



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda(H), Gundlapochampally Village, Medchal
Mandal, Medchal-Malkajgiri District, Telangana State – 500100

CIRCULAR

Date: 27/11/2019

All the 2nd/II Sem Year students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Industrial Robotics, Multimedia - 2D & 3D Basic Concepts, Green Matte Studio - Video Effects/Transitions, Different Technologies of Additive Manufacturing, Python with DJANGO, Foundations of Blockchain, Labview in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 02/12/2019. For further details, please contact Centre of Excellence, MREC(A)

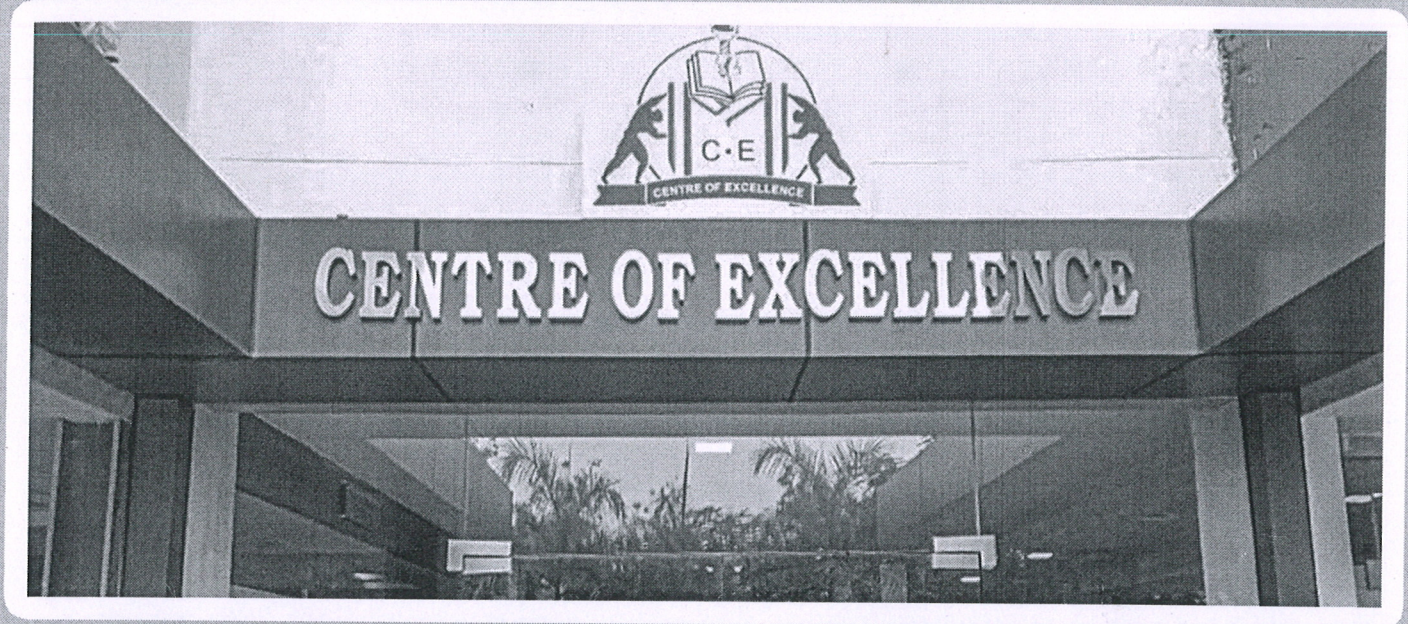

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

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MALLA REDDY ENGINEERING COLLEGE
MAIN CAMPUS, AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100 Medchal - 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 Manufacturging
& Develop Your Designing Skills.**

Ravi
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Kompally), Sec'bad-500100

	MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE	B. Tech IV Semester		
		CODE:	Different Technologies of Additive Manufacturing	L


Prototyping fundamentals: Need for time compression in product development, Need for Additive Manufacturing, Classification of AM process, Fundamental Automated Processes- Distinction between AM and CNC

Fused Deposition Modeling (FDM): Models and specifications, Process, working principle, Applications, Advantages and Disadvantages.

Laminated Object Manufacturing (LOM): Models and specifications, Process, working principle, Applications, Advantages and Disadvantages

Stereo-lithography Apparatus (SLA): Models and specifications, Process, working principle, Applications, Advantages and Disadvantages

Selective laser sintering (SLS): Models and specifications, Process, working principle, Applications, Advantages and Disadvantages.


