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: 2018-2019

INDEX

ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

(An ISO 9001: 2015 Certified Institution)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR
2018-2019

ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001: 2015 Certified Institution)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CIRCULAR
(2018 – 2019)

CIR. No: SACET/CSE/CIR/ 12   18.08.2018

The department of Computer Science and Engineering has planned to conduct a value-added course on **"MS PACKAGES"** for CSE students at Computer Lab-IV from 20.08.2018 to 24.08.2018. All final year CSE students are invited to attend the course.

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

COURSE CO-ORDINATOR   HOD

ST. ANNE'S
College of Engineering & Technology
(A unit of sisters of St. Anne, Tiruchirapalli)
(An ISO 9001:2015 Certified Institution)
Approved by AICTE, Delhi & Affiliated to Anna University, Chennai
Website: www.stannescet.ac.in | Email ID: stannescet@gmail.com | Phone No: 04142 - 241661, 242661

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

organizes

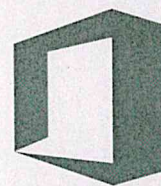### five days value added course on

MS PACKAGES

Resource Person

Mr. N. KUMAR, M.E
stant Professor, Department of CSE,
St. Anne's CET

Website
www.stannescet.ac.in

Date : 20.08.2018 to 24.08.2018
Venue : Computer Lab I & II

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Syllabus For Value Added Course on

"MS PACKAGES"

COURSE OBJECTIVES:

Office tools course would enable the students in crafting professional word documents, excel spread sheets, power point presentations using the Microsoft suite of office tools. To familiarize the students in preparation of documents and presentations with office automation tools.

SYLLABUS:

DAY	TITLE
Day 1	**Basic Computer Concepts and MS Word-** Text Basics, Text Formatting and saving file, Working with Objects, Header & Footers,
Day 2	**MS Word-** Working with bullets and numbered lists, Tables, Styles and Content, Merging Documents, Sharing and Maintaining Document, Proofing the document, Printing, Mail Merge
Day 3	**MS Excel-** Introduction to Excel, Introduction to Excel interface, Formatting excel work book, Perform Calculations with Functions, Sort and Filter Data with Excel,
Day 4	**MS Excel-** Create Effective Charts to Present Data Visually, Analyze Data Using Pivot Tables and Pivot Charts, Protecting and Sharing the work book, Use Macros to Automate Tasks, Proofing and Printing
Day 5	**MS Power Point-** Setting Up PowerPoint Environment, Creating slides and applying, themes, Working with bullets and numbering, Working with Objects, Hyperlinks and Action Buttons, Working With Movies and Sounds, Using Smart Art and Tables, Animation and Slide Transition, Using slide Master, Slide show option, Proofing and Printing.

COURSE OUTCOMES:

After successful completion of this course, students will be
- Able to perform documentation and presenting skills.
- Proficient in using Windows, Word Processing Applications, Spreadsheet Applications, Database Applications and Presentation Graphics Applications.

COURSE CO-ORDINATOR

HOD

ST.ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001 : 2015 Certified Institution)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CIRCULAR
(2018– 2019)

CIR. No. : SACET/EEE/CIR/03

It is informed that Department of Electrical and Electronics Engineering has planned to organize a five-day Value Added Course on **"Hands-on Training on Arduino for IoT Applications"** in our college premises to enhance the practical Knowledge of the students. Hence, all the IV Year Students of the Department are cordially invited.

Name of the Resource Person   : **Mr. Sriram. K, AP/EEE**
                                                 &
                     Mr. V.C EUGIN MARTIN RAJ AP/EEE

Date   **: 03.09.2018 to 07.09.2018.**

Venue   **: VLSI Laboratory.**

HOD/EEE

ST.ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPLAYAM, PANRUTI – 607 110.

