

## Organizing Committee

### Chief Patron

Mr. K.M. Arifuddin, Secretary, MEWS

### Patrons

Mr. K.M.Minhajuddin, Director, GPC  
Mr. K.M. Fasihuddin, Dy. Director, GPC

### Chairpersons

Dr. VVV S Murthy, Principal, GIET  
Dr. Mrs. Ravindra Tiwari, Dean, GPC

### Convenor

Mr. Aamer Sohail, Head Dept. of Mech. Engg, GIET

### Coordinator

Ms. Sayyada Hafeeza  
Asst.Prof., Dept. of Mech. Engg.

### Eligibility

- All the faculty members of Mechanical engineering and allied branches of engineering colleges.

### Registration Details

- Registration Fee: Rs. 300/-
- Last Date: 05<sup>th</sup> December 2017
- The number of seats is limited
- Participants are selected on first come first serve basis and accepted participants list will be updated in website after last date.

### For Further Details

Ms. Sayyada Hafeeza  
Coordinator, FDP  
Email: [giet.mechre3dp@gmail.com](mailto:giet.mechre3dp@gmail.com)  
Mob: 9449309802

## About the Organization

Global Institute of Engineering & Technology (GIET) established in the year 2006, nurtures & supports a unique system of education structure on values and combines the tenets of academic excellence with corporate professionalism. The primary objective at Global Institute of Engineering & Technology is to impart quality education which leads to quality living. Affiliated to JNTU Hyderabad, the college has completed more than a decade of dedicated service to the people of India in the field of Technical Education. Located at Moinabad, in a sprawling campus spread over 30 acres of lush green environment provides an ambient study atmosphere.

### Vision

To produce technologically skilled Engineers of world class competency to address global challenges.

### Mission

M1:- To offer quality education for social upliftment that is affordable and accessible to all and in particular to rural students.

M2:- To provide academic freedom, generate, disseminate and preserve knowledge with inter disciplinary approach in order to meet advanced industrial standards.

M3:- To enable students to master innovative methodologies for research and skills required to become an entrepreneur.

M4:- To emphasize on human values, professional ethics, social responsibility and environmental sustainability.

## A Six-Day Faculty Development Programme on

### "Reverse Engineering-3D Printing"

07<sup>th</sup> - 13<sup>th</sup> December 2017

### Organized by

Department of Mechanical Engineering

### In Association With



GARUDA 3D Pvt. Ltd.

Hyderabad  
and



3D ForeGoer Pvt. Ltd.

Hyderabad.

### Coordinator

Ms. Sayyada Hafeeza



## GLOBAL INSTITUTE OF

## ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi,

Affiliated to JNTU, Hyderabad) Survey  
No. 179, Chilkur (V), Moinabad (M),  
Ranga Reddy (D), Telangana-501504

Email: [gieteng@gmail.com](mailto:gieteng@gmail.com)

Website: [www.globbalhyd.edu.in](http://www.globbalhyd.edu.in)



### About the Department:

The future of the world is going to be technology driven and knowledge driven. The Mechanical Engineering Department at GIET has the most modern infrastructure to undertake high-end teaching, research and developmental activities in its laboratories like Fluid Mechanics, Hydraulic Machinery Lab, Metallurgy and Metrology lab, Production Engineering lab, Heat Transform lab, Thermal Engineering lab, Workshop Technology lab, CAD-CAM lab etc., besides highly experienced faculty. The department of Mechanical Engineering will lead broadest areas from cars to computers, from microchips to motorways including surgical robotic systems.

The faculty as well as the student community of this department are encouraged and motivated by the Head and the Management to attend workshops, seminars and conduct the same at the campus in order to keep pace with the fast moving competitive world advancing towards excellence.

PMKVY- Vehicle assembly fitter technician course (an AICTE approved and Ministry of HRD Govt. of India initiative) is also conducted at regular intervals for underprivileged students who cannot make it to the corporate due to unavailability of opportunities. This course is a citadel of social upliftment for imparting technical skills and leading a society for inclusive and sustainable growth.

### About the FDP:

Faculty Development Programs (FDPs) are especially important in adapting faculty members to their changing roles in initiating and setting the directions for curricular changes. The major focus of the FDP is on upgrading the teaching, training, and research skills of faculty members. This faculty development training program is intended to provide opportunity for teaching faculties employed in for teaching and upgrading their knowledge in the areas of Reverse Engineering.

