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NAAC A
With Grade

## Department of Mechanical Engineering

## List of Value Added Courses

**A,Y:2019-2020**

| S.No | Name of The Course | Dates | Year | No. of Students Attended |
|---|---|---|---|---|
| 1 | Certification Programme On CNC Programming | 02-09-2019 to 09-09-2019 | IV B. Tech II Semester | 39 |
| 2 | Certification Programme On CATIA | 17-09-2019 to 21-09-2019 | IV B. Tech II Semester | 41 |
| 3 | Certification Programme On Solid Edge | 21-09-2019 to 28-09-2019 | IV B. Tech II Semester | 58 |
| 4 | Training Programme On AutoCAD | 11-11-2019 to 16-11-2019 | IV B. Tech II Semester | 75 |

**Signature of Coordinator**

**Signature of HOD**

Devineni Venkata Ramana & Dr.Hima Sekhar
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**IOC - Outgoing**

DEPARTMENT: ME

DATE: 28-08-2019

ACADEMIC YEAR: 2019-2020

| | |
|---|---|
| ORIGINATOR | HOD, ME |
| CIRCULATED TO | Faculty, IVB. Tech Students(ME) and Dept. Notice Board |

It is hereby informed that the Department of ME is Conducting CNC Programming training for IVB. Tech students (ME) in collaboration with the training andplacement cellof MIC College of Technology, Kanchikacherla, from02-09-2019 to 09-09-2019. In this regard, all the faculty and students are hereby informed to utilize this opportunity.

HOD, ME

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NAAC A With Grade

## TOPICS COVERED

1 Introduction

2 What is a CNC machine.

3 History of CNC machines.

4 Categories of CNC machines.

5 Introduction to Master Cam.

6 Introduction of "Toolpath".

7 How to decide which tools to use.

8 Tutorial and exercises of Contouring, Drilling and Pocketing toolpaths.

9 Introduction of 3D toolpath.

10 Post processing of a Toolpath.

11 What are G-codes and M-codes.

12 Powering up the machine.

13 Machine controls.

14 Machine Home position.

15 Work Home position.

16 Tool setup.

17 Work setup.

18 How to import G-code file.

19 Execution and machining.

20 Analyze a machined part and Safety.

## DEPARTMENT OF MECHANICAL ENGINEERING

# CNC PROGRAMMING

RESOURCE PERSON FROM

*collaboration with the training and placement cell*

**02-09-2019 to 09-09-2019**

**REGISTRATION FEE FREE**

CNC PROGRAMMING

Co-Ordinator

**Ms. D. Divya**
Assistant Professor,
Department of ME

**Principal**
**Dr.Y. SUDHEER BABU** M Tech, PhD

Devineni Venkata Ramana & Dr.Hima Sekhar
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# Department of Mechanical Engineering

## Academic Year: 2019-20

Academic Year: 2019-2020

Name of the event: ***Workshop on CNC Programming***

Date of the event: 2nd Sep to 9th Sep 2019

Name of the coordinator: D. Divya,

Asst Professor, Dept of ME

Description:

- It is hereby informed that the Department of ME is Conducting CNC Programming training for IV B. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, conducted the CNC Programming workshop on Developing the understanding of the process of CNC machining process is the key to the course. As an engineer when a university graduate lands a job in the industry, he/she will come across these machines, especially in manufacturing e.g.: Automobile/Motorcycle Industry, Innovative Technologies Industry, Research and Development Industry and Manufacturing Machine Parts Industry, etc.
- Today's manufacturing utilizes innovative technologies, including sophisticated Computer numerical control (CNC), computer-aided manufacturing (CAM) software and specialty industry materials to develop and build the products of tomorrow.
- Students will be walked through all aspects of CNC machining, how to import a CAD model into CAM software, how to get it ready for machining and how to apply machining techniques to machine that part. At the end, students will spend some time on the machine learning how to machine a part on a CNC milling machining center. This last step is critical to put together pieces of the puzzle, so that one can understand the whole process.

