MOHAMED RAAFI R	R. Raafi
9	E1211011	MOHAMMAD ASLAM A	A. Aslam
10	E1211012	NISHANTHINI N	N. Nishanthini
11	E1211013	NITHISH M	M. Nithish
12	E1211014	RISHIKESH T	T. Rishikesh
13	E1211015	SABARINATHAN L	L. Sabarinathan
14	E1211016	SHEIK MOHAMED A	A. Sheik Mohamed
15	E1211017	SURESH KUMAR P	P. Suresh Kumar
16	E1211018	THAMARAI SELVAN S	S. Thamarai Selvan
17	E1211019	VIJAYAKUMAR P	P. Vijayakumar
18	E 2211020	ABDU AZIZ M	M. Abdul Aziz
19	E 2211021	ABDUL LATHEEF S	S. Abdul Latheef
20	E 2211022	ABDUL RAHMAN	Rahman
21	E 2211024	AKILAN A	A. Akilan
22	E 2211025	ARUNKUMAR S	S. Arunkumar
23	E 2211026	ASIF K	K. Asif
24	E 2211027	AZHAGAR S	S. Azhagar
25	E 2211028	BEER MOHAMED J	J. Beer Mohamed
26	E 2211029	CHIBUANTONY A	A. Chibu Antony
27	E 2211030	FAIZUL AHAMED A	A. Faizul Ahamed
28	E 2211031	GANESAN P	P. Ganesan

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DEPARTMENT OF CIVIL ENGINEERING

Value Added course (IV Year)

Student list

Name of the course : AutoCAD for Civil Engineers – Planning and Structural Detailing

Course Code: CE23242

Course Coordinator: Ms.K.Kalpana/AP/CIVIL & Ms.L.Kiruthika/AP/CIVIL

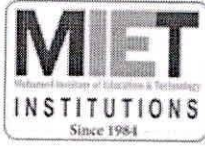
Academic Year: 2023-2024

IV YEAR STUDENTS

SL.NO	ROLL NO	STUDENT NAME
1.	812420103001	ARAVIND S
2.	812420103002	ATCHAYA T
3.	812420103003	FAISAL AHAMED A
4.	812420103004	GUNABALAN S
5.	812420103006	JATHAULLAH A
6.	812420103007	MOHAMED IBRAHIM M
7.	812420103008	MOHAMED MUKFIL SHINAN
8.	812420103009	MOHAMED RAAFI R
9.	812420103011	MOHAMMAD ASLAM A
10.	812420103012	NISHANTHINI N
11.	812420103013	NITHISH M
12.	812420103014	RISHIKESH T
13.	812420103015	SABARINATHAN L
14.	812420103016	SHEIK MOHAMED A
15.	812420103017	SURESH KUMAR P
16.	812420103018	THAMARAI SELVAN S
17.	812420103019	VIJAYAKUMAR P
18.	812420103301	ABDU AZIZ M


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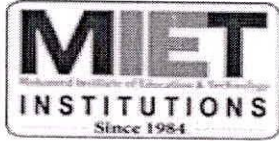
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SL.NO	ROLL NO	STUDENT NAME
19.	812420103302	ABDUL LATHEEF S
20.	812420103303	ABDUL RAHMAN
21.	812420103305	AKILAN A
22.	812420103306	ARUNKUMAR S
23.	812420103307	ASIF K
24.	812420103308	AZHAGAR S
25.	812420103309	BEER MOHAMED J
26.	812420103310	CHIBUANTONY A
27.	812420103311	FAIZUL AHAMED A
28.	812420103312	GANESAN P
29.	812420103313	GURUPRASATH V
30.	812420103314	HARISIDDHARTH K
31.	812420103315	HARSATH AHAMED R
32.	812420103316	JAYABHARATHI V
33.	812420103318	KEVIN JACK J
34.	812420103319	KUTHRATH NIYAS M
35.	812420103320	LEO BENJAMINE JK
36.	812420103321	MANIMARAN R
37.	812420103322	MOHAMED FAHAD S
38.	812420103323	MOHAMED FAIZAL S
39.	812420103324	MOHAMED JAFAR ALI A
40.	812420103325	MOHAMED KHALID RAJA H
41.	812420103326	MOHAMED RAHIMUDEEN K
42.	812420103327	MOHAMED THAJMIL M
43.	812420103328	MOSHIGAN V


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DEPARTMENT OF CIVIL ENGINEERING

Certificate Program (IV Year)

Attendance Sheet

Name of the course: AutoCAD for Civil Engineers – Planning and Structural Detailing

Course Coordinator: Ms.K.Kalpana/AP/CIVIL & Mrs.L.Kiruthika/AP/CIVIL

Course Code: CE23242

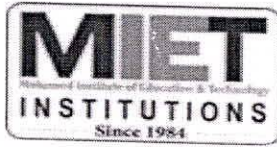
Total hours: 44

Academic Year: 2023-2024 (Odd Sem)

IV YEAR STUDENTS

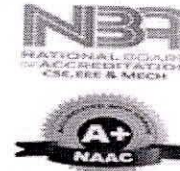
SL. NO	ROLL NO	STUDENT NAME	27/8	10/8	24/8	31/8	7/9	14/9	21/9	5/10	12/10	19/10	26/10	2/11
1.	E1201001	ARAVIND S	Ar	Ab	Ar	Ar	Ar	Ar	Ab	Ar	Ar	Ar	Ab	Ar
2.	E1211002	ATCHAYA T	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya	T. Atchaya
3.	E1211003	FAISAL AHAMED A	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed	F. Ahmed
4.	E1211004	GUNABALAN S	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan	G. Balan
5.	E1211006	JATHAULLAH A	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah	J. Allah
6.	E1211007	MOHAMED IBRAHIM M	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim	M. Ibrahim
7.	E1211008	MOHAMED MUKFIL SHINAN	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan	M. Shinan
8.	E1211009	MOHAMED RAAFI R	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi	R. Rafi
9.	E1211011	MOHAMMAD ASLAM A	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam	A. Aslam
10.	E1211012	NISHANTHINI N	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini	N. Nishanthini

