

**KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING
(AUTONOMOUS)**

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE COURSE

ON

“ARCHITECTURAL MODELING USING REVIT”

Resource Person:

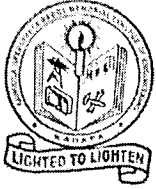
M. Parvalika, Technical Skill Trainer, APSSDC

Course Coordinator:

K. Pramod and V. Sai Neeraja, Assistant Professor, Dept. of CE, KSRMCE

Duration:

17/10/2022 to 22/10/2022



K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

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Date: 12.10.2022

To

The Principal,
K.S.R.M.College of Engineering,
Kadapa.

Respected Sir,

Sub:KSRMCE - (Civil Engineering Department) Permission to conduct a Certification course on "Revit Architecture"-Req-Reg.

It is being brought to your kind notice that, With reference to the cited, the Civil Engineering Department is planning to conduct a Certification course on "Revit Architecture" for V sem B.Tech students from 17th to 22nd October 2022 at 9 AM- 4 PM. In this regard I kindly request you to grant permission to conduct the certification course.

Thanking you Sir,

K.Pramod
Yours Faithfully
K.Pramod,
Assistant professor,
Dept. of CE

Forwarded to
HoD Sir

APSSDC 12/10/2022

To Principal Sir

Dear Sir, please approve the
program in given schedule.

Permit

V. S. S. Murthy
12/10/2022



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Circular

All the V Sem B. Tech students are hereby informed that Department of Civil Engineering is going to conduct a Certification course on "Revit Architecture" from 17th to 22th October 2022 at 9 am to 4pm. Interested students may register their names with the below link given below on or before 15th October 2022.

Registration link: <https://forms.gle/o2qrGt2Cek2SoL6H9>

Resource Person:

Ms.M. Pravallika,
Technical Skill trainer,
APSSDC.

Organizer:


Sri. P.Pavan Kumar, Assistant Professor in CED

Coordinator:

Sri. K.Pramod, Assistant Professor in CED

Co-Coordinator:

Ms. V.Sai Neeraja, Assistant Professor in CED


Head
Department of Civil Engineering
K.S.R.M. College of Engineering
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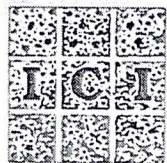
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under the governance of APSSDC in association with CRI, KSRMCE



One week certification course

on

Architectural Modeling using REVIT



Skill AP
APSSDC

Resource person

Miss M Pravallika

Technical Skill Trainer

APSSDC Team, Govt., of AP



CRI Lab

Coordinator: Sri K Pramod, Asst. Professor, Dept. of CE

Co-coordinator: Miss V Sai Neeraja, Asst. Professor, Dept. of CE

Starts: 17-10-2022

09.00 AM - 04.00 PM

Dr. N Amaranatha Reddy
HOD

Prof. V S S Murthy
Principal

Dr. K Chandra Obul Reddy
Management Director

Smt. K Rajeswari
Correspondent Secretary,
Treasurer

Sri K Madan Mohan Reddy
Vice Chairman

Sri K Raja Mohan Reddy
Chairman



Certification course on " Revit Architecture "

For V Sem Civil Engineering Students

Only Interested Students can fill the form

* Required

1. Name of the Student (As per SSC) *

2. Roll Number *

3. Section *

Mark only one oval.

☐ A

☐ B

☐ C

4. Phone Number (preferably WhatsApp number)

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Department of Civil Engineering


Name of the Event: Certification course on "Revit Architecture"

List of Registrations

Sl.NO.	Roll No.	Name of the student	Section	Branch
1	209Y1A0107	Basireddy Bharath Simha Reddy	A	C.E
2	209y1a0118	Dharmavaram Aditya Sreeram	A	C.E
3	209y1a0147	Mothukuri Rahul	A	C.E
4	209Y1A0149	Mude Narendra Naik	A	C.E
5	219y5a0101	Ajjugottu Rajitha	B	C.E
6	219y5a0102	Alli Ritwik Kumar	B	C.E
7	219Y5A0106	Bandaru Munivardhan	B	C.E
8	219y5a0107	Bhukya Suresh Naik	B	C.E
9	219Y5A0109	Bollu,Naresh	B	C.E
10	219y5a0110	B. Roopesh Reddy	B	C.E
11	219y5a0111	Challa Naveen	B	C.E
12	219y5a0115	Dampella Mahesh	B	C.E
13	219Y5A0116	Derangula Hemanth Kumar	B	C.E
14	219y5a0117	Enapati Guruteja	B	C.E
15	219y5a0118	Galipothula Samuel	B	C.E
16	219y5a0119	G.Rajesh	B	C.E
17	219Y5A0121	Gogula Avinash	C	C.E
18	219y5a0123	J.Vasu	C	C.E
19	219Y5A0126	Kamireddy Jaipal Reddy	C	C.E
20	219Y5A0127	Kanthuri Hema	C	C.E
21	219y5A0128	K Sai Kumar Naik	C	C.E
22	219y5a0131	K.Sree Kavya	C	C.E
23	219y5A0132	Kore Sasirekha	C	C.E

24	219Y5A0133	K Dastagiri	C	C.E
25	219Y5A0134	Subhsh Kunchapu	C	C.E
26	219y5a0135	Kuruba Lavanya	C	C.E
27	219y5a0136	Kuruva Bangaru Voorosh	C	C.E
28	219Y5A0138	Madhallapalle Vishnu Vardhan	C	C.E
29	219Y5A0139	Madhavaram Sreedhar	C	C.E
30	219y5a0140	Mala Maddileti	C	C.E
31	219y5a0142	Malishetty Gurulakshmi	C	C.E
32	219Y5A0143	Mallu Teja	C	C.E
33	219Y5A0145	Mekala Chennakeshavulu	C	C.E
34	219y5a0146	Mkiran Reddy	C	C.E
35	219y5a0147	N.Shiva Kishor	C	C.E
36	219Y5A0149	Nare Malleswari Devi	C	C.E
37	219y5a0151	Palla Yogendra	C	C.E
38	219y5a0152	Pasupuleti Sai Charan	C	C.E
39	219y5a0153	Pathan Rahamathullah Khan	C	C.E
40	219Y5A0154	Patte Jagan Mohan	C	C.E
41	219y5a0155	Pinjari Lalappa	C	C.E
42	219y5a0156	P. Sunanda	C	C.E
43	219Y5A0159	Ratala Chandra Sekhar	C	C.E
44	219y5a0161	Sandrapalli Venkata Sumalatha	C	C.E
45	219Y5A0163	Shaik Mahaboob Bee	C	C.E
46	219Y5A0165	Shaik Mohammed Zuber	C	C.E
47	219y5a0166	Shaik Nasar	C	C.E
48	219Y5A0167	Shaik Thakkalla Yunus	C	C.E
49	219y5a0169	T. Yesheshwani	C	C.E
50	219Y5A0174	Yerramagari Vignesh Kumar	C	C.E


Coordinator


HOD, C.E
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Department of Civil Engineering

Certification course on "Architectural Modeling Using REVIT"

Date	Timing	Course Instructor	Topic to be covered
17/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer, APSSDC	Introduction to Building Information Modeling, Revit Architecture Introduction
17/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	User Inter Face, Setting of Units & Working with Elevation Views, Placing Walls, Doors & windows
18/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Editing of Walls, Doors & Windows, Properties Palette, Managing Views by Project Browser
18/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Placing of Family Files(Components), Modify Tools, Roof & Types of Roofs
19/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Floor & Types of Floors, Ceiling
19/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Explain about Curtain wall, Creating Section Views
20/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Different Types of Openings, Staircase
20/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Ramp, Railing, Annotations, Model Text
21/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	3-D Views
21/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Paint, Creating New Materials
22/10/2022	9 AM to 12 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Massing & Site, Schedules, Page Layout
22/10/2022	1 PM to 4 PM	Miss. M. Pravalika Technical Skill Trainer APSSDC	Documentation, Project Submission

Instructor:

Pravalika

Coordinators:

dyrarned

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Syllabus of Certification Course

Course Name: Architectural Modeling Using REVIT

Table of Contents

1. Introduction to Building Information Modeling
2. Revit Architecture Introduction
3. User Inter Face
4. Setting of Units & Working with Elevation Views
5. Placing Walls, Doors & windows
6. Editing of Walls, Doors & Windows
7. Properties Palette
 - o Type Selector
 - o Type Parameters
 - o Instance Parameters
8. Managing Views by Project Browser
9. Placing of Family Files(Components)
10. Modify Tools
11. Roof & Types of Roofs
12. Floor & Types of Floors
13. Ceiling
14. Explain about Curtain wall
15. Creating Section Views
16. Different Types of Openings
17. Staircase
18. Ramp
19. Railing
20. Annotations
21. Model Text
22. 3-D Views
 - o Camera Views
 - o Rendering
 - o Walkthroughs
23. Paint
24. Creating New Materials
25. Massing & Site.
26. Schedules
27. Page Layout
28. Documentation
29. Project Submission

Textbooks:

1. Atefe Makhmalbaf (2022), Building Information Modeling using Revit for Architects and Engineers, Mavs Open Press.
2. Revit Essentials for Architecture by Paul F. Aubin, <https://paulaubin.com/books/revit-essentials-for-architecture/>.



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Department of Civil Engineering

Name of the Event: Certification course on "Revit Architecture"

List of Participants

Sl.No.	Name of the Student	Roll Number	Section	Branch	Signature
1	Mude Narendra Naik	209Y1A0149	A	C.E	M. Narendra Naik
2	Alli Ritwik Kumar	219Y5A0102	B	C.E	A. Ritwik
3	Bandaru Munivardhan	219Y5A0106	B	C.E	B. Munivardhan
4	Bhukya Suresh Naik	219Y5A0107	B	C.E	B. Suresh Naik
5	Bollu.Naresh	219Y5A0109	B	C.E	B. Naresh
6	B. Roopesh Reddy	219Y5A0110	B	C.E	B. Roopesh
7	Challa Naveen	219Y5A0111	B	C.E	Ch. Naveen
8	C.Nikilswar Sai Kumar	219Y5A0112	B	C.E	C. Nikilswar
9	Dampetla Mahesh	219Y5A0115	B	C.E	D. Mahesh
10	Derangula Hemanth Kumar	219Y5A0116	B	C.E	D. Hemanth
11	Enapati Guruteja	219Y5A0117	B	C.E	E. Guruteja
12	G. Rajesh	219Y5A0119	B	C.E	G. Rajesh
13	Gogula Avinash	219Y5A0121	C	C.E	G. Avinash
14	J.Vasu	219Y5A0123	C	C.E	J. Vasu
15	Kamireddy Jaipal Reddy	219Y5A0126	C	C.E	K. Jaipal Reddy
16	K Sai Kumar Naik	219Y5A0128	C	C.E	K. Sai Kumar Naik
17	K.Sree Kavya	219Y5A0131	C	C.E	K. Sree Kavya
18	Kore Sasirekha	219Y5A0132	C	C.E	K. Sasirekha
19	K Dastagiri	219Y5A0133	C	C.E	K. Dastagiri
20	K.Subhas	219Y5A0134	C	C.E	K. Subhash
21	Kuruba Lavanya	219Y5A0135	C	C.E	K. Lavanya



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22	Madhallapalle Vishnu Vardhan	219Y5A0138	C	C.E	<i>Vishnu</i>
23	Madhavaram Sreedhar	219Y5A0139	C	C.E	<i>M. Sreedhar</i>
24	Mala Maddileti	219Y5A0140	C	C.E	<i>M. Maddileti</i>
25	Malishetty Gurulakshmi	219Y5A0142	C	C.E	<i>M. Gurulakshmi</i>
26	Mallu Teja	219Y5A0143	C	C.E	<i>M. Teja</i>
27	Mekala Chennakeshavulu	219Y5A0145	C	C.E	<i>M. Chenna Keshavulu</i>
28	M Kiran Reddy	219Y5A0146	C	C.E	<i>M. Kiran</i>
29	N. Shiva Kishor	219y5a0147	C	C.E	<i>N. Shiva Kishor</i>
30	Nare Malleswari Devi	219Y5A0149	C	C.E	<i>N. Malleswari devi</i>
31	Pasupuleti Sai Charan	219Y5A0152	C	C.E	<i>P. Sai Charan</i>
32	Pathan Rahamathullah Khan	219Y5A0153	C	C.E	<i>P. Rahamathullah</i>
33	Patte Jagan Mohan	219Y5A0154	C	C.E	<i>P. Jagan mohan</i>
34	P. Sunanda	219Y5A0156	C	C.E	<i>P. Sunanda</i>
35	S. Sumalatha	219y5a0161	C	C.E	<i>S. Sumalatha</i>
36	Shaik Mahaboob Bee	219Y5A0163	C	C.E	<i>S. Mahaboob Bee</i>
37	Shaik Mohammed Zuber	219Y5A0165	C	C.E	<i>S. Zuber</i>
38	Shaik Thakkalla Yunus	219Y5A0167	C	C.E	<i>S. Thak</i>

Coordinator
Coordinator

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List of Participants

17/10/2022 (FN)

S.NO	STUDENT NAME	Roll Number	Section	Signature
1	B. Bharath Simha Reddy	209Y1A0107	A/S	B. Bharath
2	K. Dastagiri	219Y5A0133	C/S	K. Dastagiri
3	D. Maheesh	219Y5A0115	B/S	D. Maheesh
4	A. Ritwik Kumar	219Y5A0109	B/S	A. Ritwik
5	M. Chenna Keshavulu	219Y5A0145	C/S	M. Chenna Keshavulu
6	M. Maddileti	219Y5A0140	C/S	M. Maddileti
7	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu
8	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva
9	M. Rahul	209Y1A0147	A/S	M. Rahul
10	D. Aditya Sreeram	209Y1A0118	A/S	D. Aditya
11	C. Nikilswara Sai Kumar	219Y5A0112	B/S	C. Nikilswara
12	K. Lavanya	219Y5A0135	C/S	K. Lavanya
13	K. Sreekanth	219Y5A0131	C/S	K. Sreekanth
14	P. Sunanda	219Y5A0156	C/S	P. Sunanda
15	K. Sasirekha	219Y5A0132	C/S	K. Sasirekha
16	M. Gururaj Lakshmi	219Y5A0142	C/S	M. Gururaj Lakshmi
17	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran
18	K. Jaipal Reddy	219Y5A0126	C/S	K. Jaipal
19	B. Munivardhan	219Y5A0106	B/S	B. Munivardhan
20	B. Nareesh	219Y5A0109	B/S	B. Nareesh
21	D. Hemant Kumar	219Y5A0116	B/S	D. Hemant
22	B. Suresh Naik	219Y5A0107	B/S	B. Suresh
23	Ch. Naveen	219Y5A0111	B/S	Ch. Naveen
24	M. Sreedhar	219Y5A0137	C/S	M. Sreedhar
25	G. Avinash	219Y5A0121	C/S	G. Avinash
26	M. Teja	219Y5A0143	C/S	M. Teja
27	E. CIVRU TEJA	219Y5A0117	C/S	E. CIVRU TEJA
28	B. Ramesh Reddy	219Y5A0110	C/S	B. Ramesh
29	K. G. Kuranpaik	219Y5A0139	C/S	K. G. Kuranpaik
30	B. Sumalatha	219Y5A0161	C/S	B. Sumalatha

[Signature]
Coordinator

[Signature]
HOD, C.E

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List of Participants

Date: 18-10-2022 FN

S.NO	STUDENT NAME	Roll Number	Section	Signature
1	G. Rajesh	219Y5A0119	B/S	G. Rajesh
2	A. Rithwik Kumar	219Y5A0102	B/S	A. Rithwik
3	D. Mahesh	219Y5A0115	B/S	D. Mahesh
4	M. Narendar Naik	209Y5A0103	A/S	M. Narendar Naik
5	m. chennakrishnavulu	219Y5A0145	C/S	m. chennakrishnavulu
6	m. maddileti	219Y5A0140	C/S	m. maddileti
7	P. Rahamathullah	219Y5A0153	C/S	P. Rahamathullah
8	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
9	S. Zubin	219Y5A0165	C/S	S. Zubin
10	P. Sai Charan	219Y5A0152	C/S	P. Sai Charan
11	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
12	P. Jagann Mohan	219Y5A0154	C/S	P. Jagann Mohan
13	G. Nihilaswara Saikumar	219Y5A0112	B/S	G. Nihilaswara Saikumar
14	K. Sreekanth	219Y5A0131	C/S	K. Sreekanth
15	K. Lavanya	219Y5A0135	C/S	K. Lavanya
16	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran Kumar Reddy
17	E. GURU TEJA	219Y5A0117	B/S	E. GURU TEJA
18	M. GURULAKSHMI	219Y5A0102	C/S	M. GURULAKSHMI
19	P. Sunand	219Y5A0156	C/S	P. Sunand
20	K. Sasirekha	219Y5A0132	C/S	K. Sasirekha
21	K. Faizal Reddy	219Y5A0104	C/S	K. Faizal Reddy
22	B. Munivardhan	219Y5A0106	B/S	B. Munivardhan
23	B. Nareesh	219Y5A0109	B/S	B. Nareesh
24	D. Hemant Kumar	219Y5A0116	B/S	D. Hemant Kumar
25	B. Swathi Naik	219Y5A0107	B/S	B. Swathi Naik
26	Ch. Naveen	219Y5A0111	B/S	Ch. Naveen
27	M. SREEDHAR	219Y5A0139	C/S	M. S. R. D. R.
28	N. Nallawari Devi	219Y5A0114	C/S	N. Nallawari Devi
29	B. Lalabharthi	219Y5A0163	C/S	B. Lalabharthi
30	S. Sumalatha	219Y5A0161	C/S	S. Sumalatha
31	K. Sai Kumar Naik	219Y5A0124	C/S	K. Sai Kumar Naik
32	S. T. YUNUS	219Y5A0167	C/S	S. T. YUNUS
33	T. S. Ramesh Reddy	219Y5A0110	B/S	T. S. Ramesh Reddy
34	G. ANJALI	219Y5A0121	C/S	G. Anjali
35	M. TEJA	219Y5A0143	C/S	M. TEJA
36				

K. Ramana
Coordinator

HOD, C.E
Head

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List of Participants

Date: 18-10-2022 AN

S.NO	STUDENT NAME	Roll Number	Section	Signature
1	K. Sasirekha	219Y5A0132	C/S	K. Sasirekha
2	K. Jaipal Reddy	219Y5A0126	C/S	K. Jaipal
3	B. Munivardhan	219Y5A0106	B/S	B. Munivardhan
4	B. Nareesh	219Y5A0109	B/S	B. Nareesh
5	D. Homulthi Keemari	219Y5A0116	R/S	D. Homulthi
6	B. Suresh nayak	219Y5A0107	B/S	B. Suresh
7	C. Naveen	219Y5A0111	B/S	C. Naveen
8	M. SREEDHAR	219Y5A0139	"C/S"	M. S. R.
9	N. Mallikaraj Reddy	219Y5A0149	C/S	N. Mallikaraj
10	S. Mahabharthi	219Y5A0162	C/S	S. Mahabharthi
11	S. Samalatha	219Y5A0161	C/S	S. Samalatha
12	K. Sai Kumar naik	219Y5A0123	C/S	K. Sai Kumar
13	G. T. Yashu	219Y5A0167	C/S	G. T. Yashu
14	K. Ramesh Reddy	219Y5A0110	B/S	K. Ramesh
15	G. AVINASH	219Y5A0121	C/S	G. Avinash
16	M. Teja	219Y5A0143	C/S	M. Teja
17	P. Jagannathan	219Y5A0154	C/S	P. Jagannathan
18	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran Kumar
19	E. GURU TEJA	219Y5A0117	B/S	E. GURU TEJA
20	M. Gurubakshmi	219Y5A0142	C/S	M. Gurubakshmi
21	P. Sunanda	219Y5A0136	C/S	P. Sunanda
22	C. Nikilswara Srikumar	219Y5A0112	B/S	C. Nikilswara
23	K. Lavanya	219Y5A0135	C/S	K. Lavanya
24	K. Srekanth	219Y5A0131	C/S	K. Srekanth
25	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
26	P. Sai Charan	219Y5A0152	C/S	P. Sai Charan
27	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
28	M. Mahi Lati	219Y5A0140	C/S	M. Mahi Lati
29	P. Rahamathullah Khan	219Y5A0153	C/S	P. Rahamathullah Khan
30	S. Zubair	219Y5A0165	C/S	S. Zubair
31	M. Chenna Keshavulu	219Y5A0145	C/S	M. Chenna Keshavulu
32	M. Narendar Naik	209Y5A0149	A/S	M. Narendar Naik
33	D. Mahesh	219Y5A0115	B/S	D. Mahesh
34	A. Ritwik Kumar	219Y5A0102	B/S	A. Ritwik Kumar
35	G. Rajesh	219Y5A0119	B/S	G. Rajesh
36				

