ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

CURRICULAR PLANNING AND IMPLEMENTATION

CRITERION 1: CURRICULAR ASPECTS

KEY INDICATOR- 1.2 ACADEMIC FLEXIBILITY

Academic Year: 2021-2022

INDEX

AROKIADASS RAJARATHANAM

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ACADEMIC YEAR

2021-2022

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CIRCULAR
(2021 – 2022)

CIR. No: SACET/CSE/CIR/ 09 **22.09.2021**

The department of Computer Science and Engineering has planned to conduct a value-added course on "**UIPATH TOOL**" for CSE students from 27.09.2021 to 01.10.2021. All interested CSE students are invited to attend the course.

Name of the Resource Person(s): 1. **Mr. S. MANAVALAN, M.E,**
Assistant Professor
Department of CSE,
St. Anne's College of Engineering and Technology

COURSE CO-ORDINATOR **HOD** 22/9/21

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

organizes

five days value added course on

UIPATH TOOL

RESOURCE PERSON

MR. S. MANAVALAN, M.E
Assistant Professor,
Department of CSE,
St. Anne's CET.

Details visit
www.stannescet.ac.in

Date : 27.09.2021 to 01.10.2021

Venue : Computer Lab II

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Syllabus For Value Added Course on

"UIPATH TOOL"

COURSE OBJECTIVES:

1. The course is designed to build your RPA expertise from scratch in automating activities that involve Text, Mail, Excel, Web, and more.
2. To create the automated projects in UiPath.
3. To create a workflow by using flowcharts and diagrams.
4. To gain the practical knowledge of UiPath.

SYLLABUS:

DAY	TITLE
DAY 1	Robotics Process Automation, UiPath Building blocks
DAY 2	Excel and Data Tables, Recording & Projects
DAY 3	Scraping, Image and Text Automation
DAY 4	Mail and PDF, Exception and Debugging
DAY 5	Custom Component and Code Stage, Database

COURSE OUTCOMES:

At the end of this automation basics course, the participants should be able to:

1. Define RPA and automation and explain their impact on digital transformation.
2. Acquire knowledge of fundamental UI automation concepts
3. Map and assess some of the business processes that are fit for automation.
4. Explain the components of the UiPath Platform and the benefits it brings to the fully automated enterprise.
5. Gain ability to create and debug workflows using UiPath and to implement error exception handling.

COURSE CO-ORDINATOR **HOD**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR
(2021– 2022)

CIR. No. : SACET/EEE/CIR/02

It is informed that Department of Electrical and Electronics Engineering has planned to organize a five day Value Added Course on "**IOT Front End Design Using Ki-Cad"** in our college premises to enhance the practical Knowledge of the students.Hence, the IV Year Students of the Department are cordially invited.

Name of the Resource Person **:Dr. G .R. Kanagachidambaresan,**
Associate Professor,Veltech Rangarajan Dr Sagunthala R&D Institute of Science.

Date **: 18.04.2022 to 22.04.2022.**

Venue **: Power System Laboratory.**

HOD/EEE

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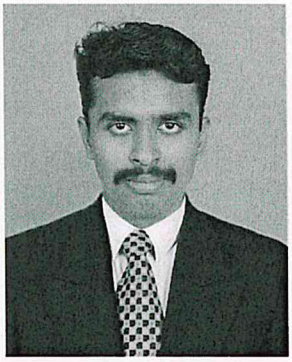
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organizes

Five days Value added Course on

"IoT front end design using KiCAD"



Dr. Kanagachidambaresan,

Associate Professor,
Veltech Rangarajan Dr Sagunthala
R&D Institute of Science
Chennai

Date : 18.04.2022 to 22.04.2022 Time : 09:30 am - 04:30 pm

Venue: Power System Simulation laboratory

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Syllabus For Value Added Course on

"IOT FRONT END DESIGN USING Ki-CAD"

Date: 18.04.2022 to 22.04.2022

COURSE OBJECTIVES:

1. Receive an unparalleled education on the art of PCB designing with personalone-on-one attention.
2. Covers all the basics of IoT and KiCADs Software.
3. Understand Hardware developed by well-established Industry experts.
4. Hands-On Experience of Latest IoT Techniques & Tools using KiCad.