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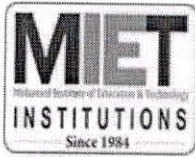
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SL. NO	ROLL NO	STUDENT NAME	2/8	10/8	24/8	31/8	7/9	14/9	21/9	5/10	12/10	19/10	26/10	2/11
27.	E 2211030	FAIZUL AHAMED A	Faj	Faj	Faj	Faj	Faj	Faj	Faj	Faj	Faj	Faj	Faj	Faj
28.	E 2211031	GANESAN P	P.G	P.G	P.G	P.G	P.G	P.G	P.G	P.G	P.G	P.G	P.G	P.G
29.	E 2211032	GURUPRASATH V	P.V	P.V	P.V	P.V	P.V	P.V	P.V	P.V	P.V	P.V	P.V	P.V
30.	E 2211033	HARISIDDHARTH K	H	H	H	H	H	H	H	H	H	H	H	H
31.	E 2211034	HARSATH AHAMED R	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H
32.	E 2211035	JAYABHARATHI V	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H	R.H
33.	E 2211037	KEVIN JACK J	Ab	Ab	V.J	V.J	V.J	V.J	Ab	V.J	V.J	Ab	V.J	V.J
34.	E 2211038	KUTHRATH NIYAS M	K	K	K	K	K	K	K	K	K	K	K	K
35.	E 2211039	LEO BENJAMINE JK	L	L	L	L	L	L	L	L	L	L	L	L
36.	E 2211040	MANIMARAN R	R.M	R.M	R.M	R.M	R.M	R.M	R.M	R.M	R.M	R.M	R.M	R.M
37.	E 2211041	MOHAMED FAHAD S	F	F	F	F	F	F	F	F	F	F	F	F
38.	E 2211042	MOHAMED FAIZAL S	Ab	ll	ll	ll	ll	ll	Ab	ll	ll	ll	Ab	ll
39.	E 2211043	MOHAMED JAFAR ALI A	J	J	J	J	J	J	J	J	J	J	J	J
40.	E 2211044	MOHAMED KHALID RAJA H	K	K	K	K	K	K	K	K	K	K	K	K
41.	E 2211045	MOHAMED RAHIMUDEEN K	K	K	Ab	K	K	K	Ab	K	K	K	Ab	K
42.	E 2211046	MOHAMED THAJMIL M	Ab	M	M	M	M	Ab	M	M	M	Ab	M	M

M. J. J.
PRINCIPAL



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DEPARTMENT OF CIVIL ENGINEERING Report

Name of the course: AutoCAD for Civil Engineers – Planning and Structural Detailing

Course Code: CE23242

Course Coordinator: Ms.K.Kalpana, AP/CIVIL, Mrs.L.Kiruthika, AP/CIVIL

Total Hours: 44

Academic Year: 2023-24

I hereby affirm that the entire course contents listed in the course syllabus of the value added program “**AutoCAD for Civil Engineers – Planning and Structural Detailing**” have educated to the students as the part of the prescribed co – curricular activities through this Program.

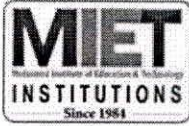
They have been given hands on session on the topics mentioned and students clearly understood the software.

The certificate program titled as “**AutoCAD for Civil Engineers – Planning and Structural Detailing**” has been conducted in the odd semester and course delivery along with attendance of the students was recorded.

All the students were actively attended this certificate Program and performed well throughout the program and eligible students received the certificate.

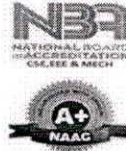

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Certificate Program Assessment Test

Name of the course: AutoCAD for Civil Engineers – Planning and Structural Detailing Date: 02.11.2023

Course Code : CE23242

Academic Year: 2023-2024

Total Marks: 25

Question: Draw a Plan, Section and Elevation for a Residential Building with RCC Roof for the given specification and line diagram

Specifications:

- 1. Foundation:** The foundation for all main walls will be in plain cement concrete 1:5:10 mix, 1000 mm wide and 200 mm thick. The concrete will be laid 800 mm below ground level. The masonry footings will be in Random Rubble Masonry in CM 1:6, first footing 800mm wide and 300mm thick. Second footing is 600mm wide and 300mm thick.
- 2. Basement:** The basement will be in Random Rubble Masonry in CM 1:6, 300mm wide and 750mm high above ground level for all walls and the basement is filled with clean sand to a depth of 400 mm.
- 3. Super Structure:** All walls will be in brick work in cement mortar 1:5, 230 mm thick. The height of all walls will be 3000 mm above floor level. All the walls including the basement shall be plastered with CM 1:4 externally and CM 1:6 internally for 12.5 mm thick. Parapet walls 230 mm thick and 450 mm height with brick work in CM 1:5 will be provided all round.
- 4. Roofing:** The roofing will be of RCC 1:2:4 mix 100 mm thick. A weathering course of 50 mm thick shall be provided over the slab.
- 5. Lintel:** All the internal openings will be provided with 150 mm thick RCC 1:2:4 mix lintels. All the external openings will be provided with 150 mm thick RCC 1 :2:4 lintels cum sunshade 600 mm wide
- 6. Flooring:** The flooring will be in cement concrete 1:5:10 mix 170 mm thick. The top is finished with clay tiles in CM 1:3, 30 mm thick.
- 7. Steps:** Steps will be in brick work in cement mortar 1:5 mix laid on 150mm thick cement concrete 1:5:10 mix footing. Rise will be 150 mm and tread 300 mm.

