



# 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: 2020-2021

#### INDEX

S.No.	Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	No. of times offered during the same year	Duration of course	Page No.
1	Java	1	30 hours	2-4
2	Product Development using Internet of Things (IoT)	1	30 hours	5-7
3	Programming Arduino using Tinker CAD	1	30 hours	8-11
4	Alternative Energy Sources	1	30 hours	12-13
5	MS Word and Excel	1	30 hours	14-18



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ACADEMIC YEAR  
2020-2021



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**CIRCULAR**  
**(2020 – 2021)**

**CIR. No: SACET/CSE/CIR/18**

**10.10.2020**

The department of Computer Science and Engineering has planned to conduct a value-added course on "JAVA" for CSE students from 12.10.2020 to 16.10.2020. All CSE students are invited to attend the course.

Name of the Resource Person(s): **MR. VELLAI VARANAN, M.Com, PGDCA**  
**TECHNICAL TRAINER,**  
**COMET SOFTWARES,**  
**CHENNAI.**

  
**COURSE CO-ORDINATOR**

  
**HOD**





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Website: [www.stannescet.ac.in](http://www.stannescet.ac.in) | Email ID: [stannescet@gmail.com](mailto:stannescet@gmail.com) | Phone No: 04142 - 241661, 242661

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

organizes

five days value added course on

# JAVA

Resource Person



**MR. VELLAI VARANAN,**  
Technical Trainer,  
Comet Softwares,  
Chennai.



Details visit

[www.stannescet.ac.in](http://www.stannescet.ac.in)

Date : 12.10.2020 to 16.10.2020

Venue : Computer Lab - IV





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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Syllabus For Value Added Course on

**“JAVA”**

**COURSE OBJECTIVES:**

1. To learn why Java is useful for the design of desktop applications.
2. To learn how to design a graphical user interface (GUI) with Java Swing.
3. To understand how to use Java APIs for program development and exception handling in Java applications.
4. To understand how to design GUI components with the Java Swing API.
5. To understand how to design applications with threads in Java.

**SYLLABUS:**

- Introduction to Java programming environment, Installing the JDK software
- Control Structures and Command line arguments
- Input Fundamentals and data types in Java
- OOP-Inner Class, Inheritance and Abstract Class, Polymorphism,
- Package
- Java String and Arrays
- Swings and Applets
- Input and Output Streams
- Exception Handling
- Multithreading and Serialization
- JDBC

**COURSE OUTCOMES:**

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

1. Use the syntax and semantics of java programming language and basic concepts of OOP.
2. Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
3. Write GUI programs using swing controls and applets in Java.
4. Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
5. Learn to access database through Java programs, using Java Data Base Connectivity (JDBC)
6. Write programs for solving real world problems using java collection frame work.

**COURSE CO-ORDINATOR**

**HOD**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**CIRCULAR**

**(2020– 2021)**

**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 Courseon “**Product Development using Internet of things (IoT)**” 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 : **16.03.2021to 20.03.2021.**

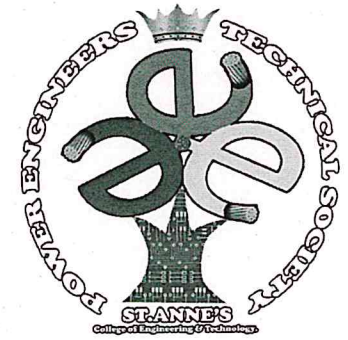
Venue : **Power System Laboratory.**

  
HOD/EEE





Department of Electrical and Electronics Engineering  
organizes



# Five Days Value Added Course on

## “Product Development using Internet of Things”

( 16.03.2021 to 20.03.2021)

Day - 1

Mr. S. Balabasker,  
Assistant Professor,  
Department of ECE,  
St. Anne's CET.