SYLLABUS:

1. Devices: IoT circuits, IoT Devices Architecture, Devices: Arduino Programming.
2. Introduction to KiCad, schematic design, features
3. Efficient and versatile tool for design of circuits – Sample Circuits – Hands on Training.
4. schematic layout design and its implementation using KiCad
5. IoT Kit – with Arduino Board using Ki-Cad – sample Projects.

COURSE OUTCOMES:

By the end of this course, the participants would be able to:

1. Learn how to use KiCad software and to design custom circuits for projects.
2. Instruments for obtaining library files from the internet and adding them to the KiCad library directory for use in designing.
3. Get comfortable with schematic creation, component assignment, routing, and IoT product generation.

COURSE CO-ORDINATOR **HOD**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2021 – 2022)

CIR.No: SACET/ECE/CIR/18 **25.10.2021**

The department of Electronics and Communication Engineering has planned to conduct a value added course on "Arduino Based Embedded System Design" for third and final year ECE students at VLSI/Embedded Laboratory from 29.10.2021 to 02.11.2021. All interested students and staffs are invited for the course.

Name of the Resource Person(S): 1. **Mr.S.Balabaskar, M.E,**
Associate Professor
Department of Electronics & Communication Engineering,
St. Anne's College of Engineering and technology

2. **Mr.B.Arun kumar, M.E,**
Assistant Professor
Department of Electronics & Communication Engineering,
St. Anne's College of Engineering and technology

25/10/21
EVENT CO-ORDINATOR

HOD 25/10/21

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizes

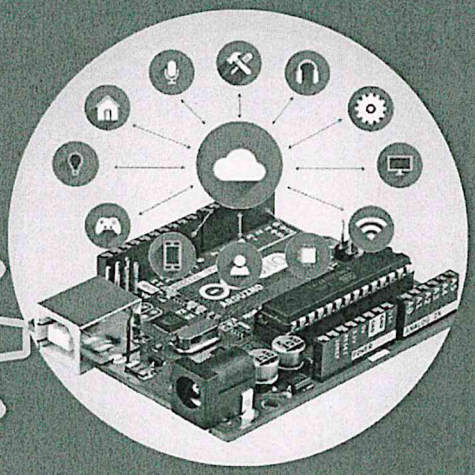
five days value added course on

ARDUINO BASED EMBEDDED SYSTEM DESIGN

in collaboration with

eDiY LaBs

MAD ABOUT INNOVATION



Course Content

- Embedded System Design: Basics
- Learning Arduino Platform
- Basics of Sensors and Actuators using Arduino
- Controlling Embedded System Based Devices using Arduino
- Project: based on Embedded System Design using Arduino Board
- Internet of Things
- Robotics

Eligibility

Students from Engineering and Polytechnic Colleges

Contact

Mrs. D. Umamaheswari(ASP/ECE) - +91 - 9942653478

Mr. B. Arunkumar(AP/ECE) - +91 - 8610337460

Date : 29.10.2021 - 02.11.2021

Venue : VLSI Design LAB

Fees : Rs. 1000

Register @ https://stannescet.ac.in/AESD2021/

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VALUE ADDED COURSE ON
ARDUINO BASED EMBEDDED SYSTEM DESIGN

SYLLABUS

Objective:
The aim of the course is to make the students to learn about embedded systems and Arduino and to develop their own Arduino based embedded system projects.

Day 1: INTRODUCTION TO EMBEDDED SYSTEMS

- What is Embedded System?
- Characteristics-Applications
- Microprocessor & Microcontrollers

INPUT AND OUTPUT DEVICES

- What is Digital Signal and Example?
- What is Analog Signal and Example?
- Digital Sensors & Analog Sensors
- Output Devices
- Serial Communication Devices

ARDUINO INTRODUCTION

- What is Arduino?
- Why we Choose Arduino?
- Types of Arduino and its Features
- How to choose Arduino IC's?
- Software Required for Arduino
- Arduino IDE Installation

ARDUINO PROGRAMMING BASICS

- What is Embedded C?
- Arduino programming Structure
- Control Structure in Arduino
- How to Work in Arduino IDE?

