ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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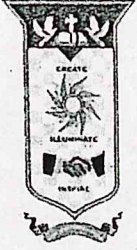
CURRICULAR PLANNING AND IMPLEMENTATION

CRITERION 1: CURRICULAR ASPECTS
KEY INDICATOR- 1.2 ACADEMIC FLEXIBILITY

Academic Year: 2019-2020

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ACADEMIC YEAR

2019-2020

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CIRCULAR
(2019 – 2020)

CIR. No: SACET/CSE/CIR/ 2 2   09.03.2020

     The department of Computer Science and Engineering has planned to conduct a value-added course on **"ADVANCED JAVA PROGRAMMING"** for CSE students at Computer Lab-IV from 10.03.2020 to 14.03.2020. All final year CSE students are asked to attend the course.

Name of the Resource Person(s): 1. **Mr. V. ARULRAJ, M.C.A**
                                            Technical Trainer,
                                            CDAC-St. Patrick Software Solutions
                                            Puducherry.

COURSE CO-ORDINATOR   HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

organizes

five days value added course on
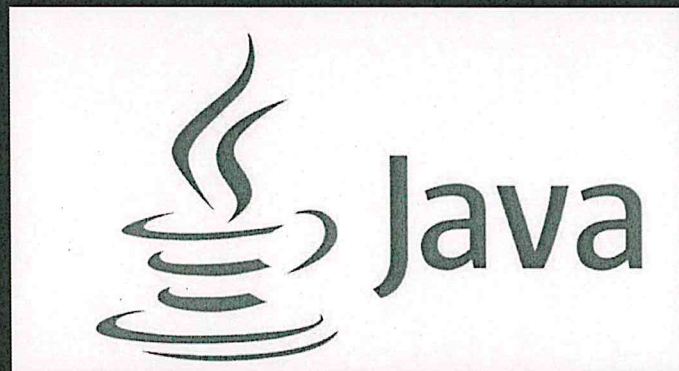
ADVANCED JAVA PROGRAMMING

MR. V. ARULRAJ, M.C.A
Technical Trainer,
CDAC-St. Patrick Software Solutions,
Puducherryy

Date : 10.03.2020 - 14.03.2020   Time : 09:15AM to 04:30PM

Venue : Computer Lab-IV

Details Visit
www.stannescet.ac.in

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Syllabus For Value Added Course on

"ADVANCED JAVA"

COURSE OBJECTIVES:

1. To become familiar with the advanced features of Java Language.

2. To learn Server-Side Programming using Servlets and Java Server Pages.

3. To understand and develop Server side components in a Java Web application

4. To learn the creation of pure Dynamic Web Application using JDBC.

5. To implement MVC architecture

SYLLABUS:

DAY	TITLE
Day 1	Introduction about Java, GUI
Day 2	Servlets, RMI
Day 3	JSP, JSTL
Day 4	JDBC, EJB
Day 5	Struts, Developing Web Application

COURSE OUTCOMES:

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

1. To develop web applications using Servlets / JSP and deploy in popular servers like Tomcat.

2. Invoke the remote methods in an application using Remote Method Invocation (RMI)

3. Understand the multi-tier architecture of web-based enterprise applications using Enterprise JavaBeans (EJB).

4. Use Struts frameworks, which gives the opportunity to reuse the codes for quick development.

COURSE CO-ORDINATOR   **HOD**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CIRCULAR
(2019– 2020)

CIR. No.: SACET/EEE/CIR/05

It is informed that Department of Electrical and Electronics Engineering has planned to organize a five day Value Added Course on **"IOT USING ARDUINO FOR ELECTRICAL ENGINEERING APPLICATIONS"** in our college premises to enhance the practical Knowledge of the students.Hence, the II&III Year Students of the Department are cordially invited.

Name of the Resource Person   : **Mr. Salai Deva Thirumani,**
  Technical Engineer, AIDELTECZ

Date   : **23.09.2019 to 27.09.2019.**

Venue   : **Power System Laboratory.**

HOD/EEE

Date: 14.09.2019

To

Mr. Salai Deva Thirumani

Technical Engineer AidelTeeZ

Chennai.

Dear Sir,

Greetings to you.

