

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY

SCHOOL OF EEE

DEPARTMENT OF EIE

Value added course details

2020-2021

1. Hands on Training of PLC, SCADA

About Course

Course Objectives

- To understand the generic architecture and constituent components of a Programmable Logic Controller.
- To develop a software program using modern engineering tools and technique for PLC and SCADA.
- To apply knowledge gained about PLCs and SCADA systems to real-life industrial applications.

Course Contents

- Concept of Automation, Need & history of automation, Basics of PLC Introduction to PLC, pin diagrams, Block diagram of PLC. Detailed information of PLC.
- Programming by using Allen Bradley PLC & MicroLogix, RS Logix software
- Troubleshooting & fault diagnostics of PLC.
- SCADA wonder ware InTouch, creating new SCADA applications, creating database of tags, creating & editing graphic display with automation.
- Connectivity with the PLC, connectivity between software and excel, troubleshooting & applications, Practical

Registration Form

Value added course on

Hands on Training of PLC, SCADA

June 20th to 30th, 2020

Name :
Register Number :
Department :
Year :
Contact Details:
a. Mobile :
b. Email :

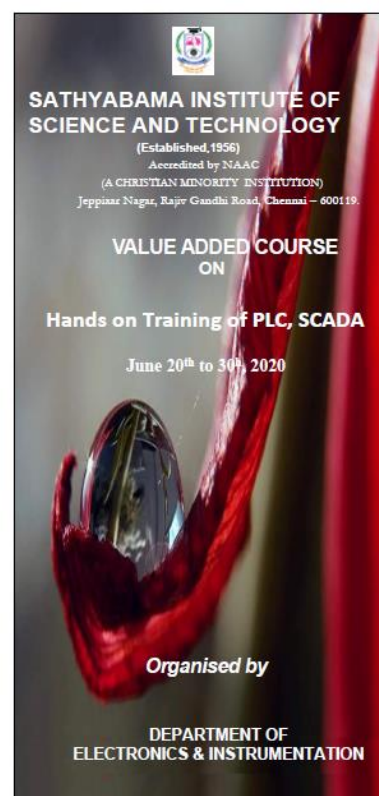
Signature

Important Dates

Submission of Registration form: 15th June, 2020
Intimation of Acceptance: 19th June, 2020

Contact

Dr. Lalithakumari.S
Associate Professor, Dept. of Electronics
& Instrumentation,
Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Chennai 119
Tamil Nadu, India
Phone (044)24503167, 24501644.
E-mail: sandihod@sathyabama.ac.in



List of Students Attended

2019-2023 BATCH

S.No	Reg. Number	Student Name
1	39180001	AJITH G
2	39180003	DEEPAK RAJ S
3	39180004	ELAMATHI M
4	39180005	GOMATHI B
5	39180006	JEYA NIVETHAN K

6	39180007	KIRUBA Y
7	39180008	MANUSHREE AYYANAR
8	39180009	NAVEEN KUMAR C
9	39180010	RAAGILA K
10	39180011	RAGUL BELSON D
11	39180012	SABARI NARAYANAN P
12	39180013	SOBIKA A
13	39180014	USHA NANDHINI G
14	39180015	VARSHA G
15	39180016	VISWA ROHINI S
16	39180701	ROSHANVARSHAN T
17	39180702	HARIRAJ N S

2. Course on Signal Processing using MATLAB

Course Outcomes

Co1-Use concepts of trigonometry, complex algebra, Fourier transform, z-transform to analyze the operations on signals and acquire knowledge about Systems

Co2-Select proper tools for analog-to-digital and digital-to-analog conversion. Also select proper tools for time domain and frequency domain implementation.

Co3. Design, implementation, analysis and comparison of digital filters for processing of discrete time signals

Co4. Integrate computer-based tools for engineering applications

Co5 Employ signal processing strategies at multidisciplinary team activities.

Co6. Assess the techniques, skills, and modern engineering tools necessary for analysis of different electrical signals and filtering out noise signals in engineering practice. Also develop creative and innovative designs that achieve desired performance criteria within specified objectives and constraints, understand the need for lifelong learning and continuing professional education.