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S.NO	STUDENT NAME	Roll Number	Section	Signature
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2	C. Nikileswara Sai Kumar	21945A0119	B/S	C. Nikileswara
3	P. Suranda	219Y5A0156	C/S	P. Suranda
4	M. Gurukulakshmi	219Y5A0142	C/S	m.gurukulakshmi
5	E. CHURUTEJA	219Y5A0117	B/S	E. CHURUTEJA
6	K. Jaipal Reddy	219Y5A0126	C/S	K. Jaipal Reddy
7	B. Munivardhan	219Y5A0106	B/S	B. Munivardhan
8	R. Nareesh	219Y5A0109	B/S	R. Nareesh
9	D. Hemavathi Kumar	219Y5A0116	B/S	D. Hemavathi Kumar
10	B. Suresh Naik	219Y5A0107	B/S	B. Suresh Naik
11	Ch. Naveen	219Y5A0111	B/S	Ch. Naveen
12	M. SREEDHAR	219Y5A0139	C/S	M. S. Reddy
13	N. Manjunani Devi	219Y5A0109	C/S	N. Manjunani
14	S. Mahabadi Goe	219Y5A0103	C/S	S. Mahabadi
15	J. Vasa	219Y5A0123	C/S	J. Vasa
16	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran
17	S. Somabathi	219Y5A0161	C/S	S. Somabathi
18	K. Sai Kumar Naik	219Y5A0129	C/S	K. Sai Kumar Naik
19	S. T. Yenus	219Y5A0167	C/S	S. T. Yenus
20	S. Ramesh Reddy	219Y5A0110	B/S	S. Ramesh
21	G. AVINASH	219Y5A0121	C/S	G. Avinash
22	P. Jagap Mohan	219Y5A0116	C/S	P. Jagap Mohan
23	K. Sreekanth	219Y5A0131	C/S	K. Sreekanth
24	K. Jayaraj	219Y5A0135	C/S	K. Jayaraj
25	D. Mahesh	219Y5A0115	B/S	D. Mahesh
26	A. Ritwik Kumar	219Y5A0102	B/S	A. Ritwik
27	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
28	P. Sai Charan	219Y5A0152	C/S	P. Sai Charan
29	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
30	S. Zubair	219Y5A0165	C/S	S. Zubair
31	M. TEJA	219Y5A0143	C/S	M. TEJA
32	P. Rehmathullah Khan	219Y5A0153	C/S	P. Rehmathullah Khan
33	m. maddileti	219Y5A0140	C/S	m. maddileti
34	K. Subhash	219Y5A0134	C/S	K. Subhash
35	m. chenna keshavulu	219Y5A0145	C/S	m. chenna keshavulu
36	M. Narendra Naik	209Y4A0149	A/S	M. Narendra Naik
37	K. Dastagiri	219Y5A0137	C/S	K. Dastagiri
38	G. Rajesh	219Y5A0115	B/S	G. Rajesh

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4	M. Chennakeshavaiah	219Y5A0145	C/S	M. Chennakeshavaiah
5	M. Narendran Naidu	219Y5A0144	C/S	M. Narendran Naidu
6	K. Dasgiri	219Y5A0137	C/S	K. Dasgiri
7	G. Rajesh	219Y5A0119	B/S	G. Rajesh
8	D. Mahesh	219Y5A0115	B/S	D. Mahesh
9	K. Sree Kanya	219Y5A0131	C/S	K. Sree Kanya
10	K. Lavanya	219Y5A0135	C/S	K. Lavanya
11	P. Sumanda	219Y5A0156	C/S	P. Sumanda
12	M. Gurubakshmi	219Y5A0142	C/S	M. Gurubakshmi
13	C. Nikileswara Saitumar	219Y5A0112	B/S	C. Nikileswara Saitumar
14	E. Guruteja	219Y5A0117	B/S	E. Guruteja
15	K. Sasidulcha	219Y5A0132	C/S	K. Sasidulcha
16	M. Kivan Kumar Reddy	219Y5A0146	C/S	M. Kivan Kumar Reddy
17	K. Jaipal Reddy	219Y5A0126	C/S	K. Jaipal Reddy
18	B. Munimurthi	219Y5A0106	B/S	B. Munimurthi
19	B. Naresh	219Y5A0109	B/S	B. Naresh
20	D. Hemant Kumar	219Y5A0116	B/S	D. Hemant Kumar
21	B. Suresh Naidu	219Y5A0107	B/S	B. Suresh Naidu
22	Ch. Naveen	219Y5A0111	B/S	Ch. Naveen
23	M. SREEDHAR	219Y5A0139	C/S	M. S. R. Sreedhar
24	N. Mallikarjuni Devi	219Y5A0119	C/S	N. Mallikarjuni Devi
25	Shankar Mallesh Babu	219Y5A0163	C/S	Shankar Mallesh Babu
26	J. Vasu	219Y5A0123	C/S	J. Vasu
27	S. Zuber	219Y5A0161	C/S	S. Zuber
28	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
29	P. Saicharan	219Y5A0152	C/S	P. Saicharan
30	M. Teja	219Y5A0143	C/S	M. Teja
31	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
32	A. Ritwik Kumar	219Y5A0102	B/S	A. Ritwik Kumar
33	P. Jagan Mohan	219Y5A0154	C/S	P. Jagan Mohan
34	G. ANUPAM	219Y5A0121	C/S	G. Anupam
35	T. Ramesh Reddy	219Y5A0110	B/S	T. Ramesh Reddy
36	S.T. Yunus	219Y5A0167	C/S	S.T. Yunus
37	K. Saikumar Naidu	219Y5A0128	C/S	K. Saikumar Naidu
38	S. Sumanatha	219Y5A0161	C/S	S. Sumanatha

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2	K. Saurav	219Y5A0135	C/S	K. Saurav
3	P. Sunanda	219Y5A0136	C/S	P. Sunanda
4	M. GURURAKSHMI	219Y5A0142	C/S	m.gururakshmi
5	E. GURUTEJA	219Y5A0117	B/S	E. Guruteja
6	K. Sasirekha	219Y5A0132	C/S	K. Sasirekha
7	K. Jaipal Reddy	219Y5A0126	C/S	K. Jaipal
8	B. Muthivaradhan	219Y5A0106	B/S	B. Muthi
9	B. Nareesh	219Y5A0109	B/S	B. Nareesh
10	D. Hemant Kumar	219Y5A0116	B/S	D. Hemant
11	B. Suresh Naidu	219Y5A0107	B/S	B. Suresh
12	Ch. Alankar	219Y5A0111	B/S	Ch. Alankar
13	M. SREEDHAR	219Y5A0139	C/S	M. S. Sreedhar
14	N. Malleswari Devi	219Y5A0149	C/S	N. Malleswari
15	S. Mahaboob bae	219Y5A0153	C/S	S. Mahaboob
16	K. Sai Kumar naik	219Y5A0128	C/S	K. Sai Kumar
17	S. Smalatha	219Y5A0161	C/S	S. Smalatha
18	S. Zubair	219Y5A0165	C/S	S. Zubair
19	S. T. YOUNIS	219Y5A0167	C/S	S. T. YOUNIS
20	J. Vasu	219Y5A0183	C/S	J. Vasu
21	B. Suresh Reddy	219Y5A0110	B/S	B. Suresh
22	G. AVINASH	219Y5A0121	C/S	G. Avinash
23	P. Jagannathan	219Y5A0150	C/S	P. Jagannathan
24	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran
25	C. Nihilesuwarai Saikumar	219Y5A0112	B/S	C. Nihilesuwarai
26	D. Mahesh	219Y5A0115	B/S	D. Mahesh
27	A. Ritesh Kumar	219Y5A0102	B/S	A. Ritesh
28	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
29	P. Saicharan	219Y5A0152	C/S	P. Saicharan
30	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
31	K. Subhash	219Y5A0134	C/S	K. Subhash
32	P. Rahmathullah	219Y5A0153	C/S	P. Rahmathullah
33	m. maddileti	219Y5A0140	C/S	m. maddileti
34	M. Teja	219Y5A0143	C/S	M. Teja
35	M. Chennai Keshavulu	219Y5A0145	C/S	M. Chennai Keshavulu
36	M. Anandya Nair	219Y5A0148	C/S	M. Anandya Nair
37	K. Dastagiri	219Y5A0133	C/S	K. Dastagiri
38	G. Rishabh	219Y5A0119	R/S	G. Rishabh

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List of Participants

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1	K. Sreedhanya	219Y5A0131	C/S	K. Sreedhanya
2	K. Dastagiri	219Y5A0133	C/S	K. Dastagiri
3	P. Sunanda	219Y5A0136	C/S	P. Sunanda
4	K. Lavanya	219Y5A0135	C/S	K. Lavanya
5	M. Gurubakshmi	219Y5A0142	C/S	M. Gurubakshmi
6	K. Sasirekha	219Y5A0132	C/S	K. Sasirekha
7	E. Guruteja	219Y5A0117	B/S	E. Guruteja
8	M. Kiran Kumar Reddy	219Y5A0146	C/S	M. Kiran Kumar
9	K. Faizal Reddy	219Y5A0126	C/S	K. Faizal
10	C. Nichileswarayalakumari	219Y5A0112	B/S	C. Nichile
11	B. Muriyavardhan	219Y5A0106	B/S	B. Muriyavardhan
12	R. Nareesh	219Y5A0109	B/S	R. Nareesh
13	P. Hanayutha Kumar	219Y5A0116	B/S	P. Hanayutha
14	B. Suresh Yash	219Y5A0107	B/S	B. Suresh
15	Ch. Naveen	219Y5A0111	B/S	Ch. Naveen
16	G. Sumalatha	219Y5A0161	C/S	G. Sumalatha
17	K. Sai Kumar Naik	219Y5A0123	C/S	K. Sai Kumar
18	S. T. Yash	219Y5A0167	C/S	S. T. Yash
19	J. Vasi	219Y5A0183	C/S	J. Vasi
20	IS. Ramesh Reddy	219Y5A0110	B/S	IS. Ramesh
21	G. AVINASH	219Y5A0121	C/S	G. Avinash
22	P. Jagannathan	219Y5A0154	C/S	P. Jagannathan
23	Michenna Keshavulu	219Y5A0145	C/S	Michenna Keshavulu
24	A. Ritwik Kumar	219Y5A0162	B/S	A. Ritwik Kumar
25	N. Shiva Kishor	219Y5A0147	C/S	N. Shiva Kishor
26	K. Subhaash	219Y5A0134	C/S	K. Subhaash
27	M. Vishnu Vardhan	219Y5A0138	C/S	M. Vishnu Vardhan
28	S. Zuber	219Y5A0165	C/S	S. Zuber
29	P. Rahamathullah	219Y5A0153	C/S	P. Rahamathullah
30	M. Maddileti	219Y5A0140	C/S	M. Maddileti
31	M. Teja	219Y5A0143	C/S	M. Teja
32	M. Anandya Naik	209Y1A0149	A/S	M. Anandya Naik
33	P. Sai Chann	219Y5A0152	C/S	P. Sai Chann
34	K. Dastagiri	219Y5A0133	C/S	K. Dastagiri
35	G. Rajesh	219Y5A0119	B/S	G. Rajesh
36	M. Sreedhar	219Y5A0139	C/S	M. Sreedhar
37	N. Malleswari Devi	219Y5A0144	C/S	N. Malleswari
38	B. Mahabroobee	219Y5A0163	C/S	B. Mahabroobee

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4	M. GURULAKSHMI	219Y5A0142	C15	M. Gurulakshmi
5	M. Kiran Kumar Reddy	219Y5A0146	C15	M. Kiran
6	K. Sasirekha	219Y5A0132	C15	K. Sasirekha
7	C. Gururaja	219Y5A0117	B15	C. Gururaja
8	C. Nikhileswara Saikumar	219Y5A0112	B15	C. Nikhil
9	K. Jalpal Reddy	219Y5A0124	C15	K. Jalpal
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11	B. Nareesh	219Y5A0109	B15	B. Nareesh
12	D. Hemant Kumar	219Y5A0116	B15	D. Hemant
13	B. Suresh Naik	219Y5A0107	B15	B. Suresh
14	Ch. Naveen	219Y5A0111	B15	Ch. Naveen
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16	N. Malleswari Devi	219Y5A0149	C15	N. Malleswari
17	S. Mahabub Gee	219Y5A0163	C15	S. Mahabub
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20	S. T. Venu	219Y5A0167	C15	S. T. Venu
21	J. Vasu	219Y5A0123	C15	J. Vasu
22	T. Ramesh Reddy	219Y5A0110	B15	T. Ramesh
23	G. Anil NASHI	219Y5A0121	C15	G. Anil NASHI
24	P. Jagan Mohan	219Y5A0154	C15	P. Jagan Mohan
25	N. Shiva Kishor	219Y5A0147	C15	N. Shiva Kishor
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27	D. Mahesh	219Y5A0115	B15	D. Mahesh
28	G. Rajesh	219Y5A0119	B15	G. Rajesh
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30	P. Sai Charan	219Y5A0152	C15	P. Sai Charan
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32	M. TEJA	219Y5A0113	C15	M. TEJA
33	m. maddi leti	219Y5A0140	C15	m. maddi leti
34	K. Subhash	219Y5A0134	C15	K. Subhash
35	S. Zuber	219Y5A0165	C15	S. Zuber
36	M. Vishnu Varadhan	219Y5A0138	C15	M. Vishnu Varadhan
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5	S. Zuben	21945A01165	C/S	S. Zuben
6	M. Vishnu Vardhan	21945A01138	C/S	M. Vishnu Vardhan
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8	N. Shiva kishor	21945A01143	C/S	N. Shiva kishor
9	A. Ravi kumar	21945A01100	B/S	A. Ravi kumar
10	D. Mahesh	21945A01115	B/S	D. Mahesh
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12	P. Jagan Mohan	21945A01154	C/S	P. Jagan Mohan
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16	S. T. Yashu	21945A01167	C/S	S. T. Yashu
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18	S. Somalatha	21945A01161	C/S	S. Somalatha
19	M. SREEDHAR	21945A01129	C/S	M. SREEDHAR
20	Ch. Naveen	21945A01111	B/S	Ch. Naveen
21	N. Malleswari Devi	21945A01149	C/S	N. Malleswari Devi
22	S. Mahalakshmi	21945A01163	C/S	S. Mahalakshmi
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26	B. Munivardhan	21945A01106	B/S	B. Munivardhan
27	K. Tejal Reddy	21945A01124	C/S	K. Tejal Reddy
28	K. Sasirekha	21945A01132	C/S	K. Sasirekha
29	C. Geetha Teja	21945A01117	B/S	C. Geetha Teja
30	M. Kiran Kumar Reddy	21945A01146	C/S	M. Kiran Kumar Reddy
31	M. GURULAKSHMI	21945A01102	C/S	M. GURULAKSHMI
32	P. Sunanda	21945A01156	C/S	P. Sunanda
33	K. Lavanya	21945A01135	C/S	K. Lavanya
34	K. Sreedhars	21945A01131	C/S	K. Sreedhars
35	G. Rajesh	21945A01119	B/S	G. Rajesh
36	K. Dattasiri	21945A01132	C/S	K. Dattasiri
37	P. Sai Charan	21945A01152	C/S	P. Sai Charan
38	M. Narendar Naik	20945A01149	A/S	M. Narendar Naik

[Signature]
Coordinator

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List of Participants

Date: 20-10-2022 FN

S.NO	STUDENT NAME	Roll Number	Section	Signature
1	G. Rajesh	21945A0119	B/S	Rajesh
2	K. Dasgiri	21945A0133	C/S	K. Dasgiri
3	P. Sai Chavan	21945A0152	C/S	P. Sai Chavan
4	M. Narendga Naik	21945A0154	A/S	M. Narendga Naik
5	M. Chenna Keshavulu	21945A0148	C/S	M. Chenna Keshavulu
6	Mallu Teja	21945A0143	C/S	M. Teja
7	M. Maddileti	21945A0140	C/S	M. Maddileti
8	P. Rahemathullah Khan	21945A0153	C/S	P. Rahemathullah Khan
9	S. Zuber	21945A0165	C/S	S. Zuber
10	M. Vishnu Vardhan	21945A0138	C/S	M. Vishnu Vardhan
11	K. Subhash	21945A0134	C/S	K. Subhash
12	P. Jagannathan	21945A0154	C/S	P. Jagannathan
13	N. Shiva Kishor	21945A0147	C/S	N. Shiva Kishor
14	A. Rithwik Kumar	21945A0102	B/S	A. Rithwik Kumar
15	D. Mahesh	21945A0125	B/S	D. Mahesh
16	K. Sreekanth	21945A0131	C/S	K. Sreekanth
17	K. Laxman	21945A0135	C/S	K. Laxman
18	C. Nikileswara Sai Kumar	21945A0112	B/S	C. Nikileswara Sai Kumar
19	G. Anilash	21945A0121	C/S	G. Anilash
20	T. S. Dhanesh Reddy	21945A0116	B/S	T. S. Dhanesh Reddy
21	J. Vasu	21945A0123	C/S	J. Vasu
22	S. T. Yunnus	21945A0167	C/S	S. T. Yunnus
23	K. Sai Kumar Naik	21945A0128	C/S	K. Sai Kumar Naik
24	S. Samalatha	21945A0161	C/S	S. Samalatha
25	M. Sreedhar	21945A0139	C/S	M. Sreedhar
26	N. Malleswari Devi	21945A0149	C/S	N. Malleswari Devi
27	S. Mahabadi Bee	21945A0163	C/S	S. Mahabadi Bee
28	Ch. Anveer	21945A0111	B/S	Ch. Anveer
29	B. Suresh Naik	21945A0107	B/S	B. Suresh Naik
30	P. Hemant Kumar	21945A0116	B/S	P. Hemant Kumar
31	B. Nareesh	21945A0109	B/S	B. Nareesh
32	B. Munivardhan	21945A0106	B/S	B. Munivardhan
33	K. Faizal Reddy	21945A0126	C/S	K. Faizal Reddy
34	K. Saiaksha	21945A0132	C/S	K. Saiaksha
35	G. Gururaja	21945A0117	B/S	G. Gururaja
36	M. Kiran Kumar Reddy	21945A0146	C/S	M. Kiran Kumar Reddy
37	M. Gururaj Lakshmi	21945A0142	C/S	M. Gururaj Lakshmi
38	P. Sunanda	21945A0156	C/S	P. Sunanda

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Date: 29-10-2022 AN

S.NO	STUDENT NAME	Roll Number	Section	Signature
1	K. Sreeharva	219Y5A0131	C/S	[Signature]
2	K. Daetlagiri	219Y5A0133	C/S	[Signature]
3	P. Sunanda	219Y5A0136	C/S	[Signature]
4	K. Lavanya	219Y5A0138	C/S	[Signature]
5	M. Gurubakshmi	219Y5A0142	C/S	[Signature]
6	M. Kiran Kumar Reddy	219Y5A0146	C/S	[Signature]
7	E. GURUTEJA	219Y5A0117	B/S	[Signature]
8	K. Sasiakha	219Y5A0132	C/S	[Signature]
9	K. Jaipal Reddy	219Y5A0126	C/S	[Signature]
10	B. Munivardhan	219Y5A0126	B/S	[Signature]
11	B. Nareesh	219Y5A0109	B/S	[Signature]
12	D. Hemalatha Kumari	219Y5A0116	B/S	[Signature]
13	B. Suresh Naik	219Y5A0107	B/S	[Signature]
14	Ch. Anurag	219Y5A0111	B/S	[Signature]
15	M. SREEDHAR	219Y5A0139	C/S	[Signature]
16	N. Malleswarai Devi	219Y5A0149	C/S	[Signature]
17	S. Mahabharthi	219Y5A0153	C/S	[Signature]
18	S. Sumalatha	219Y5A0161	C/S	[Signature]
19	K. Sai Kumar Naik	219Y5A0128	C/S	[Signature]
20	S.T. Yunes	219Y5A0167	C/S	[Signature]
21	J. Vasa	219Y5A0123	C/S	[Signature]
22	R. Deepesh Reddy	219Y5A0110	B/S	[Signature]
23	G. AVINASH	219Y5A0121	C/S	[Signature]
24	P. Jagan Mohan	219Y5A0154	C/S	[Signature]
25	C. Nikiteswara Srikumar	219Y5A0112	B/S	[Signature]
26	D. Mahesh	219Y5A0115	B/S	[Signature]
27	A. Ritwik Kumar	219Y5A0102	B/S	[Signature]
28	N. Shiva Kishor	219Y5A0147	C/S	[Signature]
29	P. Saicharan	219Y5A0152	C/S	[Signature]
30	M. Nagendra Reddy	209Y5A0149	A/S	[Signature]
31	M. Chenna Keshavulu	219Y5A0145	C/S	[Signature]
32	M. Teja	219Y5A0114	B/S	[Signature]
33	m. maddileti	219Y5A0142	C/S	[Signature]
34	P. Rahemathullah Khan	219Y5A0153	C/S	[Signature]
35	S. Zuber	219Y5A0165	C/S	[Signature]
36	M. Vishnu Vardhan	219Y5A0138	C/S	[Signature]
37	K. Subhash	219Y5A0134	C/S	[Signature]
38	G. Rajesh	219Y5A0119	B/S	[Signature]

Signed
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S.NO	STUDENT NAME	Roll Number	Section	Signature
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2	K. Lavanya	21945A0135	C/S	K. Lavanya
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4	P. Sunanda	21945A0156	C/S	P. Sunanda
5	K. Sasi rekha	21945A0132	C/S	K. Sasi rekha
6	M. GURUBAKSHMI	21945A0102	C/S	M. GURUBAKSHMI
7	N. Malleswari Devi	21945A0109	C/S	N. Malleswari Devi
8	S. Mahabrook hie	21945A0163	C/S	S. Mahabrook hie
9	M. Kiran Kumar Reddy	21945A0148	C/S	M. Kiran Kumar Reddy
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11	K. Jaipal Reddy	21945A0126	C/S	K. Jaipal Reddy
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13	R. Nareesh	21945A0109	B/S	R. Nareesh
14	D. Hemnath Kumar	21945A0116	B/S	D. Hemnath Kumar
15	B. Suresh naik	21945A0107	B/S	B. Suresh naik
16	Ch. Naveen	21945A0111	B/S	Ch. Naveen
17	M. Sreedhar	21945A0139	C/S	M. Sreedhar
18	G. Nikiteswarara	21945A0112	B/S	G. Nikiteswarara
19	G. Rajesh	21945A0119	B/S	G. Rajesh
20	M. maddile /?	21945A0140	C/S	M. maddile /?
21	P. Jagar Mohan	21945A0154	C/S	P. Jagar Mohan
22	B. Ramesh Reddy	21945A0110	B/S	B. Ramesh Reddy
23	M. chenna keshavulu	21945A0145	C/S	M. chenna keshavulu
24	G. AVINASH	21945A0121	C/S	G. AVINASH
25	K. Sai Kumar naik	21945A0128	C/S	K. Sai Kumar naik
26	C. Sumalatha	21945A0164	C/S	C. Sumalatha
27	P. Rameethullah Khan	21945A0153	C/S	P. Rameethullah Khan
28	M. Vishnu Vardhan	21945A0138	C/S	M. Vishnu Vardhan
29	S. T. YUNUS	21945A0167	C/S	S. T. YUNUS
30	K. DASTAGIRI	21945A0137	C/S	K. DASTAGIRI
31	A. RAJIV Kumar	21945A0102	B/S	A. RAJIV Kumar
32	D. Mahesh	21945A0115	B/S	D. Mahesh
33	N. Shiva Kishor	21945A0147	C/S	N. Shiva Kishor
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35	S. Zubey	21945A0165	C/S	S. Zubey

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ACTIVITY REPORT

Certification Course

On

"Architectural Modeling using REVIT"

Target Group : V SEM Students
Details of Participants : 38 Students
Co-Ordinator(s) : Sri. K. Pramod and Miss V Sai Neeraja
Organizing Department : Civil Engineering
Venue : CRI Lab

KSRM
COLLEGE OF ENGINEERING
(UCC-AUTONOMOUS)
Kadapa, Andhra Pradesh, India - 516 003
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
DEPARTMENT OF CIVIL ENGINEERING

under the governance of APSSDC in association with CRI, KSRMCE

One week certification course
on

**Architectural Modeling using
REVIT**

Resource person
Miss M Pravallika
Technical Skill Trainer
APSSDC Team, Govt., of AP

Coordinator: Sri K Pramod, Asst. Professor, Dept. of CE
Co-coordinator: Miss V Sai Neeraja, Asst. Professor, Dept. of CE

CRI Lab
Starts: 17-10-2022
09.00 AM - 04.00 PM

Dr. B. Anandarama Reddy
HOD

Prof. V. S. Srinivas
Principal

Dr. K. S. Srinivas
Management Director

Dr. K. Srinivas
Correspondent Secretary

Sri K. Madan Mohan Reddy
Vice Chairman

Sri K. Madan Mohan Reddy
Chairman

Poster of the Event: One Week Certification Course on "Architectural Modeling using REVIT"

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REPORT

Speaker: Miss. M. Pravalika, Technical Skill Trainer, APSSDC Team

The importance of Certification Course on REVIT: REVIT is a BIM tool developed by Autodesk used for special Designs, Modelling, Visualization, and Documentation. BIM (Building Information Modelling) is a process to plan, design, construct and manage a project based on the intelligent prototype developed to advanced constructions and coordination through the modelling during the project lifecycle. The present certification course was arranged to enhance the knowledge on Auto Desk REVIT software to students and give exposure from skilled trainers.