With great pleasure, the Department of Electrical and Electronics Engineering would like to invite you to participate as Resource Person for the five-day value added course on **"IoT using Arduino for Electrical Engineering Applications"** which is scheduled from 23rd to 27th September, 2019. Your presence will be a source of pride for us. Please accept our invitation and help us to make it a success. We are eagerly awaiting your approval. Thank you.

With high regards,

Up. 9. 2019

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
..re-(Dist), Pin: 607 110.

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St. Anne's CET (EEE DEPT) <eee@stannescet.ac.in>   Sep14, 2019,
                                                              4.53 PM

From: **salai deva** <devasalai@gmail.com>
Date: Mon, 16Sep 2019, 7:05 pm
Subject: Re: Requisition Letter for workshop
To: St. Anne's CET (EEE DEPT) <eee@stannescet.ac.in>

I accept the invitation.

St. Anne's CET (EEE DEPT) <eee@stannescet.ac.in>   Aug31, 2022,

DEPARTMENT OF ELECTRICAL AND ENGINNERING

in association with

Indian Society for Technical Education

organizes

Five days Value added Course on

IoT using Arduino for Electrical Engineering Applications

23rd *to* 27th *September, 2019*   *Venue: VLSI Lab*

Hearty Welcome to our Chief guest

Mr. Salai Deva Thirumani

Technical Engineer

AidelTecZ Chennai

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Syllabus forValue Added Course on

"IOT USING ARDUINO FOR ELECTRICAL ENGINEERING APPLICATIONS"

Date: 23.09.2019to 27.09.2019.

COURSE OBJECTIVES:

1. Learn the basics of Internet of Things and its applications
2. Build your own IoT system using Arduino Uno
3. Setup IoT connectivity using Module
4. Understand Arduino Architecture and programming
5. Develop and test an IoT application using Arduino Uno

SYLLABUS:

1. Introduction to IOT and Overview of IoT components and IoT Communication Technologies
2. Arduino Simulation Environment-Arduino Uno Architecture- Setup the IDE, Writing Arduino Software.
3. Sensors interfacing with Microcontroller – IoT – Arduino.
4. Interface cloud with IoT Devices.
5. Hands on Training- Project based on IoT using Arduino.

COURSE OUTCOMES:

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

1. To create their own embedded projects at a minimal cost and get familiar with the fundamentals of using the Arduino platform.
2. To interface any Android phone to the Arduino.
3. Get hands-on training experience on a live project and solve a real problem using Arduino & Interact technology.

COURSE CO-ORDINATOR

HOD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
CIRCULAR
(2019 – 2020)

CIR. No: SACET/ECE/CIR/03   **23.08.2019**

The department of Electronics and Communication Engineering has planned to conduct value added course on "IOT for smart applications" for ECE students from 25.08.2019 to 30.08.2019 at VLSI/Embedded Laboratory. All interested students and staffs are invited for the course.

Name of the Resource Person: **Mr.S.Balabaskar, M.E,**

Associate Professor

Department of Electronics & Communication Engineering,

St. Anne's College of Engineering and technology

23/8/2019

EVENT CO-ORDINATOR   **HOD**

P

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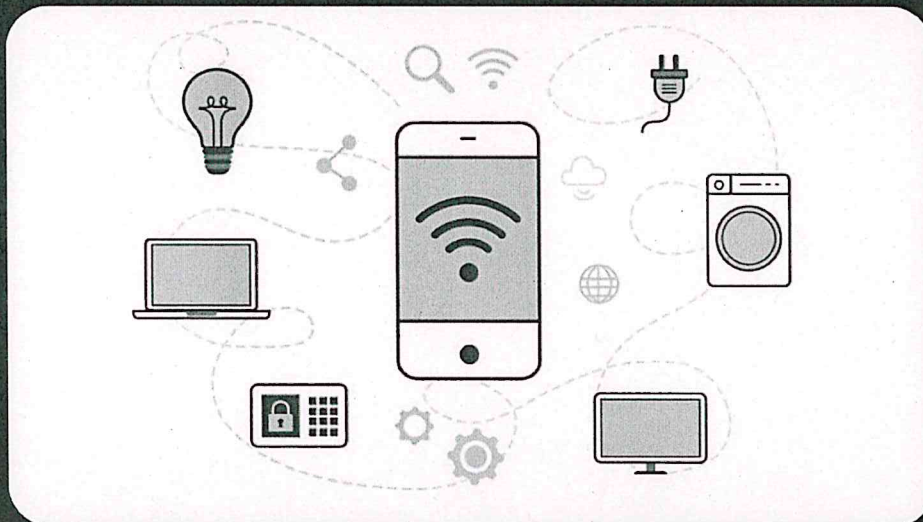Website: www.stannescet.ac.in | Email ID: stannescet@gmail.com | Phone No: 04142 - 241661, 242661

