MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 13/12/2018

All the 2nd /II Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Autonomous Robotics -II, 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 17/12/2018. For further details, please contact Centre of Excellence, MREC(A)

Principal

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

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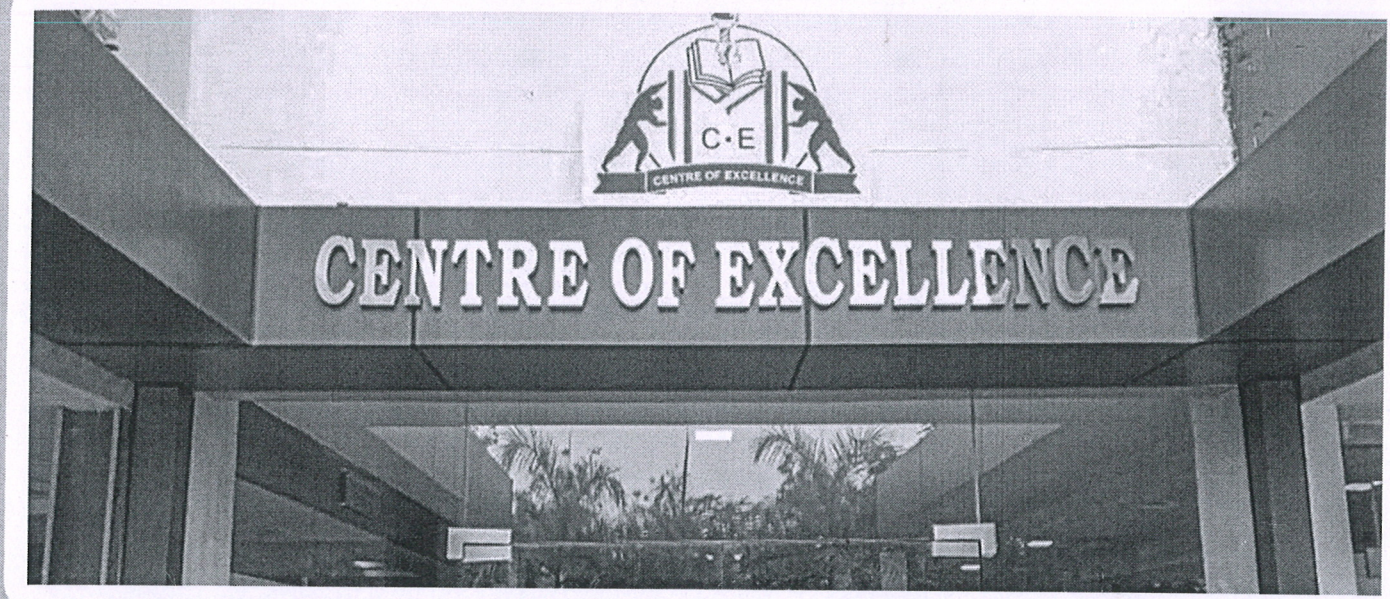
MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION

Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-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.

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

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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	MALLA REDDY ENGINEERING COLLEGE (Autonomous) Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100	Course:Different Technologies of Additive Manufacturing Date:17/12/2018 to 13/04/2019

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	17J41A0106	AREKANTI PRABHU DAS	CE
2.	17J41A0110	BODAKUNTA SRINIVAS	CE
3.	17J41A0122	GOPATHI AJAYKUMAR	CE
4.	17J41A0129	KANDUKURI DURGA SAI	CE
5.	17J41A1204	B SRUTHI	IT
6.	17J41A1210	CHEEKOTI VINAYRAJ	IT
7.	17J41A1215	GAJULA AKHILA	IT
8.	17J41A1220	K MOHANA DEEPTHI	IT
9.	17J41A1224	KUCHARIKANTI MANIKANTI MANIKANTA REDDY	IT
10.	17J41A0212	BONTALA VISHNU KUMAR	EEE
11.	17J41A0223	KAMMARI RAGHAVI	EEE
12.	17J41A0228	KODAKANDLA GAYATHRI	EEE
13.	17J41A0234	MECHINENI SINDHUJA	EEE
14.	17J41A0304	BADAVATH NAGENDRABABU	ME
15.	17J41A0309	CHUKKALA HARISH	ME
16.	17J41A0313	DANGETI SATYA SAI SRIKAR	ME
17.	17J41A0318	GARIMALLA PHANIVARMA	ME
18.	17J41A0324	KAMARTHI RAJESH	ME
19.	17J41A0403	BANKULLA NEHA REDDY	ECE
20.	17J41A0407	BINGI ESHWAR PRASAD	ECE
21.	17J41A0413	GANDHARI RITHIK REDDY	ECE
22.	17J41A0424	KALIDINDI SRINIVAS VIKAS	ECE
23.	17J41A0431	KONDURI ADIGOPI	ECE
24.	17J41A2503	BODAKUNTLA VIDYADHAR	MINING
25.	17J41A2515	KALAYANA SUBHASH KUMAR REDDY	MINING
26.	17J41A0502	AMBATI SONY	CSE
27.	17J41A0507	CHALAVADI SUMANTH	CSE
28.	17J41A0516	GUNDATI PRANAVI	CSE
29.	17J41A0523	KINNERA NAGA SAI CHARAN	CSE

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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

GOPATHI AJAYKUMAR

has Sucessfully Completed Different Technologies of Additive Manufacturing Course Offered by Centre of Excellence, MREC(A) on 13/04/2019 bearing with Roll No. 17J41A0122 and Branch CE.

Dr.Yogesh Madaria
CONVENOR

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

Dr.S.Sudhakara Reddy
Conference Chair &Principal

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This is to Certify that

KALAYANA SUBHASH KUMAR REDDY

has Sucessfully Completed Different Technologies of Additive Manufacturing Course Offered by Centre of Excellence, MREC(A) on 13/04/2019 bearing with Roll No. 17J41A2515 and Branch MINING .

Dr.Yogesh Madaria
CONVENOR

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

Dr.S.Sudhakara Reddy
Conference Chair &Principal

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This is to Certify that

KODAKANDLA GAYATHRI

has Sucessfully Completed Different Technologies of Additive Manufacturing Course Offered by Centre of Excellence, MREC(A) on 13/04/2019 bearing with Roll No. 17J41A0228 and Branch EEE.

Dr.Yogesh Madaria
CONVENOR

Principal
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Dr.S.Sudhakara Reddy
Conference Chair &Principal

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This is to Certify that

CHALAVADI SUMANTH

has Sucessfully Completed Different Technologies of Additive Manufacturing Course Offered by Centre of Excellence, MREC(A) on 13/04/2019 bearing with Roll No. 17J41A0507 and Branch CSE.

Dr.Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
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Dr.S.Sudhakara Reddy
Conference Chair &Principal

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Certificate

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This is to Certify that

GAJULA AKHILA

has Sucessfully Completed Different Technologies of Additive Manufacturing Course Offered by Centre of Excellence, MREC(A) on 13/04/2019 bearing with Roll No. 17J41A1215 and Branch IT.

Dr.Yogesh Madaria
CONVENOR

Principal
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Conference Chair &Principal