- Students will be applying machining techniques in the virtual world and then apply and see how a virtual object comes into reality on a CNC machine.
- The course will enable students to understand the whole process of CNC machining so that they are aware and have knowledge of the process, and it doesn't take them by surprise when they see these machines in the industry. Having prior knowledge and understanding will enable them to take part in decision-making as well. This basic course is designed around the idea of knowledge, awareness and hands-on training.
- Eight days of training include Forenoon and Afternoon Sessions, which include hands-on experience.
- This workshop is beneficial to 39 students who are trained during these 8 days of the workshop.

Target Audience: IV B. Tech – ME students.

**Programme Coordinator** **HOD** **Principal**

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## Department of Mechanical Engineering

## List of Value Added Courses

**A,Y:2019-2020**

| S.No | Name of The Course | Dates | Year | No. of Students Attended |
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| 4 | Training Programme On AutoCAD | 11-11-2019 to 16-11-2019 | IV B. Tech II Semester | 75 |

**Signature of Coordinator**

**Signature of HOD**

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**IOC - Outgoing**

DEPARTMENT: ME

DATE: 12-09-2019

ACADEMIC YEAR: 2019-2020

| | |
|---|---|
| ORIGINATOR | HOD, ME |
| CIRCULATED TO | Faculty, IVB. Tech Students(ME) and Dept. Notice Board |

It is hereby informed to you that the Department of ME is Conducting CATIA training for IVB. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, from17-09-2019 to 21-09-2019. In this regard, all the faculty and students are hereby informed to utilize this opportunity.

**HOD, ME**

Devineni Venkata Ramana & Dr.Hima Sekhar
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NAAC A
With Grade

## TOPICS COVERED

1 INTODUCTION
2 CATIA Natural Shape
3 CATIA Natural Assembly
4 CATIA Bent Part Design
5 CATIA Assembly Design
6 CATIA Mechanical Systems Design
7 CATIA Part Design
8 CATIA Functional Part Design
9 CATIA Drafting
10 CATIA 2D Layout for 3D Design
11 CATIA Component Family Definition
12 CATIA 3D Templates Capture
13 CATIA Product Structure Design
14 CATIA 3D Printing
15 CATIA Weight Analysis
16 CATIA Generative Shape Design
17 CATIA Free Style Shape Analysis
18 CATIA Engineering IP Control

## DEPARTMENT OF MECHANICAL ENGINEERING

# CATIA

17-09-2019 to
21-09-2019

**RESOURCE PERSON FROM**
*Collaboration with training and placement cell*

**REGISTRATION FEE FREE**


**Mrs. K. Supriya**
Assistant Professor,
Department of ME

**Principal**
**Dr.Y. SUDHEER BABU**
M. Tech, PhD

Devineni Venkata Ramana & Dr.Hima Sekhar
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With Grade

# Department of Mechanical Engineering

## Academic Year: 2019-20

Academic Year: 2019-2020

Name of the event: ***Workshop on CATIA***

Date of the event: 17th Sep to 21st Sep 2019

Name of the coordinator: Mrs. K. Supriya

Assistant Professor

Description:

- The Department of ME is Conducting CATIA training for IV B. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, conducted the CATIA workshop on Create and Manage Complete Mechanical Project, Including Advanced Surface Design etc.
- Five days of training includes Forenoon and Afternoon Sessions, which includes hands-on experience.
- Create and manage the design of sophisticated mechanical projects, including advanced surface design
- Real-time collaboration: work in parallel and exchange through 3DEXPERIENCE Platform
- Conceptual design: use 2D or 3D techniques to create a workable concept for detailed design
- Assembly & kinematics: Design and animate complex kinematic mechanisms
- Detailed Design: Accelerate the detailed design of the rough parts and check the feasibility to ensure the manufacturing requirements
- Unified user interface: Accelerate your design with natural manipulations and contextual interactions

- Product review: Detect and track interferences, check the weight distribution, and analyze the digital mock-up with relevant engineering data
- Knowledge design automation: Capitalize on your assets, capture modeling methodologies, and reuse associative templates
- Associative Drawings: Generate associative layouts with multi-views, dimensions, and associated bill of materials
- Advanced Surface Design: Enrich mechanical products with sophisticated and high-quality shapes
- This workshop is beneficial to 41 students who are trained during these 5 days of the workshop.