The theme of the Certification Course:

The main theme of this certification course is to expose the scope of REVIT to students and to enhance their knowledge.

The sequence of the Certification course :

The Certification course was arranged by Department of Civil Engineering for the B.Tech. V Semester students. The venue was CRI lab, PG Block, KSRMCE. The course was planned for six days from 17th to 22nd October, 2022. Each day Certification course was organized as two sessions, morning session from 9 AM to 12 PM and Evening session from 1 PM to 4 PM. All the sessions were hosted by Dr. Amaranatha Reddy (HOD), Sri. K. Pramod and Miss V Sai Neeraja. A total of 38 students of Department of Civil Engineering were actively participated in the Certification course.

Welcome speech:

Sri. K. Pramod (Coordinator of the event), Assistant Professor, Department of Civil Engineering, KSRMCE expressed a very warm welcome to the HOD, Resource person and students of the Civil Engineering Department. Then the coordinator introduced the resource person to the gathering; the brief of their education and professional experiences was read for the audience.

HOD's words:

Dr. N. Amaranath Reddy, HOD & Associate Professor of the Dept. of Civil Engineering, KSRMCE addressed the gathering by welcoming the Resource Person to the event. HOD remembered the association with Technical skill Trainer Miss M. Pravalika. HOD shared about the dedication towards work and capabilities of Trainer as his students and how they evolved to stand in this position by continuous improvement.



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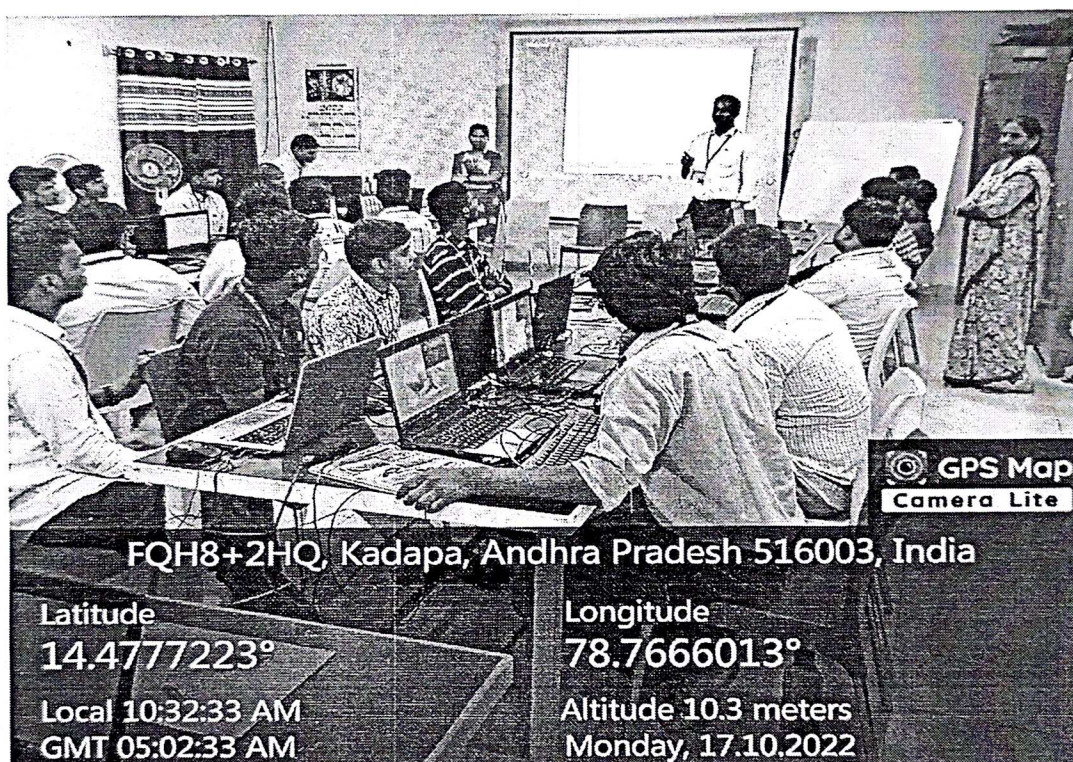


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The detailed contents of the Certification Course:

Session 1 (9 AM to 12 PM, 17th October, 2022):

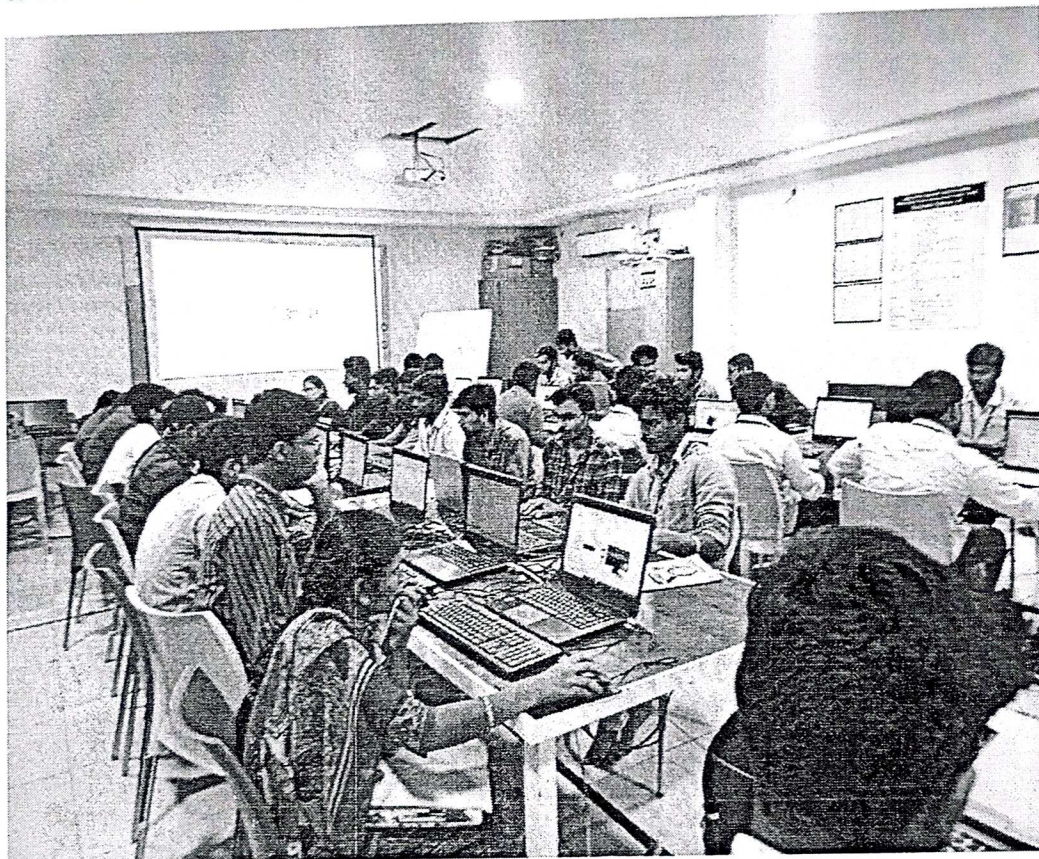
The Trainer explained the six days plan of action of this Certification course as per given schedule. Session one majorly concentrated on origin of BIM Tools and its evolution. It covered the importance of REVIT in various engineering fields such as planning, designing and 3D Modelling. This session gave brief idea on other design software's which supports the REVIT user interface. The session also covered the introduction of other design such as Autodesk Software's, Sketch Up, 3D max, Staad-pro, ETABs, etc. and their importance & limitations in specific areas. The trainer explained about the basics of engineering drawings which are essential before going to draw any work in REVIT. The trainer explained Introduction to Building Information Modelling, REVIT Architecture and BIM Tools etc. The trainer explained types of files in REVIT, uses and applications of REVIT Architecture in now days whether planning or in 3D Modelling. The session ended with the Explanation installing software, user interface, BIM dimensions, and types of files in REVIT and setting of units



Explanation about user interface, setting of units and practicing by students

Session 2(1 PM to 4 PM, 17th October, 2022):

Session 2 started with explanation on basic tools in REVIT user interface. Selection of Projects and families was explained by Trainer. The basic drawing tools in Architecture menu like walls, windows, components, roof, ceiling, floor, curtain system, curtain grid, railing, ramp, stair case arc etc. The trainer explained the operation of same tools. The Trainer explained the process of setting limits , elevation height and property pallet. General home plan was taken for drawing the plan. This session explained about how to do overall architectural modeling with REVIT Architecture. The session was ended by the trainer assigning the task to students whatever the content delivered on this day.

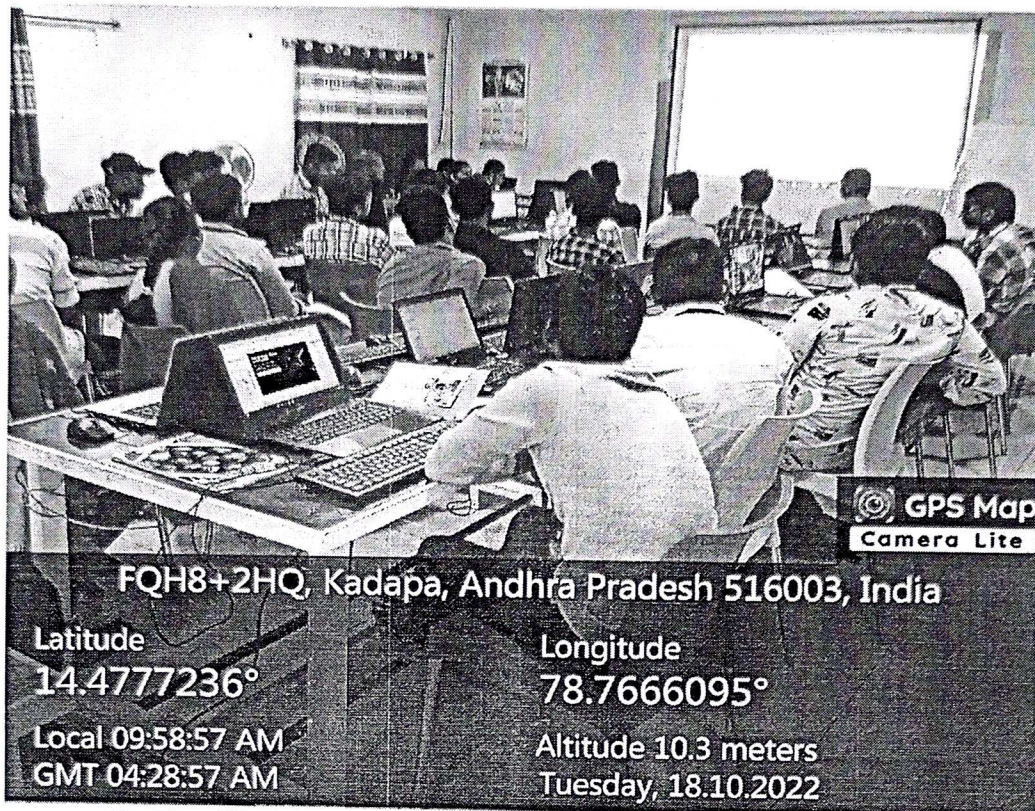


Practice on user interface, setting of units and other tools in REVIT Architecture

Session 3 (9 AM to 12 PM, 18th October, 2022):

The session started with the discussion on previous session. The trainer clarified the doubts on previous session asked by the students. This session is mainly concentrated on drawing of walls in REVIT Architecture. In this session trainer explained about walls , types of walls, thickness of need to be taken while placing in

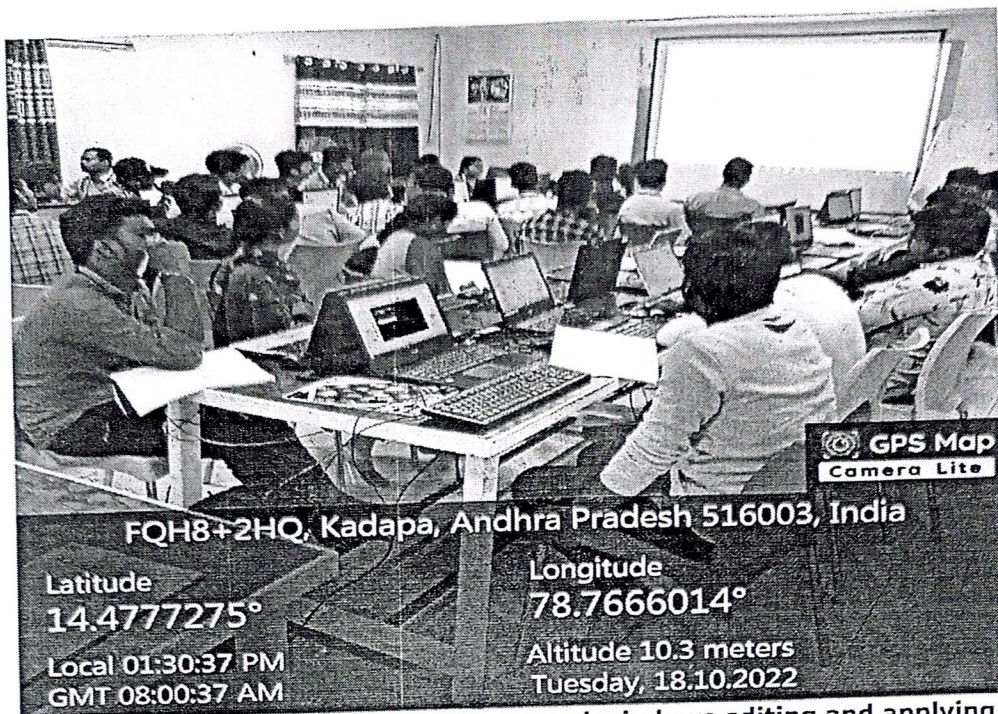
the sense drawing and creating different thickness of walls. In addition that adding of plastering to the walls was explained. After this the students are practised whatever the trainer explained as the taken plan. This session explained about placing walls, editing walls and practicing is done by students using the above mentioned commands and shortcuts.



Explanation on Placing walls and Editing walls by the Trainers
Practicing by students on drawing walls, editing walls and applying plastering.

Session 4 (1 AM to 4 PM, 18th October, 2022):

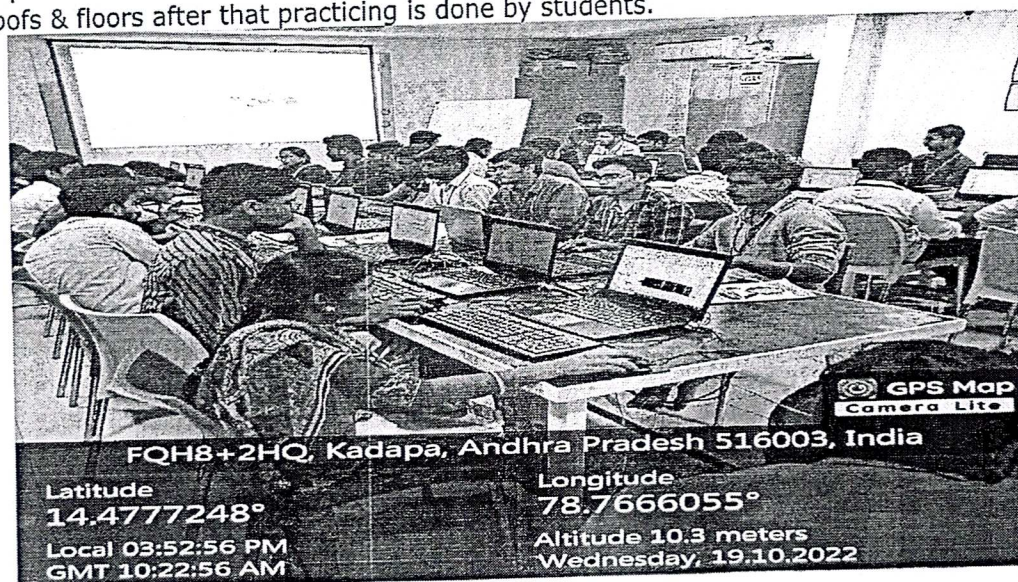
The session started with revision of previous session. The trainer clarified the doubts on previous session asked by the students. This session is mainly concentrated on drawing of walls in REVIT Architecture. In this session trainer explained about Doors and windows, placing doors and windows. Next topic Properties Palette in this type selector, type parameters, instance Parameters was explained. After this the students are practised whatever the trainer explained as the taken plan. This session explained about Doors, windows and palette and practicing is done by students whatever the trainer was explained.







Practicing by students on Doors and windows editing and applying

Session 5 (9 AM to 12 PM, 19th October, 2022):

The session started by explanation of modify tools, placing roof , types of roofs , floor and type of floors to be taken while drawing the plan as per given planning of building and creating 3D Model for drawn plan . In addition that modifying of roofs and floors was explained. After this the students are practised whatever the trainer explained as the taken plan. This session was completely about modifying the tools, roofs & floors after that practicing is done by students.

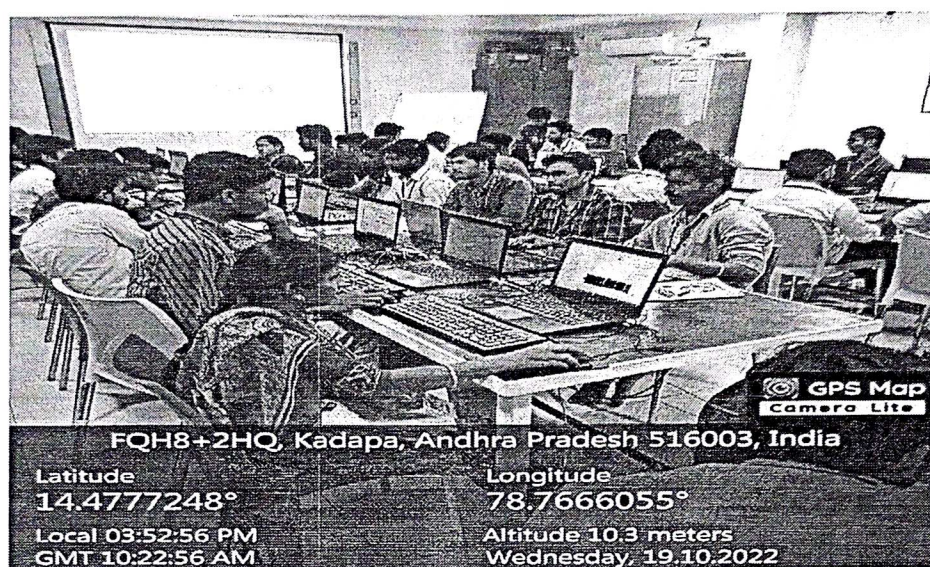


Practicing by students on Roof & floor editing and applying

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Session 6 (1 AM to 4 PM, 19th October, 2022):

The session started with revision of previous session. The trainer clarified the doubts on previous session asked by the students. This session is mainly concentrated on ceiling, how to activate ceiling plan for different floor levels. In this session trainer explained about curtain walls, creating section views for partition purpose. Next topic different types of opening in the plan were explained. After this the students are practised whatever the trainer explained as the taken plan. The today whole session ended with revision of modify tools, roofs, floors, ceiling, curtain walls, section views and different types of openings as per the planning of building and practicing is done by students whatever the trainer was explained.