8. Doors, Windows and Ventilators

D1 - Door	- 1100 x 2100mm
D2 - Door	- 1200 x 2100mm
D3 - Door	- 900 x 2100mm
W1- Window	- 1000 x 1200mm
W2- Window	- 1200 x 1200mm
V1 – Ventilator	- 750 x 300mm
V2 – Ventilator	- 1000 x 300mm
G1 – Grills	- 1000 x1200mm
G2 – Grills	- 1750 x1200mm
G.G – Grill Gate-	1000 x 2100mm


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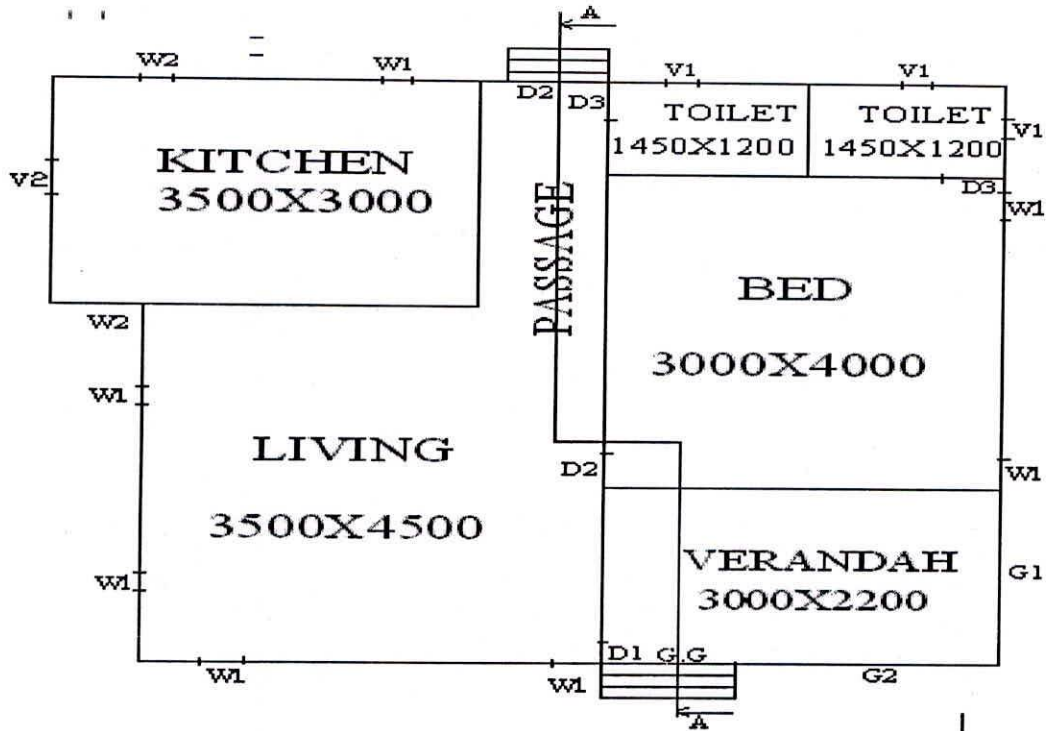


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Line Sketch of Residential Building with RCC roof



LINE SKETCH

A. L. S.
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007.

CERTIFICATE OF MERIT

This is certify that Mr / Ms *Ajith* K.....

has participated in *AUTO.CAD*.....

Workshop held on *11.10.2023* to *13.10.2023*

K. S. S.
General Manager

n. h. s.
PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007.

P. Muthu
Co-ordinator



CERTIFICATE OF MERIT

This is certify that Mr / Ms *Abdul Latheef S*

has participated in *AUTOCAD*

Workshop held on *11.10.2023* to *13.10.2023*

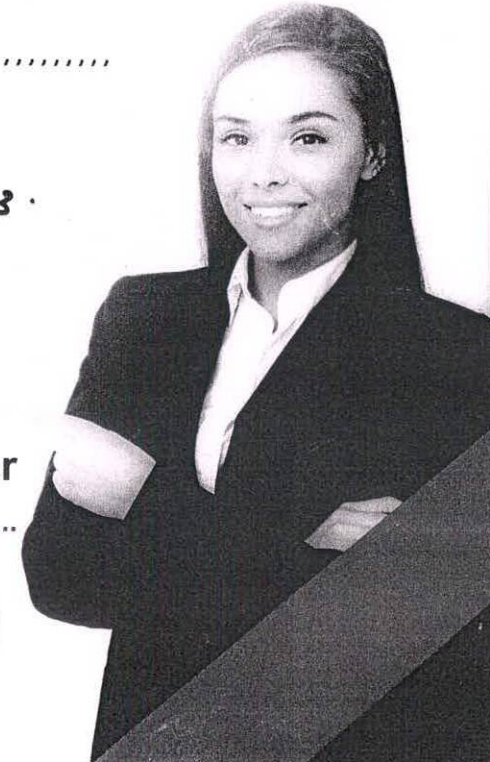
[Signature]

General Manager

[Signature]
PRINCIPAL

M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007

[Signature]
Co-ordinator





M.I.E.T. ENGINEERING COLLEGE (Autonomous)

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Date: 22.03.2024

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007

Respected Sir,

Sub: Permission to conduct the Value Added Course - Reg.

We have planned to conduct the value added course for our students of Civil Engineering from 25.03.2024 to 31.03.2024.

Name of the certificate program	Course Coordinators
Short Term Course on "REVIT ARCHITECTURE FOR BUILDING INFORMATION MODELLING"	Mrs.L.Kiruthika/AP/Civil Dr.P.V.Premalatha/Professor and Head /Civil

Hence, kindly give us permission to conduct the course in our CAD Lab at A Block.

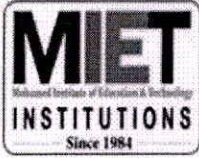
Thanking you


Course Coordinators


HoD/Civil


Principal 23/03/24


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M.I.E.T. ENGINEERING COLLEGE
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Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



CIRCULAR

Date: 05.03.2024

It is planned to conduct a Value-Added course for our Third and Second year Civil Engineering students.

