



RAMACHANDRA
COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to JNTUK: Kakinada)
NH-5 Bypass Road, Vatluru (V), ELURU – 534 007, A. P.

DEPARTMENT OF MECHANICAL ENGINEERING
A Report on “A Three Day National Workshop on 3D Printing”

20th to 22nd July 2017

Ramachandra college of Engineering, the Department of Mechanical Engineering organized an “A Three Day National Workshop on 3D Printing” on 20th to 22nd July 2017 for IV B.tech I SEM Mechanical Engineering Students.

INAUGURATION:



Gathering of dignitaries onto the dais and prayer by song by Mechanical Engineering Students

The national workshop inaugurated by inviting the dignitaries on to the dais, firstly, **Dr.Bh.V.Prasad, Head of the Mechanical Engineering Department & convener of the workshop**, followed by **Dr. Dola Sanjay S, Principal, Ramachandra college of Engineering**, followed by **Dr.M.Abid Ali, Professor, Department of Mechanical Engineering, Ramachandra college of Engineering**, followed by **Kishor Namburu, Resource Person, Founder/CEO, MKS Technologies Pvt Ltd.**

The principal Dr.S.Dola Sanjay delivered speech on “The importance of **3D printing** to the Engineers”. He congratulated the Mechanical Engineering department for organizing this workshop and welcomed the participants. The opening remark was made by Dr.Bh.V.Prasad, convener of the workshop. The speech delivered by Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd followed by Dr.M.Abid Ali, Professor, Department of Mechanical Engineering, Ramachandra college of Engineering, told Applications of 3D Printing.



Dr.Bh.Vara Prasad Head of the Mechanical Engineering Department & convener of the workshop Addressing the participants

Participants are offered with a break for tea and snacks.

DAY -1

SESSION1:

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the session with the Introduction on 3D Printing. He explained the basic principle involved in 3D Printing.

Participants are offered with a lunch break.

SESSION 2:

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the 2nd session with Evolution of 3D Printing, What is additive manufacturing.

Participants are offered with a break for tea and snacks.

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, continued the session with General procedure of 3D Printing, 3D CAD file formats.



Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, Addressing the participants



Students Participated in 3D Printing Workshop

The day 1 concluded

DAY -2

SESSION 1

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the session with Stereo lithography (.stl) files, Introduction of New 3D Design tools (Sketch up),

Participants are offered with a break for tea and snacks.

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, continued the session with Introduction of repetier host, FDM in detail.



Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, giving brief explanation on 3D Printing

Participants are offered with a lunch break.

SESSION 2:

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the session with Live demo of Printing, STL principles, Print Bed Calibration, Object placement,

Participants are offered with a break for tea and snacks.

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, continued the session Object analysis, Infill Parameters, Slic3R & G-code Generation, Print settings.

The day concluded

DAY 3

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the session with hands on practice of Hands on Practical experience with 3D printer with various models.

SESSION 1

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, started the session with hands on practice of Hands on Practical experience with 3D printer Gear models.



3D Printing Machine

Participants are offered with a break for tea and snacks.

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, continued the session with hands on practice of Hands on Practical experience with 3D printer Hexagonal Headed Bolt models.

Participants are offered with a lunch break.

SESSION 2

Kishor Namburu Resource Person, Founder/CEO, MKS Technologies Pvt Ltd, continued the session with hands on practice of Hands on Practical experience with 3D printer another models.

Participants are offered with a break for tea and snacks.

The valedictory function started with Welcoming the Resource Person Kishor Namburu, Founder/CEO, MKS Technologies Pvt Ltd.



Address by secretary and correspondent

Sri. K. Venugopal , Secretary & Correspondent and the Chief patron, **Dr.S.Dolo Sanjay**, Principal and **Dr.Bh.V.Prasad**, Head of the Mechanical Department congratulated the organizing committee and the participants for making the workshop a grand success one.



Certificate distribution to the participants by Principal



Certificate distribution to the participants by secretary and correspondent

Chief Patron

Sri. G.S. Ramachandra Rao, Chairman

Sri. K. Venugopal, Secretary and Correspondent

Patron

Dr. Dola Sanjay S, Principal

Convener

Prof. Bh. V. Prasad, HoD/ME

Coordinator(s)

Mr.V.Sai Surendra, Assistant Professor

Mr. B. Sudhakara Rao, Assoicate Professor

Mr. M. VimalTeja, Assoicate Professor

**Coordinator
(V.Sai Surendra)**

**Convener
(Dr.Bh.Vara Prasad)**


PRINCIPAL
(Dr.Dola Sanjay)