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizes

five value added course on

IOT FOR SMART APPLICATIONS

Date : 25.08.2019 - 30.08.2019
Time : 09:15AM to 04:30PM
Venue : VLSI Lab

Help Contact
Mrs. B. Mary Amala Jenni, AP/ECE - 8248061567
Mr. V. Venkatesan, AP/ECE - 8939150098

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VALUE ADDED COURSE ON
IOT FOR SMART APPLICATIONS

SYLLABUS

Objective:

The aim of the course is to make the students to learn the basics of embedded systems and Arduino and to develop their own smart applications for IOT.

Day: 1 Introduction to IOT
- Understanding IoT fundamentals
- IOT Architecture and protocols
- Various Platforms for IoT
- Real time Examples of IoT
- Overview of IoT components and IoT Communication Technologies
- Challenges in IOT

Arduino Simulation Environment
- Arduino Uno Architecture
- Setup the IDE, Writing Arduino Software
- Arduino Libraries
- Basics of Embedded C programming for Arduino
- Interfacing LED, push button and buzzer with Arduino
- Interfacing Arduino with LCD

Day 2: Sensor & Actuators with Arduino
- Overview of Sensors working
- Analog and Digital Sensors
- Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with
- Arduino
- Interfacing of Actuators with Arduino.
- Interfacing of Relay Switch and Servo Motor with Arduino

Day 3: Basic Networking with ESP8266 WiFi module
- Basics of Wireless Networking
- Introduction to ESP8266 Wi-Fi Module
- Various Wi-Fi library
- Web server- introduction, installation, configuration
- Posting sensor(s) data to web server

Day 4: IoT Protocols
- M2M vs. IOT
- Communication Protocols

Day 5: Cloud Platforms for IOT
- Virtualization concepts and Cloud Architecture
- Cloud computing, benefits
- Cloud services -- SaaS, PaaS, IaaS
- Cloud providers & offerings
- Study of IOT Cloud platforms
- ThingSpeak API and MQTT
- Interfacing ESP8266 with Web services
- Designing own project using IOT Platform

Outcomes:

Upon completing the course, students would be able to:

- Design Smart IOT based systems applications
- Develop an ability to understand IOT programming with C++ and python.
- Familiar with IOT environment and its applications.
- Understand about any new IDE, compiler, and MCU chip in Arduino compatible boards or similar types.

EVENT CO-ORDINATOR   23/8/2019

HOD   23/8/19

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DEPARTMENT OF MECHANICAL ENGINEERING
CIRCULAR
(2019 – 2020)

CIR. No: SACET/MECH/CIR/05   **12.07.2019**

The department of Mechanical Engineering has planned to conduct a value added course on "Creo Parametric Software" at Mechatronics Laboratory from 15.07.2019 to 19.07.2019. All interested students and staffs are invited for the course.

Name of the Resource Person(S):   1.**K.Shanmuga Elango, M.Tech.**
                                        Associate Professor
                                        Department of Mechanical Engineering,
                                        St. Anne's College of Engineering and technology

                                        2. **Mr. K.Saravanan, M.E,**
                                         Associate Professor
                                        Department of Electronics & Communication Engineering,
                                        St. Anne's College of Engineering and technology

12/7/19

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DEPARTMENT OF MECHANICAL ENGINEERING

organizes

value added course on

CREO PARAMETRIC SOFTWARE

RESOURCE PERSONS

K.SHANMUGA ELANGO
Associate Professor, MECH

MR. K.SARAVANAN
Assistant Professor, MECH

DETAILS

Date : 15.07.2019 to 19.07.2019   Venue : Mechatronics Lab

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DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE ON
CREO PARAMETRIC SOFTWARE

SYLLABUS

Objective:

The aim of the course to gain practical experience in handling 2D drafting and 3D modelling byusing Creo Software.

