

### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul 624 002

Date: 10.01.2020

### **CIRCULAR**

It is planned to conduct Value Added Course for Illyear students by Department of Civil Engineering along with CADD technologies school of design Pvt. Ltd.

S.N o	Year	Name of the Course	Period	No. of days
1.	III Year	REVIT ARCHITECTURE	27.01.2020 TO 31.01.2020	5 days

Faculty In-charge

HoD/Civil

Dt.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)

Principal

REM Institute of Engineering and Technology

Entathupath Vil act, and alagundu (Po),

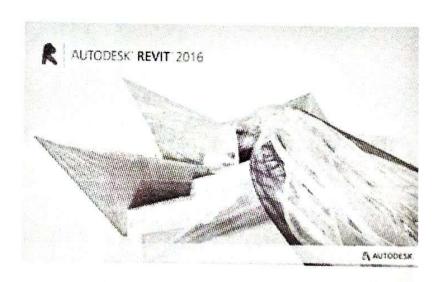
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SSM Institute of Engineering and Technology, Dindigul - 624 002

### DEPARTMENT OF CIVIL ENGINEERING



Cad Technologies School of design Pvt. Ltd.

**Technology Training** 

Revit Architecture

Third year (19-20)

### Cadd Technologies School of design Private Limited Coimbatore

Total Hours: 50 Hrs.

### Content:

- ✓ Introduction toRevit& BuildingBasics, BIMConcepts
- ✓ Default Template settings, User Interface, Datum
- ✓ Model- Draw, Linestyle&Modify
- ✓ Architecture Walltypes&Duplicatecreations, Door, Window
- ✓ Text Dimensions Aligned, linear, Angular, Arc length, Radial & Diameter
- ✓ Architecture Placeacomponent, Column&Duplicatecreations
- ✓ Floor creations, Roof Creations, Room&Area
- ✓ Opening& Circulation
- ✓ Architecture Curtain wall, Curtain Grid and Mullion Model text
- ✓ Work Plane, Model in Place Extrusion, Revolve
- ✓ Create- 3DV iew, section, planviews, Elevation
- ✓ Quantity Take off and Cost Schedules
- ✓ Massing&Site(Model& Modifysite, ConceptualMass& Modelbyface)
- ✓ Insert (Decal, ImportCAD&LinkRevit&CAD Manage Materials MaterialCreations Lighting
- ✓ FamilyCreations Blend, Sweep, Sweepblend -VoidForms Extrude, Blend, Revolve, Sweep, Sweepblend
- ✓ Rendering, Walkthrough
- ✓ Exterior Model Concept, Interior Model Concept
- ✓ Lumion Introduction and its application
- ✓ Interactive Session 2 days

On DIGUL 62 Page

Dr.D.SENTHIL KUMARAN, W.E., Ph.D., (NUS)

Principal

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Kuttathupatti Village, Sindalagundu (Po),

Palani Road, Dindigul - 624 002.

DEPARTMENT OF CIVIL ENGINEERING - VALUE ADDED COURSE (REVIT ARCHITECTURE)  ${\bf III\ YEAR}$ 

S.No	NAME	27.1	.2020	28.1	.2020	29.1	.2020	30.1	.2020	31.1	.2020		
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6	Arun K G	1	1	/	1	1	,	1	1	1	1	Lan	-
7	Ashwin Bharath V	1	1	1	1	1	,	1	1	1	1	1	Mas
8	Balaji G	1	1	1		1	-	1	1	1	1	B	361
9	Balaji N	1	1	1	1	1	1	1	/	1	1		The same
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11	Chinna Kannan S	1	1	1	1	1	7	1	/	48	ÁB	PR-	nema
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17	Harini K	1	1	1	1	1	1	1	/	/	1	Flore	~
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21	Ilavarasi S	1	1	1	/	1	/		1		19	The	ravari,
22	Jai Prasanth V	1	1	1	1	1	1	1	/	1	1	Tai	Pravath
23	Jegadeesan P	1	1	/	1	1		/	1	1	14	Tan	Suran
24	Jeyavahini GPNS	1	/	1	/	1	1	1	1	1	1	Lin	_
25	Kali Dhivakar M	1	1	1	/	1	1	7	1	1	1	Tal	M
26	Karthika S	1	,	-	1	1	1	/	,	1	1	On	in
27	Karthikeyan T	1	1	1	1	1	1	1	1	1	1	1	the
28	Kavishree M		1	/	1	1	/	/	1	1	1	MIL	ander
29	Kishore Arvind B	1	/	1	1	1	1	1	/	1	1	BU	I have
30	Laabha Dharshine K	7	1	1	/	1	,	/	/	1	1	Po [	abhar
31	Lakshmanan B	1	1	1	1	1	,	1	/	/	1	Tal.	manan
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34	Mahalingasiva T	1	1	1	1	1	1	1	/	1	1	Ma	alijama
	Maheshwaran P	1	',	1	1	1	1	/	1	1	1	1.1.1	~
36	Manojprabakar R	1	1	1	1	1	1	7	1	,	/		i
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	Mohamed Aarif A	',	1	1	1	7	1	1	1	-		7	-
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	sering and						/		1			W	هالم

