

One week FDP on “Rapid Prototyping”

(10-06-2019 to 15-062019)

1. Name:
2. Designation:
3. Organization:
4. Address:
5. Mobile No:
6. E-mail ID:
7. Teaching Experience:
8. Accommodation required: Yes/No
9. DD Particulars: Rs. _____, Dt. _____

Declaration

The above information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration.

Place:

Date:

Applicant Signature

Signature & Seal of
Head of the Institution

Chief Patron

Sri A. Vinay Kumar Reddy, Chairman

Patron(s)

Sri Ch. Ravindranath, Secretary

Sri N.Sharath Reddy, CEO

Sri A. Hriday Reddy, Vice Chairman

Advisor

Dr. Suresh Akella, Principal

Program Coordinator

Mr. Praveen B Ronad, Asst. Professor,

Mech. Engg.

HOD

Dr.Umamaheshwer Rao, Asst. Professor

Coordinator(s)

Mr. B. Sandeep, Mr. B.Sanjanna. Assistant
Professor, Mech.Engg.

Organizing Member(s)

Mr. K.Sainath	Mr.Y.Krishna
Mr. K L N Murthy	Mrs.RamyaDeepika
Mr.T.Ravi	Mr. B Sandeep
Mr. Praveen B. Ronad	Mr. K Raja Sekhar
Mr.K. Nageswararao	Mr.B. Sanjanna
Mr.J.SandeepKumar	Mr.PPraveenKumar

Address for Correspondence

Dr.Umaheshwer Rao
Department of Mechanical Engineering
Sreyas Institute of engineering and Technology,
Nagole – 500068, Telangana.
Mobile: 8886287868
E-mail: me.hod@sreyas.ac.in



Sreyas Institute of Engineering & Technology
(Approved by AICTE, New Delhi, Affiliation to JNTUH, Accredited
by NAAC, Hyderabad. 500068)

One week FDP on “Rapid Prototyping”

(10-06-2019 to 15-062019)



Organized

By

Department of Mechanical Engineering

**SREYAS INSTITUTE OF ENGINEERING
AND TECHNOLOGY**

Nagole, Hyderabad – 500068.

Website: www.sreyas.ac.in

About the Institute

Sreyas Institute of Engineering & Technology (SIET) is established in the year 2011 by Sreyas Educational Society. It is located in the heart of Hyderabad city about 5 km from Nagole metro station. SIET has been in the forefront imparting high quality technical education. State of the art infrastructure in all branches of engineering, dedicated and qualified staff, highly conducive environment for teaching learning process are the hallmarks of this professionally managed institution. The institute is an affiliated to JNTUH. The Institute offers Civil Engineering, Mechanical Engineering, Electronics and Communication Engineering and Computer Science Engineering courses.

About the Mechanical Engineering Department

The department of Mechanical Engineering was established in the year 2011 and offers UG & PG programs in Mechanical Engineering. The Department has qualified, dedicated, experienced and trained faculty with a deep sense of commitment towards the students and Institution. Teaching faculty with proficiency in various subjects motivates students to participate in research activities and skill development programs. The Department has state of the art laboratories, R&D lab and labs with well-equipped hardware and software facility.

Overview

Additive Manufacturing (AM), formerly known as Rapid Prototyping (RP), is a technology development, defined as “a process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to

subtractive manufacturing methodologies”. Also commonly known as 3D Printing. As the technology is widely developed, additive manufacturing is composed to move on to the direct production of components and parts. This course will provide a clear and comprehensive coverage of this exciting new technology.

Workshop Objectives

To give insight on recent technologies and advancements in Rapid Prototyping. Rapid Prototyping is ideal for addressing dynamic technological trends and industrial demands. 3D printing finds application in Industry and Biomedical sectors. The course is designed to introduce basic and advance topics of the cutting-edge technology and address the issues related to it. To motivate faculty members to gather students to do research and projects in the field of 3D Printing/ Rapid Prototyping

Resource Person

Dr. Suresh Akella,
Principal,

Sreyas Institute of Engineering and Technology
Hyderabad.

Dr. D.V.Ravi Shankar
Principal,
TKRCET, Hyderabad.

Md.Mateen, Associate Professor,
TKRCET, Hyderabad.