POWER ENGINEERS TECHNICAL SOCIETY
In association with ISTE Students Chapter

We cordially invite you to the inauguration of five days
Value Added Course on

"Hands On Training on Arduino for IoT Applications"

from **03rd** to **07th September 2018**
at **10.00 AM** in **DSP/VLSI Lab**

In the presence of
Rev. Mother. Victoria, SAT.,
Secretary, St. Anne's CET.

Dr. R. Arokiadass, M.E., Ph.D.,
Principal, St. Anne's CET.

Head of the Department, Teaching, Non-Teaching Staff and Students of

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Welcome you all!!!

ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Syllabus For Value Added Course on

"HANDS-ON TRAINING ON ARDUINO FOR IOT APPLICATIONS"

Date: 03.09.2018 to 07.09.2018.

COURSE OBJECTIVES:

1. To program Arduino to control lights, motors, and other devices.

2. To learn Arduino's architecture, including inputs and connectors for add-on devices.

3. To add third-party components such as LCDs, accelerometers, gyroscopes, and GPS trackers to extend Arduino's functionality.

4. To understand various options in programming languages, from C to drag-and-drop languages.

5. To test, debug, and deploy the Arduino to solve real world problems.

SYLLABUS:

1. Introduction to the Internet of Things, Arduino, WIFI module.

2. Hands on training of NODEMUC ESP8266 WIFI enabled module.

3. Mini projects -Real time projects. Street Light controllers.

4. Programming fundamentals - Software used for control in Arduino -BLYNK, IFFTT applications and Ardafruit software.

5. Applications- Control Electronic Devices from anywhere across the world using Internet & Mobile App. (Google Assist controlling in Android mobile phone)

COURSE OUTCOMES:

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

1. Run both simple and complex assembly language applications.

2. Gain knowledgeable about how to connect I/O devices to the processor for task sharing.

3. Recall the fundamentals of the co-processor and how its instruction set can be used to handle float numbers.

4. Recognize the applications and capabilities of modern CPUs, including microcontrollers.

5. Develop the capacity to design components with reasonable expectations.

6. Constraints, to address actual technical challenges and evaluate the solutions.

COURSE CO-ORDINATOR   **HOD**

7

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001: 2015 Certified Institution)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
CIRCULAR
(2018 – 2019)

CIR. No: SACET/ECE/CIR/28   **20.12.2018**

The department of Electronics and Communication Engineering has planned to conduct a value added course on "Embedded and IOT" for ECE Students from 26.12.2018 to 29.12.2018 at VLSI/Embedded Laboratory. All interested students and staffs are invited to attend the course.

Name of the Resource Person: **Mr. B.Arun Kumar, M.E,**
                                      Assistant Professor
                                      Department of Electronics & Communication Engineering,
                                      St. Anne's College of Engineering and technology

EVENT CO-ORDINATOR 20/12/2018   **HOD** 20/12/18

Department of Electronics and Communication Engineering

&

Electronics and Communication Scientia Association(ECSA)

organizes a value added course on

EMBEDDED AND IOT

>>>>>>>>>>>>

26.12.2018 to 29.12.2018

Mr. B.ARUN KUMAR

Assistant Professor/ECE

St. Anne's College of Engineering and Technology, Panruti

Certificate

for all registered participants

ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
VALUE ADDED COURSE ON
EMBEDDED AND IOT

SYLLABUS

Objective:
The aim of the workshop is to make the students to learn the basics of embedded systems and IOT and to develop their own IOT based embedded system projects.

Day 1: Introduction to Embedded System
- Introduction To Embedded System Applications
- Scope Of Embedded System In Various Industries
- Introduction To Open Source Platform
- Starting With Embedded Systems
- AVR Microcontroller Programming
- Arduino Basics &Architecture
- Arduino Board Layout. What Are The Resources Available
- Arduino IDE Basics

Programming fundamentals (C language)
- Simple LED Program
- LED Blinking
- RGB Interfacing
- Traffic Light Control
- Buzzer Control