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Village,
Medchal Mandal, Medchal-Malkajgiri District,
Telangana State - 500100

Course:Technologies
of Additive
Manufacturing

Date:02/12/2019 to
28/03/2020

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	18J41A0196	ANAGANDULA RAGHU	CE
2.	18J41A0103	SUREPALLI PRATHIMA	CE
3.	18J41A0110	B.Vivek vardhan	CE
4.	18J41A0116	C.Bhavya sindhu	CE
5.	18J41A0122	Gandham Sai sreenu	CE
6.	18J41A1203	APPIREDDY SAI RAM REDDY	IT
7.	18J41A1208	CHAMAKURA ACHYUTH REDDY	IT
8.	18J41A1212	DHEEMA PRASAD	IT
9.	18J41A1220	GANDE UJWAL KUMAR	IT
10.	18J41A0201	A.shruthi laya	EEE
11.	18J41A0208	B.Berushalam	EEE
12.	18J41A0214	Eslavath Sowmya	EEE
13.	18J41A0219	G Dwarakamayee	EEE
14.	18J41A0223	Hasthi sandesh kumar varma	EEE
15.	18J41A0231	Koppula lohith	EEE
16.	18J41A0308	CHALLA YESHWANTH	ME
17.	18J41A0318	GORLA ADARSH YADAV	ME
18.	18J41A0404	B.Pavan Kumar	ECE
19.	18J41A0408	B.Keerthana	ECE
20.	18J41A0412	Dasari Sainath Reddy	ECE
21.	18J41A0419	K. Harshavardhan Reddy	ECE
22.	18J41A0426	k.santosh	ECE
23.	18J45A2511	KANNAMALA VAMSI KRISHNA	MINING
24.	18J45A2521	RADHANDI SUDHEER BABU	MINING
25.	18J41A2506	BHUKYA SURESH	MINING
26.	18J41A05G2	MUTHOJU VASANTH	CSE
27.	18J41A0502	ARE CHAKRI	CSE
28.	18J41A0507	BIDAR PRANEEL	CSE
29.	18J41A0513	DATHRIKA KARTHIK	CSE
30.	18J41A0524	KALPURE NEEMA	CSE

Raveedh
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

Different Technologies of Additive Manufacturing

Additive manufacturing (AM) is a group of manufacturing techniques that rely on the addition of material to form a new component or addition of some material to an existing component. It is a rapidly developing field of processing. Attention-grabbing innovations appear regularly in the media and there is a great deal of excitement about the possibilities that additive manufacturing opens up for new ways of making products.

The objective of the Course is to introduce students the basics of additive manufacturing/rapid prototyping and its applications in various fields, reverse engineering techniques, familiarize students with different processes in rapid prototyping systems and teach students about mechanical properties and geometric issues relating to specific rapid prototyping applications.

- Understand the fundamentals for additive manufacturing and how it is different and discuss about various types of liquid based, solid based and powder-based AM technologies.
- Describe additive manufacturing and explain its advantages and disadvantages
- Understand the various types of Pre-processing, processing, post-processing errors in AM. Also to know the various types of data formats and software's used in AM.
- Know the various applications of AM in design analysis, aerospace, automotive, biomedical and other fields.
- Demonstrate the knowledge of Additive Manufacturing and Rapid Prototyping technologies.
- Describe different RP techniques.
- Discuss fundamentals of Reverse Engineering.
- understand the role of additive manufacturing in the design process and the implications for design



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Certificate
Of the Course Completion

This is to Certify that

Dasari Sainath Reddy

*has Successfully Completed Different Technologies of Additive
Manufacturing Course Offered by Centre of Excellence, MRECA(A) on
28/03/2020 bearing with Roll No. 18J41A0412 and
Branch ECE.*

Dr.N.Rishikanth
COE Dean

Dr.S.Sudhakara Reddy
Conference Chair &Principal

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100



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Certificate Of the Course Completion

This is to Certify that

GORLA ADARSH YADAV

*has Successfully Completed Different Technologies of Additive
Manufacturing Course Offered by Centre of Excellence, MREC(A) on
28/03/2020 bearing with Roll No. 18J41A0318 and
Branch ME.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Maisammaguda, Dhutapally,
(Post Via Kompally), Sec'bad-500100

Dr.S.Sudhakar Reddy
Conference Chair &Principal



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Certificate Of the Course Completion

This is to Certify that

ANAGANDULA RAGHU

*has Successfully Completed Different Technologies of Additive
Manufacturing Course Offered by Centre of Excellence, MREC(A) on
28/03/2020 bearing with Roll No. 18J41A0196 and
Branch CE.*

Dr.N.Rishikanth
COE Dean

Dr.S.Sudhakara Reddy
Conference Chair &Principal

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally
(Post Via Kompally), Sec Bad-500100



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Certificate Of the Course Completion

This is to Certify that

B.Berushalam

*has Successfully Completed Different Technologies of Additive
Manufacturing Course Offered by Centre of Excellence, MREC(A) on
28/03/2020 bearing with Roll No. 18J41A0208 and
Branch EEE.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

Dr.S.Sudhakar Reddy
Conference Chair &Principal



MALLA REDDY ENGINEERING COLLEGE

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Certificate

Of the Course Completion

This is to Certify that

CHAMAKURA ACHYUTH REDDY

*has Successfully Completed Different Technologies of Additive
Manufacturing Course Offered by Centre of Excellence, MRECA(A) on
28/03/2020 bearing with Roll No. 18J41A1208 and
Branch IT.*

Dr.N.Rishikanth
COE Dean

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally
(Post Via Kompally), Sec'bad-500100

Dr.S.Sudhakar Reddy
Conference Chair &Principal