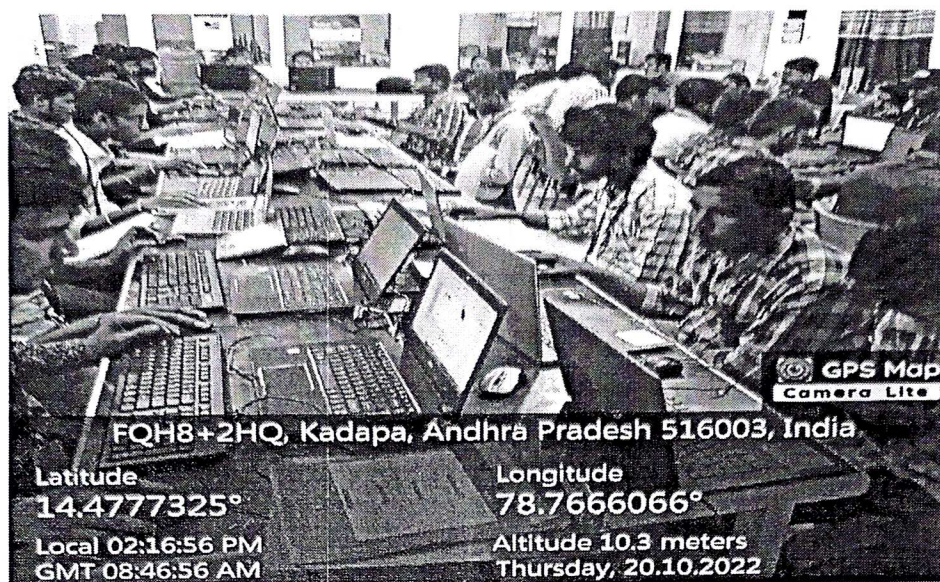
**Practicing on activate ceiling plan for different floor levels****Session 7 (9 AM to 12 PM, 20th October, 2022):**

The session started by explanation stair case while drawing the plan as per given planning of building and creating 3D Model for drawn plan. In addition that modifying of ramp and railing was explained. Placing of stair case in the floor plan as per runners or by face was explained. Practicing stair case, ramp with slope and railing for different floor levels with 3D elevation are done as per the schedule. This session was ended with explanation of stair case, ramp and railing after that practicing is done by students.



Session 8 (1 AM to 4 PM, 20th October, 2022):

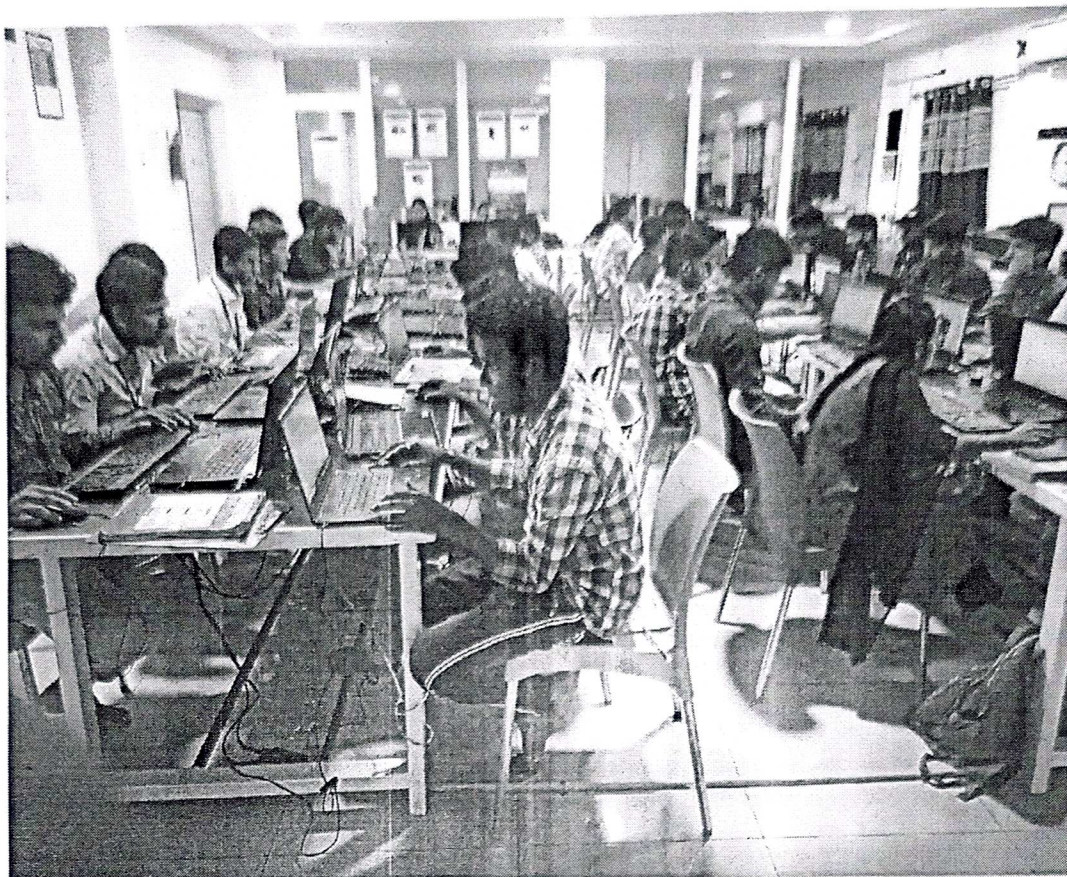
The session started with revision of previous session. The trainer clarified the doubts on previous session asked by the students. This session is mainly concentrated on Annotations and Model Text. In this session trainer explained about placing of model text in necessary place and annotations were explained. After this the students are practised whatever the trainer explained as the taken plan. Today whole session ended with revision of Stair case, ramp, railing, Annotations and Model Text as per the planning of building and practicing is done by students whatever the trainer was explained.



Revision of Stair case, ramp, railing , Annotations and Model Text

Session 9 (9 AM to 12 PM, 21th October, 2022):

This session concentrated on revision of all the contents which are practiced in previous session. And also concentrated on new topics which are 3 – D Views in this subtopics Camera views, Rendering and walkthroughs. As per the request from student's side, the vasthu was explained by the trainer in this session. At the end of the session 3D views are practiced by the studentsfor drawn plan.

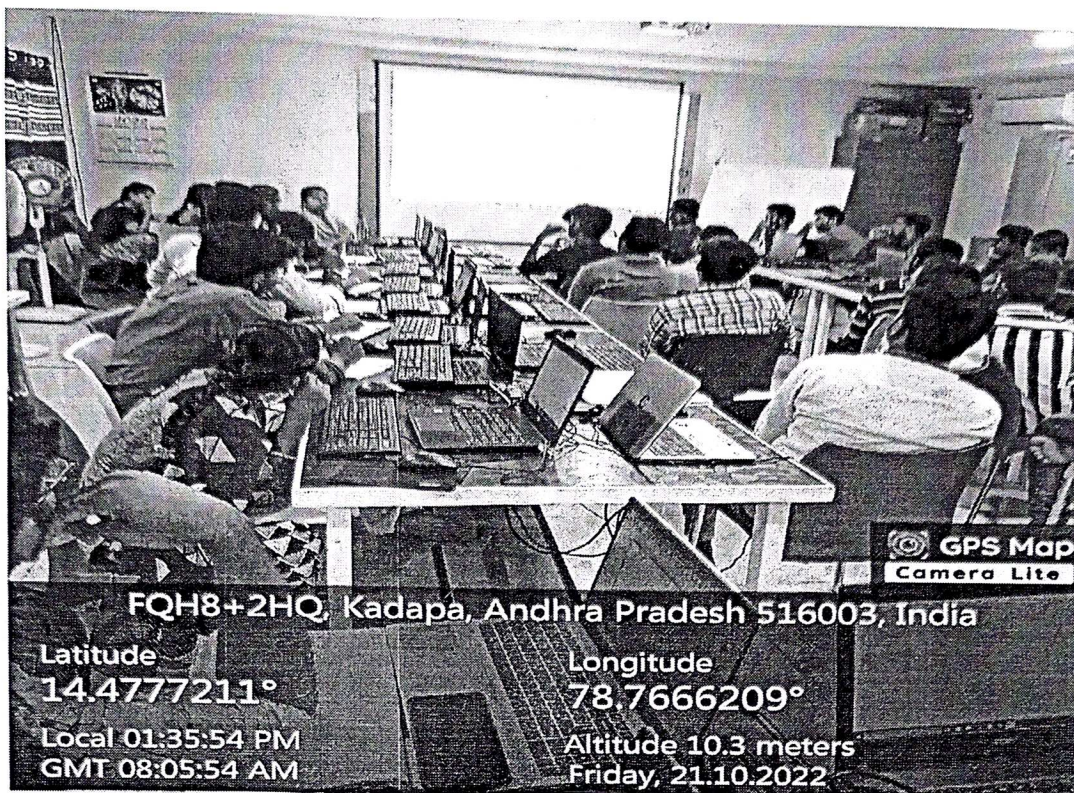


Explanation on Vasthu and its implimentation

Session 10 (1 AM to 4 PM, 21th October, 2022):

The session started with revision of previous session. The trainer clarified the doubts on previous session asked by the students. This session is mainly concentrated on Paint, Creating New Materials and massing & site. In this session trainer explained more about creating new colours, applying different type's colours as paints. The session was ending with students practice.

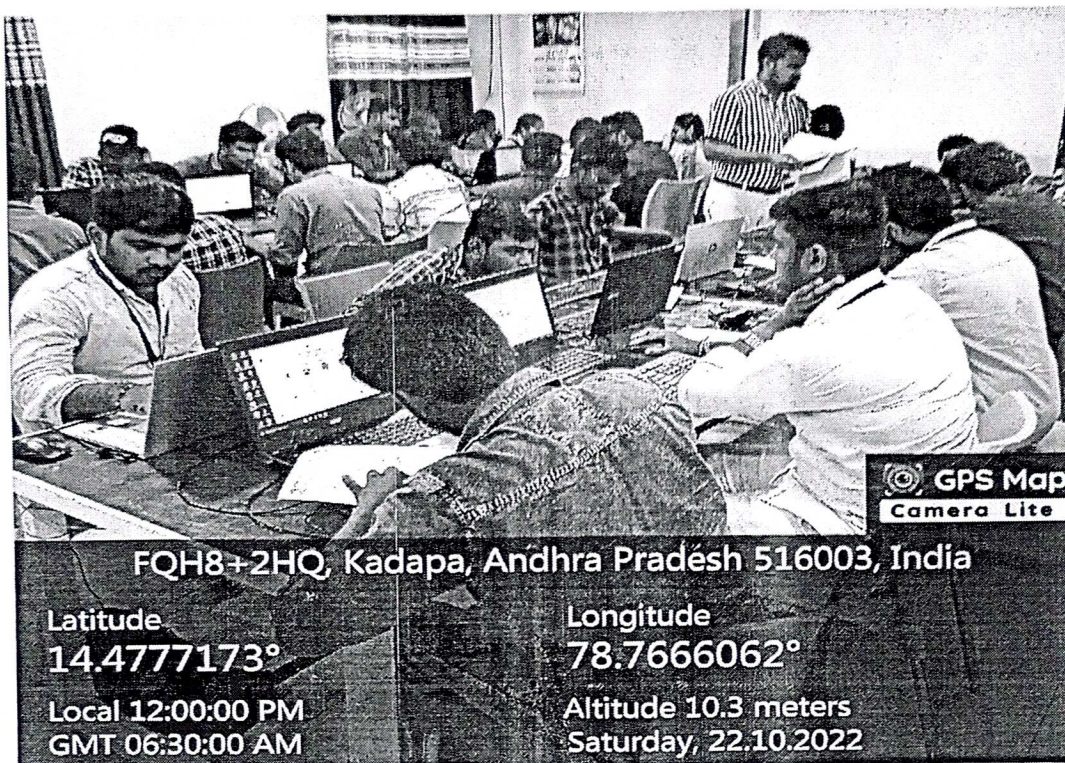




Creating new colours, applying different type's colours as paints

Session 11 (9 AM to 12 PM, 22th October, 2022):

This session concentrated on revision of all the contents which are practiced in previous session. And also concentrated on new topics Schedules, page layout. Schedule and quantities of different categories for REVIT Architecture is explained in detail was explained by trainers. At the end of the session different types of drawings were shared to students which can be drawn using REVIT.



Explanation on Schedules, page layout

Session 12 (1 AM to 4 PM, 22th October, 2022):

The final session of the certification course summarized and used all the tolls explained in past five days of this certification course to draw a building plan and 3D Model Elevation. The Trainer explained how to do documentation and project submission. The session ended by interacting with students and asking about the past five days experience.



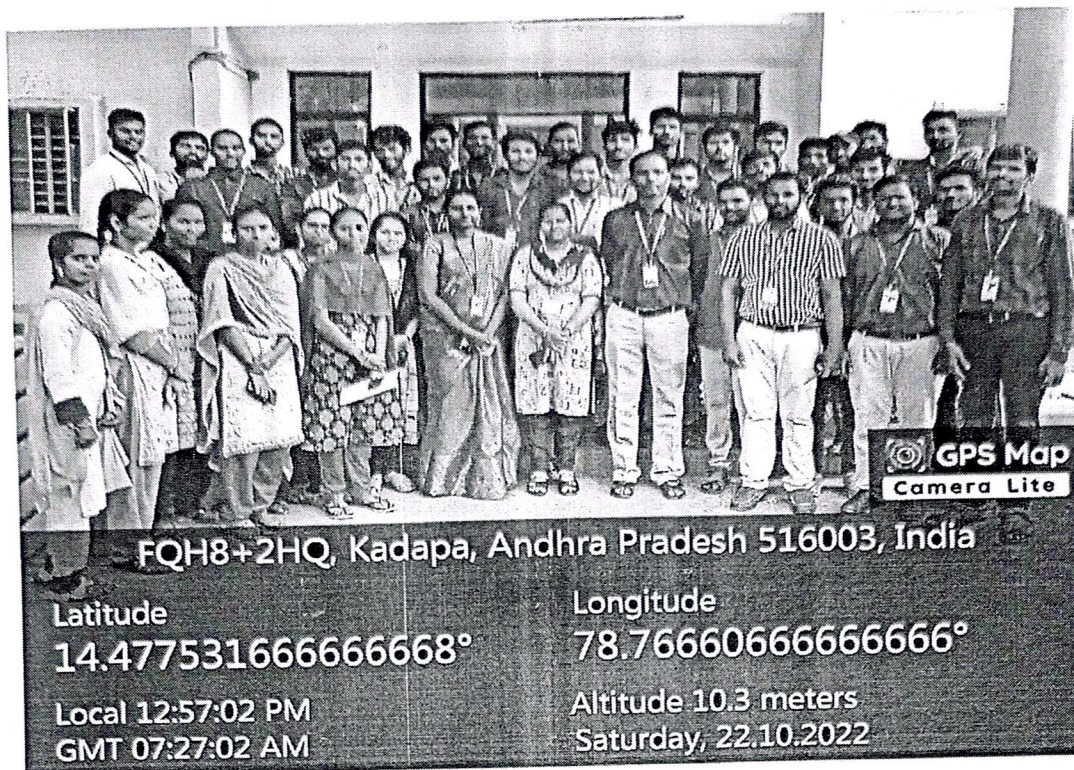
Students Sharing their Experience

HOD's words at end of the Event:

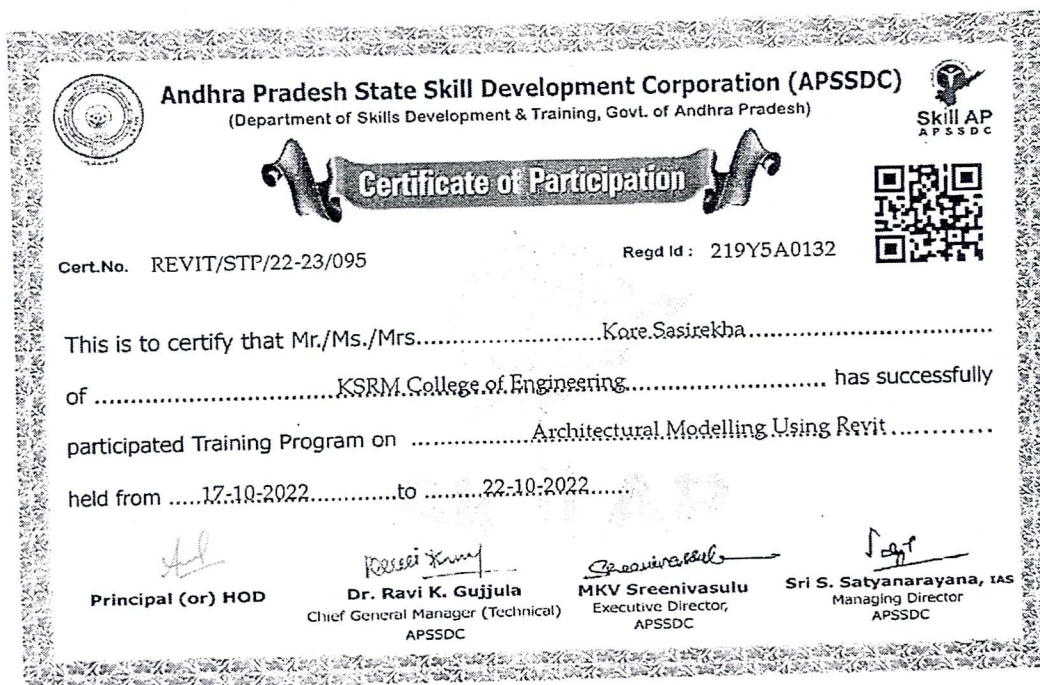
At the end of the workshop, Dr. N. Amaranatha Reddy, HOD, Dept. of Civil Engineering, KSRMCE expressed his regard to the speakers for sharing his knowledge with the students. HOD wished the trainer to conduct more courses like this in future.

Vote of thanks:

Sri. K. Pramod (Coordinator of the event) delivered vote of thanks by thanking the students for their participation, faculty members for their active participation, HOD for giving the opportunity to conduct such events and organization of KSRMCE for encouraging conducting such events.



Group photo



Certificate of Participation





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
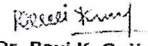
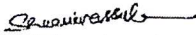
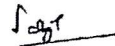
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(Department of Skills Development & Training, Govt. of Andhra Pradesh)

 **Certificate of Participation**


Cert.No. REVIT/STP/22-23/115 Regd Id : 219Y5A0167 

This is to certify that Mr./Ms./Mrs.....Shaik.Thakkalla.Yunus.....
ofKSRM.College.of.Engineering..... has successfully
participated Training Program onArchitectural.Modelling.Using.Revit.....
held from17-10-2022.....to22-10-2022.....

 **Principal (or) HOD**
 **Dr. Ravi K. Gujjula**
Chief General Manager (Technical)
APSSDC
 **MKV Sreenivasulu**
Executive Director,
APSSDC
 **Sri S. Satyanarayana, IAS**
Managing Director
APSSDC

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K.S.R.M. College of Engineering
(Autonomous)
KADAPA 516 003. (A.P.)



Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)



Cert.No. REVIT/STP/22-23/079

Regd Id : 219Y5A0102

This is to certify that Mr./Ms./Mrs.....A.Ritwik Kumar.....
ofKSRM College of Engineering..... has successfully
participated Training Program onArchitectural Modelling Using Revit.....
held from17-10-2022.....to22-10-2022.....

Principal (or) HOD

Dr. Ravi K. Gujjula

Chief General Manager (Technical)
APSSDC

MKV Sreenivasulu

Executive Director,
APSSDC

Sri S. Satyanarayana, IAS

Managing Director
APSSDC



Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)



Cert.No. REVIT/STP/22-23/093

Regd Id : 219Y5A0128

This is to certify that Mr./Ms./Mrs.....Karamthod Sai Kumar Naik.....
ofKSRM College of Engineering..... has successfully
participated Training Program onArchitectural Modelling Using Revit.....
held from17-10-2022.....to22-10-2022.....

Principal (or) HOD

Dr. Ravi K. Gujjula

Chief General Manager (Technical)
APSSDC

MKV Sreenivasulu

Executive Director,
APSSDC

Sri S. Satyanarayana, IAS

Managing Director
APSSDC



Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)



Cert.No. REVIT/STP/22-23/078

Regd Id : 209Y1A0149

This is to certify that Mr./Ms./Mrs..... Mude Narendra Naik.....
of KSRM College of Engineering has successfully
participated Training Program on Architectural Modelling Using Revit
held from 17-10-2022 to 22-10-2022

Principal (or) HOD

Dr. Ravi K. Gujjula

Chief General Manager (Technical)
APSSDC

MKV Sreenivasulu

Executive Director,
APSSDC

Sri S. Satyanarayana, IAS

Managing Director
APSSDC



K.S.R.M. COLLEGE OF ENGINEERING (UGC-AUTONOMOUS)

Kudapa, Andhra Pradesh, India - 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram

An ISO 14001:2004 & 9001: 2015 Certified Institution

DEPARTMENT OF CIVIL ENGINEERING

Certificate course Feedback Form



KSNR
Kudapa, AP

Your feedback is crucial to ensure we meet your educational needs. We would appreciate it if you could take a few minutes to share your opinions with us so we can serve you better.

Course Title : Revit Architecture
Resource Person(s) : M. Pravalika
Date(s) of the course : 17-10-2022 to 22-10-2022
Name of the Student : P. Sai Charan
Roll No. : 219Y5A0152

S. No.	Item Description	RATING (Please Tick the relevant)		
		LOW	MODERATE	HIGH
1	The content was Clear & Understandable			✓
2	The program was well-paced within the allotted time			✓
3	The instructor was a good communicator			✓
4	The material was presented in an organized manner			✓
5	The instructor was knowledgeable about the topic			✓
6	I would be interested in attending a follow-up, more advanced workshop on this same subject/any other			✓
7	Given the topic, was this workshop	Too Short	Right Length	Too Long
8	In your opinion, was this workshop	Introductory	Intermediate	Advanced
	Please Rate the following	LOW	MODERATE	HIGH
	a) Visuals			✓
	b) Acoustics		✓	
	c) Meeting space/Venue			✓
	d) Handouts		✓	✓
	e) The Overall Program		✓	✓
9	What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?	It is a good course.		

Please return this form to the instructor or organizer at the end of the course. Thank you.

P. Sai Charan
Signature of the Student



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DEPARTMENT OF CIVIL ENGINEERING

Certificate course Feedback Form



KSNR
Kadapa

Your feedback is crucial to ensure we meet your educational needs. We would appreciate it if you could take a few minutes to share your opinions with us so we can serve you better.