Day 2: Interfacing of sensors
- IR Sensor Module
- Flame Sensor Module
- Matrix keypad Module
- Capacitive Touch Module
- Seven Segment Display
- LDR Module
- Water Level Sensor Module
- Rain Drop Sensor Module
- Soil Moisture Sensor Module
- PIR Sensor Module
- Ultrasonic Sensor Module
- LCD Interfacing Module
- IR remote with reader

- DC motor Module
- Servo Motor Module
- Stepper Motor Module

Day 3: Simple program using Embedded and IOT

- Serial Communication Basics
- UART Programming
- RFID module
- Interfacing Bluetooth Module(HC-05)

Day 4: Creating own projects using Embedded and IOT

- Control Electronics Devices using Android Smartphone
- Arduino Voice Controlled Home Automation System.
- Designing a basic robot
- Basics of Robot Electronics
- Motors and Controlling Circuit
- Designing a robot
- Detailed introduction IoT with Arduino
- Esp8266LIVE Projects
- Sensor Interfacing (DEMO)
- DC Motor Driving (DEMO)
- DC Motor Driving using 4Bit Keypad (DEMO)
- Stepper Motor Driving (DEMO)
- Digital Visitor Counter (DEMO)
- Temperature Controlled Fan (DEMO)
- Digital Thermometer (DEMO)
- Home Security System

Outcomes:

Upon completing the course, students would be able to:

- Be familiar with Embedded and Arduino environment and its applications.
- Understand IOT Arduino programming with C++ and python.
- Design Smart systems applications using IOT.
- Understand about any new IDE, compiler, and MCU chip in Arduino compatible boards or similar types

O. Ovog 20/12/2018
EVENT CO-ORDINATOR

20/12/18
HOD

ST.ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

(An ISO 9001 **:** 2015 Certified Institution)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE ON EMBEDDED AND IOT

SESSION PLAN
DAY-1

DATE	TIME	TOPICS TO BE COVERED
26.12.2018	9:00AM to 10:30AM	✓ Introduction to Embedded System ✓ Introduction to Open Source platform ✓ Arduino Basics & Architecture
	10:30AM to 10:45AM	✓ Tea Break
	10:45AM to 12:30PM	✓ Arduino board layout ✓ Arduino IDE Basics & installation ✓ Programming fundamentals (C language)
	12:30PM to 01:00PM	✓ Lunch Break
	01:00 PM to 02:30 PM	✓ LED Blinking ✓ RGB Interfacing ✓ Seven Segment Display
	02:30 PM to 02:45 PM	✓ Tea Break
	02:45 PM to 06:00 PM	✓ IR Sensor Module ✓ LDR Module ✓ Buzzer Control ✓ PWM

DAY-2

DATE	TIME	TOPICS TO BE COVERED
27.12.2018	9:00AM to 10:30AM	✓ Joystick Interfacing ✓ Button Interfacing ✓ Relay Interfacing ✓ Dot Matrix Display Module/LCD Module
	10:30AM to 10:45AM	✓ Tea Break
	10:45AM to 12:30PM	✓ Matrix keypad Module ✓ Flame Sensor Module ✓ Water Level Sensor Module ✓ Rain Drop Sensor Module
	12:30PM to 01:00PM	✓ Lunch Break
	01:00 PM to 02:30 PM	✓ Float Sensor module ✓ Soil Moisture Sensor Module
	02:30 PM to 02:45 PM	✓ Tea Break
	02:45 PM to 06:00 PM	✓ Servo Motor Module ✓ Stepper Motor Module

DAY-3

DATE	TIME	TOPICS TO BE COVERED
28.12.2018	9:00AM to 10:30AM	✓ PIR Sensor Module ✓ Ultrasonic Sensor Module ✓ IR remote with reader
	10:30AM to 10:45AM	✓ Tea Break
	10:45AM to 12:30PM	✓ Ultrasonic Sensor Module ✓ DC motor Module ✓ Serial Communication