Mr.AC Sekhar Reddy
Assoc. Prof., MED, S.I.E.T

Mr.G. Konda Reddy,
Associate Professor,
MED, S.N.I.S.T

Program Schedule

Inauguration Ceremony:

By

Address by Sri A. Vinay Kumar Reddy,
Chairman, SIET.

Sri Chintala Ravindranath, Secretary, SIET.

Sri N. Sharath Reddy, CEO, SIET.

Sri A. Hriday Reddy, Vice Chairman, SIET.

Dr. Suresh Akella, Principal, SIET.

Contents

Day 1: Introduction to Rapid Prototyping and modern advancements in it.

Day 2: How UDE 3D printing Machine and materials used in 3D Printing,

Day 3: Designing for Additive Manufacturing.

Day 4 Applications of AM.Future Trends and Directions in Additive Manufacturing, Business Opportunities

Day 5: Standards and standardization in 3D Printing and the Future of Manufacturing

Registration fee: No fee



INSTITUTE OF ENGINEERING AND TECHNOLOGY

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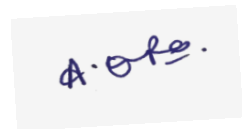
DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

01-06-2019

This to inform to all the faculty members that there will be a meeting in the HoDs cabin at 3:30pm.

Agenda of the meeting: Conduction of FDP Programme in Mechanical Engineering Department.



HoD

Minutes of meeting: point's to be discussed

1. Topic of FDP to be conducted.
2. Tentative dates for conduction of FDP during the working days.
3. Number of days FDP to be conducted.
4. Identification of list of speakers for FDP from reputed institutions.
5. Cost estimation for conducting the FDP.
6. List of coordinators for smooth conduction of FDP.

HoD of the department Mr. ACS Reddy welcomed the faculty members of the department with warm wishes. Meeting started at 3:35pm, HoD has put forward the agenda and points to be discussed in front of all the faculty members and requested them to give their valuable suggestions.

1. K.Sainath, senior faculty member of the department raised the question of which domain the FDP to be conducted as there are different domains within the department (Production, thermal and design etc.).
2. K.Ramya Deepika, one of the senior faculty member of the department asked for on which dates the FDP is going to be conducted.
3. Praveen B Ronad, faculty member of the department requested HoD to conduct the FDP on the present trending topic “**Advanced Manufacturing**” as such it will be useful to all the faculty members and also this knowledge can be shared with the students in further.
4. B.Sandeep , K.Raja sekahar, faculty members of the department identified the dates during which FDP can be conducted successfully.
5. Praveen B Ronad, faculty member of the department has been appointed as coordinator of the FDP going to be conducted.
6. K.Nageshwar Rao, B.Sanjanna faculty members of the department has been appointed as hospitality Incharge for the smooth conduction of FDP.
7. HoD also identified the organizing members along with the Coordinators, and also requested all the staff for their support for smooth conduction of FDP and make it successful.
8. Head of the Department read all the valuable inputs received from all the faculty members once again among themselves and requested their full support towards FDP.

Meeting ended at 4:30pm with the vote of thanks and next meeting date on advancement made on conducting FDP (**04-06-2019**) by HoD



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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

04-06-2019

This to inform to all the faculty members that there will be a meeting in the HoDs cabin at 3:30pm.

Agenda of the meeting: Improvements made on Conduction of FDP Programme in Mechanical Engineering Department.

A. Ofe.

HoD

Minutes of meeting: point's to be discussed.

1. Finalized dates for conduction of FDP during the working days.
2. Finalized list of speakers for FDP from reputed institutions.
3. Cost estimation for conducting the FDP.
4. Requirements for conducting the FDP.

HoD of the department Mr. ACS Reddy welcomed the faculty members of the department with his warm wishes. Meeting started at 3:30pm sharp, HoD has put forward the agenda and points to be discussed in front of all the faculty members.

1. The following are the list of Finalized Dates for One week FDP
10-06-2019 to 15-06-2019 (Six days)
2. The following are the list of Finalized list of speakers for all the Five days FDP
 - (a) Dr.Suresh Akella (Principal, S.I.E.T)
 - (b) Dr. Ravi Shankar (Principal, TKRCET)
 - (c) Mr. Konda Reddy (Professor, S.N.I.S.T)
 - (d) Dr.Uma Maheshwara Rao(Asst.Professor, S.I.E.T)
 - (e) Mr. Y.Krishna (Asst.Professor, S.I.E.T)
 - (f) Mr. Md. Mateen (Assoc.Professor, TKRCET)
3. Cost estimation may reach around 30000/-
4. Requirements for conducting the FDP
 - (a) Flexi Banners.
 - (b) Stationary (FDP kit).
 - (b) Certificates.