Day 2: ARDUINO DIGITAL INPUT/OUTPUT HANDLING

- List of Digital Input/output devices
- How to Program for Digital Output devices?
- Example: LED controlling
- Example: Counter using Seven Segment Display
- Example: Alarm using a piezo Buzzer
- How to program for Digital Input devices?

- ❖ Example: Get input from Push Button/Keypad

Day 3: ARDUINO LCD INTERFACING

- ❖ LCD Display Pinout
- ❖ Display the Static Data
- ❖ Example: Increment Numeric value automatically
- ❖ Display the Dynamic Data
- ❖ Example: Increment Numeric value by keypad

Day 4: ARDUINO INTEGRATIONS

- ❖ Types of Relay
- ❖ Controlling Electrical appliances with electromagnetic relays
- ❖ Working of a matrix keypad
- ❖ Using the keypad library to interface with Arduino.

Day 5: ARDUINO COMMUNICATION

- ❖ Devices controlled by Infrared remote
- ❖ Parallel Communication
- ❖ Interfacing a RF Module
- ❖ GSM/GPRS Arduino Interfacing

ROBOTICS

- ❖ Working with BO motor
- ❖ Line follower robot
- ❖ Obstacle avoidance robot

SIMPLE IOT STRUCTURE USING ARDUINO & BLYNK

- ❖ What is IOT?
- ❖ Devices Used in IOT
- ❖ Program
- ❖ Testing

Outcomes:

Upon completing the course, students would be able to:

- Understand the value and importance of learning a coding language;
- write a simple program in C++ with GNU Compiler;
- Transform a physical input into a digital input and analyze it;
- Work to complete a customizable full Arduino project autonomously, from the beginning to the end;
- Understand the function of electronic sensors and components;
- Build own LED circuit;

25/10/21

EVENT CO-ORDINATOR

25/10/21

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DEPARTMENT OF MECHANICAL ENGINEERING
CIRCULAR
(2021 – 2022)

CIR. No: SACET/MECH/CIR/05 **5.11.2021**

The department of Mechanical Engineering has planned to conduct a value added course on "CNC Training programme (Turning and Milling)" at Mechatronics Laboratory from 08.11.2021 to 12.11.2021. All interested students and staffs are invited for the course.

Name of the Resource Person(S):

1.**Sr.Josephine Marry, M.Tech,**
Assistant Professor
Department of Mechanical Engineering,
St. Anne's College of Engineering and technology

2. **Mr.R.Jayakumar, M.E,**
Assistant Professor
Department of Mechanical Engineering,
St. Anne's College of Engineering and technology

2. **Mr.M.Sivamanikandan, M.E,**
Assistant Professor
Department of Mechanical Engineering,
St. Anne's College of Engineering and technology

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DEPARTMENT OF MECHANICAL ENGINEERING

organizes

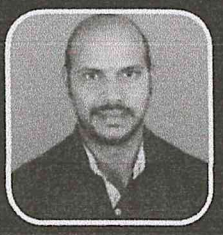
value added course on

CNC TRAINING PROGRAMME (TURNING AND MILLING)

RESOURCE PERSONS

SR.JOSEPHINE MARY
AP/MECH

MR. R.JAYAKUMAR
AP/MECH



MR.SIVAMANIKANDAN
AP/MECH

DETAILS

Date : 08.11.2021 to 12.11.2021 **Venue** : Optical Lab

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DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE ON

CNC TRAINING PROGRAMME (TURNING AND MILLING)

SYLLABUS

Objective:

- Programming and operation of CNC Machines and get a job in the CNC machine shop.
- Qualified learners who attain the above skill can also become an entrepreneur.

