SSM Institute of Engineering and Technology,
Dindigul-624002.

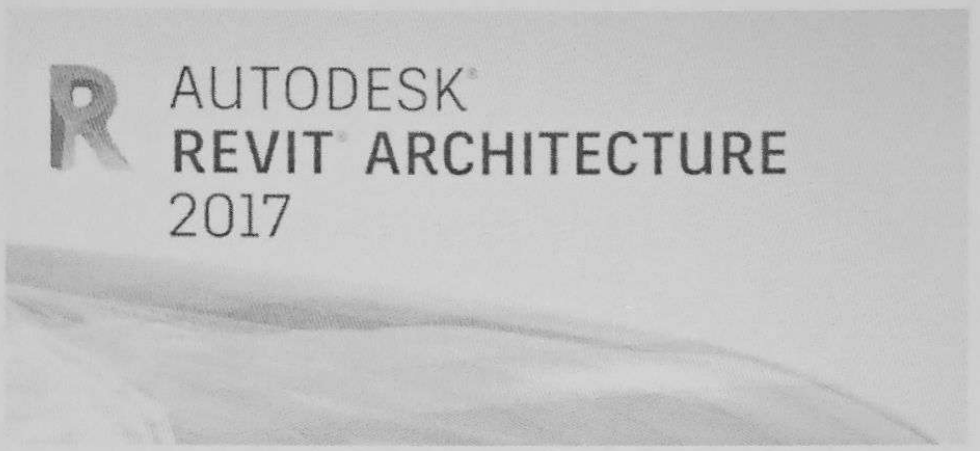
DEPARTMENT OF CIVIL ENGINEERING

Staad Pro

Technology Training

SSM Institute of Engineering and Technology,
Dindigul-624002.

DEPARTMENT OF CIVIL ENGINEERING



Cadd Technologies School of design Private limited,
Coimbatore-641 009.

Technology Training

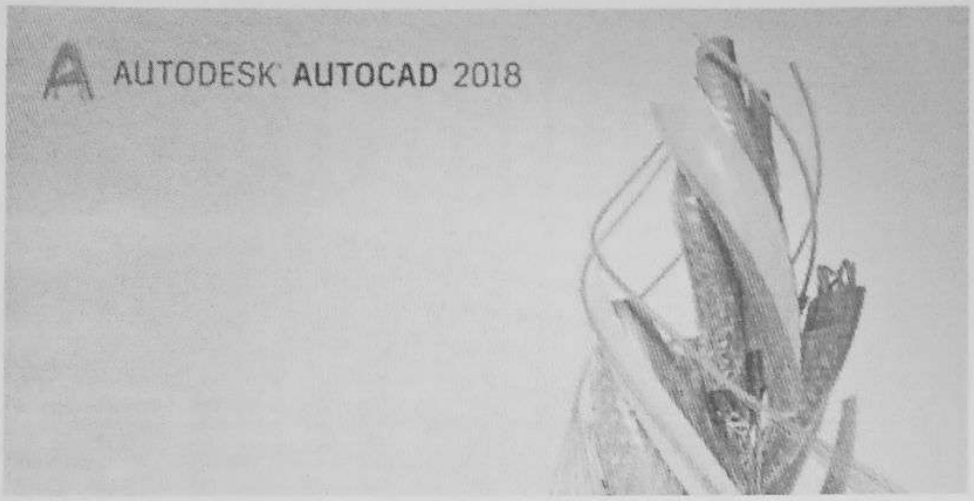
REVIT ARCHITECTURE

2020-21

THIRD YEAR 2020-21

SSM Institute of Engineering and Technology,
Dindigul-624002.

DEPARTMENT OF CIVIL ENGINEERING



Cadd Technologies School of design Private limited,
Coimbatore-641 009.