Day - 2 to 5

Dr. G. R. Kanagachidambaresan,  
Professor, Department of CSE,  
Veltech Rangarajan Dr. Sagunthala  
R&D Institute of Science and Tech., Chennai,



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College of Engineering and Technology  
Anguchettypalayam, Panruti,  
Tamilnadu, India. Pincode - 607106.







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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Syllabus For Value Added Course on

**“Product Development using Internet of things (IoT)”**

**Date: 16.03.2021 to 20.03.2021**

**COURSE OBJECTIVES:**

1. To support early stage IoT startups.
2. To give the Hands on Experience on Making IoT Product.
3. To implement basic design methodologies along with the practical implementation to build a successful IoTproduct.

**SYLLABUS:**

1. Introduction to IOT and Overview of IoT components and IoT Communication Technologies
2. IoT Hardware (Mechanical, Electrical & Electronics Engineering, Firmware Development, Industrial Design). (Sample Kits)
3. Introduction - Development of custom-engineered embedded devices
4. Wireless Communication protocols system.
5. Product Certification & Regulatory Compliance - Basics

**COURSE OUTCOMES:**

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

1. Skills to identify the relevant global certifications applicable to an IOT.
2. Demonstrate knowledge and understanding of the engineering and management principles
3. Roadmaps for the creation of IOT products and services
4. Plans for gaining IOT product certification and compatibility
5. Knowledge regarding how to categorize an IOT product or service correctly

  
**COURSE CO-ORDINATOR**

  
**HOD**





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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**CIRCULAR**

**(2020 – 2021)**

**CIR.No: SACET/ECE/CIR/16**

**08.03.2021**

The Department of Electronics and Communication Engineering has planned to conduct a Value added course on “Programming Arduino using Tinker CAD” for third and final year ECE students at VLSI/Embedded Laboratory from 10.03.2021 to 15.03.2021. All interested students and staffs are invited for attending 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.S. Durairaj, M.E,**  
Assistant Professor  
Department of Electronics & Communication Engineering,  
St. Anne's College of Engineering and Technology

*Blef 8/3/2021*  
**EVENT CO-ORDINATOR**

*S.P.K. 8/3/21*  
**HOD**

*R. Aradiass*  
**Dr. R. AROKIADASS, M.E., Ph.D.,**  
**Principal,**  
**St. Anne's College of Engineering & Technology,**  
**ANGUCHETTYPALAYAM,**  
**Siruvathur-(Post), Panruti-(T.k),**  
**Cuddalore-(Dist), Pin: 607 100**





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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