1. Introduction to Computer Numerical Control (CNC)

Introduction to CNC technology -CNC machines & controls. History & development of CNC technology. Conventional Vs. non-conventional machine tool. Numerical control on CNC machine tools. CNC Control and types of CNC control. Calculation of technological data for CNC machining. Introduction to manual NC programming. Manual NC programming for lathe & milling machines. Application Numerical Control, Advantages, & Disadvantages, Adoptive Control System. Practical training & workshop for above sub topics on CNC Machine

2. CNC programming

Introduction to CNC programming, Introduction and demonstration of line programs CNC programming for lathe & milling machine. NC programming for lathe and milling machines using different machining cycles into the CNC simulator. Procedures Associated with part programming, Cutting process parameter selection, Process planning issues and path planning, G & M Codes, Interpolations, Canned Cycles and Subprograms, Tool compensations. Exposure for programming and simulator of FANUC. Programming exercise. Machining of programmed exercise on CNC. Lathe& milling machines

3. CNC programming-Lathe

Plan and optimize programs for CNC turning operations. Calculate parameters like speed feed etc. and set references for the various operations. Prepare operation and operation sequence for the lathe operations like turning, grooving etc. Prepare & set CNC lathe operations and test run programmed. Execute program and inspect simple geometrical forms / standard parts

4. CNC programming-Milling

Plan and optimize programs for CNC Milling operations. Calculate parameters like speed feed, depth of cut etc. and set a references for the various operations. Various methods of work process like edge finding block center etc. Prepare & set CNC Milling operations and test run programmed. Execute program and inspect simple geometrical forms / standard parts

5. Manual Part Programming Exercises

Part Programming - CNC Machining Centre

a) Linear Cutting.
b) Circular cutting.
c) Cutter Radius Compensation.
d) Canned Cycle Operations.

Part Programming - CNC Turning Centre

a) Straight, Taper and Radius Turning.
b) Thread Cutting.
c) Rough and Finish Turning Cycle.
d) Drilling and Tapping Cycle.

Course Outcomes:

Upon completing the course, students will learn about:

- To distinguish between conventional and CNC machines in terms of structure and operations
- To develop hands on practice of the operations, programming and maintenance aspects of CNC Machines
  i.e.,CNC Lathe and CNC Milling Machine

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DEPARTMENT OF SCIENCE AND HUMANITIES
CIRCULAR
(2021– 2022)

CIR. No: SACET/S&H/CIR/ 15 **11.04.2022**

The Department of Science and Humanities has planned to conduct a value added course on "**CAMPUS TO CORPORATE FOR YOUNG ENGINEERS**" for first year ECE & EEE students from 18.04.2022 to 22.04.2022.

Name of the Resource Person:

1. **Mr. V.C. Eugin Martin Raj, HOD/EEE, P.O**
   Department of Electrical and Electronic Engineering,
   St. Anne's College of Engineering and technology,
   Panruti.

2. **Mr. R. Rathakrishnan, AP/ECE**
   Department of Electrical and communication Engineering,
   St. Anne's College of Engineering and technology,
   Panruti.

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DEPARTMENT OF SCIENCES AND HUMANITIES

organizes

five days value added course on

CAMPUS TO CORPORATE FOR YOUNG ENGINEERS

Resource Person

Mr. V.C. EUGIN MARTIN RAJ
Assistant Professor
Department of EEE

MR. R. RADHAKRISHNAN
Assistant Professor
Department of ECE

Date : 18.04.2022 - 22.04.2022 **Venue** : Conference Hall

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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSEON

CAMPUS TO CORPORATE FOR YOUNG ENGINEERS

SYLLABUS

Course Objectives:

- To introduce additional presentational techniques to the students.
- To make them prepare for the interview questions (Mock interviews)
- To Enhancing Communication Skills through Situation Based Conversations

Course Outcomes:

Upon successful completion of the course students able to:-

- Students are confident to give independent presentations professionally.
- Ability to summarize make yourself interview-ready.
- Students have self-assurance and effective communication abilities

Course Content:

Day 1: Presentation Strategies

Defining purpose, audience and locale, organizing content, Preparing outlines, audio-visual aids, nuances ofbody language, space, setting nuances and voice dynamics, building confidence, handling questions, collocations to be used for day-to-day conversation, improving the ability to present in front of the group.

Day 2: Situation Based Conversation

Conversations in Pairs to be Conducted (based on situations related to day-to-day life), Enhancing communication Skills through Situation Based Conversations.