Target Audience: IV B. Tech – ME students.

**Programme Coordinator** **HOD** **Principal**

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NAAC A
With Grade

## Department of Mechanical Engineering

## List of Value Added Courses

**A,Y:2019-2020**

| S.No | Name of The Course | Dates | Year | No. of Students Attended |
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| 3 | Certification Programme On Solid Edge | 21-09-2019 to 28-09-2019 | IV B. Tech II Semester | 58 |
| 4 | Training Programme On AutoCAD | 11-11-2019 to 16-11-2019 | IV B. Tech II Semester | 75 |

**Signature of Coordinator**

**Signature of HOD**

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**IOC - Outgoing**

DEPARTMENT: ME

DATE: 16-09-2019

ACADEMIC YEAR: 2019-2020

| | |
|---|---|
| ORIGINATOR | HOD, ME |
| CIRCULATED TO | Faculty, IVB. Tech Students(ME) and Dept. Notice Board |

It is here to inform you that the Department of ME is Conducting Solid Edge training for IVB. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, from21-09-2019 to 28-09-2019. In this regard, all the faculty and students are hereby informed to utilize this opportunity.

**HOD, ME**

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NAAC With Grade A

## TOPICS COVERED

1 Introduction
2 Exploring Solid Edge
3 Reference Planes, Profiles & Sketches
4 Part Modelling
5 Sheet Metal Design
6 Assembly Design
7 Drawing Creation
8 Surface Modelling Overview
9 2D Curves
10 3D Curves
11 Surface Creation
12 Surface Manipulation
13 Converting to A Solid Model
14 Curve and Surface Inspection Tools
15 Surface Modelling Summary
16 Modal Analysis
17 Thermal Analysis
18 Thermal and Structural Loads
19 Boundary Condition Creation and Management
20 Mesh Creation and Control

## DEPARTMENT OF MECHANICAL ENGINEERING

# SOLID EDGE

## RESOURCE PERSON FROM

***Collaboration with training and placement cell***

***REGISTRATION FEE FREE***

SOLID EDGE

**Mr.R. Ranjith Kumar**
Associate Professor,
Department of ME

***21-09-2019 to 28-09-2019***

**Principal**
**Dr.Y. Sudheer Babu**
M.Tech, PhD

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# Department of Mechanical Engineering

## Academic Year: 2019-20

Academic Year: 2019-2020

Name of the event: ***Workshop on SOLID EDGE***

Date of the event: 21st Sep to 28th Sep 2019

Name of the coordinator: R. Ranjith Kumar,
Associate professor, Department of ME

Description:

- The Department of Mechanical Engineering is Conducting Solid Edge training for IV B. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, conducted the Solid Edge workshop on Essential training for NEW users to Solid Edge. Covers all of the basic concepts of Solid Edge from navigating the interface, different environments, profile creation, part modelling, assembly modelling, drawing creation and file management. The course covers both synchronous technology tools and traditional, history-based, parametric design tools
- Eight days of training includes Forenoon and Afternoon Sessions, which includes hands-on experience.
- Explore the Solid Edge interface and cover how to navigate the different environments. Also learn about the requirements of a feature-based modelling system and how to plan the design process.
- Learn how to create and manipulate part models using all the base and profile driven feature types. This includes all extent options and how open profiles in Solid Edge can simplify feature creation. Also cover the use of non-profile-based treatment features such as round, blend, chamfer, draft, as well as how to reuse geometry and features through the use of patterning and mirror commands.

- Learn how to construct 2D drawings from 3D parts, sheet metal parts and assemblies all view types are covered including section, broken section and details views. Then create fully detailed drawings using Solid Edge's comprehensive dimension and annotation tools.
- Learn how to build assemblies using intelligent relationships and mate conditions. Also, learn how to manipulate assemblies as well as control their display through the use of display configurations, exploded views and more.
- This workshop is beneficial to 58 students who are trained during these 8 days of the workshop.