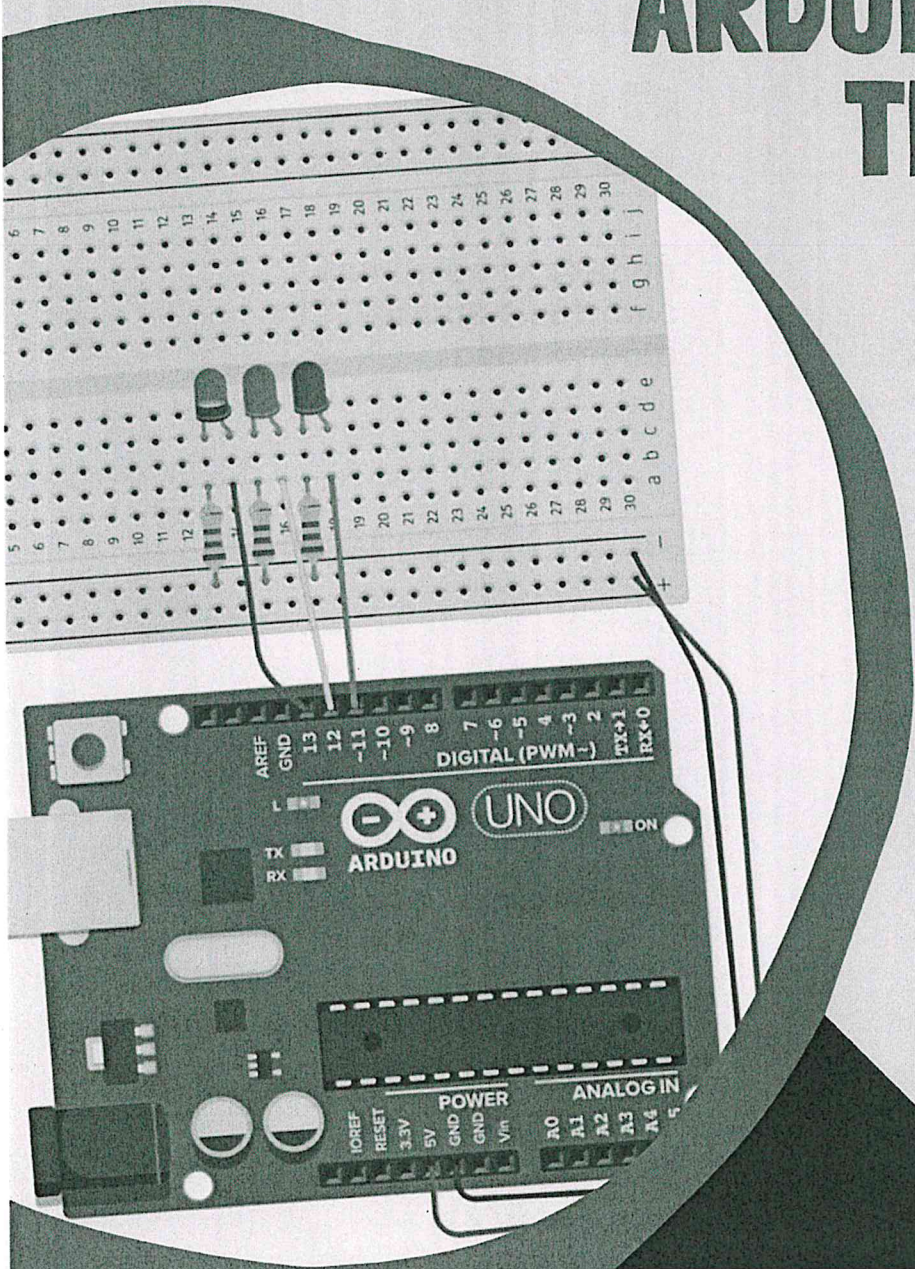
organizes value added course on

# PROGRAMMING ARDUINO USING TINKERCAD

Hands on workshop  
with various electronic  
components

**10.03.2021 – 15.03.2021**

Certificate will be  
provided to all  
participants



**Details Visit: [www.stannescet.ac.in](http://www.stannescet.ac.in)**





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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### VALUE ADDED COURSE ON PROGRAMMING ARDUINO USING TINKERCAD

#### 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 Arduino based embedded system projects using Tinkercad.

#### Day 1: Introduction

- ❖ Basic requirements for the workshop
- ❖ Setting up an account on Tinkercad
- ❖ Example circuits simulation on Tinkercad
- ❖ Create your first circuit on Tinkercad

#### Day 2: Simple circuits with Arduino

- ❖ Introduction to Arduino and glowing an LED
- ❖ Hardware demo of the LED blink program
- ❖ Controlling two DC motors with Arduino
- ❖ Adding L293D motor driver for current boosting
- ❖ Detecting Light Intensity with Arduino and decision making
- ❖ Light controlled robot with Photo resistor
- ❖ Connecting a servo motor with Arduino

#### Day 3: Sensor integration for robotics design

- ❖ Smart Street Light
- ❖ Smart Street Light hardware demo
- ❖ Integrating Ultrasonic sensor with Arduino using Tinkercad
- ❖ Car parking system with Ultrasonic sensor in Tinkercad
- ❖ Integrating Temperature sensor and its application
- ❖ Integrating Gas sensor and designing a smoke detector
- ❖ Integrating PIR sensor and designing a home security system
- ❖ A practical Burglar alarm
- ❖ Hardware demo of the burglar alarm system