1. INTRODUCTION TO CREO PARAMETRIC
Introduction to Creo Parametric Feature-Based Nature Bidirectional Associative Property Parametric Nature

2. CREATING SKETCHES IN THE SKETCH MODE
Drawing a Sketch Using tools available in the Sketch Tab Placing a Point Drawing, a Line Drawing ,a Centreline Drawing, a Geometry Centreline, Drawing a Rectangle, Drawing a Circle, Drawing an Ellipse, Drawing an Arc etc.,

3. CREATING BASE FEATURES
Creating Base Features Invoking the Part Mode The Default Datum Planes Creating a Protrusion Extruding a Sketch Revolving a Sketch, Understanding the Orientation of Datum Planes Parent-Child Relationship Implicit Relationship Explicit Relationship.

4. DATUMS
Datums Default Datum Planes Need for Datums in Modeling Selection Method in Creo Parametric Datum Options Datum Planes Creating Datum Planes Datum Planes Created On-The-Fly Datum Axes Datum Points.

5. OPTIONS AIDING CONSTRUCTION OF PARTS
Creating Holes The Hole Dashboard Important Points to Remember While Creating a Hole Creating Rounds Creating Basic Rounds Creating a Variable Radius Round Points to Remember While Creating Rounds Creating Chamfers Corner Chamfer Edge Chamfer.

6. ADVANCED MODELING TOOLS
Sweep Features Creating Sweep Protrusions Aligning a Sketched Trajectory to an Existing Geometry Creating a Thin Sweep Protrusion Creating a Sweep Cut Blend Features Parallel Blend Rotational Blend General Blend Using Blend Vertex Shell Feature Creating a Constant Thickness Shell

7. ASSEMBLY MODELING
Assembly Modeling Important Terms Related to the Assembly Mode Top-down Approach Bottom-up Approach Placement Constraints Package Creating Top-down Assemblies Creating Components in the Assembly Mode Creating Bottom-up Assemblies Inserting Components in an Assembly.

8. SURFACE MODELING

Creating Surfaces in Creo Parametric Creating an Extruded Surface Creating a Revolved Surface Creating a Sweep Surface Creating a Blended Surface Creating a Swept Blend Surface Creating a Helical Sweep Surface Creating a Surface by Blending the Boundaries Creating a Variable Section Sweep Surface Using the Sweep Tool.

Course Outcomes:

Upon completing the course, students willstudy:

- Re-create part drawings, sectional views and assembly drawings as per standards
- Draw 3D and Assembly drawing using Creo software

COURSE CO-ORDINATOR

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DEPARTMENT OF SCIENCE AND HUMANITIES
CIRCULAR
(2019– 2020)

CIR. No: SACET/S&H/CIR/ |7.   03.02.2020

The Department of Science and Humanities has planned to conduct a value added course on **"HARD WARE BASICS"** from 10.02.2020 to 14.02.2020. All first year students are invited for the course.

Name of the Resource Person(S):   1. **Mr. S. Manavalan A/P**
Department of Computer science and 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

HARDWARE BASICS

Resource Person

MR. S. MANAVALAN
Assistant Professor,
Department of CSE

MR. S. ASHOK
Lab Assistant,
Department of CSE

Details visit:
www.stannescet.ac.in

Date   : 10.02.2020 - 14.02.2020
Venue   : Conference Hall

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DEPARTMENT OF SCIENCE AND HUMANITIES
VALUE ADDED COURSEON
HARD WARE BASICS
SYLLABUS

About the Course:

Computer hardware includes the physical parts of a computer .such as the case. Central processing unit (CPU). Monitor, moue. Keyboard. Computer data storage, graphics card, soundcard. Speakers and motherboard.

Course objectives:

Course material and assignments provide opportunities to:-

• Understand the fundamentals of Hardware

• Understand the operations of basic PC hardware Course Content

Course Content:

Day 1:

Introduction to computer hardware, components of motherboards & its types-ports. Slot. Connectors. add on cards.

Day 2:

Power supply units, cabinet types. Storage devices. Primary & secondary storage medium.

Day 3:

Magnetic disc, RAM. ROM, PROM, EPROM, Floppy, CDROM. CDRW, DVD, Virtual rnemory, Cache memory, Linear & Physical memory, video memory

Day 4:

Input devices-keyboard, mouse. Types of mouse. Joy stick, how input is taken in & given out. Gaming device

Day 5:

Output devices – monitors - different types of monitors. Printers & its types, Projectors.

EVENT CO-ORDINATOR   **HOD**