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

2018-19

THIRD YEAR 2018-19

SSM Institute of Engineering and Technology,
Dindigul-624002.

DEPARTMENT OF CIVIL ENGINEERING

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

Technology Training

STAAD PRO

2018-19

FINAL YEAR 2018-19

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 24.08.18

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	AUTO CADD	03.09.2018 To 07.09.18	5 days

Faculty In-charge

HoD/Civil

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul 624 002

Date: 10.09.18

CIRCULAR

It is planned to conduct Value Added Course for IV 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.	IV Year	STAAD PRO	17.09.18 To 21.09.18	5 days

Faculty In-charge

HoD/Civil

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

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

24.07.2018

From,

Ms. S. Bharathi, Ms. V. Nivedhitha, Ms. N. Padma Priya,
Assistant Professors, Department of CSE,
SSM Institute of Engineering and Technology,
Dindigul.

Through,

The Head of the Department,
Department of CSE,
SSM Institute of Engineering and Technology,
Dindigul.

To,

The Principal,
SSM Institute of Engineering and Technology,
Dindigul.

Respected Sir,

Sub: Requisition for conducting Value added course for CSE students - Reg.

This is to let you know that we have planned to conduct a Value Added Course on "Solving Problems using Python Programming" from 06.08.2018 onwards for our III and IV CSE students. In this regard, we kindly request you to provide permission for the same.

The course details are attached herewith for your reference.

Thank You.

1. 24/7/18 [S. BHARATHI]
2. 24/7/18 [V. NIVEDHITHA]
3. 24/7/18 (N. Padmapriya)

Faculty In-charge

24.07.18

HOD/CSE

(Dr. V. SHANMUGAM)

24/7/18

PRINCIPAL

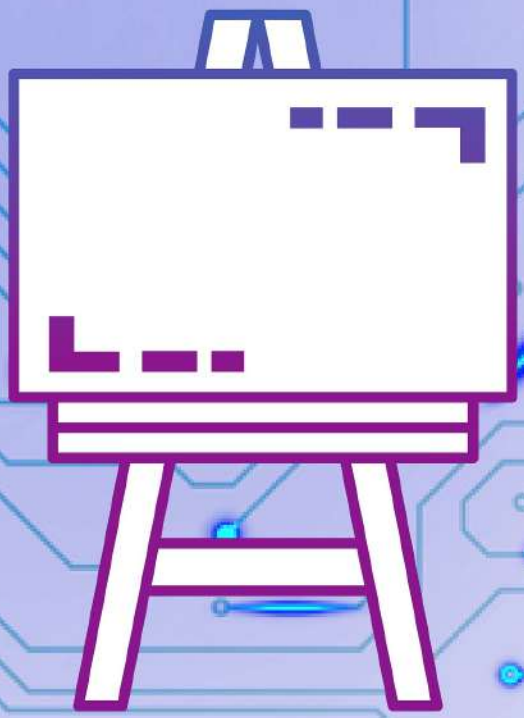
Technology Training

Solving Problem Using Python Programming

SSMIET

Instructurs

- V. Nivedhitha
- S. Bharathi
- N. Padmapriya



Let's Join Us!

HOD/CSE

DR. V. SHANMUGAVEL

PRINCIPAL

DR. M. SARAVANAN

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Department of Computer Science and Engineering

Value added course

on

"*Solving Problems using Python programming*"

Course Schedule

Course Venue: Computer lab - 2 (Hands on training) **Lecture Hall:** A-202
Timing: 4.30 p.m. to 5.30 p.m.

Sl. No.	Date	Topic to be covered	Course Instructor
1.	06.08.2018	Python interpreter and interactive mode, Values and types: int, float, boolean	N.Padma Priya, V.Nivedhitha
2.	07.08.2018	Operators, Precedence of operators	
3.	08.08.2018	Conditionals: if, if-else, if-elif-else	
4.	09.08.2018	Iteration: while, for, break, continue, pass	
5.	10.08.2018	Strings, string slices, String methods	
6.	16.08.2018	Lists, list slicing, List methods, cloning and aliasing lists	V.Nivedhitha, S.Bharathi
7.	17.08.2018	Tuples, Tuple assignment	
8.	18.08.2018	Dictionaries, operations and methods	
9.	20.08.2018	Modules and functions, function definition and use	
10.	21.08.2018	Parameters and arguments	
11.	23.08.2018	Fruitful and Recursive functions	S.Bharathi, N.Padma Priya
12.	24.08.2018	Files, file operations	
13.	25.08.2018	Errors and Exceptions, Handling exceptions	
14.	27.08.2018	Command Line Arguments	
15.	28.08.2018	Modules and Packages	
16.	29.08.2018	Simple Applications	Ms. S. Bharathi, Ms. V. Nivedhitha, Ms. N. Padma Priya
17.	30.08.2018	Simple Applications	
18.	31.08.2018	Project Idea Presentation(Proposal Submission)	
19.	12.09.2018	Submission of Mini-Project Report	
20.	15.09.2018	Mini-Project Competition	

1. [S.BHARATHI]
2. [V. NIVEDHITHA]
3. N. [N. Padmapriya]

Faculty In-charge

HOD/CSE

[Dr V. Shanmugavel]

PRINCIPAL

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 Hands on training program on

" PCB Design and Fabrication "

For the IV year students of EEE

from (03.12.2018 to 08.12.2018)

Trained by

Er.S.P.Sarathy, Former Schneider Electric System India Pvt, Ltd, Chennai.