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### DEPARTMENT OF MECHANICAL ENGINEERING

#### CIRCULAR

(2020 – 2021)

CIR. No: SACET/MECH/CIR/05

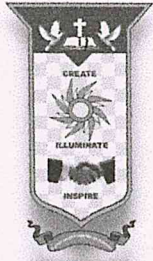
01.10.2020

The department of Mechanical Engineering has planned to conduct a value added course on “Alternative Energy Sources” at Mechatronics Laboratory from 05.10.2020 to 09.10.2020. All interested students and staffs are invited for the course.

- Name of the Resource Person(S):
- 1. Mr.R.Sasikumar, M.E,**  
Assistant Professor  
Department of Mechanical Engineering,  
St. Anne's College of Engineering and technology
  - 2. Dr.D. Ommurugadhasan. M.E,P.hD**  
Professor & Head  
Department of Mechanical Engineering,  
St. Anne's College of Engineering and technology
  - 3. Mr.K.Shanmuga Elango,M.Tech.**  
Associate Professor  
Department of Mechanical Engineering,  
St. Anne's College of Engineering and technology

*Shanmuga Elango*  
11/10/20  
HOD





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## DEPARTMENT OF MECHANICAL ENGINEERING

organizes

value added course on

# ALTERNATIVE ENERGY SOURCES

### RESOURCE PERSONS



**DR.D.OMMURUGADHASAN**  
PROF/MECH



**MR.R.SASIKUMAR**  
AP/MECH



**MR.K.SHANMUGA ELANGO**  
ASP/MECH

### DETAILS

**Date : 05.10.2020 to 09.10.2020**

**Venue : Mechatronics Lab**





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### DEPARTMENT OF MECHANICAL ENGINEERING

#### VALUE ADDED COURSE ON ALTERNATIVE ENERGY SOURCES

#### SYLLABUS

#### Objective:

- To make aware of the present energy scenario.
- To make aware of the global energy problem and leading role of the alternative energy sources for future survival.
- To gather, review and publicize the success stories involving alternative energy sources.
- To encourage public organizations to adopt these sources in their premises for a reliable, safe and quality based power supply.

1. Introduction to Energy Sources
2. List the Energy Conservation Techniques
3. Understand the Solar Energy
4. Understand the Wind Energy and its uses
5. Understand the Energy from Biomass
6. Understand the use of Geothermal Energy
7. Understand the Applications of MHD System
8. Explain the working of Fuel Cells - H<sub>2</sub>- O<sub>2</sub> fuel cell
9. Bio diesel production and applications
10. Open and Closed OTEC Cycles

#### Course Outcomes:

Upon completing the course, students learned about:

- Conceptual knowledge of the technology, economics and regulation related issues of alternative sources of energy.
- Capability to integrate various options and assess the business and policy environment regarding alternative energy projects.

*K. Srinivasan*  
11/10/2020

COURSE CO-ORDINATOR

*S. Srinivasan*  
11/10/2020

HOD



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### DEPARTMENT OF SCIENCE AND HUMANITIES

#### CIRCULAR

(2020– 2021)

CIR. No: SACET/S&H/CIR/24

24.05.2021

The Department of Science and Humanities has planned to conduct a value added course on “**MS WORD AND EXCEL**” from 01.06.2021 to 05.06.2021. 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.

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## DEPARTMENT OF SCIENCES AND HUMANITIES

organizes

five days value added course on

# MS WORD & EXCEL

Resource Person



**Mr. S. VENUGANAN**  
System Analyst,  
Department of CSE

**MR. S. ASHOK**  
Lab Assistant,  
Department of CSE



Details visit:  
[www.stannescet.ac.in](http://www.stannescet.ac.in)

Date : 01.06.2021 - 05.06.2021

Venue : Computer Lab I & II





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**DEPARTMENT OF SCIENCE AND HUMANITIES**

**VALUE ADDED COURSE ON**

**MS WORD AND EXCEL**

## SYLLABUS

### **About the Course:**

The course introduces you to fundamental MSWord and Excel concepts. You will learn to use the following applications: word processing program (MSWord) and the spread sheet program (MS Excel) this class is intended for students requiring 'hands-on' knowledge of computer applications.