The Value-Added course are short term certificate course which are designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Value-Added course	Course Coordinators
Bar Bending Schedule	Dr. K. Pandi, Associate Professor /Civil. Mr. S. Arun Sahaya Raj, AP/Civil.
Commencement of course from 06/03/2024 to 10/03/2024 Time: 10.00 am - 05.00 pm	

[Handwritten signature]
5/13/24

[Handwritten signature]
5/13/24
Course coordinators

[Handwritten signature]
5/13/24
Hod/Civil

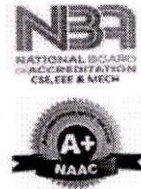
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5/13/24
Principal
[Handwritten signature]
PRINCIPAL

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Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



DEPARTMENT OF CIVIL ENGINEERING VALUE ADDED COURSE (III & II Year)

Syllabus

Name of the Course: Bar Bending Schedule

Course Code: CE232403

Course Coordinators: Dr.K.Pandi / Associate Professor & Mr.S.Arun sahaya raj / AP/ Civil

Total hours: 34

Academic Year: 2023-2024

Preamble:

To make the students to understand and RCC detailing of different structural elements.

Pre-requisites:

Design of reinforced concrete elements

Objectives

This course teaches:

- To give additional input to the area of structural dimension and detailing.
- To introduce bar bending schedule.

Unit I – Mix design

6

Cross section of structural element – Classification According to mix design and grades of steel – concrete mix design.

Unit II – Documentation

6

.Documentation of Quality Assurance. Rusting in Steel – honey combing in concrete.

Unit III – Shuttering

6

Design of shuttering for casting concrete elements – Shuttering and de-shuttering techniques. Case studies.

Unit IV – Structural Drawings

6

Cross Section & longitudinal sections of beams, slab, column and footing-Detailing diagrams.

Unit V – Bar bending Schedule

10

Reinforcement Drawings for structural elements- Measurement of each structural steel reinforcement in a structural element- Cutting length of steel – calculation- bar bending schedule.

QA in usage of steel. Site visit at RBS Readymade steel.


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Outcomes

On completion of this course the student will able to

1. Apply the concept in design and construction site work.
2. Prepare reinforcement detailing of various structural elements.

References

1. IS 456:2000 - Plain and Reinforced Concrete - Code of Practice
2. SP 16 - Design Aids for Reinforced Concrete to IS 456:1978

Web references:

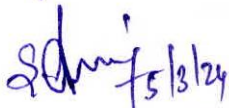
1. [https:// theconstructor.org/practical-guide/preparation-of-bar-bending-schedule/](https://theconstructor.org/practical-guide/preparation-of-bar-bending-schedule/)
2. <https://www.ultratechcement.com/home-building-explained-single/what-is-shuttering-and-right-way-to-do-shuttering-in-construction>

Course activity:

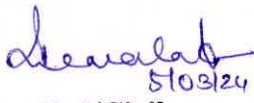
Exercise 1: Detailing diagram of beams and slabs.

Exercise 2: Bar bending schedule for Beams and column.

 5/3/24

 5/3/24

Course Coordinator

 5/3/24

Hod/Civil

 5/3/24

IQAC Coordinator

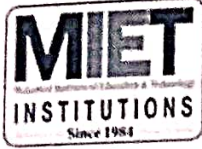
 5/3/24

Principal

 5/3/24

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DEPARTMENT OF CIVIL ENGINEERING

Value Added course Willing Student list

Course Coordinators: Dr. K. Pandi, AP/Civil, Mr. S. Arun Sahaya Raj, AP/Civil.

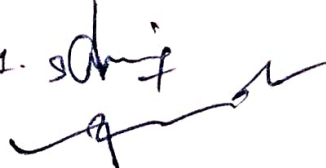
Academic Year: 2023-2024

SL. NO	STUDENT NAME	SIGNATURE
1.	Mohammed Rifayudeen.S	S. M. Rajay
2.	Prasanth S	Prasanth S.
3.	Ramkumar R	Ramkumar R.
4.	Sharul Anoor A	Sharul Anoor A.
5.	Sudharsan.V	Sudharsan V.
6.	Insteen Williams.A	A. Insteen Williams
7.	Jayasurya E	E. Jayasurya
8.	Jegan E	Jegan E.
9.	Krishnamoorthy.K	K. Krishnamoorthy
10.	Manoj V	V. Manoj
11.	Mohammed Ashiq.S	S. Ashiq
12.	Mohamed Umar S	Mohamed Umar S.
13.	Prakash muthu A	A. Prakash muthu
14.	Rahmathullahabdulbasith M	M. R. Abdulbasith
15.	Sukish.M	M. Sukish
16.	Ruthran S	Ruthran S.
17.	Vishnu kumar.C	C. Vishnu kumar

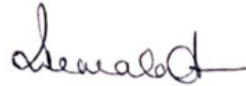
A. L. S.
PRINCIPAL

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GUNDUR, TIRUCHIRAPALLI - 620 007.

SL. NO	STUDENT NAME	SIGNATURE
18.	Irfan Ahamed. T	
19.	Vasanthagurubalan T	T. Vasanthagurubalan
20.	Vetrivel A	A. Vetrivel
21.	Dhamotharan P	P. Dhamotharan
22.	Manikandan M	M. Manikandan
23.	Manikandan R	R. Manikandan
24.	Mohamed Ismail S	S. Md. Ismail
25.	Mohammed Shaheel S	S. Shaheel
26.	Pandiselvam S	S. Pandiselvam
27.	Pradeep Harish V	V. Pradeep Harish
28.	Rasiq Feroze M	M. Rasiq Feroze
29.	Sahul Hameed M	M. Sahul Hameed
30.	Sheik Mohamed F	F. Sheik Mohamed
31.	Vivin Joes D	D. Vivin Joes
32.	Abdul Latheef R	R. Abdul Latheef
33.	Mohamed Yasir A	A. Mohamed Yasir
34.	Mohammed Anis K	K. Mohammed Anis
35.	Sakariya Vairamuthu S	S. Sakariya Vairamuthu
36.	Vigneswaran V	V. Vigneswaran

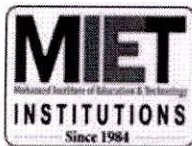
1. 