	12:30PM to 01:00PM	✓ Lunch Break
	01:00 PM to 02:30 PM	✓ Serial Based Device control ✓ Designing a basic robot ✓ Motors and Controlling Circuit ✓ Completing your own robot
	02:30 PM to 02:45 PM	✓ Tea Break
	02:45 PM to 06:00 PM	✓ Bluetooth Interfacing ✓ Android mobile based device control

DAY-4

DATE	TIME	TOPICS TO BE COVERED
	9:00AM to 10:30AM	✓ Introduction to IoT ✓ Introduction to ESP8266 / ESP8266 Node MCU
	10:30AM to 10:45AM	✓ Tea Break
	10:45AM to 12:30PM	✓ Programming Basics of ESP8266 ✓ Connecting and Controlling Relay Switch ✓ Programming the ESP as a web server
29.12.2018	12:30PM to 01:00PM	✓ Lunch Break
	01:00 PM to 02:30 PM	✓ Cayenne Cloud Cayenne
	02:30 PM to 02:45 PM	✓ Tea Break
	02:45 PM to 06:00 PM	✓ BLYNK (An mobile app to Control Remote Monitoring)

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

(An ISO 9001: 2015 Certified Institution)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF MECHANICAL ENGINEERING
CIRCULAR
(2018 – 2019)

CIR. No: SACET/MECH/CIR/05   20.09.2018

The department of Mechanical Engineering has planned to conduct a value added course on "Hands on Training on ANSYS" at Mechatronics Laboratory from 24.09.2018 to 28.09.2018. All interested students and staffs are invited for the course.

Name of the Resource Person(S):   1.**Dr. D.Ommurugadassan, M.E,**
Professor/HOD
Department of Electronics & Communication Engineering,
St. Anne's College of Engineering and technology

2.**K.Shanmuga Elango, M.Tech.**
Associate Professor
Department of Mechanical Engineering,
St. Anne's College of Engineering and technology

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

20/9/2018
HOD

15

ST. ANNE'S
College of Engineering & Technology
(A unit of sisters of St. Anne, Tiruchirapalli)
(An ISO 9001:2015 Certified Institution)
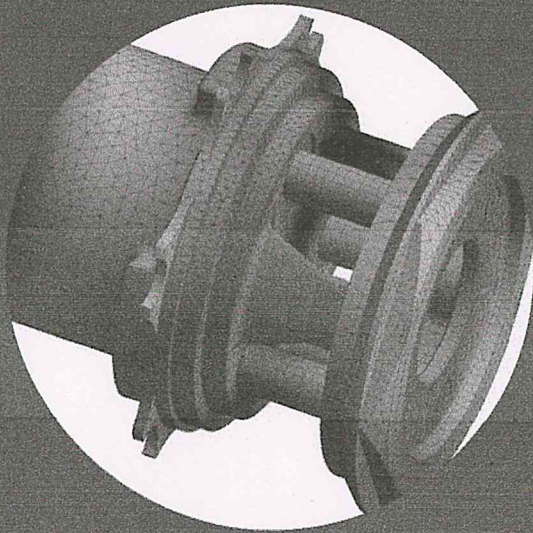Approved by AICTE, Delhi & Affiliated to Anna University, Chennai

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

DEPARTMENT OF MECHANICAL ENGINEERING
organizes
value added course on

HANDS ON TRAINING ON ANSYS

Course Content

- Introduction to finite element analysis and ANSYS
- Force and Stress analysis using link elements in Trusses, cables etc.
- Stress and deflection analysis in beams with different support conditions.
- Stress analysis of flat plates and simple shells.
- Stress analysis of axi – symmetric components.
- Thermal stress and heat transfer analysis of plates.
- Thermal stress analysis of cylindrical shells.
- Vibration analysis of spring-mass systems.
- Model analysis of Beams.
- Harmonic, transient and spectrum analysis of simple systems.

RESOURCE PERSONS

- Dr. D.Ommurugadassan, Professor/HOD
- K.Shanmuga Elango, ASP/MECH
- Mr. K.Saravanan, AP/MECH

Date   : 24.09.2018 to 28.09.2018
Venue   : Mechatronics LAB

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE ON
HANDS ON TRAINING ON ANSYS

SYLLABUS

Objective:

The aim of the course to give exposure to software tools needed to analyse engineering problems.