Head of the Department read all the valuable inputs and requirements received from all the faculty members among themselves and requested their full support towards FDP.

Meeting ended at 4:30pm with the vote of thanks.

DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 03-06-2019

CIRCULAR

This is to inform all Staff that, Department of Mechanical Engineering is organizing a one week FDP on “**Rapid Prototyping**” during **10-06-2019-15-06-2019**

So, All Mechanical staff requested to attend the Workshop and get benefited.



A. O. P.

HOD, ME

Copy to:

1. All Staff
2. AO

Department of Mechanical Engineering

01-06-2019.

To,
The Principal
SIET,
Nagole, Hyderabad.

Sub: Request for permission to conduct One Week FDP on “**Rapid Prototyping**” during 10-06-2019 to 15-06-2019.

Sir,

The department of Mechanical Engineering would like to conduct One Week FDP on “**Rapid Prototyping**” during 10-06-2019 to 15-06-2019 for external and internal faculties. In this regard, I request you to give your approval for the same. The estimated budget is as given below

Budget Proposal

Honorarium (External Resource Persons = 5*2000)	Rs. 10000 /-
Travel Expenses	Rs. 1000 /-
Flexi Banners	Rs. 500 /-
Stationary –FDP Kit (pen, pad, files)	Rs. 1000/-
Certificates	Rs. 500/-
Refreshments (5days)	Rs. 1500/-
Miscellaneous	Rs. 500/-
Total	Rs. 15000/-

Hence I request you to grant the amount of Rs. **15000/-** for the smooth conduction of the FDP.

Thanking you,

Yours Sincerely,



(Dr.Umamaheshwer Rao)
HOD- Mechanical Engg.

Faculty registered for the **one week FDP on “Rapid Prototyping” during 10-06-2019-15-06-2019**

S.No	Name of participants	College Name
1	MR Y KRISHNA	S.I.E.T, Hyderabad
2	MR. A C SEKHAR REDDY	S.I.E.T, Hyderabad
3	MR D V PALESHWAR	S.I.E.T, Hyderabad
4	DR A C UMAMAHESHWER RAO	S.I.E.T, Hyderabad
5	MR K L N MURTHY	S.I.E.T, Hyderabad
6	MR. B SANDEEP	S.I.E.T, Hyderabad
7	Mr.Y.Kiran Kumar	S.I.E.T, Hyderabad
8	MR PRAVEEN B RONAD	S.I.E.T, Hyderabad
9	MR B SANJANNA	S.I.E.T, Hyderabad
10	MR. M BHANU CHANDAR	S.I.E.T, Hyderabad
11	Mr.G.Sai Krishna Prasad	TRCET, Hyderabad
12	MR. G NAGESH	V.I.T.S, Hyderabad
13	MR J SANDEEP KUMAR	S.I.E.T, Hyderabad
14	Mrs.N.Pavani Kumari	TRCET, Hyderabad
15	Mr.V.Viran Kumar	VCE, Hyderabad
16	Naveen Kumar	CVR CE, Hyderabad
17	G.Barath Reddy	CVR CE, Hyderabad
18	G.Prasath	MLRIT, Hyderabad
19	Y.Balram	CMR CET, Hyderabad
20	Mr.Vamshi Shastri	K.I.T.S, Hyderabad
21	Mr. Umesh Gandhi	TRCET, Hyderabad



INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC)Hyderabad | PIN: 500068

DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 05-06-2019,

To,
Dr. Uma Maheshwar
Associate Professor,
SIET,
Hyderabad.

Sub: Invitation to conduct one week FDP on “**rapid prototyping**” during **10-06-2019-15-06-2019** as Resource person-Reg

Sir,

Sreyas Institute of Engineering and Technology (SRYS) one of the esteemed institution located in a peace environment at Hyderabad, which was approved by AICTE, New Delhi, and affiliated to JNTUH.

Our vision is to impart education, in a conducting ambience, as comprehensive as possible, with the support of the modern technologies and produce graduates and post graduates in engineering with the ability and passion to work wisely, creatively, and effectively for the betterment of our society.