Course Coordinators



HoD/Civil


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DEPARTMENT OF CIVIL ENGINEERING

Value Added course (III Year & II Year / VI & IV Sem)

Name of the course : Bar Bending Schedule

Course Code: CE232403

Course Coordinators: Dr. K. Pandi, AP/Civil , Mr. S. Arun Sahaya Raj, AP/Civil.

Total hours: 34

Academic Year:2023-2024

COURSE PLAN

S.No	Topics To Be Covered	Planned Hours	Planned Date
1.	Designation of footings,beams, Piers and Abutments & slab panels to identify a particular structural element as an integral part of whole structure	6	6/3/2024
2.	Units of measurement. Cross section of structural element		6/3/2024
3.	Classification According to mix design and grades of steel – concrete mix design.		6/3/2024
4.	Assurance of quality of concrete – testing methods of green and hardened concrete.		6/3/2024
5.	Documentation of Quality Assurance.		6/3/2024
6.	Rusting in Steel – honey combing in concrete.		6/3/2024
7.	Design of shuttering for casting concrete elements – Shuttering and de-shuttering techniques.	6	7/3/2024
8.	Sequence of de-shuttering for foundation and plinth beams		7/3/2024
9.	Sequence of de-shuttering for beams piers and abutments		7/3/2024
10.	Safety precaution		7/3/2024
11.	Cross Section & longitudinal sections of beams and detailing for footings		7/3/2024
12.	Plinth beam, damp proof course, Expansion joints of buildings		7/3/2024
13.	Treatment of joints at Roof. Prevention of leaks.	6	8/3/2024
14.	Reinforcement Drawings for structural elements		8/3/2024
15.	Measurement of each structural steel reinforcement in a structural element.		8/3/2024
16.	Cutting length of steel calculation and bar bending		8/3/2024

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	schedule.		
17.	QA in usage of steel.		8/3/2024
18.	SP 16 - Code book Practice		8/3/2024
19.	SP 34 - Code book Practice	6	9/3/2024
20.	SP 34 - Code book Practice		9/3/2024
21.	IS 456 -2000 Code book Practice		9/3/2024
22.	Code book Practice		9/3/2024
23.	Model practices		9/3/2024
24.	Model practices		9/3/2024
25.	Site Visit at RBS Readymade steel	10	10/3/2024
26.			10/3/2024
27.	Bar bending Demo of beams, slabs, columns and footing by the help of Barbenders		10/3/2024
28.			10/3/2024
29.			10/3/2024
30.			10/3/2024
31.			10/3/2024
32.	Class revision session and student interaction		10/3/2024
33.	Conduct an exam		10/3/2024
34.	Student feedback and course outcome session		10/3/2024

[Handwritten Signature]
5/3/24
Course Coordinators

[Handwritten Signature]
5/3/24
Hod/Civil

[Handwritten Signature]
5/3/24
Principal

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Resource Person Details

Title of the program	Bar Bending Schedule
Course Code	CE232403
Duration and timing of the program	30 Hrs, 9:30 PM to 5:00 PM
Name of the resource person	Mr. S. Arun Sahaya Raj
Photo of the resource person	
Email address	arunsahayaraj09@gmail.com
Contact number	8754152298
Designation	Assistant Professor
Educational qualification	B.E -CIVIL Engineering 2013 in M.I.E.T Engineering College (Anna University), Trichy, Tamil Nadu, with 78%. M.E –Structural Engineering 2015 in PSNA College of engineering and Technology ,(Anna University) Dindigul with CGPA 8.2.
Experience	Teaching Experience – 8 Years.


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Resource Person Details

Title of the program	Bar Bending Schedule
Course Code	CE232403
Duration and timing of the program	30 Hrs, 10:00 AM to 5:00 PM
Name of the resource person	Dr. K. Pandi
Photo of the resource person	
Email address	envepandi@yahoo.co.in
Contact number	9345674534
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">➤ B.E –Civil Engineering (2000) in Alagappa Chettiar College of Engineering & Technology Karaikudi.(Madurai Kamaraj University), Madurai, Tamil Nadu.➤ M.E –Environmental Engineering (2005) in Alagappa Chettiar College of Engineering & Technology Karaikudi affiliated to Anna University Chennai.➤ Ph.D in Civil Engineering (2021) in Anna University Chennai.
Experience	Teaching Experience – 16 Years.


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DEPARTMENT OF CIVIL ENGINEERING Value Added course (Academic Year: 2023 – 2024) Student list

Name of the course : Bar Bending Schedule

Course Code: CE232403

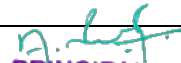
Course Coordinators: Dr. K. Pandi, AP/Civil ,Mr. S. Arun Sahaya Raj, AP/Civil.

SL.NO	ROLL NO	STUDENT NAME
1.	E1181001	Abdul Rahuman B
2.	E1181002	Abuthalip A
3.	E1181003	Jiyavudeen S
4.	E1181005	Mohamed Aslam S
5.	E1181006	Mohamed Halidh M.A
6.	E1181007	Mohamed Hisham K.H
7.	E1181008	Mohamed Ibrahim. A
8.	E1181009	Mohamed Ishak M
9.	E1181010	Mohamed Malik J
10.	E1181011	Mohamed Natheem M
11.	E1181012	Mohamed Rizwan A
12.	E1181013	Pugalenthi. M
13.	E1181014	Riyas Ahmed. M
14.	E1181015	Siva A
15.	E1181016	Subash. S
16.	E1181017	Ubayathulla. A