Contact

Dr. S. Lalithakumari,

Associate Professor & Head,
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Sathyabama University
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Tamil Nadu, India
Phone (044) 24503167.
E-mail: lalitha.eni@sathyabama.ac.in

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY



Department of Electronics and Instrumentation Engineering

Organises

Value Added Course on Signal Processing using MatLAB



Venue : Computer Based Instrumentation Design Lab

Date : July 6-18,2020

Time : 8.30 A.M. to 2.45 P.M.

REGISTRATION FORM

Value added Course on
"SIGNAL PROCESSING USING MATLAB"

July 6-18,2020

Name _____
Reg.NO _____
Department _____
Address for Communication: _____

Contact Details:

a. Mobile _____
b. Email _____

Signature _____
Signature of the Head of the Institution/ Department (with seal)

List of Students Attended

2017-2021 BATCH

Sl. No	Register Number	Student Name
1	37180001	ABINAYA.S
2	37180002	ANANDHA NARAYANAN.P
3	37180003	BARATH M
4	37180006	DHANUSHKA.A
5	37180008	HARITHA.K
6	37180009	HEMALATHA.M
7	37180010	JOHN WILLIAM.M
8	37180011	KARTHIKA.G
9	37180012	LEKHA.S
10	37180013	NADIMPALLI UMAPATHI VARMA
11	37180014	PRAJEET KUMAR PANDA
12	37180015	RIYAZ AHAMED.L
13	37180016	RONALDO JOYWIN
14	37180017	SRI SHAILU.S
15	37180018	SRIRAM JAGANNATHAN
16	37180019	SUPRIYA SINGH
17	37180701	DHANUSH .P.E
18	37180702	HRUTHIK KUMAR REDDY
19	37180703	MOHAN VENKATESH
20	37250001	BHAVANI A
21	37250002	BHUVANESWARI V
22	37250003	K.DARSHINI
23	37250004	DHIVYA A
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28	37250009	KARTHIKA .M
29	37250011	KRITHIKA V
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31	37250013	MARI ANANTHI M
32	37250014	MARIASTEPHAN J

33	37250015	MONISHA S
34	37250016	MUTHUKUMARI M
35	37250017	RANJITH KUMAR
36	37250018	NAMAN MITTAL
37	37250019	RAMALAKSHMI.M
38	37250020	RITESH KUMAR VIRANI
39	37250021	SABBELLA SAI PAVAN REDDY
40	37250022	SRAVYA VAKACHARLA
41	37250001	BHAVANI A
42	37250002	BHUVANESWARI V
43	37250003	K.DARSHINI
44	37250004	DHIVYA A
45	37250005	IMTEYAZ MALLICK
46	37250006	ISHA SINGH
47	37250007	JANCY J
48	37250008	JEEVITHA V
49	37250009	KARTHIKA .M
50	37250011	KRITHIKA V

3. Smart Controllers using Aurdino

About Course

Course Outline

- Learn basics of Arduino
- Learn to control Arduino using Python
- Learn to build Jarvis AI
- Automate various tasks
- Learn to build communication between PC and Arduino
- Learn to Bluetooth module with Arduino
- Learn to build Simple Apps for your Phone
- Do Home Automation using Jarvis AI
- Control Electronics using Voice Recognition from your Smart Phone
- Control Electronics using Switch App on your Smart Phone

Registration Form

Value added course on

Smart Controllers using Aurdino

February 15th to 26th, 2021

Name: _____
 Register Number: _____
 Department: _____
 Year: _____
 Contact Details:
 a. Mobile: _____
 b. Email: _____

Signature _____

Important Dates

Submission of Registration form: 10th February, 2020
 Intimation of Acceptance: 14th September, 2020

Contact

Dr. Lalithakumari S.
 Associate Professor, Dept. of Electronics
 & Instrumentation,
 Sathyabama Institute of Science and Technology
 Jeppiaar Nagar, Chennai 119
 Tamil Nadu, India
 Phone (044)24503167, 24501644.
 E-mail: sandihod@sathyabama.ac.in



List of Students Attended

2018-2022 BATCH

S.NO.	REGISTER NO.	NAME OF THE STUDENT
1	38180001	BENONI ISAAC RAJ. C
2	38180002	BERNARD. A
3	38180003	MALAVIKA. R
4	38180004	MEENA. P. E
5	38180005	RAKESH. S
6	38180006	SARAN RAJ. T
7	38180007	WADKAR SARISH SHASHIKANT
8	38180008	VENDA. E
9	38180009	VINEETHWEL PREM
10	38180010	SURYA B
11	38180701	BALA VARUN CHOWDARY
12	38180702	IDAMAKANTI BHANUSRI

