



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

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

CIRCULAR

Date: 07/11/2017

All the 3rd/II Year/Sem students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like Remote Controlled Robotics -II, Multimedia - 2D & 3D Basic Animations, Green Matte Studio - Audio Effects/Transitions, Anatomy of a 3D Printer, Live demo of 3D Printing, Advanced PYTHON in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 12/11/2017. For further details, please contact Centre of Excellence, MREC(A)

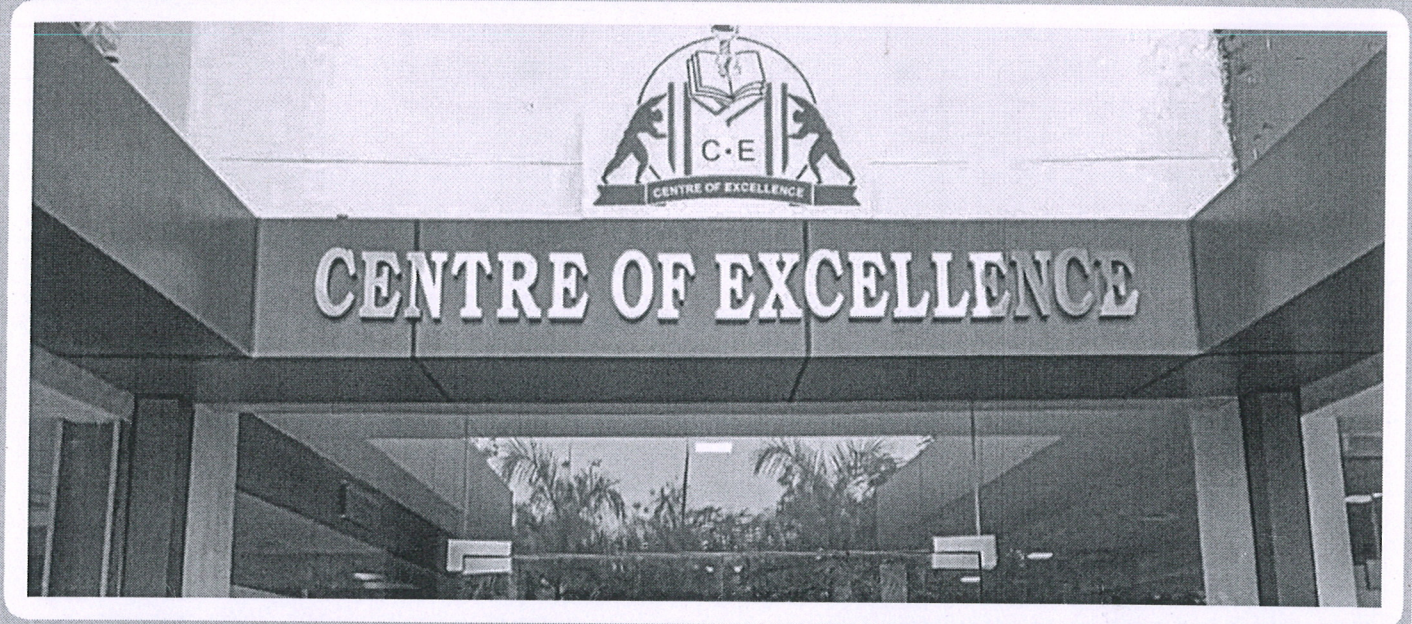
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Principal
Principal
Malla Reddy Engineering College
Malsammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100



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 Manufacutring
& Develop Your Designing Skills.**

Ravish
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Kompally), Secbad-500100

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|---|--|--|---|----------|
|  | MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE | B. Tech VI Semester | | |
| | | CODE: | Anatomy and Hands-on experience of a 3D printing | L |
| | | | | |

Introduction to 3D Printer: Working Principle and Step by Step approach of 3D Printing

Anatomy of a Fused Deposition Modeling (FDM) 3D Printer and FDM Process

Live demo of 3D Printing - FDM/FFF: 3D Printer operating and troubleshooting

Hands-on 3D printing-Printing of various models with the 3D Printer

3D Printing Project execution - From Idea to Finished part

Final Presentations and Demonstrations by the students

Raveend
Principal

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



MALLA REDDY ENGINEERING
COLLEGE (Autonomous)
Maisammaguda(H), Gundlapochampally
Village,
Medchal Mandal, Medchal-Malkajiri
District,
Telangana State - 500100

Course:Anatomy of a 3D
Printer, Live demo of 3D
Printing - FDM/FFF
Date:12/11/2017 to
07/04/2018