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology Euttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

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41	Mohan Raj K	1	1	1	1	/	11	1	1	1	1	Mahades
42	Muneeskumar M	1	1	,	/	1		1	/	1	1	1 Luciana
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44	Naveen Kumar K	1	,	CIP	70	1	1	-	1	,	,	VAM
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49	Pichai Mani K	1	4	-,	5		_/	-	-	1		O TOWN
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51	Pragatheeswaran P	4	7	,	/	1	1	/	/,	-		Prageterion
52	Prasanna M	/	1		/	_/_	/		/	/	1	Rossins
53	Priyadharshini V	1	/	/	1	/	1	1	/	1	1	V. Lingth
54	Pugazhenthi A	1	1	1	1	1	/	/	1			A. Parkin
55	Ragupathy V	/	/	1	1	1	1	/	1	/	/	Rappy
56	Rahul R	4	1	1	1	1	1	/	/	1	/	THE
57	Rahul Prabu R	1	1	1	1	1	1	1	/	1	1	Lan Jub
58	Rajesh B	1	/	/	1	1	1	1	/	1	1	P. Pajol
59	Ramya Sri G	/	1	1	1	1	1	1	1	1	1	Freder-
60	Sabarigirinathan S	/	1	/	/	1	1	1	1	1	1	C. Salean C
61	Sabari Kishore S	/	,	1	1	1	1	1	1	1	1	I aministre
62	Sanjeev Kumar A	/	1	1	1	1	1	1	1	1	1	Carperky
63	Sastha Ajay M	1	1	/	1	,	,	1	1	1	1	Southe Any
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65	Sethu Arun A S	1	1	1	1	1	1	1	1	1	1	Au M.S
66	Shahid Afrid S	1	1	1	1	AR	A	1	1	1	1	2011
67	Shalini P	/	1	1	1	1		,	1	1	1	Dollary
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Dr.D.SENTHIL KIIMARAN, M.E., Ph.D., N.C., Principal SSM Institute of Engineering and Technology Kuttathupatti Village Sindulagundu (Pc), Palani Road, Dindigut 624 002.

### REVIT ARCHITECTURE ASSESSMENT

TOTAL MARKS: 50

The Word "Revit" stands for
2. Revit was developed in the year a) 1982 b) 1999 c) 2002
3. The File extension for Revit is  a) re b) rvt c).rsp
4. Revit is a product of
5. Revit is mainly based on
6. The inbuilt options in Revit are stored as a) Libraries b) Families c) Elements.
7 The first company who developed Revit was
8. The dimension displayed while creating elements are known as a) Temporary Dimension b) Listening Dimension c) Spot Dimension.
9. The main feature in Revit is b) Parametric Change c) Annotations & Text.
10. The model graphics styles are of a) Wireframe b) Shading c) All the above
11. In Revit which helps to switch over from one to another view  a) Design bar b) Project Browser c) Options bar
12. The template file in Revit has an file extension ofa).rvt b).rte c).rfa
a) Families b)Massing c)Fdit Profile.
14. The height of the wall can be given in a) Options bar b)Instance Properties c)Both a&b
15. The instance properties changes is applied for
16. The thickness of an element can be given in  a) Instance Properties  b) Type Properties  c) Both a&b  C) Both a&b  Euttathupatti Village Sindalagundi [Po].  Palani Road, Dindigul - 624 002

