



**MOHAMED SATHAK A J COLLEGE OF ENGINEERING**

Sponsored by Mohamed Sathak Trust

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

Siruseri IT Park, Egattur, Chennai 603 103

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**Add on/Certificate programs**

**Academic Year 2019 – 2020**

  
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**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
Siruseri IT Park (OMR), Siruseri, IT Park  
Chennai-603 103.



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### Value Added Course

2019-2020

S.No	Name of Add on / Certificate programs offered	Course Code(if any) Collaboration Details	Year of offering	Number of students completing the course this year	Type of Add-on Course
1	Staad Pro	-	2019-2020	20	Self Framed Course
2	Robotic Process Automation(RPA)	-	2019-2020	47	Self Framed Course
3	IOT and Its Applications	-	2019-2020	27	Self Framed Course
4	Creo-Harness Design, GD&T-Industrial Standard	-	2019-2020	76	Self Framed Course
5	Training on CATIA-SOLID Model	-	2019-2020	44	Self Framed Course
6	PC Hardware & Networking	-	2019-2020	131	Self Framed Course

  
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### SUMMARY REPORT

ACADEMIC YEAR 2019-2020

**Name of the Course: Creo-Harness Design, GD&T Industrial Standard**

**Name of the Coordinator: Mr.S.Deepak Kumar**

**No. of Students Enrolled: 76**

**No. of Students Completed:76**

**Course Period: 07.12.2019 to 07.03.2020**

**Course Objective:**

The Students will acquire to

- Recognize proper application of GD&T
- Calculate geometric tolerances and boundaries
- learn basic skills of 2D sketching and drafting of field dimensions
- Develop a solution through group work.
- Communicate and present ideas and solutions to design problems

This Value Added Course on “Creo-Harness Design, GD&T Industrial Standard” is conducted for the students of Mechanical department as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed.

**Course Outcome:**

Upon the completion of this course the students will be able to

- Interpret GD&T and Engineering standardization on drawings using Creo
- Understand the fundamental concepts of GD&T
- Apply basic knowledge of sketching techniques and modify the dimensions with BIS standards.
- Illustrate to familiarize in two-dimensional drawings with AutoCAD.
- Manipulate drawings through editing and plotting techniques

Name: Mr.S.Deepak Kumar

Designation: AP/MECH

  
**Head Training**

Mr.S.Deepak Kumar



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**Department of Electronics and Communication Engineering**

**SUMMARY REPORT**

**ACADEMIC YEAR 2019-2020**

**Name of the Course :** IOT and its Applications

**Name of the Coordinator:** Mr.S.Naveenkumar AP/ ECE

**No. of Students Enrolled:** 27

**No. of Students Completed:** 27

**Course Period:** 30.09.2020 to 25.10.2020

**Course Objective:**

- To explore the interconnection and integration of the physical world and the cyber space.
- To design & develop IOT Devices.

This Value Added Course on “IOT and its Applications” is conducted for III year ECE students as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed.

**Course Outcome:** Students shall be able

- To understand the application areas of IOT.
- To realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks and building blocks of Internet of Things and characteristics.

Name: Mr.S. Naveen Kumar

Designation: AP/ECE

  
**Head Training**

  
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**DEPARTMENT OF SCIENCE AND HUMANITIES**  
**SUMMARY REPORT**

**ACADEMIC YEAR 2019 – 2020**

**Name of the Course:** PC Hardware & Networking

**Name of the Coordinator:** Mrs. V. Rajathi

**No. of Students Enrolled:** 131

**No. of Students Completed:** 131

**Course Period:** 17/02/2020 to 22/02/2020

**Course Objectives:**

- 1.To develop programming skill to solve a problem
- 2.To gain knowledge about peripheral devices.
- 3.To acquire basic knowledge about computer hardware.
- 4.To acquire knowledge about Installation and troubleshooting.
5. To know basic about TCP /IP, internet and Intranet.

This Value-Added Course on “PC Hardware & Networking” is conducted for I year students as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed

**Course Outcomes:**

The students will be able to

- CO1. Student will have in depth knowledge about basic of computer assembling.
- CO2. Students have in depth knowledge about IP address
- CO3. The student will able to know the basic of PC hardware
- CO4. Students will have brief knowledge about computer networking and troubleshooting.
- CO5. The student will able to know the networking devices.

Name: Mrs. V. Rajathi, AP/ CSE

  
Head Training



  
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### SUMMARY REPORT

ACADEMIC YEAR 2019-2020

**Name of the Course:** Robotic Process Automation (RPA)

**Name of the Coordinator:** Mr.K.Vairaperumal

**No. of Students Enrolled:** 34

**No. of Students Completed:** 34

**Course Period:** 22-07-2019 to 27-07-2019

#### Course Objective:

- To provide an overview of the automation anywhere enterprise platform architecture and components.
- To provide in depth knowledge about the various components of AA software including development, runtime client and control room.
- To create bots using different types of recorders, Editors and Basics commands using automation anywhere platforms.
- To apply bot creation methodologies for developing bots to solve any real world problem in IT Education and Banking Sectors.