Day 3: Professional Skills

Meetings, Agenda, Minutes of the Meeting, Business Etiquette.

Day 4: Group Discussions and Role Play

Personality Traits to be evaluated, Dynamics of Group Behavior, Group Etiquettes and Ma nnerism,Tips for Effective Group Discussion, Situation Based Role Play in Groups.

Day 5: Mock Interviews

Practice through Mock Interviews for Recruitment.

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DEPARTMENT OF SCIENCE AND HUMANITIES
CIRCULAR
(2021 – 2022)

CIR. No: SACET/S&H/CIR/16 **11.04.2022**

The Department of Science and Humanities has planned to conduct a value added course on "**WEB DEVELOPMENT**." for first year CSE & MECH students from 18.04.2022 to 22.04.2022.

Name of the Resource Person(S):

1.**Mr. S. BalaBaskar**
Department of Electronics and communication engineering
St. Anne's College of Engineering and technology,
Panruti.

2. **Mr. S. Ashok**
Lab Assistant
Department of Computer science and engineering,
St. Anne's College of Engineering and technology
Panruti.

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DEPARTMENT OF SCIENCES AND HUMANITIES

organizes

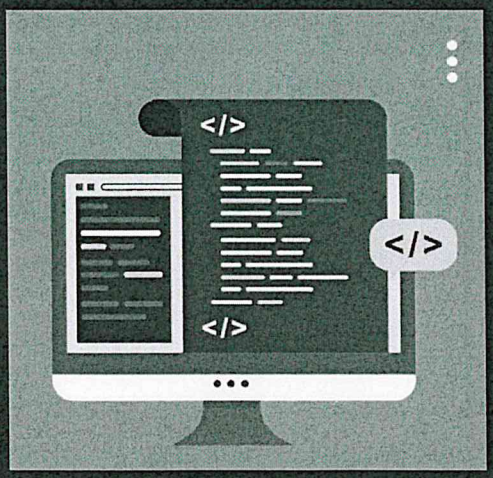
five days value added course on

WEB DEVELOPMENT

Resource Person

Mr. S. BALABASKER
Assistant Professor
Department of ECE

MR. S. ASHOK
Lab Assistant,
Department of CSE



Details visit:
www.stannescet.ac.in

Date : 18.04.2022 - 22.04.2022

Venue : Computer Lab I & II

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DEPARTMENT OF SCIENCE AND HUMANITIES

VALUE ADDED COURSEON

WEB DEVELOPMENT

SYLLABUS

About the Course:

Explore the back bone of webpage creation by developing .NET skill. Enrich knowledge about HTML control and web control classes. Provide depth knowledge about ADO.NET. Understand the need of usability, evaluation methods for web services

Course objectives:

On the successful completion of this course, Students will be able to:

a. Recognize the importance of validation control, cookies and session.

b. Apply the knowledge of ASP.NET object, ADO.NET data access and SQL todevelop a client

Server model.

c. Recognize the difference between Data list and Data grid controls in accessing data.

d. Build Mobile Friendly Responsive & Interactive Web Apps.

e. Build Web Application with HTMLS, CSS3, Bootstrap5, JavaScript, and Python&Django.

Course Contents:

Day 1:

Fundamentals of Java Script Code, Java Script methods, Reusing Code with Functions, defining parameters and passing arguments, Simple Accordion with Java Script, Hiding and showing elements with Java Script.

Day 2:

Introduction to Java Script Objects and the DOM, the global object, breaking open and manipulating objects.

Day 3:

Dynamically Changing Content with Custom Objects, Introduction to Arrays and the Math Object, Using the Math object to pick random headlines.

Day 4:

Exploring Java Script Selectors, chaining selectors together, targeting elements by data attribute. Setting up the selectors with data attributes, creating an array to store the selectors, separating the inclusive and exclusive filters,improving the user experience.

Day 5:

JQuery Light box: A Pop-up Image Viewer, Linking to the plug in files, Customizing the appearance, Initializing the plugin and setting options, Styling the error messages, Linking to the plug in files.

EVENT CO-ORDINATOR **HOD**