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SL.NO	ROLL NO	STUDENT NAME
17.	E1181019	Venkateshwaran.G
18.	E1181020	Vignesh M
19.	E2191023	Aathif Navidh. A
20.	E2191024	Abdul Haris I
21.	E2191025	Abdullah A
22.	E2191026	Abdul Rahman.S
23.	E2191027	Ajmeerkhan
24.	E2191028	Angelin sineha. J
25.	E2191030	Asifa Begam.B
26.	E2191032	Elango S
27.	E2191033	Irshadh Ahamed.S
28.	E2191034	Logeshwari. U
29.	E2191035	Maheshwaran M
30.	E2191036	Maheshwaran.M
31.	E2191037	Mogamed Shafir. S
32.	E2191038	Mohamed Arifkhan J
33.	E2191039	Mohamed Askar Abbas T.S
34.	E2191040	Mohamed Aslam M
35.	E2191041	Mohamed Usman Ali M
36.	E2191042	Mohammed Fazil N
37.	E2191043	Mohammed Jabar.A
38.	E2191044	Monicka P M
39.	E2191046	Nowfil Riswan S
40.	E2191048	Ramkumar B


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SL.NO	ROLL NO	STUDENT NAME
41.	E2191050	Vasim Khan M
42.	M3181065	Vignesh S
43.	E2191052	Yasar Kamaldeen M
44.	M3181053	Yasar Arafath M
45.	E2191054	Yogeshwaran.D
46.	E2191048	Mohamed Sheik Rasith M.A
47.	M3181055	Ajith kumar S
48.	M3181056	Arockia Jerin A
49.	M3181057	Bheer Mohamed S
50.	M3181058	Guna T
51.	M3181059	Pandi R
52.	M3181060	Ragul L
53.	M3181061	Sangavi S
54.	M3181062	Sindhanai Selvi S
55.	M3181063	Suresh. M
56.	M3181064	Syed Mohamed K
57.	M3181065	Thoubig Mohammed A
58.	M3181066	Mohamed Ansari A
59.	M3181067	Sakthivel M
60.	E3161068	Hariharan .J


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Date: 22.03.2024

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007

Respected Sir,

Sub: Permission to conduct the Value Added Course - Reg.

We have planned to conduct the value added course for our students of Civil Engineering from 25.03.2024 to 31.03.2024.

Name of the certificate program	Course Coordinators
Short Term Course on "REVIT ARCHITECTURE FOR BUILDING INFORMATION MODELLING"	Mrs.L.Kiruthika/AP/Civil Dr.P.V.Premalatha/Professor and Head /Civil

Hence, kindly give us permission to conduct the course in our CAD Lab at A Block.

Thanking you


Course Coordinators


HoD/Civil


Principal 23/03/24


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CIRCULAR

Date: 22.03.2024

It is planned to conduct a Value Added course for our Civil Engineering students.


The Value Added course are short term certificate course which are designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Value-Added course	Course Coordinators
Short Term Course on “REVIT ARCHITECTURE FOR BUILDING INFORMATION MODELLING”	Mrs.L.Kiruthika, AP/Civil. Dr.P.V.Premalatha/Professor and Head /Civil.
Commencement of course from 25/03/2024 to 31/03/2024 Time: 10.00 am – 05.00 pm	


Course Coordinators


HoD/Civil


Principal 23/03/24


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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE - Syllabus

Name of the Course: Revit Structure and Revit Architecture in Building Information Modelling

Course Code: CE23244

Course Coordinator: Mrs.L.Kiruthika/AP/Civil

Total hours: 56

Academic Year: 2024-25

Unit 1: Introduction & Basic Tools

Building Information Modeling (BIM) and the Revit platform, user interface, toolbars, and workspace navigation. Students learn to start projects, save with templates, and set up project units for consistency. Set up reference levels and grids to organize the model and practice drawing walls with different types. Customizing and managing project templates. Key skills include organizing and structuring the model for efficient workflow.

Unit 2: Basic Modeling & Editing

Basic modeling techniques, including creating and modifying walls, doors, windows, floors, and ceilings. Editing tools such as move, copy, rotate, and trim/extend to refine models. Add dimensions and annotations. Creating sweeps and reveals to enhance design details. Finally, students will set up and manage floor plans, elevations, and 3D views for better visualization of the design

Unit 3: Advanced Modeling & Analysis

This unit covers advanced modeling techniques for structural elements, including complex roof types, curtain walls, stairs, and ramps. Students will explore massing models and custom family creation for structural components. Emphasis is placed on adding reinforcement and preparing models for structural analysis. Students will learn to create and modify 3D views for improved visualization of the structural model.

Unit 4: Team Collaboration & Documenting Models

Team collaboration and documenting structural models for project delivery. Students will learn to manage views, including floor plans, sections, and 3D views, and organize them into schedules and sheets. Title blocks and view templates for professional documentation. Manage worksets for team collaboration and incorporate project phasing to handle design stages.


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Unit 5: Advanced Family Creation & Customization

This unit focuses on advanced family creation, including custom families for doors, windows, trusses, and structural components. Students will use adaptive components for flexible family designs and manage materials and decals for rendering. The unit also covers creating realistic renderings and walkthroughs, along with custom structural families like metal decks and concrete columns. Additionally, students will learn project phasing and model export for different construction stages.

Outcomes

On completion of this course the participant will be able to,

- Use Revit to create and modify architectural and structural elements, and set up project templates.
- Model complex building components, perform analysis, and create schedules and documentation.
- Collaborate in a BIM environment, manage workflows, and customize families

References

1. Revit Architecture 2021 for Designers by Douglas R. Seidler
2. Revit Structure 2021 for Architects, Structural Engineers, and Contractors by Eric Wing


Course Coordinator


HoD/Civil


IQAC Coordinator


Principal


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DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE - Syllabus

Name of the Course: Revit Structure and Revit Architecture in Building Information Modelling

Course Code: CE23244

Course Coordinator: Mrs.L.Kiruthika/AP/Civil

Academic Year: 2023 - 2024

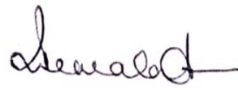
SL.NO	ROLL NO	STUDENT NAME
1.	E1211001	Mohammed Rifayudeen.S
2.	E1211002	Prasanth S
3.	E1211003	Ramkumar R
4.	E1211004	Sharul Anoor A
5.	E1211005	Sudharsan.V
6.	E2221008	Insteen Williams.A
7.	E2221009	Jayasurya E
8.	E2221010	Jegan E
9.	E2221011	Krishnamoorthy.K
10.	E2221012	Manoj V
11.	E2221013	Mohammed Ashiq.S
12.	E2221014	Mohamed Umar S
13.	E2221015	Prakash muthu A
14.	E2221016	Rahmathullahabdulbasith M
15.	E2221017	Sukish.M
16.	E2221018	Ruthran S
17.	E2221019	Vishnu kumar.C