Technology Training

AUTO CAD

2020-21

SECOND YEAR 2020-21

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 25.09.20

CIRCULAR

It is planned to conduct Value Added Course for IV year students by Department of Civil Engineering along with CONCEPTEURS

S.No	Year	Name of the Course	Period	No. of Days
1.	IV Year	STAAD PRO	01.10.20 to 15.10.20	11 Days

Faculty In-charge

HoD/Civil

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 18.12.20

CIRCULAR

It is planned to conduct Value Added Course for III year students by Department of Civil Engineering along with CADD TECHNOLOGIES SCHOOL OF DESIGN PVT, LTD.

S.No	Year	Name of the Course	Period	No. of Days
1.	III Year	REVIT ARCHITECTURE	21.12.20 to 29.12.20	7 Days

Faculty In-charge

HoD/Civil

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 18.12.20

CIRCULAR

It is planned to conduct Value Added Course for II year students by Department of Civil Engineering along with CADD TECHNOLOGIES SCHOOL OF DESIGN PVT, LTD.

S.No	Year	Name of the Course	Period	No. of Days
1.	II Year	Auto CAD	04.01.21 to 08.01.21	5 Days

Faculty In-charge

HoD/Civil

STAAD PRO V8*i*

Sl.No	Content
1	Introduction to basic principles of Structural, Analsis and Design
2	Co-ordinate Systems , Units
3	Model Generation, Creating Nodes & Members
4	Model Editing Tools, Select Menu, Add Beam, Insert Node
5	Support Specification, Member Property and Material Specification
6	Loading - Creating a Primary Load
7	Loading - Nodal Load , Member Load
8	Wind Load, Moving load, Creating Load Combination
9	Introduction to Analysis
10	Perform Analysis, Overview of Output Page,Pre-analysis Print and Post-analysis Print
11	RC Design - Column and beam
12	FEM Modelling , Generate Plate Mesh
13	Member Truss, Plate Load
14	Slab Design- One way and Two way
15	Shear wall Modelling and Design
16	Introduction Seismology, Dynamic Analysis, Response Spectrum Analysis
17	Water Tank Design
18	Staircase Design

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- 3DView,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, Sweptblend -VoidForms - Extrude, Blend, Revolve, Sweep, Sweptblend
- ✓ Rendering, Walkthrough
- ✓ Exterior Model Concept, Interior Model Concept
- ✓ Lumion Introduction and its application
- ✓ Interactive Session – 2 days

AutoCAD

S.NO	CONTENT
1	Introduction to CAD/CAM/CAE & Introduction to AutoCAD & Design Basics
2	Units, Limits, Drafting Settings, Selection Methods
3	Modify(Erase, Move, Copy, Rotate, Trim, Extend)Draw(Polyline, rectangle, Polygon)
4	Draw(Arc, Ellipse, Spline, Point, Hatch, Region, Revision Cloud, Wipe Out, Construction Line, Ray, Donut)
5	Modify(Array, Break, Break at point, Fillet, Chamfer, Scale, Lengthen, Stretch, Explode, Join, Align)
6	Annotation(Text, Dimensions)
7	Annotation(Leaders, Table, Scaling)
8	Property Tool bar, Layer Tool bar, Draw order
9	Drafting Settings(Infer Constraint) & Parametric Constraints
10	Block & Dynamic Block
11	Isometric View, Customize Hatch
12	Layout & Plotting
13	Introduction of 3D,Views,Viewports,Orbit,Visual styles
14	Solid Creation,3D Modify & UCS
15	Solid Editing & Material
16	Surface Creation
17	Surface Editing
18	Mesh (Creation& Editing),Section
19	Rendering Materials, Lighting
20	Motion Path Animation

SSM Institute of Engineering and Technology

sindalagundu post, Dindigul-624-002, Tamilnadu, pH: 0451-2448800
(Approved by AICTE, Affiliated to Anna University, Chennai Accredited by NAAC)

Department of Electrical and Electronics Engineering

Organizes

Six days Technology Training Program on

" Industrial Automation "