Co-ordinator	HoD	Principal
Mr.B.Marisekar,AP/EEE	Dr.P.Booma devi	Dr.Saravanan

ALL ARE INVITED

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

18.06.2018

This is to inform that Hands on training program on **PCB Design and Fabrication** is going to be conducted for IV-year EEE students from 03.12.2018 to 08.12.2018 by Er.S.P.Sarathy, Former Schneider Electric System India Pvt. Ltd, Chennai. Henceforth interested students are informed to register their name to Mr.B.Marisekar, AP / EEE on or before 17.10.2018.

Faculty Incharge

HoD/EEE

PCB DESIGN AND FABRICATION

Syllabus

Module I: (9 Hrs)

Introduction to Printed circuit board: fundamental of electronic components, basic electronic circuits, Basics of printed circuit board designing: Layout planning, general rules and parameters, ground conductor considerations, thermal issues, check and inspection of artwork.

Module II: (6 hrs)

Design rules for PCB: Design rules for Digital circuit PCBs, Analog circuit PCBs, high frequency and fast pulse applications, Power electronic applications, Microwave applications

Module III: (10 hrs)

Introduction to Electronic design automation(EDA) toolsfor PCB designing: Brief Introduction of various simulators,SPICE and PSPICE Environment, Selecting the Components Footprints as per design, Making New Footprints, Assigning Footprint to components, Net listing, PCB Layout Designing, Auto routing and manual routing. Assigning specific text (silkscreen) to design, Creating report of design, creating manufacturing data (GERBER) for design.

Module IV: (7 hrs)

Introduction printed circuit board production techniques: Photo printing, film- master production, reprographic camera, basic process for double sided PCBs photo resists, Screen printing process, plating, relative performance and quality control, Etching machines, Solders alloys, fluxes, soldering techniques, Mechanical operations.

Module V: (6 hrs)

PCB Technology Trends: Multilayer PCBs. Multiwire PCB, Flexible PCBs, Surface mount PCBs, Reflow soldering, Introduction to High-Density Interconnection (HDI) Technology.

Module VI: (7 hrs)

PCB design for EMI/EMC: Subsystem/PCB Placement in an enclosure, Filtering circuit placement, decoupling and bypassing, Electronic discharge protection, Electronic waste; Printed circuit boards Recycling techniques, Introduction to Integrated Circuit Packaging and footprints, NEMA and IPC standards.

Text Books:

1. Printed circuit board design, fabrication assembly and testing By R. S. Khandpur, Tata McGraw Hill 2006

Reference Books:

1. Printed circuit Board Design and technology, Walter C. Bosshart
2. Printed Circuits Handbook, Sixth Edition, by Clyde F. Coombs, Jr, Happy T.Holden,Publisher: McGraw-Hill Education Year: 2016

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

Department of Mechanical Engineering

From,

Dr.M.Sabareeswaran ,

Associate Professor,

SSM Institute of Engineering and Technology,

Dindigul

To

The Principal,

SSM Institute of Engineering and Technology,

Dindigul

Respected Sir,

Sub: Proposal for conducting value added course "Cad Modeling in Industrial Applications" for fourth year mechanical students-Reg

It is planned to conduct the training program on "Cad Modeling in Industrial Applications" for IV year Mechanical students from 11.09.2018 to 28.09.2018 between 5.00 PM and 6.00 PM. We assure that this will be very useful for the students to enhance their knowledge in the field of robotics.

Your approval is requested to conduct this program.

Thanking you

11/09/18

Course Coordinator

11/09/2018

HoD/Mech.Engg

Principal

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

Department of Mechanical Engineering

11.09.2018

It is planned to conduct the training program on "Cad Modeling in Industrial Applications" for IV year Mechanical students from 11.09.2018 to 28.09.2018 between 5.00 PM and 6.00 PM. We assure that this will be very useful for the students to enhance their knowledge in the field of robotics. Those who are interested can register their names with Dr.M.Sabareeswaran on or before today 4.00 PM

Course Coordinator

HoD/Mech.Engg

Principal

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul- Palani Highway, Dindigul – 624 002.

Department of Mechanical Engineering

11.09.2018

Syllabus

"Cad Modeling in Industrial Applications"

Course Title: CAD Modeling in Industrial Applications (2018)

Instructor: Dr.M.Sabareeswaran

Course Description:

This course provides an in-depth exploration of Computer-Aided Design (CAD) modeling techniques as applied to industrial applications. Students will gain hands-on experience with industry-standard CAD software and learn to create 3D models for various industrial purposes.

S.No	Cumulative Sessions	Topics Covered
1	1-2	• Introduction to CAD and Industrial Design • Overview of CAD software • Understanding the role of CAD in industrial design • Introduction to industry standards and best practices
2	3-4:	• Fundamentals of 2D Sketching and Constraints • Basic 2D sketching techniques • Applying constraints and dimensions • Sketch editing and modification
3	5-6	• Introduction to 3D Modeling • Transition from 2D to 3D modeling • Extrusions, revolutions, and sweeps • Creating basic 3D shapes
4	7-8	• Advanced 3D Modeling Techniques • Boolean operations • Lofting and sweeping in 3D • Introduction to parametric modeling
5.	9-10	• Assemblies and Component Modeling • Building assemblies • Managing and organizing components • Exploded views and animations
6	11-12	• Surface Modeling • Creating and editing complex surfaces

		• Blending and filleting surfaces • Surface analysis and quality control
7	13-14	• Simulation and Analysis • Finite Element Analysis (FEA) basics • Stress analysis and simulation • Optimization of designs
8	15-16	• Final Project and Presentations • Applying learned skills to an industrial design project • Presentation of final projects and peer review • Recap and discussion on future trends in CAD for industrial applications

Course Coordinator

HoD/Mech.Engg

Principal