4.MATLAB for Instrumentation Engineers

About Course

Course Outline

1. How we find Transfer function on Mat_lab
2. How We Check Stability Of Mechanical System
3. Simulink of 2DOF and 3DOF of mechanical system
4. How we solve Block Diagram on Matlab.
5. How we Draw 2d Graphs on Matlab.
6. How we draw 3 D Graph on Matlab.
7. Response of Second Order System.
8. Finding T_p , %OS, Rising Time from pole Location.
9. Laplace and Inverse Laplace
10. partial Fraction Expansion on matlab.
11. How we Check Stability & Routh Hurwitz Criterion

Requirements

- Laptop with Matlab 2K16 Version
- Internet

Registration Form

Value added course on

MATLAB for Instrumentation Engineers
September 14th to 28th, 2020

Name: _____
Register Number: _____
Department: _____
Year: _____
Contact Details:
a. Mobile: _____
b. Email: _____

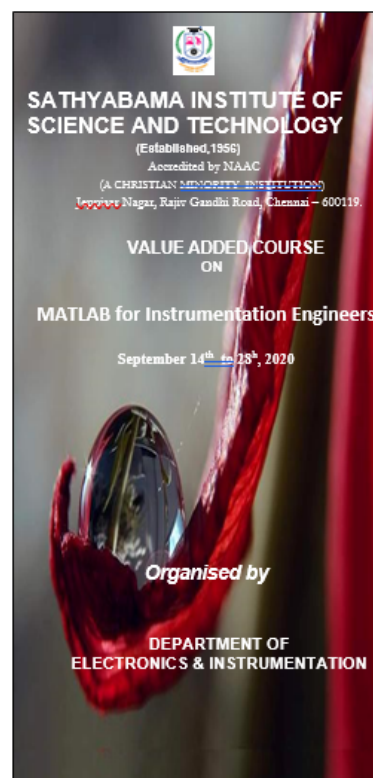
Signature

Important Dates

Submission of Registration form: 10th September, 2020
Intimation of Acceptance: 11th September, 2020

Contact

Dr. J. Jithakumar, S.
Associate Professor, Dept. of Electronics
& Instrumentation,
Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Chennai 119
Tamil Nadu, India
Phone (044)24503187, 24501644.
E-mail: gandihod@sathyabama.ac.in



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12	38180702	IDAMAKANTI BHANUSRI

5 Innovative Classifier models for Image and Text using Tensorflow

Registration Form

Value added Course on

'Innovative Classifier models for Image and Text using Tensorflow'

Jan 20th and 30th, 2021

Name: _____

Designation: _____

Department: _____

Years of Experience: _____

Address for Communication: _____

Contact Details:

a. Mobile: _____

b. Email: _____

Accommodation Required: Yes / No

Accommodation will be provided in the University Hostels

Registration Fees Details:

Signature: _____

Course Objectives

The Tensor Flow is a major step forward in how computer system adapts, evolves and learns. It has widespread application in almost every industry and is considered to be a big technological shift, similar in scale to past events such as the industrial revolution, the computer age, and the smart phone revolution. Upon completion of this course, the participants can be able to understand both theoretical and problems involved in Speech and Image processing using machine learning techniques.

Course Contents

Neural Networks - Introduction
Model Creation and parameter settings
Model Characteristics - Underfit and overfit models
Remedies for Underfit and overfit models
Saving and loading the models
IMDB movie review classification
Image Classification using MNIST fashion dataset

Contact us

Dr.S.Lalitha Kumari and Dr.R.Pandian
Dept. of Electronics & Instrumentation,
Sathyabama University
Jeppiaar Nagar, Chennai 119
Tamil Nadu, India
Phone (044) 24503167, 24501644

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with 'A' grade by NAAC
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

Value added Course on

'Innovative Classifier models for Image and Text using Tensorflow'

Jan 20th and 30th, 2021

Organized by

Department of Electronics and Instrumentations

List of students Attended

2019-2023

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