Target Audience: IV B. Tech – ME students.

**Programme Coordinator** **HOD** **Principal**

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With Grade

## Department of Mechanical Engineering

## List of Value Added Courses

**A,Y:2019-2020**

| S.No | Name of The Course | Dates | Year | No. of Students Attended |
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| 1 | Certification Programme On CNC Programming | 02-09-2019 to 09-09-2019 | IV B. Tech II Semester | 39 |
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| 4 | Training Programme On AutoCAD | 11-11-2019 to 16-11-2019 | IV B. Tech II Semester | 75 |

**Signature of Coordinator**

**Signature of HOD**

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NAAC A With Grade

**IOC - Outgoing**

**DEPARTMENT: ME** **DATE: 07-11-2019**

**ACADEMICYEAR: 2019-2020**

| | |
|---|---|
| ORIGINATOR | HOD, ME |
| CIRCULATED TO | Faculty, IVB. Tech Students(ME) and Dept. Notice Board |

It is here to informyou that the Department of ME is Conducting AutoCAD training for IVB. Tech students (ME) in collaboration with the training andplacement cellof MIC College of Technology, Kanchikacherla, from11-11-2019 to 16-11-2019. In this regard, all the faculty and students are hereby informed to utilize this opportunity.

**HOD, ME**

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NAAC A

## TOPICS COVERED

1 Introduction
2 AutoCAD interface
3 Sketch entities & sketch tools
4 Mechanical diagrams
5 Dimensions & Dimensions Styles
6 Equations, Design Table, and Configurations
7 Isometric Views
8 Creating and Editing Text
9 Sketch Visualization and Sketch Analysis.
10 Draw commands
11 Cartesian coordinate system
12 Modify commands
13 Text command layers blocks
14 2D fundamentals
15 Geometry & Dimensional Constraints

# DEPARTMENT OF MECHANICAL ENGINEERING

# AUTO CAD

**RESOURCE RPERSON FROM**

**Department of Training and Placement**

***REGISTRATION FEE FREE***

*11-11-2019 to*
*16-11-2019*

AUTODESK AUTOCAD

**Mr.A.N. Pavan Kumar**
Assistant Professor,
Department of ME

**Principal**
**Dr.Y. Sudheer Babu**
M. Tech, PhD

Devineni Venkata Ramana & Dr.Hima Sekhar
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# Department of Mechanical Engineering

## Academic Year: 2019-20

Academic Year: 2019-2020

Name of the event: ***Workshop on AutoCAD***

Date of the event: 11th Nov to 16th Nov 2019

Name of the coordinator: Mr. A. Naga Pavan Kumar

Description:

- The Department of ME is Conducting AutoCAD training for IV B. Tech students (ME) in collaboration with the training and placement cell of MIC College of Technology, Kanchikacherla, conducted the AutoCAD workshop on drawing sketches with the help of 2D and 3D tools on computer screens. This course helps students who are engaging in the study of architecture, engineering and mechanics, etc.
- Six days of training include Forenoon and Afternoon Sessions, which include hands-on experience.
- Students will learn about the powerful extension of standard AutoCAD design and 2-dimensional designs for manufacturing, engineering, and mechanical design sectors. The course CAD mechanical AutoCAD is helpful for companies that are engaged in digital prototyping workflows.
- AutoCAD interface has applications like the ribbon, the menu browser, steering wheels, info centre, tool palettes, the command prompt, viewports, status bar, slow motion, view cube, quick access toolbar, and action recorder. These commands and the user interface elements are used for drafting and editing tasks in AutoCAD.
- Students will learn about the concept of mechanical drawing, which is also called drafting. Mechanical drawing is a method used for representing a 3D object on a 2D piece of drawing paper. There are two types of mechanical drawings such as pictorial and orthographic.

- This workshop is beneficial to 75 students who are trained during these 6 days of workshop.

Target Audience: IV B. Tech – ME students.

**Coordinator** **Head of the Department** **Principal**