17. The option used t a) Constrain	o move an object b) Disjoin	t without stretching is c) Drag	3
18 The Elevation view a) Floor plan	ws are to be displ b) Levels	layed for creating c) Ceiling plan	1
19 The Assign Layer a) Instance properties			
20. The creation of Roof is a) Sketch view	s applied inb	View.  ) Plan Region	c) Floor plan
21 The Materials appl a) True b) Fals		t can be viewed direct	
22 In Revit the Render a) Archi Ray	ring is done using b) Light Works	c) Mental Ray	
23 To create different type a) Wall Opening	es of Openings in W b) Edit P		weep
24 How many types of Cu a) One	utain Walls are avai b) Two	lable in Wall Selection op c)Three	otion
25 Creation of Grids at a) Two	nd Mullions is do b) Four	c)Three	_methods.
26 Legend view in Rev a) Legend Component	vit is created usin ts b)	g Legend Elements	c) Legend Areas
27 Different views can a) Sheet View I			
The state of the s	chedules any char o) False.	nges done in Schedule	e view will be updated in all views.
29 The Autocad file car a) Merge B	n be brought to R b) Link	evit file using	
30 The keyframes in the halfine b	e Walkthrough ca b) False.	nn be set by the users.	
1 The Walkthrough fil ) Save option in 3d	e can be saved us b) Save op		Export
2 The shortcut key use ) U b) PU	d to open Project c)UN	Units dialog box is _	A.,
3 The Autocad 3d obje 1) True b) False.	cts can be bought	t directly to Revit file	The state of the s
34 The colour of the Texas True b) False.		nnot be changed direct	Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal
35. What is the purpose of	of View Cube		SSM Institute of Engineering and Technology Kuttathupatti Villagi andalagundu (Po), Palani Road, Dindigui 02+002.

a) Displays the view selected in project browser. c) All the above	b) Works as an orientation control for 3d views.
36.Host Elements in Revit are of a) Walls b) Doors c) 1	Furniture
a) Horizontal b) Vertical elements.	l Extents of wall
38 The Element properties are of two types .The a)Instance and Type b) Type and Elem	ents and c) Type Selector and Instance
39 In Edit Wall join the angle at which Butt & S a) 25 degree b) Less than 25 de	equare off joins will not work  gree c)Less than 20 degree.
40.By default Rotate base point starts froma) Base End point b) Center point	c) Any point be edited
41. After creating an Array the no of objects can a) Time b) False.	be edited
42 Pinned objects are used to a) Group the Elements b) Lock th	e Elements  c) Resize the Elements
43. The Symbols which displays while fixing the a) Keynote b) Tag	c) Markers
44 In dimension the length of the arc can be spe a) Arc length b) Angular	cified by using c) Aligned
45. We can edit the title block families that are c newer version	reated with earlier version is updated with a
46. While activating a viewport placed on a draw	ving sheet, the drawing sheet will be
47. What type of Roof is created by default a) Sloped Roof b) Flat Roof	? c) Tapered Roof.
48. The Detail view is used for displaying a) Construction Details b) Level D	retails c) Section Details
49.Legend view contains b) Graphic	al Representation c) Design Representation
50 While working with drawing sheets the pape a) True b) False.	r size can be mentioned