On behalf of Sreyas institute of engineering & technology, I am pleased to have the honour of inviting you to deliver the lecture in **rapid prototyping**” during **10-06-2019-15-06-2019** we will be grateful to you in accepting our invitation.

Thanking You,

Yours sincerely,

(Dr.Umamaheshwer Rao)
HOD- Mechanical Engg.



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DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 05-06-2019,

To,
Dr. Md.Mateen
Assoc. Professor,
TKRCET,
Meerpet,
Hyderabad.

Sub: Invitation to conduct one week FDP on “**rapid prototyping**” during **10-06-2019-15-06-2019** as Resource person-Reg

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DEPARTMENT OF MECHANICAL ENGINEERING

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dt: 05-06-2019,

To,
Dr. D.V.Ravi Shankar,
Principal, TKRCET,
Meerpet,
Hyderabad.

Sub: Invitation to conduct one week FDP on “**rapid prototyping**” during **10-06-2019-15-06-2019** as Resource person-Reg

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(Dr.Umamaheshwer Rao)
HOD- Mechanical Engg.



DEPARTMENT OF MECHANICAL ENGINEERING

INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC) Hyderabad 05-06-2019

To,
Dr.Suresh Akella,
Prof. and Principal,
S.I.E.T,
Hyderabad.

Sub: Invitation for to conduct “**rapid prototyping**” during 10-06-2019-15-06-2019 as
Resource person-Reg

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DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 05-06-2019,

To,
Dr. G.konda Reddy
Assoc. Professor,
MED,
S.I.S.T, Bhongir,
Nalgonda.

Sub: Invitation to conduct one week FDP on “**rapid prototyping**” during **10-06-2019-15-06-2019** as Resource person-Reg

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Thanking You,

Yours sincerely,

A handwritten signature in blue ink that reads "A. Umamaheshwer Rao".

(Dr.Umamaheshwer Rao)
HOD- Mechanical Engg.



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(Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC)Hyderabad | PIN: 500068

DEPARTMENT OF MECHANICAL ENGINEERING

05-06-2019,

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Mr. Y.Krishna,
Asst.Professor,
S.I.E.T,
Hyderabad.

Sub: Invitation for to conduct “**rapid prototyping**” during 10-06-2019-15-06-2019 as
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DEPARTMENT OF MECHANICAL ENGINEERING

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(10-06-2019 to 15-06-2019)

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Signature & Seal of
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Mr. K. L. N. Murthy	Mrs. Ramya Deepika
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Mr. Praveen B. Ronad	Mr. K. Raja Sekhar
Mr. K. Nageswararao	Mr. B. Sanjanna
Mr. J. Sandeep Kumar	Mr. P. Praveen Kumar

Address for Correspondence

Dr. Umamaheshwer Rao
Department of Mechanical Engineering
Sreyas Institute of Engineering and Technology,
Nagole – 500068, Telangana.
Mobile: 8886287868
E-mail: me_hod@sreyas.ac.in



One week FDP on “Rapid Prototyping”

(10-06-2019 to 15-06-2019)



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Department of Mechanical Engineering

**SREYAS INSTITUTE OF ENGINEERING
AND TECHNOLOGY**

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Dr. Suresh Akella,
Principal,

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Mr.G. Konda Reddy,
Associate Professor,
MED, S.N.I.S.T

Program Schedule

Inauguration Ceremony:

By

Address by **Sri A. Vinay Kumar Reddy,**
Chairman, SIET.

Sri Chintala Ravindranath, Secretary, SIET.

Sri N. Sharath Reddy, CEO, SIET.

Sri A. Hriday Reddy, Vice Chairman, SIET.

Dr. Suresh Akella, Principal, SIET.

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Day 3: Designing for Additive Manufacturing.

Day 4: Applications of AM Future Trends and Directions in Additive Manufacturing, Business Opportunities

Day 5: Standards and standardization in 3D Printing and the Future of Manufacturing

Registration fee: No fee

DEPARTMENT OF MECHANICAL ENGINEERING

SREYAS

Date: 17-06-2019.

To,

The principal.

INSTITUTE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC | Hyderabad | PIN: 500068

Nagole, Hyderabad.

Sub: Expenses towards conduction of One week FDP on “RAPID PROTOTYPING”

-Reg

I am grateful to the institution management and principal for the necessary arrangement and support made for the success of One week FDP. Here with I have giving details of expenses occurred in smooth conduction of FDP.