For the IV year students of EEE

from (18.10.2021 to 23.10.2021)

Trained by

Shree Technologies Private Limited, Coimbatore

Co-ordinators	HoD	Principal
Mr.D.Manoj,AP/EEE Mr.P.Siva Subramanian, AP/EEE	Dr.C.Mohanbabu	Dr.D.Senthil Kumaran

All are Invited

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
Dindigul-Palani Highway, Dindigul-624002

CIRCULAR

14/10/2021

This is to inform that five days training program on **INDUSTRIAL AUTOMATION** is going to conduct for IV year EEE students from 18.10.2021 to 23.10.2021, by Shree Technologies private limited, Coimbatore. All the students are informed to attend and enrich your knowledge.

Faculty In-charge

HOD/EEE

pics Covered

- **Programmable Logic Controllers (PLC)- Advance**

troduction to PLC

Topic	Mode
➢ Introduction to PLC hardware and role in automation ➢ Architectural Evolution of PLC ➢ Introduction to the field devices attached to PLC	Presentation and physical observations
➢ PLC Fundamentals – (Block diagram of PLC's) ➢ Detail information about PLC components o Power supply, CPU, I/Os, Communication bus ➢ Various ranges available in PLC's	Practical demonstration on hardware
➢ Types of Inputs & outputs / Source Sink Concepts ➢ Wiring of the I/O devices	Practical on PLCs
➢ Concept of flags ➢ Scan cycle execution	Practical on PLCs

peration and Maintenance of PLC

Topic	Mode
➢ Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus	Practical – Assembling PLC
➢ Connecting Field devices to PLCs I/Os	Practical –Physical wiring
➢ Installing and to starting the programming terminals	Practical – Installation of software
➢ Identifying the status of PLC and communication bus	Practical on PLCs
➢ Fault detection and error handling	Practical on PLCs
➢ Forcing of the I/O's	Practical on Software
➢ Back up of the programs and reloading	Practical on PLCs
➢ CPU, I/O module replacements	Practical on PLCs

Allenbradley (AB)

Operation and Maintenance of PLC

Topic	Mode
➢ Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus	Practical – Assembling PLC
➢ Connecting Field devices to PLCs I/Os ➢ Configuring Local 1756-I/O Modules	Practical –Physical wiring
➢ Connecting a Computer to a Communications Network	
➢ Installing and to starting the programming terminals ➢ Creating & Modifying an RSLogix new project ➢ Transferring a Project File to a Logix500 Controller	Practical – Installation of software
➢ Identifying the status of PLC and communication bus	Practical on PLCs
➢ Creating Tags & Monitoring Data in an RSLogix 500 Project ➢ Forcing of the I/O's	Practical on Software
➢ Managing RSLogix 500 Project Files ➢ Back up of the programs and reloading	Practical on PLCs

Programming / Project Development

Ladder Logic Programming/Interpretation ➢ Identifying Programming Strategies & Techniques ▪ Documenting & Searching Ladder Logic ▪ Programming N/o,N/c Instructions ▪ Programming Timer & Counter Instructions ▪ Programming Program Control Instructions ▪ Programming Compare Instructions ▪ Programming Compute & Math Instructions ▪ Programming Move Instructions ▪ Programming with Advance Instruction Set	Practical – Programming terminal
➢ **Introduction to industrial networking** ➢ Identifying Industrial Networks for Use in a RSLogix500 System	Theory session

Supervisory Control & Data Acquisition Software (Wonder ware InTouch 10.0)