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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REVIT ARCHITECTURE ASSESSMENT	TOTAL MARKS: 50
The Word "Revit" stands for  a) Revise Elements b) Revise Instantly c) Revise views	
2. Revit was developed in the yeara) 1982 b) 1999 c) 2002	$-\left(\frac{30}{30}\right)$ .
3. The File extension for Revit is a) re b) rvt c).rsp	600
4. Revit is a product of	Engineering on 2
5 Revit is mainly based on  a) Drafting b) Designing Modelling.	institute of the control of the cont
6. The inbuilt options in Revit are stored as Libraries b) Families c) Elements.	A CO. WOLGHI - ES WEEK
7 The first company who developed Revit was	
8. The dimension displayed while creating elements are known as a) Temporary Dimension b) Listening Dimension c) Sp	pot Dimension.
9 The main feature in Revit is	c) Annotations & Text.
10 The model graphics styles are of	
11. In Revit which helps to switch over from one to another view  a) Design bar  b) Project Browser  c) Options bar	
12 The template file in Revit has an file extension of	
13. The customisation of virtual models can be made using	
a) Families b) Massing c) Fait Profile.	X
14. The height of the wall can be given in	
a) Options bar b)Instance Properties c)Both a&b	
15 The Instance properties changes is applied for	
	Default changes.
a) Instance Properties (C) Both a&b	Dr. D. CENTRUM
	DI.D.SENTHIL KUMARAN MEZPAD., (NUS)
	SSM Institute of Engineering and Technology
	Rattathupatti Villege Sindulagundu (Poj. Paleni Road thudhent 624 102

17. The option us	ed to move an obje	ect without stretchi	ng is		
a) Constrain	b) Disjoin	c) Drag	/		
18 The Elevation a) Floor plan	views are to be dis	splayed for creating c) Ceiling		-	
19 The Assign La a) Instance proper	yer option in Revi ties by Duj	t is applied to an Workicate c)	Vall element in Type property		
20 The creation of Ro a) Sketch view	oof is applied in	View. b) Plan Region	c) Flo	oor plan	
21 The Materials a	applied to an elementary	ent can be viewed	directly in 3d?		
22 In Revit the Re a) Archi Ray	ndering is done us b) Light Works		Ray	gwigh	ano Ja
23 To create different a) Wall Opening			Vall Sweep	Turk of 67	a de la composição de l
24 How many types (a) One	of Curtain Walls are a	vailable in Wall Select c)Three	ion option	dullisul M.S.S.	DINDIGULET
25 Creation of Grid a) Two	ds and Mullions is b) Four	done using	methods.		
26 Legend view in 17 Legend Compos		b) Legend Elemen	ts c) Leg	gend Areas	
27.Different views a) Sheet View	can be taken to the	c) Floor plan	View		
28 After creating that True	he schedules any cl J. False.	hanges done in Sch	edule view will be	updated in all v	iews.
29 The Autocad file a) Merge	e can be brought to		port		
30 The keyframes in	n the Walkthrough b) False.	can be set by the u	isers .		
31. The Walkthrough a) Save option in 3d		usingoption in 2d	Export		
32 The shortcut key a) U b) PU	The state of the s	ect Units dialog bo	x is		
33 Five Autocad 3d (a) True b) Fa		ght directly to Rev	it file	My	
34. The colour of the a) True b) F	Texture Material alse.	cannot be changed	pr.D.Sentill	W. B. M. S. C.	180
35. What is the purp	ose of View Cube_		SSM Institute It for		র্থি
				(2)	

a) Displays the view selected in project browser. b) Works as an original All the above	entation control for 3d views.
y) All the move	of Engineering
36 Host Elements in Revit are of	3
a) Walls b) Doors c) Furniture	
37 Levels are finiteelements.	1 5 C
a) Horizontal b) Vertical b) Vertical Extents of wall	CONDIGUE ACT OF
38. The Element properties are of two types . They are an	d .
	Type Selector and Instance
39 In Edit Wall join the angle at which Butt & Square off joins will no	t work
	Less)than 20 degree.
40.By default Rotate base point starts from	
a) Base End point b) Center point c) Any po	int
41 After creating an Array the no of objects can be edited	
time b) False.	
42. Pinned objects are used to	
a) Group the Elements b) Lock the Elements c)	Resize the Elements
43 The Symbols which displays while fixing the Doors & Windows at	re known as
a) Keynote b) Tag c) Markers	
44 In dimension the length of the arc can be specified by using	
a) Arc length b) Angular c) Aligned	
45 We can edit the title block families that are created with earlier ver	sion is undated with a
newer version	sion is apaared with a
a) True by False.	
46. While activating a viewport placed on a drawing sheet, the drawin	g sheet will be
a) Active b) mactive c) Invisible	g sheet will be
47. What type of Roof is created by default ?	
Sloped Roof b) Flat Roof c) Tapered Roof	
48 The Detail view is used for displaying	
	Section Details
	Section Details
49 Legend view contains	
a) Tabular Representation b) Graphical Representation	c) Design Representation
50. While working with drawing sheets the paper size can be mention	ad
a) True b) False.	
of talse.	4)11
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	JULY 1
	Marie Comment