Course Title : Revit Architecture
Resource Person(s) : M. Praveena
Date(s) of the course : 17-10/2022 / 22-10-2022
Name of the Student : M. Narendra Naik
Roll No. : 20741A0149

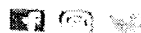
S. No.	Item Description	RATING (Please Tick the relevant)		
		LOW	MODERATE	HIGH
1	The content was Clear & Understandable		✓	
2	The program was well-paced within the allotted time			✓
3	The instructor was a good communicator			✓
4	The material was presented in an organized manner		✓	
5	The instructor was knowledgeable about the topic			✓
6	I would be interested in attending a follow-up, more advanced workshop on this same subject/any other			✓
7	Given the topic, was this workshop	Too Short	Right Length	Too Long
8	In your opinion, was this workshop	Introductory	Intermediate	Advanced
	Please Rate the following	LOW	MODERATE	HIGH
	a) Visuals		✓	
	b) Acoustics			
	c) Meeting space/Venue		✓	✓
	d) Handouts		✓	
	e) The Overall Program			✓
9	What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?	Revit is a good course.		

Please return this form to the instructor or organizer at the end of the course. Thank you.

M. Narendra Naik
Signature of the Student

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DEPARTMENT OF CIVIL ENGINEERING



Certificate course Feedback Form

Your feedback is crucial to ensure we meet your educational needs. We would appreciate it if you could take a few minutes to share your opinions with us so we can serve you better.

Course Title : Revit Architecture
Resource Person(s) : M. Pravalika
Date(s) of the course : 17/10/22 to 22/10/22
Name of the Student : K-Saijitha
Roll No. : 219V5A0132

S. No.	Item Description	RATING (Please Tick the relevant)		
		LOW	MODERATE	HIGH
1	The content was Clear & Understandable			✓
2	The program was well-paced within the allotted time			✓
3	The instructor was a good communicator			✓
4	The material was presented in an organized manner		✓	
5	The instructor was knowledgeable about the topic			✓
6	I would be interested in attending a follow-up, more advanced workshop on this same subject/any other			✓
7	Given the topic, was this workshop	Too Short	Right Length ✓	Too Long
8	In your opinion, was this workshop	Introductory	Intermediate ✓	Advanced
	Please Rate the following	LOW	MODERATE	HIGH
	a) Visuals			✓
	b) Acoustics			✓
	c) Meeting space/Venue			✓
	d) Handouts		✓	
	e) The Overall Program		✓	
9	What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?	Use No suggestion		

Please return this form to the instructor or organizer at the end of the course. Thank you.


K-Saijitha
Signature of the Student

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF CIVIL ENGINEERING
Certificate Course on Architectural Modelling Using Revit
Marks Award List

S.No	Roll Number	Name of the Student	Marks Obtained
1	209Y1A0149	Mude Narendranaik	18
2	219Y5A0102	Alli Ritwik Kumar	19
3	219Y5A0106	Bandaru Munivardhan	17
4	219Y5A0109	Bollu Naresh	18
5	219Y5A0110	Bommireddy Roopesh Reddy	19
6	219Y5A0111	Challa Naveen	12
7	219Y5A0112	Challagundla Nikileswara Sai Kumar	15
8	219Y5A0114	Chinthakuntla Narendra Reddy	15
9	219Y5A0115	Dampetla Mahesh	17
10	219Y5A0116	Derangula Hemanth Kumar	16
11	219Y5A0117	Enapati Guru Teja	13
12	219Y5A0117	Enapati Guru Teja	16
13	219Y5A0121	Gogula Avinash	11
14	219Y5A0123	Jaripiti Vasu	18
15	219Y5A0126	Kamireddy Jaipal Reddy	14
16	219Y5A0128	Karamthod Sai Kumar Naik	19
17	219Y5A0131	Koppu Sree Kavya	4
18	219Y5A0132	Kore Sasirekha	18
19	219Y5A0133	Kummari Dastagiri	12
20	219Y5A0134	Kunchapu Subhash	17
21	219Y5A0135	Kuruba Lavanya	17
22	219Y5A0138	Madhallapalle Vishnu Vardhan	16
23	219Y5A0139	Madhavaram Sreedhar	19
24	219Y5A0140	Mala Maddileti	15
25	219Y5A0142	Malishetty Guru Lakshmi	16
26	219Y5A0143	Mallu Teja	19

27	219Y5A0145	Mekala Chennakeshavulu	18
28	219Y5A0146	Muthuru Kiran Kumar Reddy	9
29	219Y5A0147	Nallabothula Shiva Kishor	11
30	219Y5A0149	Nare Malleswaridevi	15
31	219Y5A0152	Pasupuleti Sai Charan	18
32	219Y5A0153	Pathan Rahamathullah Khan	18
33	219Y5A0154	Patte Jaganmohan	18
34	219Y5A0156	Poreddy Sunanda	11
35	219Y5A0161	Sandrapalli Venkata Sumalatha	15
36	219Y5A0163	Shaik Mahaboob Bee	18
37	219Y5A0165	Shaik Mohammed Zuber	19
38	219Y5A0167	Shaik Thakkalla Yunus	15


Coordinator


Head
Department of Civil Engineering
K.S.R.M. College of Engineering
(Autonomous)
KADAPA - 516 003. (A.P.)

18/20

**K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF CIVIL ENGINEERING**

**Certificate Course on Architectural Modelling Using Revit
Assessment Test**

Name of the Student: M. Narandranai Reg. Number: 20941040149

Time: 20 Min (Objective Questions) Max. Marks: 20

Note: Answer the following Questions and each question carries **one** mark.

1	What is Revit primarily used for in the field of architecture?				[D]
	A) 2D drafting	B) 3D gaming	C) Spreadsheet calculations	D) Building information modeling (BIM)	
2	In Revit, what is a "Family"?				[D]
	A) Group of architects working together	B) A representation of a building	C) A type of 3D visualization	D) A parametric building component	
3	What does "BIM" stand for in the context of architectural software?				[B]
	A) Basic Imaging Model	B) Building Information Modeling	C) Beautiful Illustration Method	D) Blueprint Information Management	
4	What is the purpose of "Levels" in Revit?				[C]
	A) To define the number of floors in a building	B) To set the building's structural load	C) To define horizontal planes in a building	D) To control the lighting in a room	
5	What does the term "Parametric" mean in the context of Revit?				[A] X
	A) A type of architectural style	B) The process of creating visual effects	C) A modeling technique without constraints	D) Design elements that are driven by relationships and rules	
6	Which Revit tool is used for creating walls, doors, windows, and other building elements?				[D]
	A) Sketch tool	B) Paintbrush tool	C) Line tool	D) Create tool	
7	In Revit, what is a "View" used for?				[C]
	A) Changing the color scheme of the model	B) Exporting the model to other software	C) Displaying a specific portion of the model	D) Generating cost estimates for construction	
8	What is the purpose of "Families" in Revit?				[D]
	A) To represent groups of architects	B) To organize project files	C) To manage project schedules	D) To define reusable building components	
9	Which feature in Revit helps ensure that changes made in one view are automatically reflected in all related views?				[A]
	A) View Templates	B) Styles	C) Filters	D) Renderings	
10	Which Revit tool allows you to create 3D models by extruding 2D shapes?				[A]

	A) Extrude tool	B) Convert tool	C) Build tool	D) Extend tool	
11	What is a "Sheet" in Revit used for?				
	A) A virtual workspace for collaborating	B) A tool for sketching rough ideas	C) A printed or digital representation of a drawing	D) A tool for managing building components	[A]
12	What is the primary purpose of using "Tags" in Revit?				
	A) To label elements in a drawing	B) To create 3D models	C) To apply textures to surfaces	D) To generate construction schedules	[A]
13	What is the purpose of the "Project Browser" in Revit?				
	A) To browse the internet for design inspiration	B) To access project management software	C) To manage project files and views	D) To connect to cloud storage services	[C]
14	What does the "Render" tool in Revit allow you to do?				
	A) Organize project files	B) Export models to other formats	C) Create visualizations of the building's appearance	D) Generate cost estimates for construction	[C]
15	In Revit, what is a "Curtain Wall"?				
	A) A wall with curtains for privacy	B) A type of window treatment	C) A decorative architectural element	D) An exterior wall system with glass panels	[D]
16	How can you adjust the visibility of objects in different views using Revit's "Visibility Graphics" tool?				
	A) By resizing objects	B) By changing the materials of objects	C) By controlling the visibility of categories and elements	D) By creating new objects	[C]
17	Which tool in Revit is used for creating a 3D view of the building's exterior?				
	A) Elevation tool	B) Section tool	C) Floor Plan tool	D) Perspective tool	[A]
18	What is the purpose of "Worksets" in a collaborative Revit environment?				
	A) To create backups of project files	B) To manage project schedules	C) To organize project teams	D) To enable multiple users to work on different parts of the project simultaneously	[D]
19	Which Revit feature allows you to adjust the materials and finishes of building components?				
	A) Material Library	B) Material Painter	C) Color Picker	D) Texture Tool	[B]
20	How can you add dimensions and annotations to a drawing in Revit?				
	A) Using the Text tool	B) Using the Line tool	C) Using the Dimension tool	D) Using the Paint tool	[C]

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K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003

DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on Architectural Modelling Using Revit

Assessment Test

Name of the Student: B. Ramesh Reddy Reg. Number: 219Y5A0110

Time: 20 Min

(Objective Questions)

Max. Marks: 20

Note: Answer the following Questions and each question carries **one** mark.

1	What is Revit primarily used for in the field of architecture?				[D] ✓
	A) 2D drafting	B) 3D gaming	C) Spreadsheet calculations	D) Building information modeling (BIM)	
2	In Revit, what is a "Family"?				[D] ✓
	A) Group of architects working together	B) A representation of a building	C) A type of 3D visualization	D) A parametric building component	
3	What does "BIM" stand for in the context of architectural software?				[B] ✓
	A) Basic Imaging Model	B) Building Information Modeling	C) Beautiful Illustration Method	D) Blueprint Information Management	
4	What is the purpose of "Levels" in Revit?				[C] ✓
	A) To define the number of floors in a building	B) To set the building's structural load	C) To define horizontal planes in a building	D) To control the lighting in a room	
5	What does the term "Parametric" mean in the context of Revit?				[A] ✓
	A) A type of architectural style	B) The process of creating visual effects	C) A modeling technique without constraints	D) Design elements that are driven by relationships and rules	
6	Which Revit tool is used for creating walls, doors, windows, and other building elements?				[D] ✓
	A) Sketch tool	B) Paintbrush tool	C) Line tool	D) Create tool	
7	In Revit, what is a "View" used for?				[C] ✓
	A) Changing the color scheme of the model	B) Exporting the model to other software	C) Displaying a specific portion of the model	D) Generating cost estimates for construction	
8	What is the purpose of "Families" in Revit?				[D] ✓
	A) To represent groups of architects	B) To organize project files	C) To manage project schedules	D) To define reusable building components	
9	Which feature in Revit helps ensure that changes made in one view are automatically reflected in all related views?				[A] ✓
	A) View Templates	B) Styles	C) Filters	D) Renderings	
10	Which Revit tool allows you to create 3D models by extruding 2D shapes?				[B] ✓

	A) Extrude tool	B) Convert tool	C) Build tool	D) Extend tool	
11	What is a "Sheet" in Revit used for?				
	A) A virtual workspace for collaborating	B) A tool for sketching rough ideas	C) A printed or digital representation of a drawing	D) A tool for managing building components	[C] ✓
12	What is the primary purpose of using "Tags" in Revit?				
	A) To label elements in a drawing	B) To create 3D models	C) To apply textures to surfaces	D) To generate construction schedules	[A] ✓
13	What is the purpose of the "Project Browser" in Revit?				
	A) To browse the internet for design inspiration	B) To access project management software	C) To manage project files and views	D) To connect to cloud storage services	[C] ✓
14	What does the "Render" tool in Revit allow you to do?				
	A) Organize project files	B) Export models to other formats	C) Create visualizations of the building's appearance	D) Generate cost estimates for construction	[C] ✓
15	In Revit, what is a "Curtain Wall"?				
	A) A wall with curtains for privacy	B) A type of window treatment	C) A decorative architectural element	D) An exterior wall system with glass panels	[D] ✓
16	How can you adjust the visibility of objects in different views using Revit's "Visibility Graphics" tool?				
	A) By resizing objects	B) By changing the materials of objects	C) By controlling the visibility of categories and elements	D) By creating new objects	[C] ✓
17	Which tool in Revit is used for creating a 3D view of the building's exterior?				
	A) Elevation tool	B) Section tool	C) Floor Plan tool	D) Perspective tool	[A] ✓
18	What is the purpose of "Worksets" in a collaborative Revit environment?				
	A) To create backups of project files	B) To manage project schedules	C) To organize project teams	D) To enable multiple users to work on different parts of the project simultaneously	[D] ✓
19	Which Revit feature allows you to adjust the materials and finishes of building components?				
	A) Material Library	B) Material Painter	C) Color Picker	D) Texture Tool	[B] ✓
20	How can you add dimensions and annotations to a drawing in Revit?				
	A) Using the Text tool	B) Using the Line tool	C) Using the Dimension tool	D) Using the Paint tool	[C] ✓

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K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on Architectural Modelling Using Revit
Assessment Test

Name of the Student: 21945A0109 Reg. Number: B. Naveen

Time: 20 Min

(Objective Questions)

Max. Marks: 20

Note: Answer the following Questions and each question carries **one** mark.

1	What is Revit primarily used for in the field of architecture?				[D] ✓
	A) 2D drafting	B) 3D gaming	C) Spreadsheet calculations	D) Building information modeling (BIM)	
2	In Revit, what is a "Family"?				[D] ✓
	A) Group of architects working together	B) A representation of a building	C) A type of 3D visualization	D) A parametric building component	
3	What does "BIM" stand for in the context of architectural software?				[B] ✓
	A) Basic Imaging Model	B) Building Information Modeling	C) Beautiful Illustration Method	D) Blueprint Information Management	
4	What is the purpose of "Levels" in Revit?				[C] ✓
	A) To define the number of floors in a building	B) To set the building's structural load	C) To define horizontal planes in a building	D) To control the lighting in a room	
5	What does the term "Parametric" mean in the context of Revit?				[D] ✓
	A) A type of architectural style	B) The process of creating visual effects	C) A modeling technique without constraints	D) Design elements that are driven by relationships and rules	
6	Which Revit tool is used for creating walls, doors, windows, and other building elements?				[D] ✓
	A) Sketch tool	B) Paintbrush tool	C) Line tool	D) Create tool	
7	In Revit, what is a "View" used for?				[D] ✓
	A) Changing the color scheme of the model	B) Exporting the model to other software	C) Displaying a specific portion of the model	D) Generating cost estimates for construction	
8	What is the purpose of "Families" in Revit?				[D] ✓
	A) To represent groups of architects	B) To organize project files	C) To manage project schedules	D) To define reusable building components	
9	Which feature in Revit helps ensure that changes made in one view are automatically reflected in all related views?				[A] ✓
	A) View Templates	B) Styles	C) Filters	D) Renderings	
10	Which Revit tool allows you to create 3D models by extruding 2D shapes?				[A] ✓

	A) Extrude tool	B) Convert tool	C) Build tool	D) Extend tool	
11	What is a "Sheet" in Revit used for?				[C] ✓
	A) A virtual workspace for collaborating	B) A tool for sketching rough ideas	C) A printed or digital representation of a drawing	D) A tool for managing building components	
12	What is the primary purpose of using "Tags" in Revit?				[A] ✓
	A) To label elements in a drawing	B) To create 3D models	C) To apply textures to surfaces	D) To generate construction schedules	
13	What is the purpose of the "Project Browser" in Revit?				[C] ✓
	A) To browse the internet for design inspiration	B) To access project management software	C) To manage project files and views	D) To connect to cloud storage services	
14	What does the "Render" tool in Revit allow you to do?				[D] ✓
	A) Organize project files	B) Export models to other formats	C) Create visualizations of the building's appearance	D) Generate cost estimates for construction	
15	In Revit, what is a "Curtain Wall"?				[D] ✓
	A) A wall with curtains for privacy	B) A type of window treatment	C) A decorative architectural element	D) An exterior wall system with glass panels	
16	How can you adjust the visibility of objects in different views using Revit's "Visibility Graphics" tool?				[B] ✗
	A) By resizing objects	B) By changing the materials of objects	C) By controlling the visibility of categories and elements	D) By creating new objects	
17	Which tool in Revit is used for creating a 3D view of the building's exterior?				[A] ✓
	A) Elevation tool	B) Section tool	C) Floor Plan tool	D) Perspective tool	
18	What is the purpose of "Worksets" in a collaborative Revit environment?				[A] ✗
	A) To create backups of project files	B) To manage project schedules	C) To organize project teams	D) To enable multiple users to work on different parts of the project simultaneously	
19	Which Revit feature allows you to adjust the materials and finishes of building components?				[B] ✓
	A) Material Library	B) Material Painter	C) Color Picker	D) Texture Tool	
20	How can you add dimensions and annotations to a drawing in Revit?				[C] ✓
	A) Using the Text tool	B) Using the Line tool	C) Using the Dimension tool	D) Using the Paint tool	

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K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF CIVIL ENGINEERING
Certificate Course on Architectural Modelling Using Revit
Assessment Test

Name of the Student: B - Moni vardhan Reg. Number: 21945A0106

Time: 20 Min (Objective Questions) Max. Marks: 20

Note: Answer the following Questions and each question carries one mark.

1	What is Revit primarily used for in the field of architecture?				[D]
	A) 2D drafting	B) 3D gaming	C) Spreadsheet calculations	D) Building information modeling (BIM)	
2	In Revit, what is a "Family"?				[D]
	A) Group of architects working together	B) A representation of a building	C) A type of 3D visualization	D) A parametric building component	
3	What does "BIM" stand for in the context of architectural software?				[B]
	A) Basic Imaging Model	B) Building Information Modeling	C) Beautiful Illustration Method	D) Blueprint Information Management	
4	What is the purpose of "Levels" in Revit?				[C]
	A) To define the number of floors in a building	B) To set the building's structural load	C) To define horizontal planes in a building	D) To control the lighting in a room	
5	What does the term "Parametric" mean in the context of Revit?				[D]
	A) A type of architectural style	B) The process of creating visual effects	C) A modeling technique without constraints	D) Design elements that are driven by relationships and rules	
6	Which Revit tool is used for creating walls, doors, windows, and other building elements?				[D]
	A) Sketch tool	B) Paintbrush tool	C) Line tool	D) Create tool	
7	In Revit, what is a "View" used for?				[C]
	A) Changing the color scheme of the model	B) Exporting the model to other software	C) Displaying a specific portion of the model	D) Generating cost estimates for construction	
8	What is the purpose of "Families" in Revit?				[D]
	A) To represent groups of architects	B) To organize project files	C) To manage project schedules	D) To define reusable building components	
9	Which feature in Revit helps ensure that changes made in one view are automatically reflected in all related views?				[A]
	A) View Templates	B) Styles	C) Filters	D) Renderings	
10	Which Revit tool allows you to create 3D models by extruding 2D shapes?				[A]

	A) Extrude tool	B) Convert tool	C) Build tool	D) Extend tool	
11	What is a "Sheet" in Revit used for?				
	A) A virtual workspace for collaborating	B) A tool for sketching rough ideas	C) A printed or digital representation of a drawing	D) A tool for managing building components	[B] X
12	What is the primary purpose of using "Tags" in Revit?				
	A) To label elements in a drawing	B) To create 3D models	C) To apply textures to surfaces	D) To generate construction schedules	[A] ✓
13	What is the purpose of the "Project Browser" in Revit?				
	A) To browse the internet for design inspiration	B) To access project management software	C) To manage project files and views	D) To connect to cloud storage services	[C] ✓
14	What does the "Render" tool in Revit allow you to do?				
	A) Organize project files	B) Export models to other formats	C) Create visualizations of the building's appearance	D) Generate cost estimates for construction	[B] X
15	In Revit, what is a "Curtain Wall"?				
	A) A wall with curtains for privacy	B) A type of window treatment	C) A decorative architectural element	D) An exterior wall system with glass panels	[D] X
16	How can you adjust the visibility of objects in different views using Revit's "Visibility Graphics" tool?				
	A) By resizing objects	B) By changing the materials of objects	C) By controlling the visibility of categories and elements	D) By creating new objects	[C] ✓
17	Which tool in Revit is used for creating a 3D view of the building's exterior?				
	A) Elevation tool	B) Section tool	C) Floor Plan tool	D) Perspective tool	[A] ✓
18	What is the purpose of "Worksets" in a collaborative Revit environment?				
	A) To create backups of project files	B) To manage project schedules	C) To organize project teams	D) To enable multiple users to work on different parts of the project simultaneously	[D] ✓
19	Which Revit feature allows you to adjust the materials and finishes of building components?				
	A) Material Library	B) Material Painter	C) Color Picker	D) Texture Tool	[B] ✓
20	How can you add dimensions and annotations to a drawing in Revit?				
	A) Using the Text tool	B) Using the Line tool	C) Using the Dimension tool	D) Using the Paint tool	[C] ✓

19
20

K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF CIVIL ENGINEERING
Certificate Course on Architectural Modelling Using Revit
Assessment Test

Name of the Student: A. Ritwik Reg. Number: 219Y5A0102

Time: 20 Min **(Objective Questions)** **Max. Marks: 20**

Note: Answer the following Questions and each question carries **one** mark.

