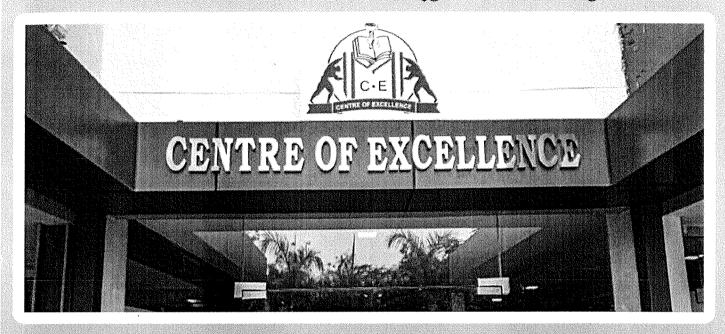
# Design for Additive Manufacturing (Introduction to 3D Modeling)



## MAIN CAMPUS, AUTONOMOUS INSTITUTION

Maisammaguda, Dhulapally (Post) via Kompally, Secunderabad-500100Medchal - Malkajgiri District Telangana, India



## ADITIVE MANUFACTURING

Design for Additive Manufacturing(PDC)& (CREO)

Solid Based Additive Manufacturing(FDM)& (LOM)

Liquid Based Additive Manufacturing (SLA)

Powder Based Additive Manufacturing (SLS)
Rapid Prototyping - I, Rapid Prototyping - II

Course Duration -: 4 Months

**Learn Aditive Manufacutring** 

& Develop Your Designing Skills.



## MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE

B. Tech

**IV Semester** 

**Course Name:** 

**Design for Additive Manufacturing** 

**Duration: 30 Hours** 

### **Course Objective:**

In This training course, Students will learn part modelling techniques in PTC Creo to develop 3D models for 3D Printing.

#### Module-I

Introduction to PTC Creo- Getting Started with Creo Parametric: Sketcher- Drawing a Sketch Using tools available in the Sketch Tab, Creating Fillets, Dimensioning the Sketch, Working with Constraints, Deleting, Trimming Mirroring the Sketched Entities.

#### Module-II

Creating a 3D model by using the Extrude features: Extruding a Sketch, Depth options and Removing Material by Using the Extrude Tool

#### Module-III

Creating a 3D model by using the revolving feature, helical sweep and sweeps with variable sections.

Creating Holes, Rounds, Chamfers, Ribs, Shell..etc

#### Module-IV

Understanding the Orientation of Datum Planes -Default Datum Planes Create patterns, mirror and rendering File conversion- Convert 3D Models into STL, OBJ and AMF Files.

#### Module-V

Introduction to Assembly- Inserting Components in an Assembly and Modifying the Components of an Assembly-Automatic, Default, Coincident, Distance..etc

#### **Course Outcomes:**

After completing this course students will be able to:

- Create, modify and visualize the various 3D models in CADsoftware.
- ➤ Design and assembly of mechanical components using CADsoftware.
- Convert various file formats for 3D Printing.

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## MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 Course:Design for Additive Manufacturing(Introdu ction to 3D Modeling) Date: 01/09/2020 TO 01/02/2021