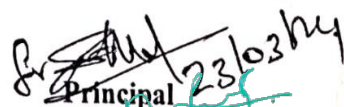

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SL.NO	ROLL NO	STUDENT NAME
18.	E2221020	Irfan Ahamed. T
19.	E2221021	Vasanthagurubalan T
20.	E3211007	Vetrivel A
21.	E1221001	Dhamotharan P
22.	E1221002	Manikandan M
23.	E1221003	Manikandan R
24.	E1221004	Mohamed Ismail S
25.	E1221005	Mohammed Shaheel S
26.	E1221006	Pandiselvam S
27.	E1221007	Pradeep Harish V
28.	E1221008	Rasiq Feroze M
29.	E1221009	Sahul Hameed M
30.	E1221010	Sheik Mohamed F
31.	E1221011	Vivin Joes D
32.	E2231014	Abdul Latheef R
33.	E2231016	Mohamed Yasir A
34.	E2231017	Mohammed Anis K
35.	E2231018	Sakariya Vairamuthu S
36.	E2231020	Vigneswaran V
37.	E1201014	Muhammad Aslam A
38.	E1201020	Thamarai Selvan S
39.	E221019	Kevin Jack J
40.	E1201004	Atchaya T


Course Coordinators


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DEPARTMENT OF CIVIL ENGINEERING

Value Added course

Name of the course : Revit Architecture and Revit Structure for Building Information Modelling

Course Code: CE23244

Course Coordinators: Mrs.L.Kiruthika, AP/Civil.

Total hours: 56

Academic Year:2023-24

COURSE PLAN

S.No	Topics To Be Covered	Planned Hours
1.	Introduction to Building Information Modeling (BIM) and the Revit Platform	11
2.	User Interface and Workspace Navigation	
3.	Exploring Revit's Toolbars and Menus	
4.	Starting a New Project in Revit	
5.	Saving Projects with Templates	
6.	Setting Up Project Units for Consistency	
7.	Creating and Modifying Reference Levels	
8.	Setting Up and Using Grids	
9.	Drawing Basic Walls and Wall Types	
10.	Customizing Project Templates	
11.	Organizing and Structuring the Model for Efficient Workflow	
12.	Creating and Modifying Walls	
13.	Adding Doors and Windows	
14.	Modeling Floors and Floor Types	
15.	Modeling Ceilings and Ceiling Types	
16.	Using Move, Copy, and Rotate Tools	
17.	Using Trim and Extend Tools	
18.	Placing and Modifying Dimensions	
19.	Adding Annotations for Documentation	
20.	Creating Sweeps for Design Detail	
21.	Adding Reveals for Aesthetic Features	
22.	Creating Complex Roof Types (Pitched, Curved, etc.)	
23.	Modeling and Modifying Curtain Walls	

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24.	Designing Stairs and Landings	
25.	Modeling and Customizing Ramps for Accessibility	
26.	Introduction to Massing Models for Conceptual Design	
27.	Modeling Structural Framing (Beams, Columns)	
28.	Adding and Editing Structural Reinforcement (Rebar)	
29.	Creating Structural Slabs and Floors	
30.	Enhancing 3D Views for Better Visualization	
31.	Preparing Models for Structural Analysis	
32.	Using Analytical Tools for Structural Simulation	
33.	Creating Complex Roof Types (Pitched, Curved, etc.)	
34.	Managing Views (Floor Plans, Sections, Elevations)	
35.	Creating and Managing Schedules	
36.	Customizing and Adding Title Blocks	
37.	Using View Templates for Consistent Documentation	
38.	Organizing Views into Sheets for Documentation	
39.	Setting Up and Managing Worksets for Collaboration	11
40.	Collaborating on Models with Multiple Users	
41.	Using Design Options to Explore Multiple Designs	
42.	Managing Project Phases and Stages	
43.	Reviewing and Coordinating Models in a Team	
44.	Handling Project Documentation for Delivery	
45.	Introduction to Custom Family Creation in Revit	
46.	Creating Custom Door Families	
47.	Creating Custom Window Families	
48.	Designing and Modeling Structural Trusses	
49.	Creating and Modifying Parameterized Families	
50.	Using Adaptive Components for Flexible Designs	11
51.	Assigning Materials and Managing Material Properties	
52.	Using Decals for Enhanced Visualization	
53.	Generating Realistic Renderings in Revit	
54.	Creating and Navigating Walkthrough Animations	
55.	Exporting Families for Reuse and Collaboration in Other Projects	


Course Coordinators


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Resource Person Details

Title of the program	Revit Structure for Building Information Modeling
Course Code	CE23244
Duration and timing of the program	22.04.2024 to 24.04.2024 (24 hours)
Name of the resource person	Er.M.Balachandran
Photo of the resource person	
Email address	bachand06@gmail.com
Contact number	9443672159
Designation	Structural Engineer
Educational qualification	<ul style="list-style-type: none">➤ B.E (Civil Engineering) – Regional Engineering College (NIT), Trichy, 2003➤ M.E (Structural Engineering) – Anna University, Madurai, 2014➤ M.B.A (Project Management) – Alagappa University, Karaikudi, 2010➤ PG Diploma (Quantity Surveying and Valuation), Annamalai University, Chidambaram, 2006
Experience	Experience (Teaching and Industrial) – 20 Years


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DEPARTMENT OF CIVIL ENGINEERING

Revit Architecture and Revit Structure for Building Information Modelling

Value Added course Willing Student list

Course Coordinator: Mrs. L.Kiruthika, AP/Civil.

