Add on/Certificate programs

Academic Year 2018 – 2019

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

Value Added Course

2018-2019

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	Sketchup	-	2018-2019	24	Self Framed Course
2	Data Science	-	2018-2019	41	Self Framed Course
3	Technology Skill Development in PCB design	-	2018-2019	8	Self Framed Course
4	CATIA	-	2018-2019	99	Self Framed Course
5	CREO	-	2018-2019	82	Self Framed Course
6	PC Hardware & Networking Issues	-	2018-2019	78	Self Framed Course
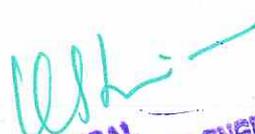
PRINCIPAL

MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING

Gandhi Road (OMR), Siruseri, IT Park

Chennai-603 103.

SUMMARY REPORT

ACADEMIC YEAR 2018-2019

Name of the Course: CATIA

Name of the Coordinator: Mr.V.G.Sathish

No. of Students Enrolled: 99

No. of Students Completed: 99

Course Period: 07.01.2019 to 12.01.2019

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 "CATIA" 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.V.G.Sathish

Designation: AP/MECH

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34 Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

Head Training

Mr.V.G.Sathish

HOD

SUMMARY REPORT
ACADEMIC YEAR 2017-2018

Name of the Course: CNC Programming

Name of the Coordinator: Mr. Venkat Raman

No. of Students Enrolled: 102

No. of Students Completed: 102

Course Period: 19.06.2017 to 27.06.2017

Course Objective:

The Students will acquire to

- Understand fundamental principles of CAM and CNC Process
- Expertise in geometric modeling techniques, data structure design and algorithms for solid modeling
- Understand knowledge of machining theory, automated CNC machining, and process control.
- Apply the concept to product design and manufacturing
- Exposure to CNC Coding and CAM Simulation software

This Value Added Course on "CNC Programming" 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:

Students shall be able to gain knowledge in

• Concepts and underlying theory of modeling and the usage of models in different engineering applications

• Create accurate and precise geometry of complex engineering systems and use the geometric models in different engineering applications

• Compare the different types of modeling techniques and explain the central role solid models play in the successful completion of CAD/CAM-based product development

• Understand the basic concepts of CNC programming and machining

Name: Mr. Venkat Raman

Designation: AP/MECH

Venkat raman.

Head Training

Mr. Venkat Raman

HOD

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

Department of EEE

SUMMARY REPORT

ACADEMIC YEAR 2017-2018

Name of the Course: Introduction to PLC and SCADA

Name of the Coordinator: Mr.K.A.Mohamed Shahin Gani

No. of Students Enrolled: 51

No. of Students Completed: 21

Course Period: 21st August 2017 to 26st August 2017

Course Objective:

- Students will be able to describe typical components of a Programmable Logic Controller.
- Students will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
- Students will be able to design and program a small, automated industrial production line.
- Students will be able to use timer, counter, and other intermediate programming functions.

This Value Added Course on "Introduction to PLC and SCADA" is conducted for EEE 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

- Understand the fundamental of PLC

- Program a PLC with different logical languages

- Various industrial applications of PLCs are studied.

- Able to understand the need of computer in Automation.

- Understand the basics of data conversion and data acquisition

Name: Mr.K.A.Mohamed Shahin Gani

Designation: AP/EEE

Co-Ordinator

HOD

SUMMARY REPORT
ACADEMIC YEAR 2017-2018

Name of the Course: CAD Modeling using CATIA V5

Name of the Coordinator: Mr.S.Bharath

No. of Students Enrolled:83

No. of Students Completed:83

Course Period: 19.06.2017 to 28.06.2017

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 "CAD Modeling using CATIA V5" 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:

Students shall be able to gain knowledge in

• 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

Head Training

Mr.S.Bharath

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

HOD

SUMMARY REPORT

ACADEMIC YEAR 2017-2018

Name of the Course: CNC Programming

Name of the Coordinator: Mr.Venkat Raman

No. of Students Enrolled:102

No. of Students Completed:102

Course Period: 19.06.2017 to 27.06.2017

Course Objective:

The Students will acquire to

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- Expertise in geometric modeling techniques, data structure design and algorithms for solid modeling
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This Value Added Course on "CNC Programming" 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:

Students shall be able to gain knowledge in

- Concepts and underlying theory of modeling and the usage of models in different engineering applications
- Create accurate and precise geometry of complex engineering systems and use the geometric models in different engineering applications
- Compare the different types of modeling techniques and explain the central role solid models play in the successful completion of CAD/CAM-based product development
- Understand the basic concepts of CNC programming and machining

Name: Mr.Venkat Raman

Designation: AP/MECH

Venkat raman.

Head Training

Mr.Venkat Raman

PRINCIPAL

MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING

34, Rajiv Gandhi Road (OMR), Siruseri, IT Park

Chennai-603 103.