Expenditure towards FDP:

	Amount Spent
Honorarium (External Resource Persons = 5*2000)	Rs. 10000 /-
Travel Expenses	Rs. 1000 /-
Flexi Banners	Rs. 500 /-
Stationary –FDP Kit (pen, pad, files)	Rs. 1000/-
Certificates	Rs. 500/-
Refreshments (5days)	Rs. 1500/-
Miscellaneous	Rs. 500/-
Total	Rs. 15000/-

Thanking You

Yours sincerely



(Dr. Umamaheshwer Rao)
HOD- Mechanical Engg.



SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY

39, Beside INDU Aranya, GSI, Thattiamnam, Bandlaguda, Nagole, Hyderabad - 500 069.

Ph : 040-65814415, 9393421213

Voucher No :

Date : 5/06/2019

PAYMENT VOUCHER

Cash / Bank

Debit Account Head

Pay to D.A.C. Laxmanakshree A/c (HOD) - MP

Cheque No

Dated

Bank

Bieng FDP on "Rapid Prototyping"

Rs. 15000/-

Amount in words

Fifteen thousand Rupees only

[Signature]
Paid By

Passed by

Receivers Signature

A. Q. Rao.



INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to JNTUH, Hyderabad | Accredited by NAAC)Hyderabad | PIN: 500068

DEPARTMENT OF MECHANICAL ENGINEERING

Dt: 03-06-2019

CIRCULAR

This is to inform all Staff that, Department of Mechanical Engineering is organizing a one week FDP on “Rapid Prototyping” during 10-06-2019 to 15-06-2019

So, All Mechanical staff requested to attend the Workshop and get benefited.



HOD, ME

Copy to:

1. All Staff
2. Notice board

One week FDP on "Rapid Prototyping"

(10-06-2019 to 15-06-2019)

1. Name:
2. Designation:
3. Organization:
4. Address:
5. Mobile No:
6. E-mail ID:
7. Teaching Experience:
8. Accommodation required: Yes/No
9. DD Particulars: Rs. _____, Dt. _____

Declaration

The above information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration.

Place: _____ Date: _____

Applicant Signature _____ Signature & Seal of Head of the Institution

Chief Patron

Sri A. Vinay Kumar Reddy, Chairman

Patron(s)

Sri Ch. Ravindranath, Secretary

Sri N. Sharath Reddy, CEO

Sri A. Hriday Reddy, Vice Chairman

Advisor

Dr. Suresh Akella, Principal

Program Coordinator

Mr. Praveen B Ronad, Asst. Professor,

Mech. Engg.

HOD

Dr. Umamaheshwer Rao, Asst. Professor

Coordinator(s)

Mr. B. Sandeep, Mr. B. Sanjanna, Assistant Professor, Mech. Engg.

Organizing Member(s)

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Mr. K. L. N. Murthy	Mrs. Ramya Deepika
Mr. T. Ravi	Mr. B. Sandeep
Mr. Praveen B. Ronad	Mr. K. Raja Sekhar
Mr. K. Nageswararao	Mr. B. Sanjanna
Mr. J. Sandeep Kumar	Mr. P. Praveen Kumar

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Sreyas Institute of Engineering & Technology
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One week FDP on "Rapid Prototyping"

(10-06-2019 to 15-06-2019)



Organized

By

Department of Mechanical Engineering

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

Nagole, Hyderabad - 500068.
Website: www.sreyas.ac.in

About the Institute

Sreyas Institute of Engineering & Technology (SIET) is established in the year 2011 by Sreyas Educational Society. It is located in the heart of Hyderabad city about 5 km from Nagole metro station. SIET has been in the forefront imparting high quality technical education. State of the art infrastructure in all branches of engineering, dedicated and qualified staff, highly conducive environment for teaching learning process are the hallmarks of this professionally managed institution. The institute is an affiliate to JNTU.H. The Institute offers Civil Engineering, Mechanical Engineering, Electronics and Communication Engineering and Computer Science Engineering courses.

About the Mechanical Engineering Department

The department of Mechanical Engineering was established in the year 2011 and offers UG & PG programs in Mechanical Engineering. The Department has qualified, dedicated, experienced and trained faculty with a deep sense of commitment towards the students and Institution. Teaching faculty with proficiency in various subjects motivates students to participate in research activities and skill development programs. The Department has state of the art laboratories, R&D lab and labs with well-equipped hardware and software facility.