1	What is Revit primarily used for in the field of architecture?				[D]
	A) 2D drafting	B) 3D gaming	C) Spreadsheet calculations	D) Building information modeling (BIM)	
2	In Revit, what is a "Family"?				[D]
	A) Group of architects working together	B) A representation of a building	C) A type of 3D visualization	D) A parametric building component	
3	What does "BIM" stand for in the context of architectural software?				[B]
	A) Basic Imaging Model	B) Building Information Modeling	C) Beautiful Illustration Method	D) Blueprint Information Management	
4	What is the purpose of "Levels" in Revit?				[D]
	A) To define the number of floors in a building	B) To set the building's structural load	C) To define horizontal planes in a building	D) To control the lighting in a room	
5	What does the term "Parametric" mean in the context of Revit?				[D]
	A) A type of architectural style	B) The process of creating visual effects	C) A modeling technique without constraints	D) Design elements that are driven by relationships and rules	
6	Which Revit tool is used for creating walls, doors, windows, and other building elements?				[D]
	A) Sketch tool	B) Paintbrush tool	C) Line tool	D) Create tool	
7	In Revit, what is a "View" used for?				[C]
	A) Changing the color scheme of the model	B) Exporting the model to other software	C) Displaying a specific portion of the model	D) Generating cost estimates for construction	
8	What is the purpose of "Families" in Revit?				[D]
	A) To represent groups of architects	B) To organize project files	C) To manage project schedules	D) To define reusable building components	
9	Which feature in Revit helps ensure that changes made in one view are automatically reflected in all related views?				[B] X
	A) View Templates	B) Styles	C) Filters	D) Renderings	
10	Which Revit tool allows you to create 3D models by extruding 2D shapes?				[A]

	A) Extrude tool	B) Convert tool	C) Build tool	D) Extend tool	
11	What is a "Sheet" in Revit used for?				
	A) A virtual workspace for collaborating	B) A tool for sketching rough ideas	C) A printed or digital representation of a drawing	D) A tool for managing building components	[C] ✓
12	What is the primary purpose of using "Tags" in Revit?				
	A) To label elements in a drawing	B) To create 3D models	C) To apply textures to surfaces	D) To generate construction schedules	[A] ✓
13	What is the purpose of the "Project Browser" in Revit?				
	A) To browse the internet for design inspiration	B) To access project management software	C) To manage project files and views	D) To connect to cloud storage services	[C] ✓
14	What does the "Render" tool in Revit allow you to do?				
	A) Organize project files	B) Export models to other formats	C) Create visualizations of the building's appearance	D) Generate cost estimates for construction	[C] ✓
15	In Revit, what is a "Curtain Wall"?				
	A) A wall with curtains for privacy	B) A type of window treatment	C) A decorative architectural element	D) An exterior wall system with glass panels	[D] ✓
16	How can you adjust the visibility of objects in different views using Revit's "Visibility Graphics" tool?				
	A) By resizing objects	B) By changing the materials of objects	C) By controlling the visibility of categories and elements	D) By creating new objects	[C] ✓
17	Which tool in Revit is used for creating a 3D view of the building's exterior?				
	A) Elevation tool	B) Section tool	C) Floor Plan tool	D) Perspective tool	[A] ✓
18	What is the purpose of "Worksets" in a collaborative Revit environment?				
	A) To create backups of project files	B) To manage project schedules	C) To organize project teams	D) To enable multiple users to work on different parts of the project simultaneously	[D] ✓
19	Which Revit feature allows you to adjust the materials and finishes of building components?				
	A) Material Library	B) Material Painter	C) Color Picker	D) Texture Tool	[B] ✓
20	How can you add dimensions and annotations to a drawing in Revit?				
	A) Using the Text tool	B) Using the Line tool	C) Using the Dimension tool	D) Using the Paint tool	[C] ✓

- ⇒ In the “Open” dialog box, browse to the *Chapter02* folder.
 - ⇒ Double-click *Chapter02.rvt* to open the project. You can also select it and then click the Open button.
- The project will open in displaying a sheet with an overhead 3D view.

The dataset for this chapter provided courtesy of Mark Schmieding, FAIA.

GETTING ACQUAINTED WITH THE PROJECT

For this tutorial, we will explore a series of sheet views included in the project. A sheet view is a special kind of view that emulates a sheet of paper from which drawing sets can be printed to output devices. Sheet views typically include a title block which contains project and drawing information. Revit remembers the last view that was open when the project was saved. In this case, it is a three-dimensional aerial view of this small one-floor project for a youth center. It includes offices, exam and counseling rooms, a multipurpose room, and media rooms. Let's take a closer look (see Figure 2.10).

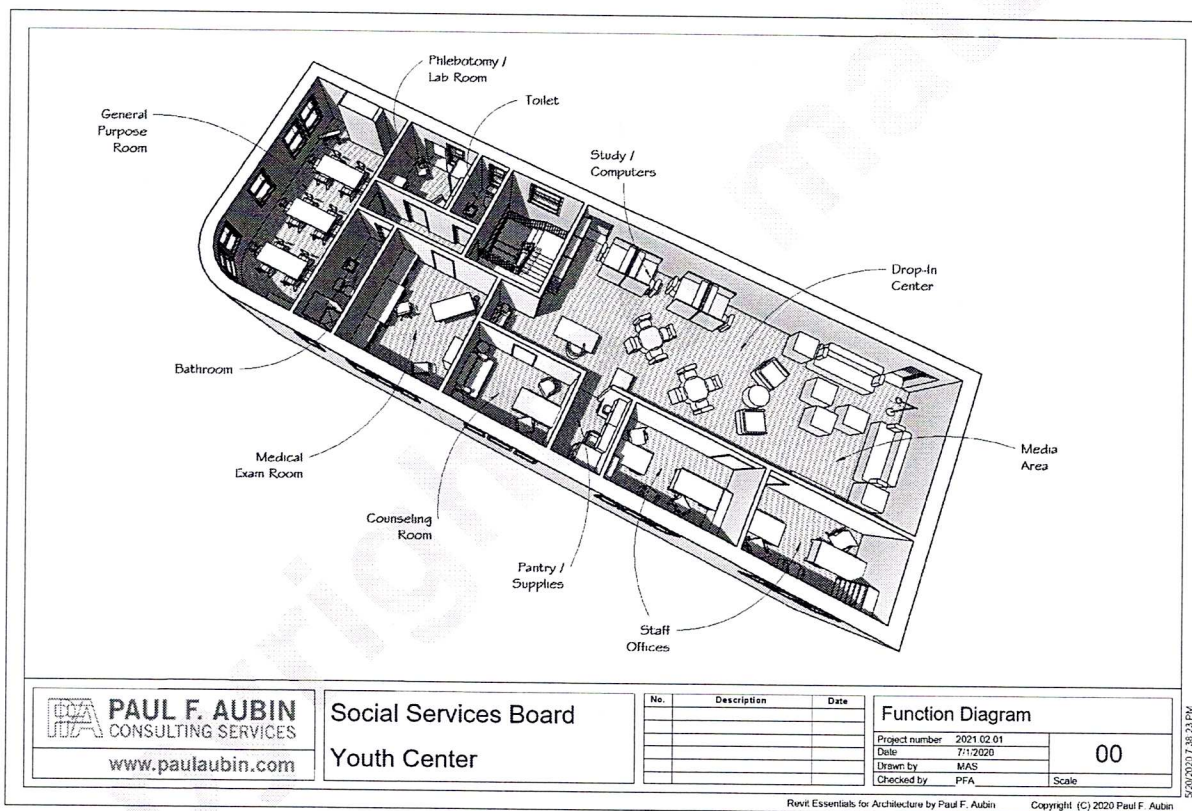


FIGURE 2.10 The Youth Center dataset shown from the “Function Diagram” sheet

VIEW NAVIGATION

You can use the wheel on your mouse to zoom in and out in any view. You can hold the wheel in and drag to pan the screen. If you are working on a laptop and don't have a wheel mouse, you can use the commands on the Navigation Bar (located by default in the upper right corner of the view window) to navigate in any view. Depending on the kind of view active on screen, you will have access to differing tools on the Navigation Bar (see Figure 2.11). Among these are the Steering Wheel, the Zoom pop-up, and the ViewCube. The ViewCube and 3D steering wheel appear in 3D views.

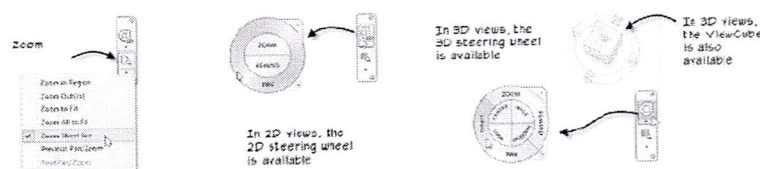


FIGURE 2.11 Zoom the sheet to Sheet Size and pan around to see it as it will print. Pan with the wheel mouse or the steering wheel

NOTE: Revit includes 3D connexion device support. If you have one of these devices connected to your computer, you can use it to navigate in 2D and 3D views. Additional icons will appear on the Navigation Bar indicating that the device is detected and available for use in Revit. Learn more at: 3dconnexion.com.

The zoom pop-up offers many ways to zoom the current window. Most of these commands will be available in all kinds of views, like: **Zoom To Fit** (which fits the screen to the extent of the model) and: **Zoom In Region** (which allows you to drag a rectangular region on screen to magnify that area). We also have the handy: **Zoom Sheet Size** available. This command zooms a view to a size comparable on screen to the actual size it will appear when printed. Since Revit displays line weights and other graphics accurately on screen, this can give you a good preview of how the sheet will look when printed (with today's high resolution monitors, this is a good approximation). Each of the zoom commands has a command shortcut that you can execute via the keyboard. These shortcuts are two characters and you simply type both characters in succession to execute the appropriate command. For example, to issue Zoom to Fit, you can simply type: ZF. All of the zoom shortcuts are shown in Table 2.D.

TABLE 2.D Keyboard shortcuts for Zoom commands

Zoom Command	Keyboard Shortcut
Zoom in Region	ZR
Zoom Out (2x)	ZO
Zoom to Fit	ZF
Zoom All to Fit	ZA
Zoom Sheet Size	ZS
Previous Pan/Zoom	ZP

1. From the Zoom pop-up on the Navigation Bar, choose: **Zoom in Region**.

You can also type ZR to issue this command. If Zoom in Region is already selected (a checkmark appears next to it) then simply click the zoom icon to execute the command.

- ⇒ Drag a rectangular region around the upper left corner of the drawing.

2. Hold in the wheel on the mouse and drag around to pan the model.

If you prefer, you can use the scroll bars instead.

The image you see on screen is the view named: *Large Overview*. It is in the *3D Views* branch of the Project Browser. It has been added to the current sheet and displays in a "Viewport".

3. Zoom back out. The easiest way is to choose: **Zoom to Fit** from the Zoom pop-up menu (shortcut: ZF).

The Steering Wheel offers an alternative to wheel mouse navigation with such commands as dynamic zoom and pan. Click the Steering Wheel icon to make it appear. In this case, since we have a sheet active, only the two-dimensional commands will appear. (This is true even though a 3D view is placed on the sheet; the sheet itself is still two-dimensional).

4. Click on the Steering Wheel icon (the tool tip will read "2D Wheel").

Each function works the same way. Place your mouse on the area of the wheel for the function you want. It will highlight as your cursor passes over it. You are also simultaneously moving the wheel around the screen with the movement of your mouse, so it takes some practice. Click and drag with the mouse to begin the function. For example, if you wish to zoom, move the wheel to the area of the screen that you wish to center your zoom on, move the pointer over the Zoom part of the wheel, click and hold down the mouse and begin to drag. Dragging up zooms in, dragging down zooms out. Varying the speed of your dragging varies the speed of the zooming. Release the mouse button to stop zooming and make the wheel reappear to change functions. Pan works the same way except that panning occurs in the direction that you drag (see Figure 2.12).

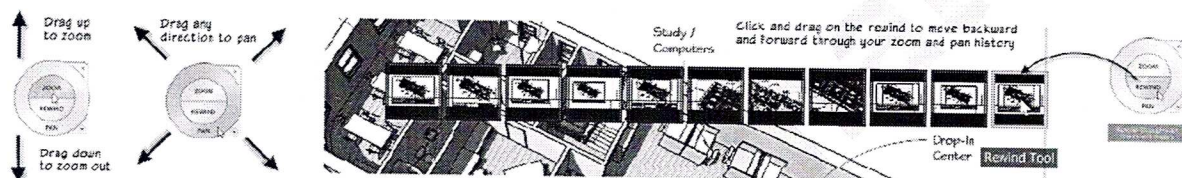


FIGURE 2.12 Steering wheels offer many view navigation functions. Drag on the part of the wheel labeled for the function you want to use

As you perform several zooms and pans, they are stored in memory. You can use the Rewind function to back up through previous zooms and pans in a visual way. Move your mouse pointer over the Rewind function, click and hold down. A ribbon of thumbnail previews will appear, each representing a previous zoom or pan. Drag to the left to highlight previous zooms and pans, drag back to the right to move forward. Release the mouse to stop rewinding or forwarding. When you are done with the wheel, click the small close box ("X") in the upper right corner of the wheel or press ESC.

5. When finished experimenting with Steering Wheel, close it to continue.

UNDERSTANDING SCREEN TOOL TIPS

You can get feedback on the elements onscreen as your mouse passes over them.

1. Zoom to Fit. (In addition to the methods already covered, you can right-click to access common zoom commands like Zoom to Fit.
- ⇒ Move your mouse pointer into the middle of the screen and pause it there—pause over the drawing, (not a text note).
- Do not click the mouse.

Notice how a rectangular border highlights around the 3D image. As you pause the mouse, an onscreen tool tip should appear as well. In this case, this tip will read: Viewports : Viewport : No Title (see Figure 2.13).

NOTE: The same information appears in the status line at the bottom left corner of the Revit interface.

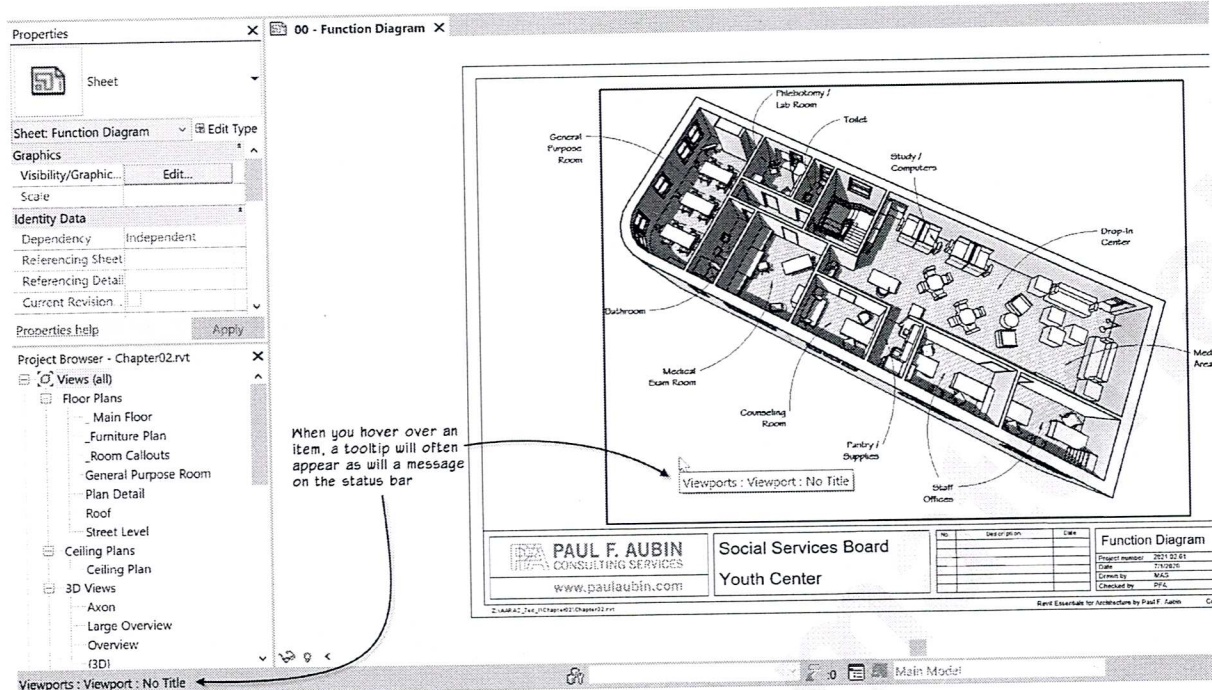


FIGURE 2.13 Tool Tips will indicate the element category, family, and type

The tool tip conveys three bits of information about the element highlighted—its **Category : Family name: Type name**. So, in this case, the element category is “Viewports,” the family is “Viewport” and the type is “No Title.”

2. Now hover the pointer over a piece of text but do not click.

This is called “Pre-highlighting.” The tool tip for a piece of text will read—Text Notes : Text : 3D Notes. Here, Text Notes is the category, Text is the family and 3D Notes is the type. Since the 3D view is a viewport containing one of our project views, you do not see the elements within the model pre-highlighting. However, you can choose to “Activate” the viewport and that will give you access to the building model elements shown within the view. Editing them from a viewport is no different than opening the view from the Project Browser and editing them there; the results are the same view either way. Let’s take a look.

3. Pre-highlight the viewport, and then click to select it this time.
- ⇒ On the Modify | Viewports ribbon, click the Activate View button (you can double-click inside the viewport as well).

Notice that the sheet title block and the text labels have grayed out. While they are still visible, this graying effect indicates that they are currently inactive and that you are now working inside the viewport.

4. Move the mouse around the model.
- Notice that the elements within the model now pre-highlight.

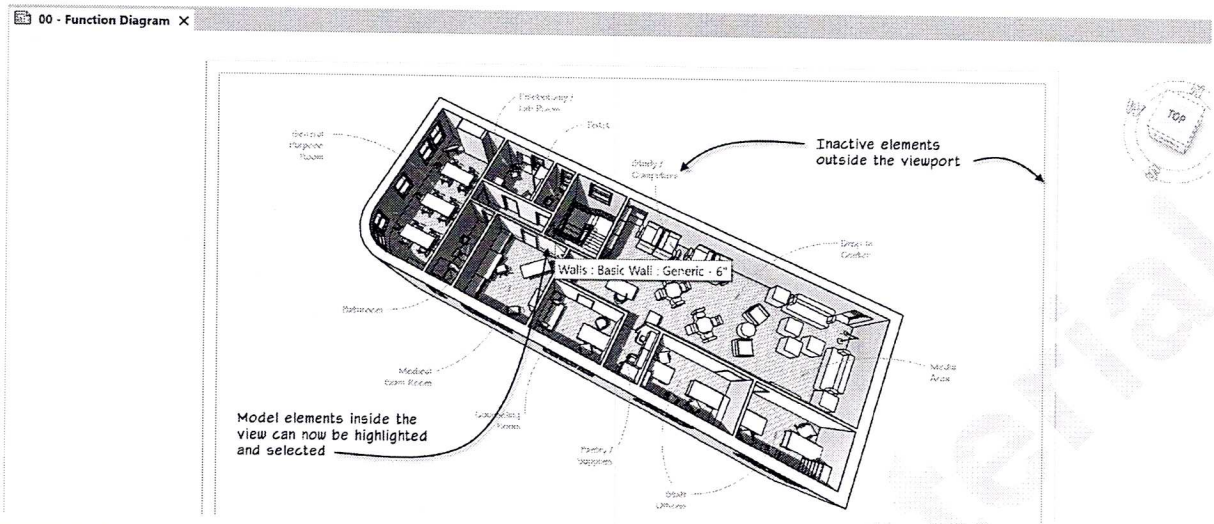


FIGURE 2.14 Once the viewport is activated, you can pre-highlight the elements in the model

We will not actually edit any model objects in this view but do take notice of the tool tips. The interior partitions, for example, display as: Walls : Basic Wall : Generic - 6". The category is: Walls, the family is: Basic Wall and the type is: Generic - 6" (see Figure 2.14).

Feel free to select objects if you like, but don't edit anything. If you accidentally move or change an element, click the undo icon on the Quick Access Toolbar (QAT) at the top left corner of the Revit interface. Or press **CTRL + Z**.

You may also notice that with the three-dimensional view now active, in addition to the Navigation Bar, the ViewCube is also displayed. The ViewCube is a 3D navigational tool available in all Autodesk products. Clicking on any of the labeled sides of the cube will orient the view to that direction such as top, front, or right. There are also several active regions between faces that will orient the view at an angle between the two adjacent faces. For example, click the edge between front and right to orient the view to the southeast. Click the corner between three faces to orient the view to an axonometric orientation. You can also click and drag any edge of the cube to orbit the model in real-time. Feel free to experiment with the ViewCube to get the hang of it (see Figure 2.15).

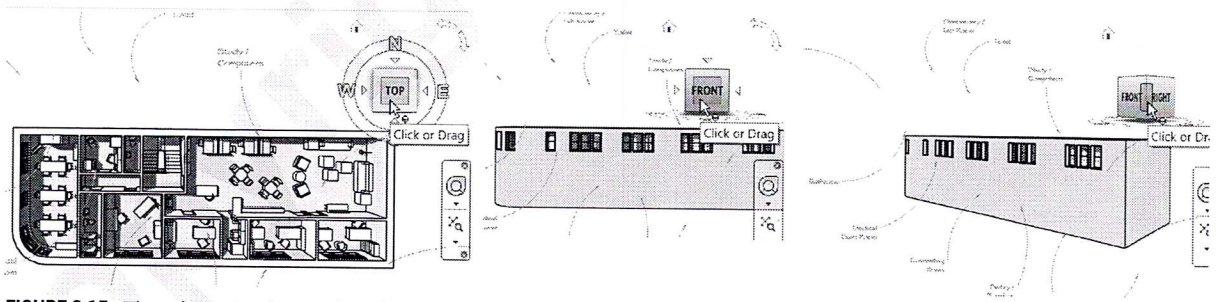


FIGURE 2.15 *Three-dimensional views show the ViewCube. Use it to quickly reorient the 3D view*

In addition to the ViewCube, the Steering Wheel has more options in a three-dimensional view. You can orbit the view, change the center of rotation, move the vantage point up and down, and walk and look around the model. Consult the online help for more information on these options and the many ways you can customize the Steering Wheels to suit your preferences.

5. Feel free to experiment with the ViewCube and the 3D Steering Wheel in this 3D view.
⇒ Before continuing, reset the view back to its original state.

To do this, click the Steering Wheel, and then use the Rewind tool or right-click on the Steering Wheel and choose: **Undo View Orientation Changes**.

- When you are done exploring in the model, right-click in the Viewport again and choose: **Deactivate View**.

This returns you to the sheet and the elements in the view are no longer selectable.

VIEWS AND DETAILING

Earlier we discussed how model and annotation elements were handled in distinct ways. Continuing in this file, let's explore the difference between model and view-specific/annotation elements a bit further.

- On the Project Browser, beneath the *Views (all)* branch, double-click to open the: *_Main Floor* plan view.

This is the basic floor plan view for this project.

- On the Project Browser, double-click to open the *_Room Callouts* plan view.

This plan is very similar to the *_Main Floor* view except that it also includes callouts around the General Purpose Room on the left and some elevation and section markers. A sheet has been provided showing each of these views.

- On the Project Browser, beneath the *Sheets (all)* branch, double-click to open the *05 – Room Callout* sheet view.