Topics Covered

- Applications of SCADA software
- Different packages available with I/O structure
- Features of SCADA software
- Creating a new SCADA application
- Creating Database of Tags
- Creating & Editing graphic display with animation
  - ✓ Data Entry
  - ✓ Start Stop command
  - ✓ Analog entry
  - ✓ Sizing,
  - ✓ Movement,
  - ✓ Blinking,
  - ✓ Visibility, Filling
- Trending
  - ✓ Creating & Accessing Real-time
  - ✓ Creating & Accessing Historical Trends
- Creating and Accessing Alarms
- Creating and Accessing Events
- Writing logic through script
- Window script
- Application script
- Writing script on industrial application
- Bottle filling plant
- Process automation plant
- Connectivity with the different hardware
  - ✓ Communication protocols
  - ✓ Communication with PLC
  - ✓ Connectivity between software
- Troubleshooting the application
  - ✓ Fault diagnostics and error handling
  - ✓ Sorting communication problems

Programmable Logic Controllers (PLC) –Delta PLC

Topics Covered
Programming / Project Development

Topic	Mode
➢ SIMATIC S7 PLC Functionalities ➢ Setting up Delta PLC hardware	Practical on PLC's
➢ Programming software ▪ PLC program structure in delta ▪ The instruction set of WPL Soft ▪ Parameters, functions and tools	Practical – PLC programming software
➢ CPU configuration, setting parameters and application of several I/O cards using the software	Practical – PLC programming software
➢ Addressing Concepts in Delta PLC's ➢ Detail information about Organizational Blocks, Function Block, Functions, System Function Block, System Function, Data block	Practical – PLC programming software
➢ Creating and Editing PLC programs ➢ Introduction to Bit Byte and Word Concept	Practical – PLC programming software
➢ Programming instructions arithmetic and logical ▪ Load /and /or/out / and Read / Write ▪ Compare / Add / Sub /And /Or – Blocks ▪ Leading edge / trailing edge instructions ▪ MOVE block application	Practical – PLC programming software
➢ Programming instructions arithmetic and logical ▪ Timer Blocks programming ▪ Counter Block programming ▪ Comment functions ▪ Comments in the PLC programs ▪ Handling Analog I/Ps	Practical – PLC programming software

VFD – Variable Frequency Drives

Variable Speed Drives

- Introduction to Ac Drives
- Selection Criteria Of Drives
- Configuration Of Parameter
- Remote And Local Operation
- Communication With PLC/SCADA software
- Troubleshooting
- Case Study And Different Applications Of Drives In The Industry

ENTHU ACADEMIC SOLUTIONS

(ACADEMIC DIVISION OF ENTHU TECHNOLOGY SOLUTIONS INDIA PVT LTD)

an Technology Teaching on

Python & Its Applications

26th to 30th, April 2021

03rd to 07th, May 2021

01.30 PM to 04.30 PM

Event for

SSM Institute of Engineering & Technology, Dindigul

Dr.K.Vinoth Kumar Coordinator	**Mrs.A.Geetha** Faculty In-Charge	**Mr.J.Vetrimanikumar** Faculty In-Charge
Dr.S.Karthigai Lakshmi HOD/ECE	**Dr.D.Senthil Kumaran** Principal	

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Email:ssmietdgl@gmail.com , Website: www.ssmiet.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CIRCULAR

20.04.2021

The **Department of ECE** has planned to conduct the value-added course for Third year students on **"Python Programming"** is scheduled to be conducted on 26.04.2021 onwards. The main objective of this course is to acquire programming Skills in core Python and develop the skill of designing Graphical user Interfaces. The Students are asked to use this opportunity effectively.

Course Title	Resource Person (Visiting Faculty)	Duration	No of hours
Python Programming	Mr.G.Gowthamraj Technical Manager Enthu Technology Bangalore & Coimbatore.	26.04.2021 to 22.05.2021	50

Coordinator / VAC	Faculty In-charge	HoD/ECE	Principal
Dr.K.Vinoth Kumar	Mrs.A.Geetha Mr.J.Vetrimanikumar	Dr.S.Karthigai Lakshmi	Dr.D.Senthil Kumaran

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Syllabus

1. Introduction
2. Environment Setup
3. Python Environment Variables
4. Basic Syntax
5. Python Identifiers
6. Quotation in Python
7. Command Line Arguments
8. Data Type Conversion