Overview

Additive Manufacturing (AM), formerly known as Rapid Prototyping (RP), is a technology development, defined as "a process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to

subtractive manufacturing methodologies". Also commonly known as 3D Printing. As the technology is widely developed, additive manufacturing is composed to move on to the direct production of components and parts. This course will provide a clear and comprehensive coverage of this exciting new technology.

Workshop Objectives

To give insight on recent technologies and advancements in Rapid Prototyping. Rapid Prototyping is ideal for addressing dynamic technological trends and industrial demands. 3D printing finds application in Industry and Biomedical sectors. The course is designed to introduce basic and advance topics of the cutting-edge technology and address the issues related to it. To motivate faculty members to gather students to do research and projects in the field of 3D Printing/ Rapid Prototyping

Resource Person

Dr. Suresh Akella,
Principal,
Sreyas Institute of Engineering and Technology
Hyderabad.

Dr. D.V. Ravi Shankar
Principal,
TKRCET, Hyderabad.

Md. Mateen, Associate Professor,
TKRCET, Hyderabad.

Mr. AC Sekhar Reddy
Assoc. Prof., MED, S.I.E.T

Mr. G. Konda Reddy,
Associate Professor,
MED, S.N.I.S.T

Program Schedule

Inauguration Ceremony:

By

Address by Sri A. Vinay Kumar Reddy,
Chairman, SIET.
Sri Chintala Ravindranath, Secretary, SIET.
Sri N. Sharath Reddy, CEO, SIET.
Sri A. Hriday Reddy, Vice Chairman, SIET.
Dr. Suresh Akella, Principal, SIET.

Contents

- Day 1: Introduction to Rapid Prototyping and modern advancements in it.
- Day 2: How UDE 3D printing Machine and materials used in 3D Printing.
- Day 3: Designing for Additive Manufacturing.
- Day 4 Applications of AM Future Trends and Directions in Additive Manufacturing, Business Opportunities
- Day 5: Standards and standardization in 3D Printing and the Future of Manufacturing

Registration fee: No fee



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A REPORT ON ONE-WEEK FDP ON 3D PRINTING

A one week FDP was organized by Department of Mechanical Engineering during 10-06-2019 to 15-06-2019. The invited resource persons was **Dr. D.V.Ravi Shankar, Professor and Principal, TKRCET on day one**. There were 15 internal and external participants from Sreyas Institute of Engineering and Technology.

The inauguration program was started on 10-06-2019, 10:45 AM with prayer song and lighting of the lamp by the dignitaries on the dais. The dignitaries on the stage were chief guest **Dr. D.V.Ravi Shankar, Professor and Principal, TKRCET** Dr. Suresh Akella, principal, Mr. A. Hreday Reddy, vice chairman, Dr. Diaz, Head of the Department.

Objective of ONE-WEEK FDP:

- ❖ To give insight on recent technologies and advancements in Additive manufacturing
- ❖ To have deep understanding in 3D printing technology
- ❖ To promote research in the Additive manufacturing technology
- ❖ To motivate faculty members to gather students to do research and projects in the field of 3D printing.

10th, June, 2019 - Day 1:

Morning Session was held from **11:00 am to 12:30 pm** by **Dr.D.V. Ravi Shankar** on the following topics.

1. What is 3D Printing/ Rapid Prototyping.
2. History of 3D Printing.
3. 3D Printing Applications.
4. Overview of 3D Printing.

Dr.Suresh Akella covered the following topics in the **afternoon session** which is held from **2 pm to 3:50 pm**.

- ✓ Types of Additive Manufacturing
- ✓ SLA

- ✓ FDM
- ✓ SLS
- ✓ DMLS

Explanation of each and every type of Additive Manufacturing listed above is done.

Next session is continued by **Dr.Suresh Akella** by showing some videos related to 3D printing from **4 pm to 5:15 pm**. They are as follows.

- ✓ Car printed using 3D Printer
- ✓ Chocolate Printer
- ✓ Related to Fashion technology

11th, June, 2019 - Day 2

Dr.D.V. Ravi Shankar started day 2 by giving presentation on various materials used from **10:10 am to 11:25 am**. They are as follows.