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Kuttathupatti Village, Sindalagundu (Po),
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REVIT ARCHITECTURE ASSESSMENT	TOTAL MARKS: 50
1. The Word "Revit" stands for	(2)
2. Revit was developed in the year a) 1982 b) 1999 c) 2002	( 750 )
3. The File extension for Revit isa).rte b) .rvt c).rsp	
4. Revit is a product of	ol Engineering
5. Revit is mainly based on a) Drafting b) Designing c)Modelling.	Sam Institution of Control of Con
6. The inbuilt options in Revit are stored as a) Libraries b) Pamilies c) Elements.	ONO/GUL-624 002
7. The first company who developed Revit was Charles River Software b) Autodesk c) Benteley.	
8. The dimension displayed while creating elements are known as Temporary Dimension b) Listening Dimension c) Spot Di	mension.
9. The main feature in Revit is a) Views of Section & Elevation b) Parametric Change	Annotations & Text.
10. The model graphics styles are of  a) Wiretrame  b) Shading  c) All the above	
a) Design bar b) Project Browser c) Options bar	
12. The template file in Revit has an file extension of	
13. The customisation of virtual models can be made using	$\swarrow$
14. The height of the wall can be given in  a) Options bar  b) Instance Properties  Both a&b	2/11.
a) Only selected Wall b) All the wall c) Defaul	t changes.
	ENTHIL KUMARAN, M.E., Ph.D., (MUS)
V	stitute of Engineering and Technology athupath Village Sindulaguady (Po), ien: Road, Dindigul - 624 002

17. The option used to move an object without stretching is	
a) Constrain b) Disjoin c) Drag	
18. The Elevation views are to be displayed for creating	
a) Floor plan b) Levels c) Ceiling plan	-
19 The Assign Layer option in Revit is applied to an Wallelement in	
a) Instance properties b) Duplicate c)Type property	
20 The creation of Roof is applied in View.	
Sketch view b) Plan Region c) Floor plan	
21. The Materials applied to an element can be viewed directly in 3d?	
a) True b) raise	
22 In Revit the Rendering is done using	
a) Archi Ray b) Light Works c) Mental Ray	
23 To create different types of Openings in Wall we can use	
23 To create different types of Openings in Wall we can use  a) Wall Opening  b) Edit Profile  c) Wall Sweep  24. How many types of Curtain Walls are available in Wall Selection option  a) One  c) Two  c) Three	
24 How many types of Curtain Walls are available in Wall Selection option	
a) One b) Two c)Three	
25 Creation of Grids and Mullions is done using methods.	
a) Two b) Four of three methods.	
26 Legend view in Revit is created using	
a) Legend Components D' Legend Elements c) Legend Areas	
27. Different views can be taken to the sheet using	
a) Sheet View b) Place View b) Floor plan View	
28. After creating the schedules any changes done in Schedule view will be updated in all views.	
a) Tine by False.	
29. The Autocad file can be brought to Revit file using	
n) Merge b) Link c) Import	
10 The keyframes in the Walkthrough can be set by the users.	
True b) False.	
1. The Walkthrough file can be saved using	
) Save option in 3d b) Save option in 2d c)Export	
2. The shortcut key used to open Project Units dialog box is	
b) PU cyton	
3 The Autocad 3d objects can be bought directly to Revit file .	
True b) False.	
34. The colour of the Texture Material cannot be changed directly in Revit D. SENTER STORAGE AND	יפו <sup>י</sup>
a) True by False.	9
35 What is the purpose of View Col	J
Kuttathupatti Vitesze bindelagundu (Po),	
Palani Roed, Dinagul - 624 002.	