HOD

Department of EEE

SUMMARY REPORT

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- Understand the basics of data conversion and data acquisition

Name: Mr.K.A.Mohamed Shahin Gani

Designation: AP/EEE

Co-Ordinator

HOD

DEPARTMENT OF SCIENCE AND HUMANITIES
SUMMARY REPORT

ACADEMIC YEAR 2017 – 2018

Name of the Course: PC Hardware & Network Troubleshooting problems

Name of the Coordinator: Mrs. V. Subapriya

No. of Students Enrolled: 147

No. of Students Completed: 147

Course Period: 05/03/2018 to 11/03/2018

Course Objectives:

1. To Identify characterize / define a problem.
2. To acquire knowledge about basic networking topologies, models.
3. To acquire basic knowledge in various networking devices like routers, switches, hubs.
4. To acquire knowledge about PC assembling, trouble shooting and maintenance.
5. To generate basic knowledge of servers and network security.

This Value-Added Course on "PC Hardware & Network Troubleshooting problems" 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.
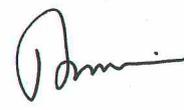
Course Outcomes:

The students will be able to

CO1. Student should able to know about hardware, software and network technologies.

CO2. Students will have in-depth knowledge about networking devices.

CO3. The student will able to know the basic of computer assembling and troubleshooting.

CO4. Students will have brief knowledge about network troubleshooting

CO5. The student will able to know the basic of servers and network security.

Name: Mr. K. Suresh, AP/ CSE

Head Training

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

HOD

SUMMARY REPORT

ACADEMIC YEAR 2017-2018

Name of the Course: Python Full Stack

Name of the Coordinator: Mr.A.Syed Ismail

No. of Students Enrolled: 49

No. of Students Completed: 49

Course Period: 05/02/2018 to 12/02/2018

Course Objective:

- To learn the python fundamentals.
- To read and write simple python programs.
- To develop Python programs with conditionals and loops.
- To learn how to use functions, arrays and strings in python programs.
- To learn how to develop python programs using list, tuple and dictionary.

This Add-On Course on "Python Full Stack" 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

- Illustrate basic concepts of python programming.
- Apply the knowledge of python programming elements to solve and debug logical problems.
- Demonstrate programs with conditional and loops.
- Demonstrate programs using functions, arrays and strings.
- Analyze the various techniques used for sorting and to store and retrieve data in files.

Name: Mr.A.Syed Ismail

Designation: AP/CSE

Head Training

PRINCIPAL
Mr. HAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri IT Park
Chennai-603 103.

HOD

DEPARTMENT OF CIVIL ENGINEERING

Value added course summary 2017-2018

Course Name	: REVIT ARCHITECTURE
Course Duration	: 45 Hours
Year offered	: IV Year 2017-18
Course Instructor	: Mr.B.Rizha Ur Rahman AP/CIVIL
Course Outcome	:

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

1. Understand the user interface, parametric objects, and families, and start projects using templates.

2. Create and modify levels and grids.

3. Create a basic floor plan, add and modify walls and compound walls use editing tools and work with doors and windows.

4. Work with component families.

5. Duplicate and manage views, control object visibility in views, and create elevation, section, and 3D views.

6. Learn how to use dimensions and constraints.

7. Create floors and ceilings, add roofs and curtain walls, and work with stairs and railings in a building model.

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

Assessment Mode:

Attendance	: 45 Hours
No. of Participants	: 60
Scheme of Exam	: Paper based Multiple choice question
Date of Exam	: 16/12/2017

Course Coordinator

HoD

[Dr D.Ravi]

DEPARTMENT OF SCIENCE AND HUMANITIES
SUMMARY REPORT

ACADEMIC YEAR 2017 – 2018

Name of the Course: PC Hardware & Network Troubleshooting problems
Name of the Coordinator: Mrs. V. Subapriya
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No. of Students Completed: 147
Course Period: 05/03/2018 to 11/03/2018
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4. To acquire knowledge about PC assembling, trouble shooting and maintenance.
5. To generate basic knowledge of servers and network security.

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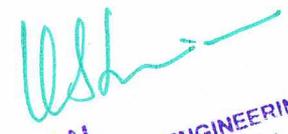
Course Outcomes:
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CO3. The student will able to know the basic of computer assembling and troubleshooting.

CO4. Students will have brief knowledge about network troubleshooting

CO5. The student will able to know the basic of servers and network security.

Name: Mr. K. Suresh, AP/ CSE

Head Training

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

HOD

SUMMARY REPORT

ACADEMIC YEAR 2017-2018

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Name: Mr.A.Syed Ismail

Designation: AP/CSE

Head Training

HOD

DEPARTMENT OF CIVIL ENGINEERING

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[Dr D.Ravi]