- ❖ PLA
- ❖ ABS
- ❖ LAYWOOD-3
- ❖ NYLON
- ❖ Pro Series PLA
- ❖ Pro Series ABS

- Filament Extruder is related to 3D printing which is a process for making raw materials for 3D Printers and a video related to Filament Extruder making is shown.

From **11:45 am to 12:30 pm**, **Mr. M.A.Mateen** continued the session on "**About 3D Printer**".

- ✓ Parts of a 3D Printer
- ✓ Stepper Motors
- ✓ Timing Belt
- ✓ Shafts
- ✓ Temperature Indicators

- ✓ Inductive Sensor/ Proximity Sensor Nozzle
- ✓ Designing a Model

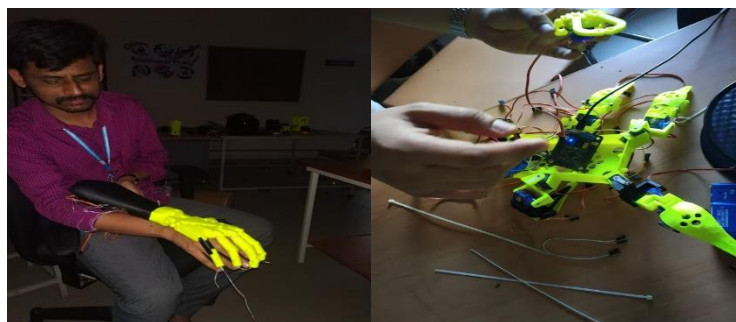
From **2 pm to 3:30 pm** **Mr. M.A.Mateen** took the session on "Generating G-codes from the designed models.

12th, June, 2019- Day 3 Morning Session was held from **10:30 am to 12:20 pm** by **Mr. Md. Mateen** on "Explanation of how to use 3D printer both online and offline to the participants."

Mr. M.A.Mateen continued the session from **2:00 pm to 3:30 pm** by "Giving Demo on using 3D Printer" to the participants taking 3 participants as a batch.



From **3:45 pm to 4:40 pm**, Hands on experience to all the participants on using 3D Printer by printing their own models having 5 participants per batch.



13th, June-2019 - Day 4 Morning Session was held from **10:30 am to 12:30 pm** by **Dr.Uma Maheshwar** on the following topics.

- ✓ STL File problems
- ✓ Solutions to the STL file problems

Afternoon Session was continued by **Mr.AC Sekhar Reddy** that was held from **2 pm to 4:45pm.**

- ✓ Models and specifications of different 3D printers
- ✓ Advantages
- ✓ Disadvantages

14th, June, 2019 - Day 5

Morning Session was held by **Mr.G.Konda Reddy** from **10:30 am to 12:20 pm** by explaining the following.

- ✓ Explained the process of Scanning using 3D Scanner and a software related to it.

Afternoon Session was continued by **Mr.G.Konda Reddy** from **2:30 pm to 4:10 pm** on the following topics.

- ✓ Post processing/ finishing of 3D Printed parts of various RP processes.

15th, June, 2019 - Day 6 From 10:30 am to 11:20 am,

Discussions went on regarding 3D Printing technology among the participants along with the coordinators and resource person. Modeling of their own 3D models and printing them using 3D Printer was carried out from **11:40 am to 12:50 pm** by the participants. In the **afternoon session**, Valedictory function was held from **2 pm to 3 pm** starting with presenting vote of thanks by the program coordinator followed by the distribution of certificates to all the participant.

FACULTY DEVELOPMENT
PROGRAMME
ON
RAPID PROTOTYPING

10th - 15th June - 2019

Organised by
Department of Mechanical Engineering



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A handwritten signature in blue ink, appearing to be "S", is written above the CO-ORDINATOR title.

CO-ORDINATOR

A handwritten signature in blue ink, appearing to be "A. S. S.", is written on a small white rectangular piece of paper above the HOD title.

HOD

A handwritten signature in green ink, appearing to be "Asarath", is written above the PRINCIPAL title.

PRINCIPAL



SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Prof./Dr./Mr./Ms. Mr. MASR ABHILASH
from TKRCET

has participated in *One Week Faculty Development Programme on Rapid Prototyping* organized by
Department of Mechanical Engineering held during 10-0-2019 to 15-06-2019.

A handwritten signature in blue ink, appearing to be "S".

CO-ORDINATOR

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HOD

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PRINCIPAL