a) Displays the view selected in project browser. b) Works as an orientation control for 3d views.
36. Host Elements in Revit are of
37.Levels are finite elements. b) Vertical c) Vertical Extents of wall
38. The Element properties are of two types . They are and and a)Instance and Type b) Type and Elements c) Type Selector and Instance
39.In Edit Wall join the angle at which Butt & Square off joins will not work  a) 25 degree  b) Less than 25 degree  c) Less than 20 degree.
40. By default Rotate base point starts from  a) Base End point  b) Center point  c) Any point  41. After creating an Array the no of objects can be edited  a) Time  b) False.
41. After creating an Array the no of objects can be edited  a) The by False.
42. Pinned objects are used to  a) Group the Elements  b) Lock the Elements  c) Resize the Elements
43. The Symbols which displays while fixing the Doors & Windows are known as  a) Keynote  b) Tag  Markers
44 In dimension the length of the arc can be specified by using
45. We can edit the title block families that are created with earlier version is applied with a newer version
46. While activating a viewport placed on a drawing sheet, the drawing sheet will be a) Active b) Inactive c) Invisible
47. What type of Roof is created by default ? a) Stoped Roof b) Flat Roof c) Tapered Roof.
48. The Detail view is used for displaying
49.Legend view contains  a) Tabular Representation  b) Graphical Representation  c) Design Representation
50. While working with drawing sheets the paper size can be mentioned  a) True  b) False.
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Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)  SSM Institute of Engineering and Technology  Palam Road, Dindigut, 624 (10.0)
Pelant Road, Dindigut - 624 002

### Department of Civil Engineering

### STUDENT FEEDBACK FORM

Name of the Student: Anand. S

Year/Sem: I yr

Date: 31-1.20

Dear Student,

You are required to give your feedback on the following aspects.

S No	Criteria	Rating					
		Excellent	Very good	Good	Fair	Satisfactory	
1	Course content						
2	Skill development		-				
3	Motivation						
4	Regularity and Punctuality of trainer						
5	Coverageof syllabus			1			
6	Interaction						
7	Individual attention						
8	Outcome						

Faculty In-charge

Dr.D. SENTHIL KUMARAN, W.E., Ph.D., (NUS)

 $p_{TIRCIDAl}$ 

SSM Institute of Engineering and Technology Kuttathupatu Villege Sindalagundu (Po), Palant Road, Dindigul - 624002.

### Department of Civil Engineering

### STUDENT FEEDBACK FORM

Name of the St	udent:
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G. Doepika

Year/Sem:

III yr

Date: -

1.20

Dear Student,

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S.No	Criteria	Rating					
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5	Coverageof syllabus						
6	Interaction				Carrolly.		
7	Individual attention		-				
8	Outcome		1				

Faculty In-charge

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Francipal

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### Department of Civil Engineering

### STUDENT FEEDBACK FORM

Name	ofthe	Student:		Kart
	~	~	0	Tur.

Year/Sem: III YY

Date: 31-1-20

Dear Student,

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S.No	Criteria	Rating					
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2	Skill development			1			
3	Motivation						
4	Regularity and Punctuality of trainer		1				
5	Coverageof syllabus						
6	Interaction						
7	Individual attention						
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Faculty In-charge

Engineering and Technology

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)

Principal

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Kuttathupatti Village Sindalagundu (Fo),

Palani Road, Dinuigui - 624 962.

### Department of Civil Engineering

### STUDENT FEEDBACK FORM

Name of the Student:

M. Karishree

Year/Sem: III yr

Date: 31. 1. 20

Dear Student,

You are required to give your feedback on the following aspects.