### **Course objectives:**

After completion of the course students will be able:

1. Learn to Handle Small and Big Data Beller.
2. Employ ability increases.
3. Having Advanced Excel Knowledge Makes Valuable Employee. Course Content:

### **Course Content:**

#### **Day 1: INTRODUCTION TO WINDOWS AND MSOFFICE:**

Main Parts of the Computer Operating System, Application Software, Windows, Logon/off & Shutdown Procedure, Password Changes, Lock this computer Facility, Aero Effect (Peak, Shake, Snap), Desktop Icons etc. Introduction to MS Office, different applications in MSOffice.

#### **Day 2: MSWORD**

Introduction, Creating & Saving a Document. Save as command. Page setup, scrolling through a Document, Office Button, Closing a Document. Home Tab-Cut, Copy and Paste. Applying Font Styles, Change Case, Line Spacing, Paragraph Formatting, Bullets and Numbering, Find and Replace Zoom Control, etc. Insert Tab-Header and Footer, Page Number, Page Break, Tables, Symbol, Picture, Object, Word Art etc. Page layout Tab-Page Setup, Breaks, Columns, Borders and Shading, Watermark, Indents. Paragraph Spacing etc.



### **Day 3: MSWORD (continuity)**

Reference Tab-Table of Contents, Foot Notes, Citation & Bibliography, Captions, Table of Figures, index, Table of Authorities etc. Mailings Tab -Envelops, Labels, Mail Merge etc. Review Tab-Thesaurus, Word Count, Set Language, Comments, Track Changes, Protect Document etc. Hyperlink, Bookmark and Printing Documents, Save as in different Formats), Keyboard Shortcuts.

### **Day 4: EXCEL2007**

Introduction-Starting Excel, Introducing the Concepts of Work Sheets and Work Book, Sheet Tabs (Switching Between Worksheets, Renaming, Adding, Deleting and Rearranging), Rows, Columns and Cells (Insert/Delete, Row/Col etc.) Formula Bar, Name Box, Status Bar, Active Cell, Fill Handle, Entering Data, Saving Work Book, etc. Formatting Columns and Rows (Selecting, Inserting, Deleting, Widening, Hide, Unhide), Changing the Font Size and Alignment, Moving between Cells, Enter Key Directions, Auto Filling to Enter Data Series, Changing Text Wrap, Vertical Alignment and Orientation of Cell Entries. Merging Cells. Entering Values in a Table, Using Border and Colour, Number Formatting, Using Simple Formulas, Auto Sum, copying with Fill Handle, Using Reference Operators (Range, Union), Header and Footer, Inserting Symbols, etc.

### **Day 5: EXCEL2007(continuity)**

Using Functions, Commonly Used Simple Functions (Now, Sum, Sum if, Average, Min, Max, Count, Count if etc.) Creating Charts, Editing a Chart-Changing the Chart Type and Orientation of the Data Series, Editing chart Titles, Legend and Gridlines, Formatting the values on Y Axis, Moving and resizing the embedded chart. Logical Functions, Simple If Function Nested Functions; Sorting (Simple & Complex), Filtering Data (Auto Filter & Advanced Filter), Get External Data, Goal Seek, Conditional Formatting, Data Validation, and Sub totals. Hide and Protect Sheet, Book, Cells, Inserting Pictures and Objects, Freezing Panes, Page Setup, Print Area, Printing Worksheet & Charts, Keyboard Shortcuts.



**EVENT CO-ORDINATOR**



**HOD**