Registered Students

| SL.No | Roll No | NAME | BRANCH |
|-------|------------|-----------------------------|--------|
| 1 | 15J41A01D1 | GANGONI CHANDRAKANTH | CE |
| 2 | 15J41A01E2 | KASULA MEGHANA REDDY | CE |
| 3 | 15J41A01E9 | M NANDITHA | CE |
| 4 | 15J41A01F3 | MD YAHYA ALAM | CE |
| 5 | 15J41A01F6 | MOKKA SOWJANYA | CE |
| 6 | 15J41A0227 | KAGITHAPU RAVI CHANDRA | EEE |
| 7 | 15J41A0237 | MOHAMMED ASIF | EEE |
| 8 | 15J41A0242 | PEDDAPALLI VAMSHI | EEE |
| 9 | 15J41A0246 | R HEMANTH KUMAR | EEE |
| 10 | 15J41A0249 | REPAKA SAIDINESH | EEE |
| 11 | 15J41A03D3 | BINGI MANOHAR | ME |
| 12 | 15J41A03D9 | DASARI NAVEEN KUMAR | ME |
| 13 | 15J41A03E4 | GOWRAVAJHALA SAI PRAFFUL | ME |
| 14 | 15J41A03E9 | KANCHARLA AKHIL | ME |
| 15 | 15J41A03F2 | MANDAVA DINESH | ME |
| 16 | 15J41A04D2 | CHINTHAKURI HARIKA | ECE |
| 17 | 15J41A04D8 | GAJJALA SAI TEJA | ECE |
| 18 | 15J41A04E4 | HAPAVATH RAHUL NAIK | ECE |
| 19 | 15J41A04E8 | KORRA NARESH | ECE |
| 20 | 15J41A04F1 | KUPPALA VARSHA SAI | ECE |
| 21 | 15J41A2535 | NARRA PRADEEP REDDY | MINING |
| 22 | 15J41A2541 | PILLALA SUMANTH | MINING |
| 23 | 15J41A2546 | SANDRALA NAGENDAR | MINING |
| 24 | 15J41A2552 | SYED TAHMEED SUBHANI KAMRAN | MINING |
| 25 | 15J41A2556 | YELIGETI SHRAVANKUMAR | MINING |
| 26 | 15J41A05D2 | BOLLU SAIPRASAD | CSE |
| 27 | 15J41A05D8 | DEGALA DILIP | CSE |
| 28 | 15J41A05E3 | ILLURI AISHWARYA | CSE |
| 29 | 15J41A05E8 | KOLLA POOJA | CSE |
| 30 | 15J41A05F1 | MACHKURI SURYAKANTH | CSE |

Raveed

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

Anatomy and Hands-on experience of a 3D printing

This course will help you understand how 3D printing is being applied across a number of domains, including design, manufacturing, and retailing. It will also demonstrate the special capabilities of 3D printing such as customization, self-assembly, and the ability to print complex objects. In addition to business applications, this course will also examine how individuals, including those in developing countries, are using this technology to create solutions to the problems they face. This course will also provide an overview of design thinking and how you can use this framework to develop ideas that can be turned into objects. Students who complete this course will obtain a rich understanding of the capabilities of 3D printing and how to think about designing objects for this new technology. The course imparts training in core additive manufacturing technologies Fused deposition modeling (FDM) which is commonly used for modeling, prototyping, and production applications.

3D printing is a technique of creating 3D objects from a digital 3D or CAD model. In this process, the material is solidified or joined under the control of the computer to create a three-dimensional object. There are a wide range of software applications that helps you to create and print 3D structures. These tools support varieties of file formats like .obj, .stl, .x3d, and. vrmf, and more.

Learning outcomes

Having completed this course, students should be able to:

- Will know how to make a virtual design of objects using a CAD software's 3D modeling program and copying an existing object using a 3D scanner.
- Students will know the modeling process of preparing geometric data for 3D printer and the 3D scanning process of analyzing and collecting digital data on the shape and appearance of objects.
- Students will know the process of how FDM works
- Students will get introduced to manual controls of 3DP
- Students will get 3D printed models that they design.

Ravindra
Principal



MALLA REDDY ENGINEERING COLLEGE

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Certificate

Of the Course Completion

This is to Certify that

KASULA MEGHANA REDDY

has Successfully Completed Anatomy of a 3D Printer, Live demo of 3D Printing -
FDM/FFF Offered by Centre of Excellence, MREC(A) on 07/04/2018
bearing with Roll No. 15J41A01E2 and Branch CE.

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
m:maguda. Chulapati

Dr. S. Sudhakara Reddy
Conference Chair & Principal



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate

Of the Course Completion

This is to Certify that

KOLLA POOJA

has Successfully Completed Anatomy of a 3D Printer, Live demo of 3D Printing -
FDM/FFF Offered by Centre of Excellence, MREC(A) on 07/04/2018
bearing with Roll No. 15J41A05E8 and Branch CSE.

Dr. Yogesh Madaria
CONVENOR

Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally.

Dr. S. Sudhakar Reddy
Conference Chair & Principal

(Post-Via Kompany), Sec'bad-506100



MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION



Certificate Of the Course Completion

This is to Certify that

M NANDITHA

has Successfully Completed Anatomy of a 3D Printer, Live demo of 3D Printing -
FDM/FFF Offered by Centre of Excellence, MREC(A) on 07/04/2018
bearing with Roll No. 15J41A01E9 and Branch CE.

Yogesh

Dr. Yogesh Madaria
CONVENOR

Kamath

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

Dr. S. Sudhakara Reddy

Dr. S. Sudhakara Reddy
Conference Chair & Principal