Notice how the only visual difference here is that the plan appears on a title block sheet in this view.

- On the Project Browser, double-click to open the *02 – Floor Plan* sheet view.

This is the sheet presentation of the *_Main Floor* plan view. In other words, this sheet composes the *_Main Floor* plan view on a title block for printing. You can easily see which views appear on a sheet in the Project Browser.

- On the Project Browser, beneath the *Sheets* branch, expand the tree (click the small plus (+) sign) beneath the *01 – Shaded Plan* sheet.

⇒ Double-click the sheet to open it (see Figure 2.16).

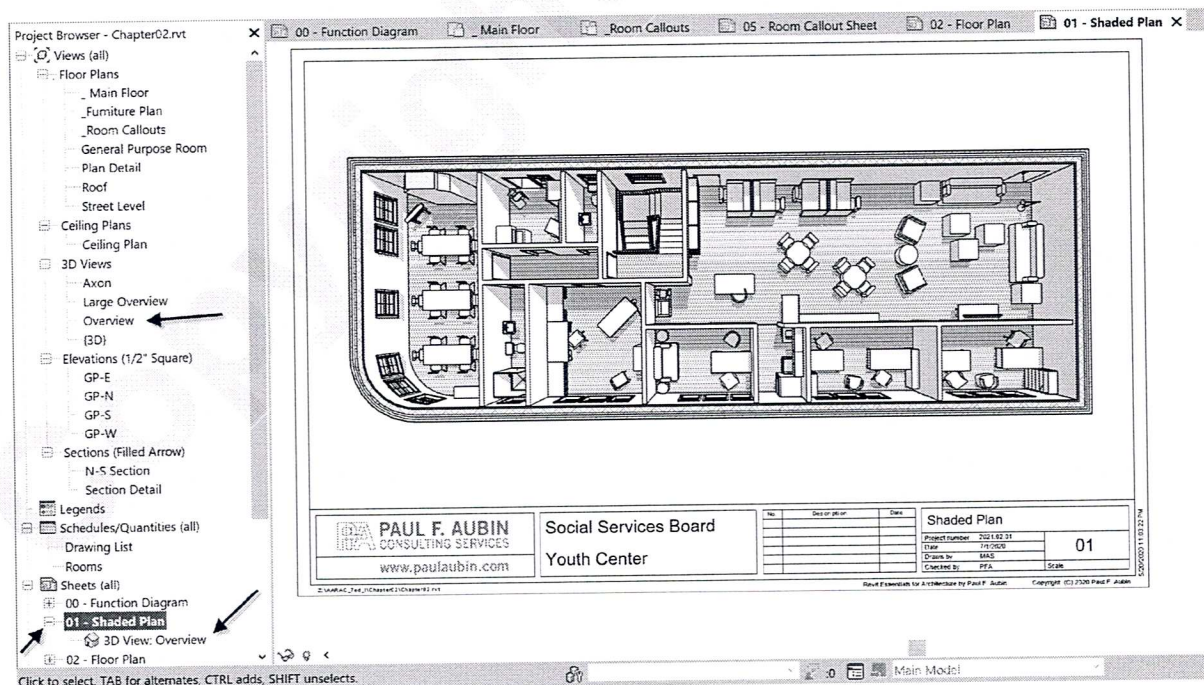


FIGURE 2.16 Expand the sheet entries in the Project Browser to see the views they contain

This provides an easy way to see which views are inserted on sheets. Another useful tool (noted above) gives us a way to see which views have not yet been placed on sheets.

6. On the Project Browser, scroll to the top and select the *Views (all)* branch.
- ⇒ On the Properties palette, from the Type Selector (drop down list at the top), choose: **not on sheets** (similar to Figure 2.9 above).

Notice that the list of views on the Project Browser now shows only those views that are not yet assigned to a sheet. In this project, there are only a couple views not placed on sheets. Expand each sub-group to see.

7. Make sure that “Views (not on sheets)” is selected, and then on the Properties palette, change back to: **all**.

This sets the default browser organization back to showing all views regardless of their placement on sheets.

8. On the Project Browser, double-click to return to the *_Main Floor* plan view. Or just click its tab if it is still open.

Suppose that we needed to create another floor plan that was similar to this one, but that was to convey a different type of information on the printed sheet or that we were planning to use simply as a convenient place in which to edit the model with no intention of adding it to a sheet. To achieve either goal, we simply duplicate an existing view.

9. On the Project Browser, right-click the *_Main Floor* plan view and choose: **Duplicate View > Duplicate**.

A new floor plan view named: *_Main Floor Copy 1* will appear and become active. Notice that none of the room labels or dimensions were copied in this operation. This might be useful if you were creating a “working” view. A “working” view is intended as a view in which you manipulate the model only and do not plan to add to a sheet for printing. Bear in mind that nothing prevents the working view from being used on a sheet; rather it is simply not intended for that purpose by our project team. If we want to duplicate the view, including the tags and dimensions, we choose a different command.

10. On the Project Browser, right-click the original *_Main Floor* plan view again and choose: **Duplicate View > Duplicate with Detailing**.

NOTE: “Duplicate with Detailing” is short for “Duplicate with view-specific detailing elements and annotation elements.” Remember that the “detailing” is being copied, while the model elements are simply being viewed.

A new floor plan view named: *_Main Floor Copy 2* will appear and become active. Notice that this copy includes copies of the room tags and dimensions.

- ⇒ Right-click *_Main Floor Copy 2* and choose: **Rename**.
- ⇒ Type: **Area Diagram** and then press ENTER.
11. With the CTRL key held down, select each of the dimensions in the view (five total).
- ⇒ Press the DELETE key.

We do not need dimensions for the new view we are creating. However, there is no way to duplicate only the room tags and not the dimensions, so simply deleting them achieves the desired result. But the critical thing to remember here is that the dimensions still exist in the original *_Main Floor* view. We only deleted the copied ones here.

12. On the Annotate tab of the ribbon, on the Color Fill panel, click the Color Fill Legend tool.
- A small square with a tag will appear attached to the cursor.
- ⇒ Click a point above the plan to place the Color Scheme Legend.

- ⇒ In the dialog that appears, for Space Type, choose: Rooms and then click OK.

As you can see, the Scheme 1 color scheme color codes each room based on its name. The legend itself is currently overlapping the plan. To make it fit better, we can resize and/or move it.

13. Click on the Color Fill Legend and then drag the small round Control at the bottom up to make the legend two columns (see Figure 2.17).

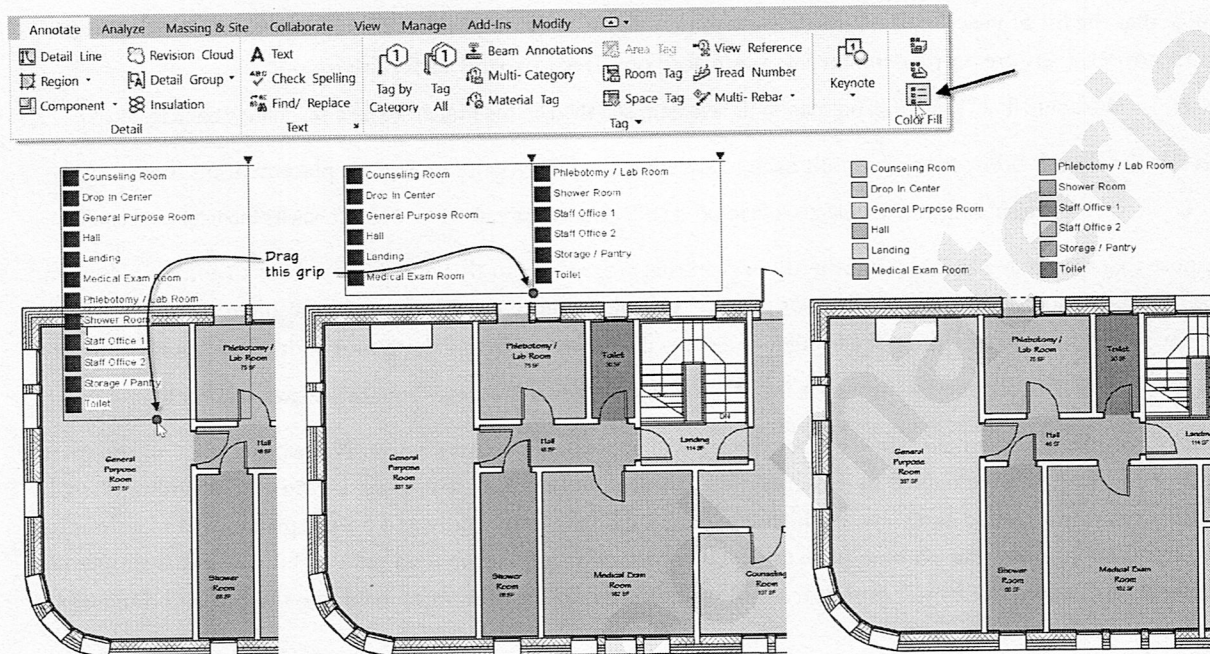


FIGURE 2.17 Create a Legend for the new shaded plan and then resize the legend

14. On the Project Browser, double-click to open the 04 – Area Diagram sheet view.

A sheet appears on screen, which does not yet have a drawing on it. Let's add our new shaded plan to this sheet.

- ⇒ On the Project Browser, right-click the 04 – Area Diagram sheet and choose: **Add View**.
- ⇒ From the "Views" dialog, choose: **Floor Plan: Area Diagram** view and then click the Add View to Sheet button.
- ⇒ Click to place the view on the sheet.

Notice that the view is a little too big for the sheet. We can adjust the scale of the view and it will update automatically on the sheet.

15. On the Project Browser, select the: **Area Diagram** view.
- ⇒ On the Properties palette, from the View Scale list, choose: **1/8"=1'-0"** (see Figure 2.18).

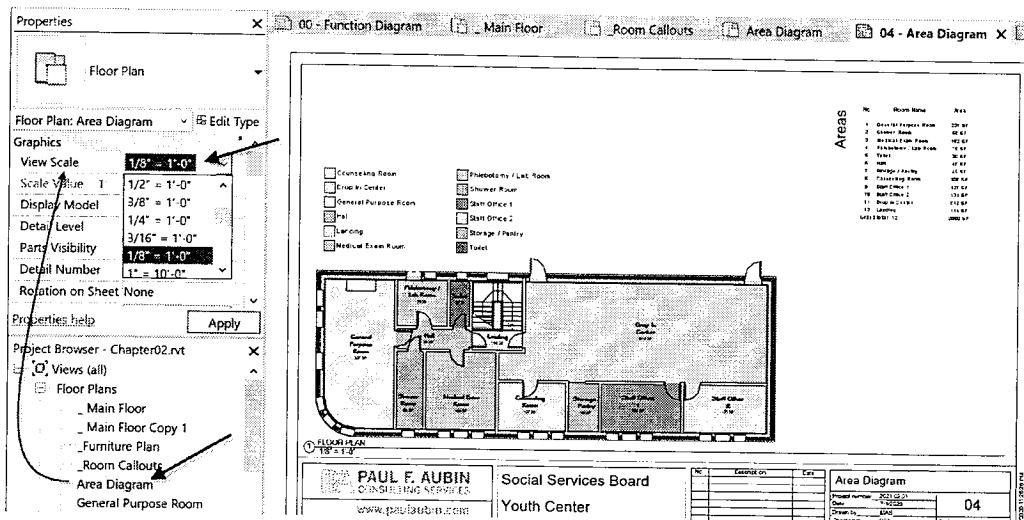


FIGURE 2.18 *Change the scale of the view*

You should see the change on the sheet immediately. If necessary, you can move the viewport around to make a nicer composition on the sheet.

You should also look at the *_Furniture Plan* floor plan view and the *03– Layout Plan* sheet next. In this view and sheet, you will notice that the plan is displayed with furniture. Therefore, creating plans with and without detailing (text and other annotation) is not the only way to vary the specifics of what we see. We can also control the visibility of each type of element in any Revit view. The visibility settings are a parameter of the view itself. This is how we can choose to display the furniture in the *_Furniture Plan* view and not display it in the *_Main Floor* view. On the View tab of the ribbon, on the Graphics panel, you can choose the Visibility/ Graphics tool (VG). This will display a dialog listing all element categories and enables you to turn on and off these categories within the current view. While we will discuss the specifics of this process in later chapters, the important point for this exercise is that this sort of control is possible and extremely useful. If you wish to explore the “Visibility/Graphics Overrides” dialog, please feel free to do so. Simply undo your changes before continuing with the lesson.

EDIT IN ANY VIEW

Perhaps the most powerful feature of Revit is the ability to edit in any view and see the results instantly in all views.

1. On the Project Browser, double-click to open the *06 – General Purpose Room* sheet view. Then on the View tab, on the Windows panel, click the Close Inactive button.

This closes all the other tabs. As you can see from this simple exercise, it is easy to end up with many open view tabs. Using this tool every so often helps keep a tidy workspace and preserves computer resources. The 06 sheet we have open shows a plan and four interior elevations. All these views show the General Purpose Room.

2. Select the plan view on the left, right-click and choose: **Activate View** (or double-click on the viewport).
 3. On the Architecture tab of the ribbon click the Window tool.
- ⇒ Click a point on the exterior wall on the left to add a new window (see Figure 2.19).

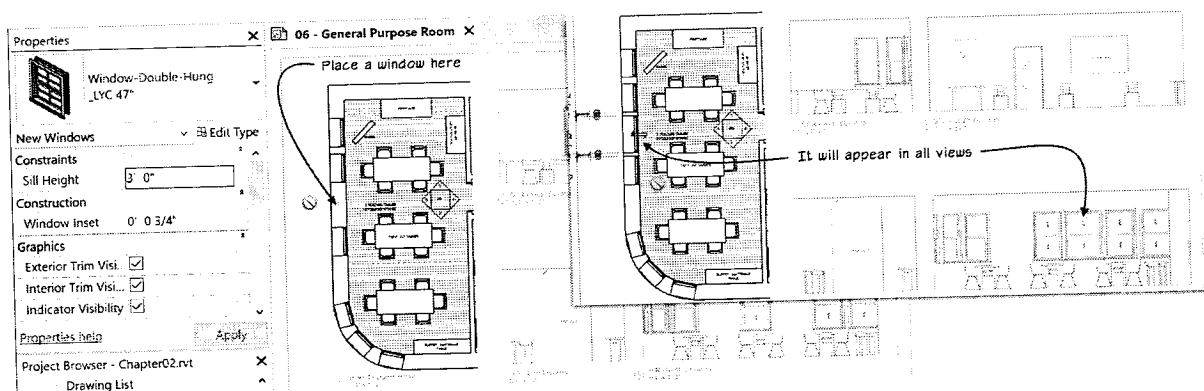


FIGURE 2.19 Add a window and it appears in all appropriate views automatically

Notice that the window appears immediately in the north elevation (detail 5 on the sheet).

4. Right-click in the plan view again and choose: **Deactivate View**.

EXPLORE A DETAIL VIEW

As we have noted above, a detail view is a little different than the other views. Typically it will include a live view of the model—usually a callout of some part of a section or plan—and various types of annotation and other graphical embellishments drawn on top. One such detail view has been included in this sample dataset.

1. On the Project Browser, expand (click the plus [+] sign) the *07 – Building Details* sheet view.
Beneath this sheet is a listing of three views that are already placed on the sheet.
- ⇒ Beneath the *07 – Building Details* sheet view entry, double-click to open the: *Section : Section Detail* view.
2. Pre-highlight some of the elements in this view (see Figure 2.20).

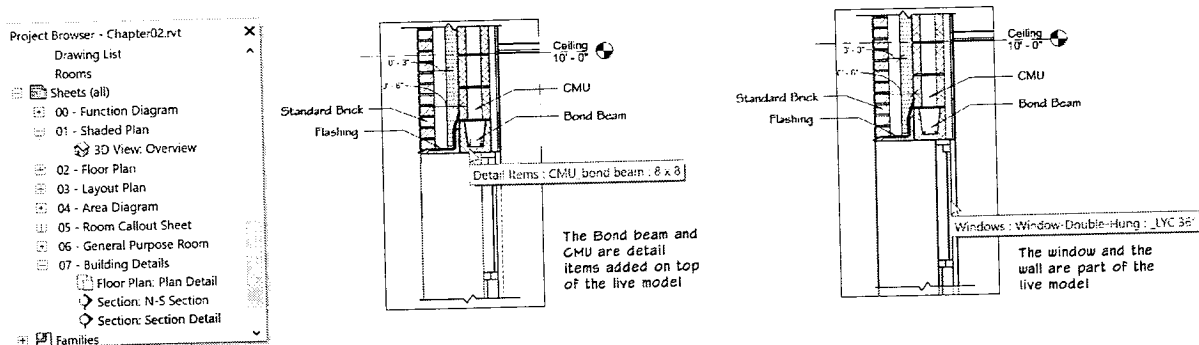


FIGURE 2.20 Explore a detail view—Note the combination of detail and model elements

Notice that the detail view contains both model elements (which would appear in all views) and detail elements (which appear only in this view). Even though the detail elements represent items like concrete blocks, brick, flashing, and bond beams, the level of detail required in a construction detail is much higher than that required in nearly any other view. Therefore, these types of items are typically drawn as detail elements on top of the model view geometry to keep overhead low and reduce the amount of time and effort required to build your overall model. An even easier way to see this is to change the way the model displays on the Properties palette.

3. Make sure that nothing is selected (press esc). On the Properties palette, next to Display Model, choose: **Halftone**.
Notice how the elements that are parts of the 3D model now display grayed out.
- ⇒ Set it to: **Do not display** next.

1. Zoom in on the middle of the right vertical exterior wall. This is where our fireplace will go.
 2. On the Architecture tab, click the drop down button on the Component tool and choose: **Model In-Place**.
- ⇒ In the “Family Category and Parameters” dialog, choose: **Generic Models**, and then click OK (see Figure 4.59).

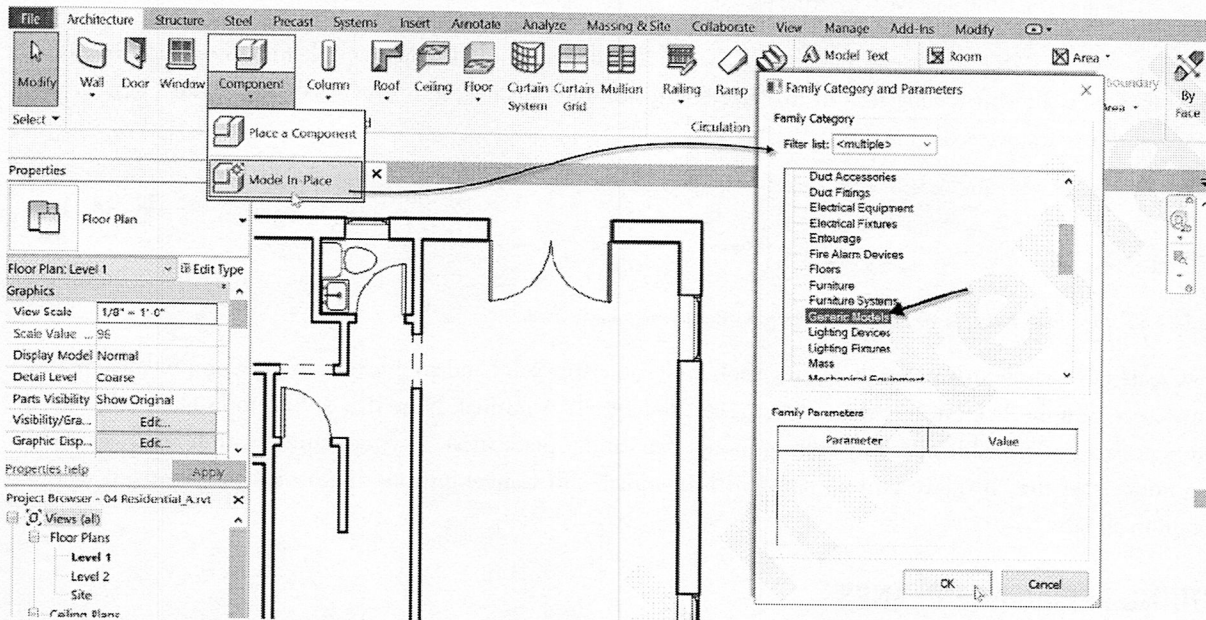


FIGURE 4.59 Create an in-place family and choose its category

NOTE: Modeling in-place is not available in Revit LT. If you are using LT, you can create an actual component family and load it instead. From the File menu, choose: **New > Family**. Then choose the *Generic Model.rft* [*Metric Generic Model.rft*] template from the list and then click Open. Add the reference planes as noted below, but instead of measuring them from the existing walls, place them so that the rectangular space they describe is centered on the two reference planes already in the template. Build the rest of the family following the same steps indicated. Save the file when finished as: **Fireplace** and then load it into the project and place it where indicated in the figures below. A version of this family is provided in the *Chapter04\Complete* folder called: *Fireplace for LT.rfa*.

The family category list is a fixed list built into the software. When you create a family, you must assign it one of these categories. The family you create will inherit the characteristics of the category to which it is assigned. In general, when choosing a category, try to select the one that most closely matches the actual object that you are creating. The Construction Specifications Institute (CSI) spec section for fireplaces is Division 10—Specialties (10300 Fireplaces and Stoves), which would tempt us to choose “Specialty Equipment.” However, your choice of category does impart certain behaviors to your family. Specialty Equipment is intended more for free-standing equipment items and does not have a “cut” representation. Items like 10340 Manufactured Exterior Specialties, 10500 Lockers or 10670 Storage Shelving are all examples of things that would work well in the Specialty Equipment category. Items in Revit that are “cuttable” interact with the cut plane of floor plan and section views and show bold when cut and lighter when viewed in projection. Since we will want our fireplace to interact with the wall and appear bolder when cut in plan, we need a category that supports cutting.

We get this cutting behavior because we chose the “Generic Models” category above. This is sort of a “catch all” category. You typically choose Generic Models when the item you are modeling does not fit neatly into any of the

other categories. Generic Models does not impart any specialized parameters that might be available from other more descriptive categories, but aside from the need for interaction with the cut plane, our existing fireplace has no other specialized needs. So Generic Model will work OK here.