Academic Year: 2023-2024 (Even sem)

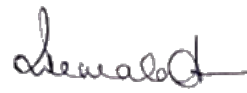
SL. NO	STUDENT NAME	SIGNATURE
1.	Mohammed Rifayudeen.S	
2.	Prasanth S	
3.	Ramkumar R	
4.	Sharul Anoor A	
5.	Sudharsan.V	
6.	Insteen Williams.A	
7.	Jayasurya E	
8.	Jegan E	
9.	Krishnamoorthy.K	
10.	Manoj V	
11.	Mohammed Ashiq.S	
12.	Mohamed Umar S	
13.	Prakash muthu A	
14.	Rahmathullahabdulbasith M	
15.	Sukish.M	
16.	Ruthran S	
17.	Vishnu kumar.C	

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SL. NO	STUDENT NAME	SIGNATURE
18.	Irfan Ahamed. T	Irfan Ahmad-T.
19.	Vasanthagurubalan T	Vasanthagurubalan.
20.	Vetrivel A	Vetrivel -
21.	Dhamotharan P	Dhamotharan. P.
22.	Manikandan M	Manikandan
23.	Manikandan R	R. Manikandan
24.	Mohamed Ismail S	Ismail S.
25.	Mohammed Shaheel S	Mohammed Shaheel S.
26.	Pandiselvam S	Pandiselvam.
27.	Pradeep Harish V	Pradeep Harish
28.	Rasiq Ferose M	Rasiq/Ferose - M.
29.	Sahul Hameed M	Sahul Hameed.
30.	Sheik Mohamed F	Sheik Mohamed - F.
31.	Vivin Joes D	Vivin Joes.
32.	Abdul Latheef R	A. Abdul Latheef
33.	Mohamed Yasir A	Mohamed Yasir
34.	Mohammed Anis K	Anis K.
35.	Sakariya Vairamuthu S	Sakariya Vairamuthu S.
36.	Vigneswaran V	Vigneswaran V.
37.	Muhammad Aslam A	Muhammad Aslam. A.
38.	Thamarai Selvan S	Thamarai Selvan
39.	Kevin Jack J	Kevin Jack J.
40.	Atchaya T	Atchaya.


Course Coordinators


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DEPARTMENT OF CIVIL ENGINEERING

Report

Name of the course: Revit Structure and Revit Architecture in Building Information Modelling

Course Code: CE23244

Course Coordinator: Mrs.L.Kiruthika, AP/CIVIL

Total Hours: 56

Academic Year: 2023-24

The BIM and Revit course equips students with essential skills in design, modeling, and collaboration using Revit. The program begins with an introduction to BIM and the Revit platform, focusing on the user interface, project setup, and organizing models with reference levels and grids. Students learn basic modeling techniques, such as creating and editing walls, doors, windows, and floors, along with essential editing tools for refining models and managing dimensions and annotations.

The course progresses to advanced modeling, covering complex structural elements like roofs, curtain walls, stairs, and custom families for structural components. Students explore massing models, reinforcement techniques, and 3D view modification for structural analysis. Team collaboration and documentation are emphasized, teaching students how to manage views, schedules, sheets, and worksets for multi-user environments. Advanced family creation and rendering techniques are also covered.

I affirm that the course content of the "**Revit Structure and Revit Architecture in Building Information Modelling**" program was fully delivered through hands-on sessions. All students participated actively, and those who performed well received certificates at the end of the even semester, with attendance recorded throughout the program.


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VALUE ADDED COURSE ASSESSMENT TEST

Revit Architecture and Revit Structure for Building Information Modelling

Total Marks: 30

PART-A

[Answer the following Questions (10×2=20) Marks]

1. What is the purpose of reference levels in a Revit project?
2. Explain the steps to set project units in Revit.
3. How do you create grids in a Revit model?
4. Name two tools used to edit walls in Revit and explain their functions.
5. What is the difference between a sweep and a reveal in Revit?
6. How do you create and customize a basic floor plan view in Revit?
7. What is the purpose of a view template in Revit?
8. Explain the process of creating a curtain wall.
9. What are adaptive components in Revit, and when are they used?
10. How do you add a schedule to a sheet in Revit?

PART-B

[Answer any one Questions (10×1=10) Marks]

Create a project in Revit:

- Set up project units to metric or imperial standards.
- Add three reference levels and corresponding grids.
- Save the project using a custom template.
- Draw external walls using two different wall types.
- Add a minimum of two doors and three windows to the model.
- Ensure proper alignment with grids and levels.

Model a complete floor system:

- Create a floor with custom boundaries.
- Add dimensions and annotations to document the layout.
- Modify the floor type and assign a material to it.
- Add a roof with a slope at the top level.
- Include stairs connecting the first and second levels.
- Generate 3D and elevation views to visualize the structure.

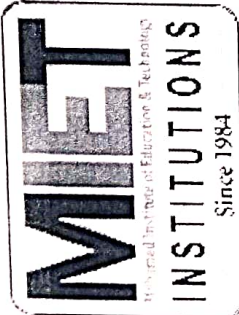

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Certificate for Workshop

This is to certify that Mr. ABDUL LATHEEF, R/II has completed three days workshop on
"REVIT STRUCTURE FOR BUILDING INFORMATION MODELLING" from 22.04.2024 to 24.04.2024
conducted by the Department of Civil Engineering, M.I.E.T. Engineering College (Autonomous), Tiruchirappalli.

M. Balachandran
COURSE INSTRUCTOR

Er.M.BALACHANDRAN

Mrs. L. Kiruthika
COURSE COORDINATOR

Mrs.L.KIRUTHIKA

Dr. P.V. Premalatha
HOD/CIVIL

Dr.P.V.PREMALATHA

Dr. A. Naveen Sait
PRINCIPAL

Dr.A.NAVEEN SAIT

M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI - 620 007.




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Certificate of Participation

This is to certify that Mr / Ms*Thannarai Selvan..S*.....
has participated in the Event of Workshop*Revit Architecture*.....
held from ...*25-03-24*..... to ...*30-03-24*.....


Co-ordinator


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Managing Director

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