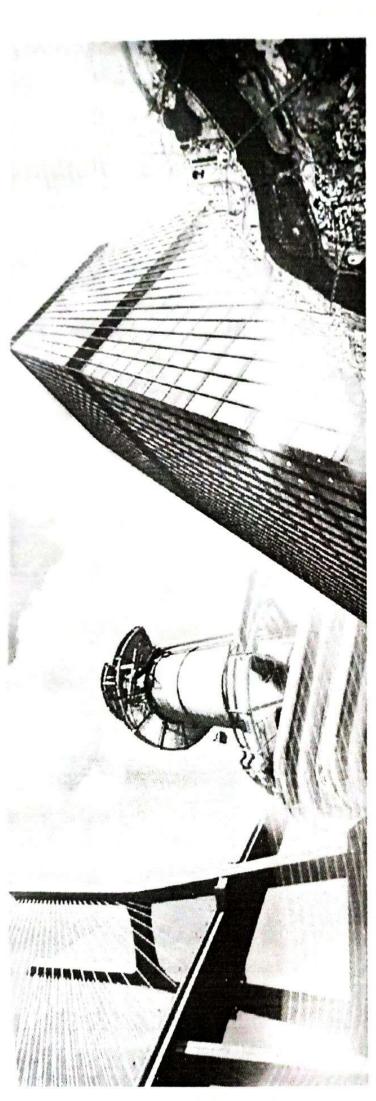
S.No	Criteria	Rating					
		Excellent	Very good	Good	Fair	Satisfactory	
1	Course content			_			
2	Skill development						
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Faculty In-charge

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Course Title

**DEVENDIRAN K** 

Instructor

Course Duration

35 Hours

Course Starting Date 27/1/2020

Course Ending Date 31/1/2020

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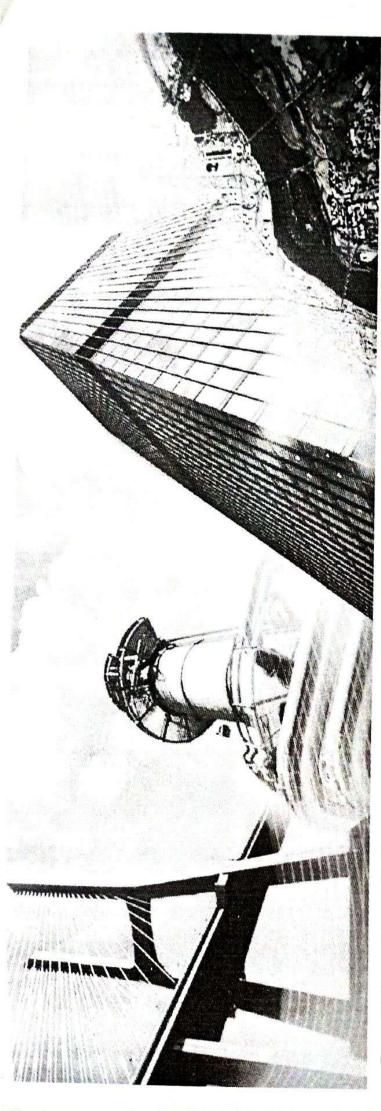


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KAVISHREE M

RIVET ARCHITECTURE

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Course Duration

**DEVENDIRAN K** Instructor

Course Starting Date

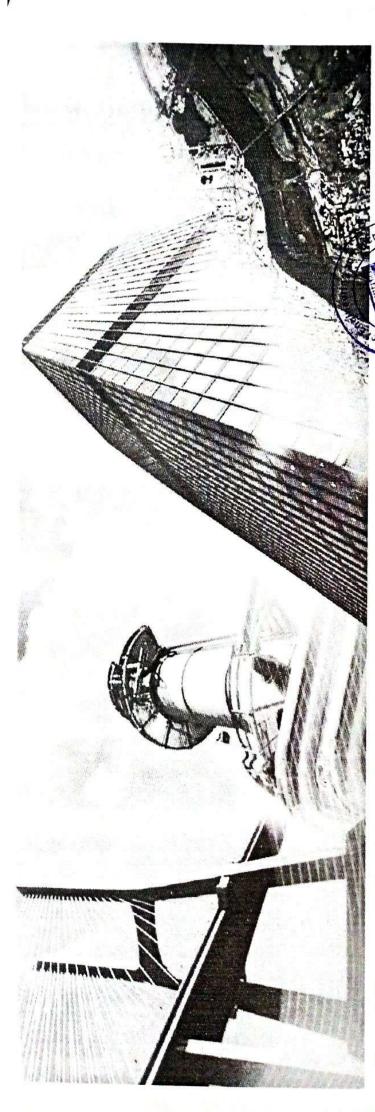
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RIVET ARCHITECTURE Course Title 27/1/2020

**DEVENDIRAN K** Instructor

Course Starting Date

31/1/2020

Course Ending Date

35 Hours
Course Duration

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