⇒ In the “Name” dialog, type: **Existing Fireplace** and then click OK.

You are now in “In-Place family editing” mode. The model will gray out but remain visible for reference. The ribbon tabs will change showing a collection of In-Place family editing tools instead of the usual tools. Take a look at the Create tab for example (see Figure 4.60).

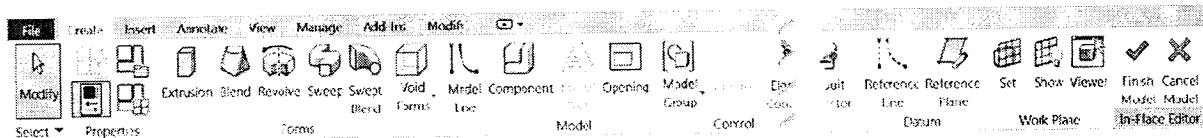


FIGURE 4.60 The Family Editor mode is enabled when you create a new in-place family

The Create tab includes many family editing tools. You can create solid and void forms, insert Components, or add connectors. Simply click on the other tabs to access these tools as normal. Note that several tools like walls, doors, and floors are not available in family editing mode. You cannot place (nest) a system family within another family. Also notice that the “In-Place Editor” panel with its Finish and Cancel buttons appears on the right side of the ribbon in all tabs.

ADDING REFERENCE PLANES

When you construct complex geometry, it is often useful to have guidelines to assist in locating elements. Reference planes are used for this purpose in families. You sketch a reference plane like the way you sketch walls or lines. You can snap and constrain other elements to reference planes, making them useful tools for design layout. You can add reference planes in any orthographic view of the model. (Reference planes do not show in 3D.) In this example, we will add them within our In-Place family. When you add them in this way, the reference planes will become part of the In-Place family and will be visible only when editing the In-Place family.

1. On the Create tab, on the Datum panel, click the Reference Plane tool. (Do not click Reference Line; make sure you click Reference Plane).
 2. Click a point inside the large room on the right near the exterior wall, just above the lower window.
- ⇒ Move the pointer horizontally to the right past the exterior wall and then click outside.

The exact locations of either click are not critical so long as you draw horizontally and above the window. A small reference plane (green dashed line with round blue handles at the ends) will appear.

- ⇒ Edit the Temporary Dimension from the bottom horizontal wall to: **7'-11" [2400]** (see the left side of Figure 4.61).

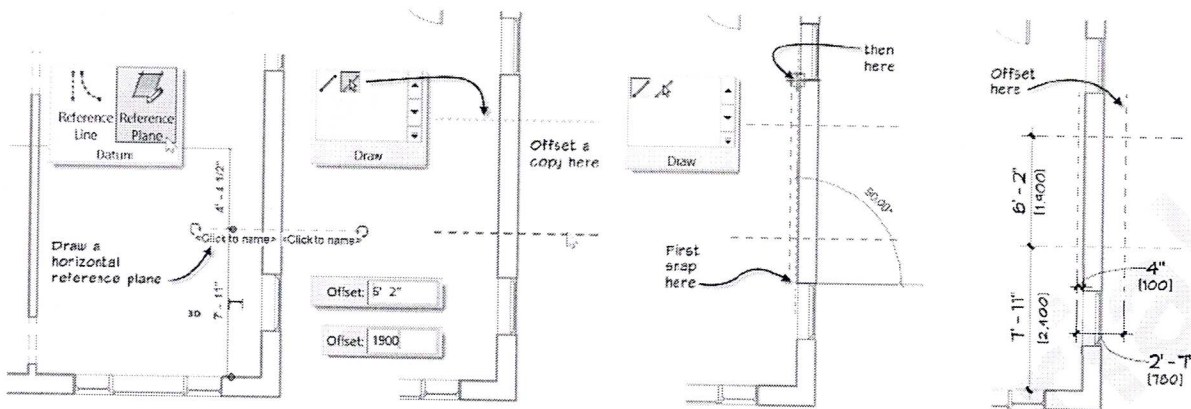


FIGURE 4.61 Create two horizontal and two vertical reference planes to frame out the fireplace footprint (dimensions for reference only)

3. On the Modify | Place Reference Plane tab, on the Draw panel click the Pick Lines icon.
⇒ On the Options Bar, in the Offset field, type: 6'-2" [1900].
⇒ Pre-highlight the first reference plane and move the mouse so that the offset line appears above.
4. Click to create the new reference plane (second panel from the left in Figure 4.61).

Now we'll repeat the process to create two more vertical reference planes. These will frame out the rectangular footprint of the fireplace.

5. On the Draw panel, switch back to the Line icon, and then type: 4" [100] in the Offset field.
⇒ Snap to the endpoint of the lower window on the inside edge of the wall.
⇒ Snap to the endpoint of the upper window on the inside edge of the wall (third from the left in Figure 4.61).

TIP: The start and end points suggested will make the first reference plane fall to the inside of the house and the second to the outside. If you click the points in the wrong order, do not cancel, simply tap the SPACEBAR to flip the line.

6. Switch back to the Pick Lines tool and then change the Offset to: 2'-7" [780].
⇒ Offset the reference plane you just drew to the outside of the house (see the right side of Figure 4.61).

We now have four reference planes that we can use to guide the creation of our fire-place's form. This is common best practice. Complete details on the use of reference planes in families will be discussed in Chapter 11.

CREATE A SOLID FORM

Using our reference planes as a guide, let's create the overall mass of the fireplace.

1. On the Create tab, on the Forms panel, click the Extrusion tool (see the top of Figure 4.62).
⇒ On the Options Bar, in the "Depth" field, type: 9'-0" [2750]. (Be sure to set the Depth and not the Offset—Item 1 in Figure 4.62.)
2. On the Draw panel, for the sketch shape, click the Rectangle icon (see item 2 in Figure 4.62).
⇒ Snap to the intersection of two of the reference planes and then snap to an opposite intersection to define the rectangular shape (see items 3 and 4 in Figure 4.62).
⇒ Close all four padlocks (see item 5 in Figure 4.62).

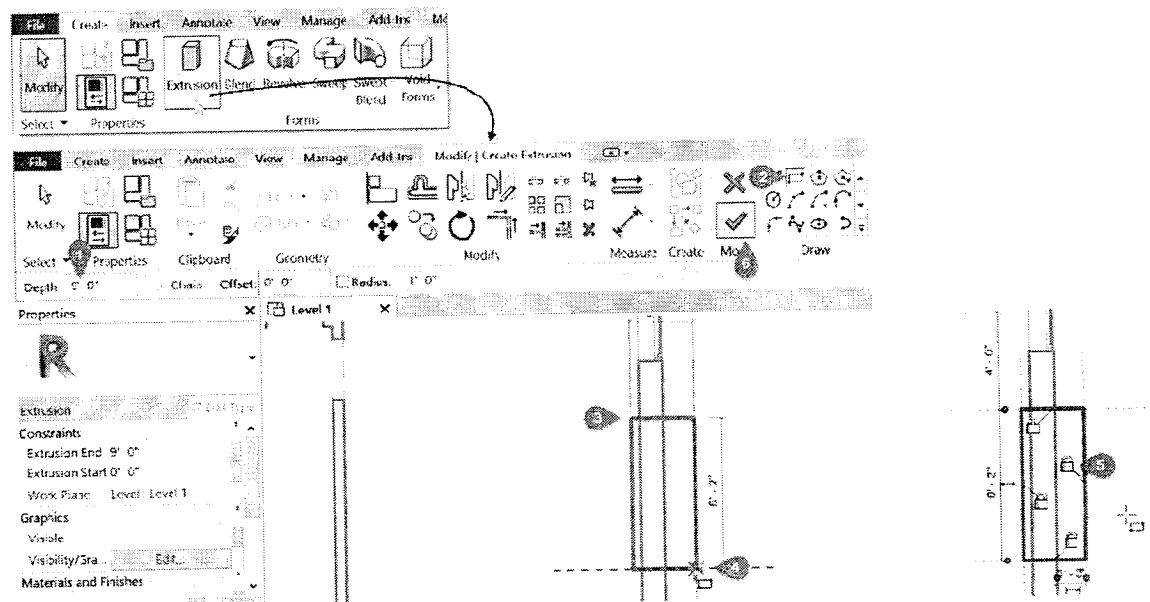


FIGURE 4.62 Sketch the overall shape of the extrusion

3. On the Modify | Create Extrusion tab, on the Mode panel, click the Finish button (large green checkmark) (see item 6 in Figure 4.62).

This gives us our basic fireplace mass. We now need to carve out the firebox.

CREATE A VOID FORM

Using the same basic process, we can create a Void form that will carve away from the solid form in our family giving us the firebox opening.

1. On the Create tab, click the Void Forms drop down button and then choose: **Void Extrusion**.

The Modify | Create Void Extrusion tab will appear with the same Sketch tools as before.

- ⇒ On the Options Bar, in the "Depth" field type: **4'-0" [1200]**.

2. On the Draw panel, click the Pick Lines icon.

- ⇒ Click the left vertical edge of the solid extrusion (see panel 1 in Figure 4.63).

A magenta sketch line will appear directly on top of this edge.

3. On the Options Bar, change the Offset value to: **1'-0" [300]**.

- ⇒ Highlight the right edge of the solid extrusion and move the mouse slightly until the dashed line is within the fireplace structure. When it is, click to create a magenta sketch line (see panel 2 in Figure 4.63).

4. Change the Offset value to: **0 (zero)**.

- ⇒ On the Draw panel, click the Line icon.

5. Using the temporary dimensions as a guide, click the first point on the left edge a bit down from the top corner and draw it down and to the right at a 20° angle (see panel 3 in Figure 4.63).

- ⇒ Click the Modify tool or press the **esc** key twice.

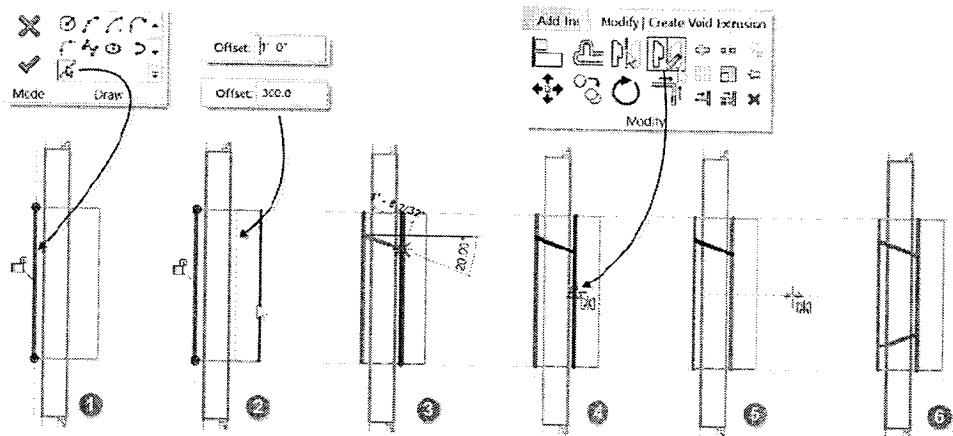


FIGURE 4.63 Sketch lines to form the firebox shape

6. Select the 20° line and then on the Modify | Create Void Extrusion tab, click the Mirror Draw Axis tool (or press DM).
 - ⇒ Click the midpoint of the vertical sketch line already drawn (see panel 4 in Figure 4.63).
 - ⇒ Move the mouse horizontally and click the finish the mirror line (see panel 5 in Figure 4.63).

The result is shown in panel 6. Now we will use the Trim/Extend to Corner tool (the same one we used for walls at the start of the chapter) to clean up the sketch.

7. On the Modify tab, click the Trim/Extend to Corner tool (or Type TR).
 - ⇒ Trim all four corners to make an enclosed shape (see Figure 4.64).

REMEMBER: Select the portion of the sketch line that you wish to keep.

8. Click the Modify tool or press the esc key to finish trimming.

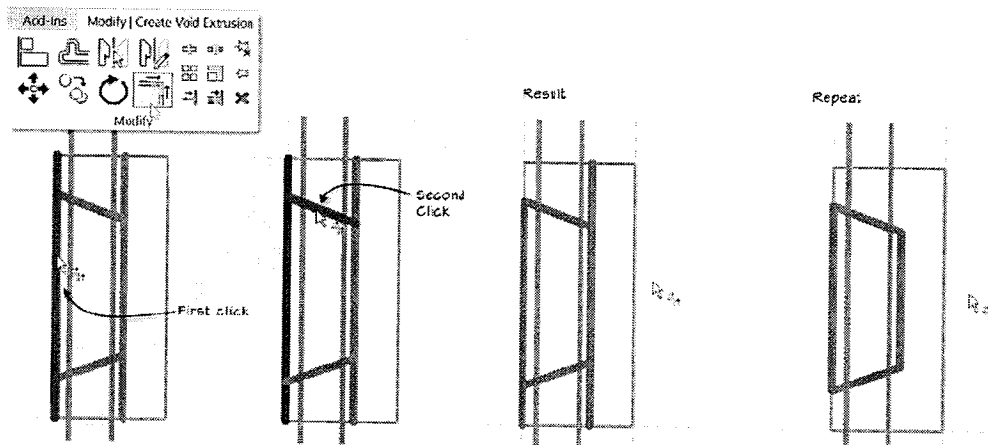


FIGURE 4.64 Edit the sketch lines to finalize the shape

9. On the Mode panel, click the Finish Edit Mode button.

While the void is still selected, it will appear solid. However, when you deselect, it will cut away from the previously drawn solid to form the fireplace shape.

10. Click in empty space to deselect the element.
11. On the In-Place Editor panel, click the Finish Model button (big green checkmark).

This completes the editing of our family and returns us to the project editor mode.

JOIN THE FIREPLACE WITH THE WALL

The Fireplace family is finished but it overlaps the wall. Let's fix this.

1. On the Modify tab, click the Split tool (or type SL).
- ⇒ On the Options Bar, place a checkmark in the "Delete Inner Segment" check box.
2. Split the exterior vertical wall on both sides of the fireplace (see Figure 4.65).

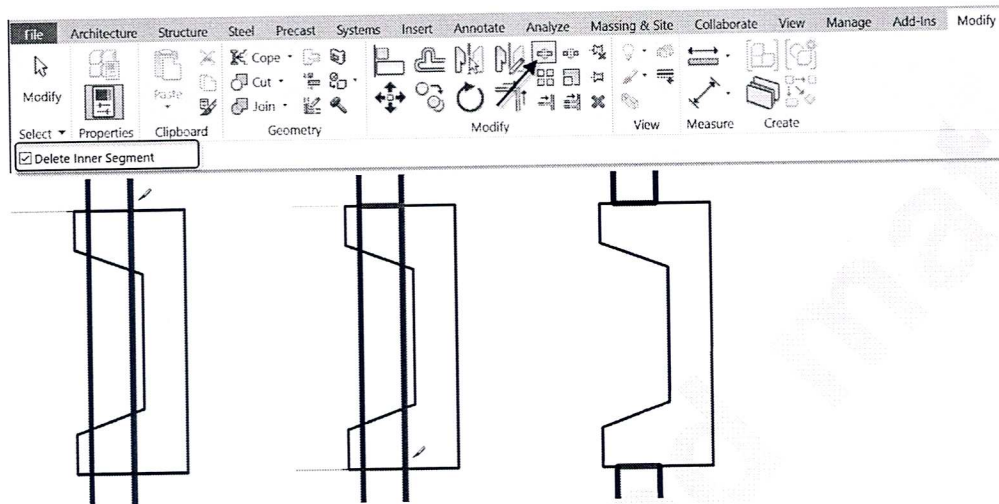


FIGURE 4.65 Split the exterior wall

3. Click the Modify tool or press the Esc key twice.

This is close to what we want but let's make one more edit.

4. On the Modify tab, on the Geometry panel, click the Join tool (see the top of Figure 4.65).
- ⇒ Click one of the exterior walls (the ones we just split).
- ⇒ Then click the Fireplace to join them (see Figure 4.66).

TIP: Remember to watch the Status Bar for detailed prompts.

5. Repeat for the other wall. Pick the wall then the fireplace.

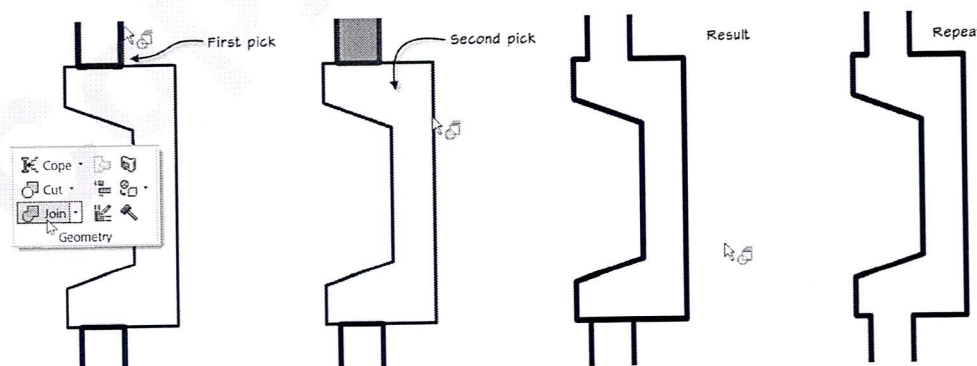


FIGURE 4.66 Use Join Geometry to join the walls to the Fireplace

6. Click the Modify tool or press the esc key twice to cancel the Join command.
7. On the QAT, click the Default 3D view icon.
- ⇒ Use the techniques covered above and orbit the model around so that you can see the Fireplace.

We modeled the fireplace a bit too short. However, for now we will leave this alone. In later chapters we will address the height of the fireplace as well as how it changes width on the second floor. The fireplace could also use a mantel and a hearth. However, because there will be no new work done in the living room of this project and therefore no sections or elevations are needed of the fireplace, that extra level of detail is unnecessary for this tutorial. What we have created works well for the floor plan. If you wish to try it anyway for the practice, feel free. Select the fireplace, and then on the Modify | Generic Models tab, click the Edit In-Place button. This will return you to the in-place family editor where you can add these accoutrements using additional solids.

RESET THE CURRENT PHASE

Congratulations! Our work on residential project first floor existing conditions layout is complete for now (see Figure 4.67). We still need to add the Stairs to this model. However, Stairs will be covered in a dedicated chapter. Therefore, we will save our layout without the Stairs for now.

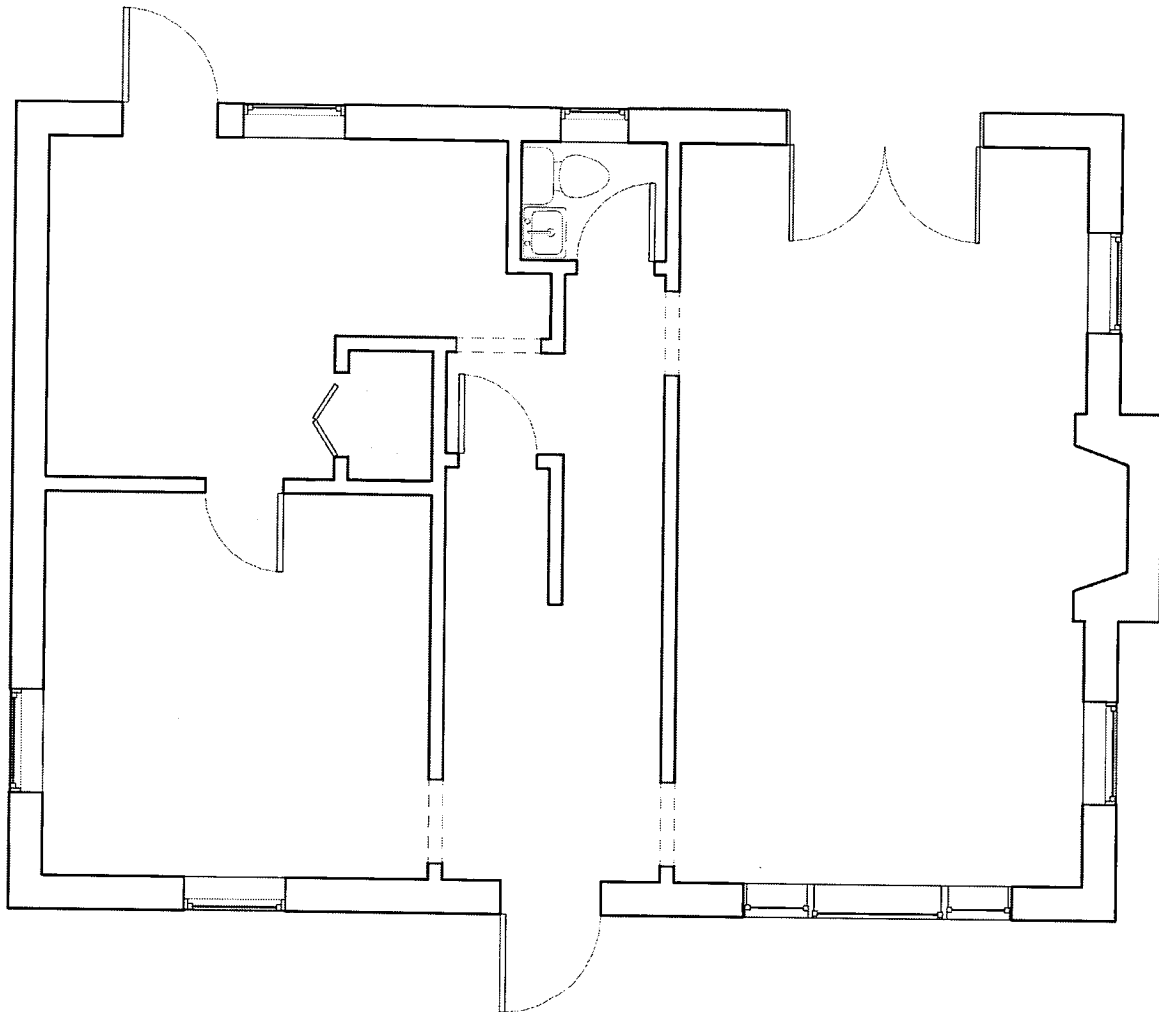


FIGURE 4.67 *The final first floor existing conditions layout*