## Registered Students

SL.No	Roll No	NAME	BRANCH	COURSE COMPLETED
1.	19J41A0126	GYARA SRINIJA	CE	YES
2.	19J41A0127	JANGILI VINAY	CE	YES
3.	19J41A0128	JINKIRI SUJITH	CE	YES
4.	19J41A0129	KAMMARI SAI KIRAN	CE	YES
5.	19J41A0130	KATINENI ANKURA	CE	YES
6.	19J41A0131	KATROTH SRAVANTHI	CE	YES
7.	19J41A0132	KUMMARIPALLY MAHENDER	CE	YES
8.	19J41A0133	KUNDETI NIKHIL RANGA RAO	CE	YES
9.	19J41A1225	GUBBA SAI SHARAN	IT	YES
10.	19J41A1226	GUNDAGANI YASHWANTH	IT	YES
11.	19J41A1227	GUNGI VAISHNAVI	IT	YES
12.	19J41A1228	JUVVISETTY MEGHANA	IT	NO
13.	19J41A1229	K SRIKANTH	IT	YES
14.	19J41A1230	KARNE RAKESH KUMAR	IT	YES
15.	19J41A1231	KARNI DILEEPKUMAR	IT	YES
16.	19J41A1232	KAVALI SAVITCHANDRA	IT	YES
17.	19J41A0226	G.SRIKANTH	EEE	YES
18.	19J41A0227	G.PRUDHVI	EEE	YES
19.	19J41A0227	J.SHARATH KUMAR	EEE	YES
20.	19J41A0229	J.GOVARDHAN	EEE	YES
21.	19J41A0230	K.NARESH	EEE	YES
22.	19J41A0230	K.SWATHI	EEE	YES
23.	19J41A0231	KANNEBOINA AKHIL	EEE	YES
24.	19J41A0232	K.SONIYA	EEE	YES
25.		K.CHANDRA SHEKAR	EEE	YES
26.	19J41A0234	KALLEM AKHILNATH REDDY	ME	<del>                                     </del>
27.	19J41A0325		ME	YES YES
28.	19J41A0326 19J41A0327	KAMBLE ABHISHEK KARE SUMITH	ME	YES
29.		KELOTH PRAVEEN	ME	YES
30.	19J41A0328		ME	· · · · · · · · · · · · · · · · · · ·
31.	19J41A0329	KOPPOLU REVANTH KUMAR		YES
	19J41A0330	KOTLA PRAVEEN KUMAR	ME	YES
32.	19J41A0331	KUMMARI KRISHNA PRASAD	ME	YES
33.	19J41A0325	KALLEM AKHILNATH REDDY	ME	YES
34.	19J41A0428	KARNATI SHIVANI	ECE	YES
35.	19J41A0429	KATAKAM SAI SHANKER	ECE	YES
36.	19J41A0430	KONDAPARTHI SAI BHARATH	ECE	YES
37.	19J41A0431	KUNTA AKSHARA	ECE	YES
38.	19J41A0432	M BHUVANESHWAR	ECE	YES
39.	19J41A0433	M DEEKSHA	ECE	YES
40.	19J41A0435	MANDALOJU SANJAY KUMAR	ECE	YES
41.	19J41A0436	MANDHA NISHANTH NIKHIL	ECE	YES
42.	19J41A0437	MGADDA LOKESH	ECE	YES
43.	19J41A2508	BHUKYA NAVEEN	MINING	YES
44.	19J41A2509	BHUKYA VIVEK	MINING	YES
45.	19J41A2510	BODA SIDDU	MINING	YES
46.	19J41A2511	BONGU SASIDHAR	MINING	YES
47.	19J41A2512	CHILUMULA PRAVEEN	MINING	YES
48.	19J41A2513	CHINTHAPALLI SAIPRASAD	MINING	YES
49.	19J41A2514	CHIPPA VIJAY RAJ	MINING	YES
50.	19J41A2515	CHUNARKAR DEEPAK	MINING	YES
51.	19J41A0531	M GOPICHAND	CSE	YES
52.	19J41A0532	MANUPADU SHILPA	CSE	YES

53.	19J41A0533	MD SAMEERA	CSE	YES
54.	19J41A0534	MOHD ROSHAN HUSSAIN	CSE	YES
55.	19J41A0535	MUKKISA SIDDHARTHA REDDY	CSE	YES
56.	19J41A0536	MUSKU RICHITHA REDDY	CSE	YES
57.	19J41A0537	MUTYAM MADHAVA REDDY	CSE	YES
58.	19J41A0538	NANDALA VAMSHI	CSE	YES
59.	19J41A0539	PALA NITISH KUMAR	CSE	YES
60.	19J41A0540	PANNALA NEHA REDDY	CSE	YES

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(Post Via Kempally).



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# CERTIFICATE

This is to Certify that

## **DEVANSHI POKALKAR**

has Sucessfully Completed Design For Aditive Manufacturing Course offered by Centre of Excellence, MREC(A) on \_\_\_\_01/02/2021 bearing with Roll No.\_\_19J41A1218 \_\_and Branch\_\_\_IT .

N. RISHIKANTH DEAN (COE) Dr.A.Ravendi

Dr.A.Ravendra Principal Malia Ready Engineering College

(Autonomous)

Matsammaguda, Dhulapally,
Matsammaguda, Sec'bad-300 100



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# CERTIFICATE

This is to Certify that

## **GAJREE PAVAN**

has Sucessfully Completed	d Design Fo	or Aditive Man	ufacturing	Course
offered by Centre of Exa	cellence, M	REC(A) on	01/02/2021	
bearing with Roll No	19J41A0119	_and Branch_	CE	•

N. RISHIKANTI **DEAN (COE)** 

Dr.A.Ravendra **Principal** 

Malla Reddy Engineering College

Maisammaguda Dhulapally, Post Via Kompally), Sec'bad-500 100



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# CERTIFICATE

This is to Certify that

## **GANDI PRANEETH**

has Sucessfully Completed	d Design Fo	or Aditive Man	ufacturing	Course
offered by Centre of Exc	cellence, M	REC(A) on	01/02/2021	
bearing with Roll No	19J41A0320	_and Branch_	ME	•

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N. RISHIKANTH DEAN (COE) Record

Dr.A.Ravendra Principal PRINCIPAL
PRINCIPAL
Reddy Engineering College
(Autonomous)

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# CERTIFICATE

This is to Certify that

GUDE NARENDER

N. RISHIKANTH DEAN (COE) Dr. A. Pavene

Dr.A.Ravendra Principal PRINCIPAL College Engineering College (Autonomous)
(Auton



MAIN CAMPUS AUTONOMOUS INSTITUTION









# CERTIFICATE

This is to Certify that

## **BAVU REVANTH YADAV**

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N. RISHIKANTH DEAN (COE) Remed

Dr.A.Ravendra Principal Malla Reddy Engineering College
Malla Reddy Engineering Colleg