1. Introduction to finite element analysis and ANSYS
2. Force and Stress analysis using link elements in Trusses, cables etc.
3. Stress and deflection analysis in beams with different support conditions.
4. Stress analysis of flat plates and simple shells.
5. Stress analysis of axi – symmetric components.
6. Thermal stress and heat transfer analysis of plates.
7. Thermal stress analysis of cylindrical shells.
8. Vibration analysis of spring-mass systems.
9. Model analysis of Beams.
10. Harmonic, transient and spectrum analysis of simple systems.

CourseOutcomes:

Upon completing course the, students learned about:

- Analyze the stresses and strains induced in plates, brackets and beams and heat transfer problems.
- Calculate the natural frequency and mode shape analysis of 2D components and beams

COURSE CO-ORDINATOR

HOD

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001: 2015 Certified Institution)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF SCIENCE AND HUMANITIES
CIRCULAR
(2018– 2019)

CIR. No: SACET/S&H/CIR/19   25.02.2019

The Department of Science and Humanities has planned to conduct a value added course on **"BASICS OF LAPTOP MAINTANANCE AND OS INSTALLATION"** at conference hall from 04.03.2019 to 08.03.2019. All first year students are invited for the course.

Name of the Resource Person(S):   1.**Mr. S.Venuganan,**
System analyst,
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.
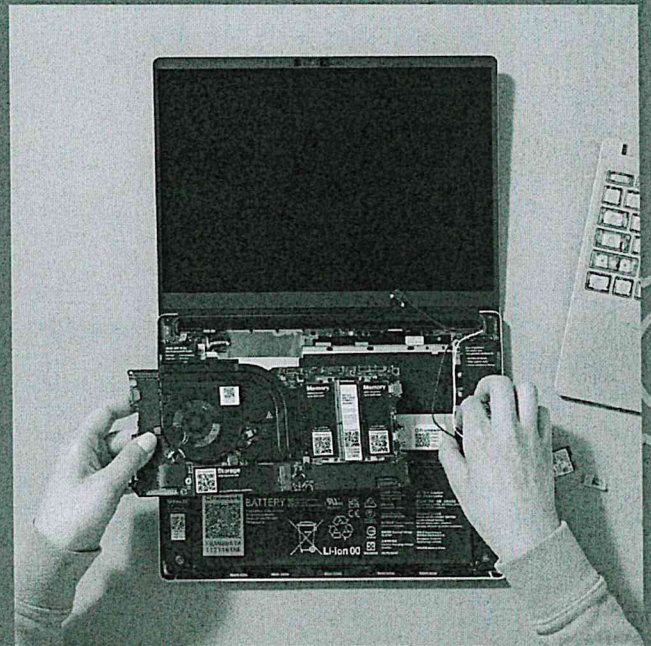
HOD

[

18

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF SCIENCE AND HUMANITIES
VALUE ADDED COURSEON
BASICS OF LAPTOP MAINTANANCE AND OS INSTALLATION

SYLLABUS

About the Course:

Important for aspiring computer techs to understand everything from computer components, installation of OS, configuration, fixing laptop hardware and troubleshooting etc.

Course objectives:

After completion of the course students will be able:-

1. To describe the social and professional impact and importance of technology

2. Identify career opportunities related to technology

Course Content:

Day 1: The Essentials of a Computer and Its Components Laptop Expansion Options

Day 2: Various mother board technologies and identify important motherboard parts. Configuration changes to a computer.

Day 3: Plan for a memory installation or upgrade-Configuring Windows Operating Systems

Day 4: Wi-Fi and Windows Networks Hardware parts that connect to different ports of a computer and laptop

Day 5: Basic troubleshooting-Install. Configure, and troubleshoot Windows and Linux Operating systems.

EVENT CO-ORDINATOR

HOD