This Add-On Course on “Robotic Process Automation” is conducted for both CSE & IT students as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed.

**Course Outcome:** Students shall be able to gain knowledge in

- Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.
- Develop and deploy software bots which can performs automation task 24x7 without interruption.
- Build an analytics bot that can be used in finance, stock market and banking sector.

Name: Mr.K.Vairaperumal

Designation: AP/EEE

  
Head Training

  
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**Department of EEE**  
**SUMMARY REPORT**

ACADEMIC YEAR 2019-2020

**Name of the Course: Robotic Process Automation**

**Name of the Coordinator: Mr.K.Vairaperumal**

**No. of Students Enrolled: 13**

**No. of Students Completed: 13**

**Course Period: 22<sup>nd</sup> July 2019 to 28<sup>th</sup> July 2019**

**Course Objective:**

- To provide an overview of the automation anywhere enterprise platform architecture and components and explain in detail about the various features and functionalities of the AA working domain.
- To provide in depth knowledge about the various components of AA software including development, runtime client and control room.
- To Create bots using different types of recorders, Editor and Basics commands using automation anywhere platforms.
- To apply bot creation methodologies for developing bots to solve any real world problem in IT Education and Banking Sectors.

This Value Added Course on “Robotics Process Automation” is conducted for both EEE & ECE students as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed.

**Course Outcome:** The students will be able to

- Automate any sort of manual or repetitive human tasks by using the Automation anywhere tool.
- Develop and deploy software bots which can performs automation task 24x7 without interruption.
- Build an analytics boot that can be used in finance, stock market and banking sector.

Name: Mr.K.Vairaperumal

Designation: AP/EEE

Co-Ordinator

HOD



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**DEPARTMENT OF CIVIL ENGINEERING**

**Value added course summary 2019-2020**

**Course Name** : STADD PRO V8i  
**Course Duration** : 45 Hours  
**Year offered** : III year Students 2019-20  
**Course Instructor** : Mr.R.B.Rakesh AP/CIVIL  
**Course Outcome** :

Upon completion of the course, the students will be able to

1. Understand basic concepts of basic knowledge about structural analysis and design.
2. Have a solid background on the principles of structural-engineering designs.
3. Creating Nodes, Members, Plate Elements And Surface Elements, Structural Modeling Using Staad Guide , Modeling Using The Structure Wizard, Adding Beam Using Tools, Creating Beams, Creating Plates Using Meshing.
4. Understand the Primary Loads, Self-Weight, Nodal Loads, Member Loads, Area Loads, Floor Loads, Surface Loads, Solid Loads, Seismic Loads.
5. Develop graphical skills Pre Analysis Print, Performing Analysis, Post Analysis Print, Viewing Results, View Output File, Go to Post Process Mode designs.

**Course Type** : Anna University one credit Value added course  
Theory and Practical with Hands on sessions

**Assessment Mode:**

**Attendance** : 45 Hours  
**No. of Participants** : 20  
**Scheme of Exam** : Paper based Multiple choice question  
**Date of Exam** : 16/12/2019

*R. B. Rakesh*  
**Course Coordinator**

*Ush...*

*M.B. Shanmuharajan*  
**HoD**

**[Mr M.B. Shanmuharajan]**

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## SUMMARY REPORT

ACADEMIC YEAR 2019-2020

**Name of the Course: Training on CATIA Solid Models**

**Name of the Coordinator: Mr.S.Bharath**

**No. of Students Enrolled: 99**

**No. of Students Completed: 99**

**Course Period: 06.07.2020 to 14.07.2020**

### Course Objective:

The Students will acquire to

- Understand basis of graphical representation in the general context of Industrial Engineering.
- Apply expression and communication for the design, creation, definition and development of an industrial installation and/or product making practical use of the current technologies
- Create design shapes with 3D modeling, assembly, sheet metal design and visualization features
- Learn the implementation of solid modeling and get hands-on experience with the real world projects

This Value Added Course on “Training on CATIA Solid Models” is conducted for the students of Mechanical department as a part of co-curricular activities program. All registered students for this program were actively attended and learned throughout the duration of this program and successfully completed.

### Course Outcome:

Upon the completion of this course the students will be able to

- Interpret and/or convey the technical information in an industrial drawing
- Apply graphical representation techniques using traditional metric geometry and Know, identify, interpret and apply the current standards
- do assembly designing, sheet metal designing, and template based designing
- perform visual analysis and validation which will give them high quality performance insights for product decisions

Name: Mr.S.Bharath

Designation: AP/MECH

S. Bharath  
Head Training  
Mr.S.Bharath

R. Sathak  
HOD

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