The training program introduces the concepts of reverse engineering, a common practice in design and manufacturing. It also covers 3D printing concepts including 3D point clouds, converting these clouds to CAD surfaces, and filtering techniques. 3D printing concepts include prototyping applications, triangulation (Tessellation) of CAD models, research perspective and recent development in reverse engineering processes.

### Learning Outcomes

Upon completion of this programme the participant will be able to:

- Differentiate between various methods of importing, parsing, manipulating, and modifying 3D data.
- Evaluate various additive manufacturing processes and materials.
- Analyze recent developments in 3D printing process.
- Design a 3D model object using Slic3r.

## GLOBAL INSTITUTE OF ENGINEERING AND TECHNOLOGY

### A Six-Day Faculty Development Programme on

### "Reverse Engineering-3D Printing" 07<sup>th</sup> - 13<sup>th</sup> December 2017

#### REGISTRATION FORM

Name : Syed Mustafkhan  
Gender : Male /Female  
Qualification : M.Tech  
Designation : Assistant Professor  
Department : Mechanical  
Organization : GIET  
Address : Moinabad  
E-mailID : Syedmustafkhan01786@gmail.com  
Contact No: 8951332994

Signature of the Participant

Signature of Head





# GLOBAL Institute of Engineering & Technology

(Approved by AICTE & Affiliated to JNTUH)

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Phone: 8790101015 / 9959250205

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JNTUH Code (U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech. EAMCET Code- GLOB

## DEPARTMENT OF MECHANICAL ENGINEERING

Mr. Aamer Sohail

M.Tech

Assistant Professor and Head

Lr.No: GIET/B.Tech/Mech/FDP\_RE3D/2017-18/01

Date: 06/11/2017

To,

The Principal  
GIET

Respected Sir,

**Sub: Hosting a Six Day Faculty Development Program on "Reverse Engineering- 3D Printing" - Reg.**

\*\*\*\*\*

The Department of Mechanical Engineering is planning to host a **Six Day Faculty Development Program on "Reverse Engineering- 3D Printing"** from 07/12/2017 to 13/12/2017 in Room No: 04. I would like to request you to give permission and support to conduct the FDP.

The objectives of the FDP are to enable the participants to understand the concept of Reverse Engineering- 3D Printing to enhance knowledge.

Kindly accord approval so as to make necessary arrangements for hosting a Six Day Faculty Development Program on **"Reverse Engineering- 3D Printing"**.

Thanking you.

*Permitted  
6/11/17*

*[Signature]*  
H.O.D  
Dept. of Mechanical Engineering, GIET.  
HEAD  
Department of Mechanical Engg.  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist T.S-501504



# GLOBAL

## Institute of Engineering & Technology

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JNTUH Code (U6)

CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech.

EAMCET Code- GLOB

### DEPARTMENT OF MECHANICAL ENGINEERING

**Mr. Aamer Sohail**

B.Tech, M.Tech

**Assistant Professor & Head**

**Date: 09/11/2017**

#### CIRCULAR

The Department of Mechanical Engineering is hosting a **Six Day Faculty Development Program on "Reverse Engineering- 3D Printing"** from 07/12/2017 to 13/12/2017 for all the faculty members of Mechanical Engineering and allied branches of Engineering Colleges. All the participants are informed to attend the FDP. The Coordinator for the Faculty Development Program is Ms. Sayyada Hafeeza, Assistant Professor, Department of Mechanical Engineering.

  
HOD

Department of Mechanical Engineering.

**HEAD**  
Department of Mechanical Engg.  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist. T.S. - 501504





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## Department of Mechanical Engineering

### A Six Day Faculty Development Program

on

### “Reverse Engineering- 3D Printing”

07/12/2017 to 13/12/2017

### PROGRAMME SCHEDULE

	Forenoon (FN)	Afternoon(AN)
Day 1	INAUGURATION	Introduction to Reverse Engineering Dr. KVR Murthy, Professor, VBIT, Hyderabad
Day 2	Introduction to 3D Printing Dr. M Vidyasagar, Professor, JNTUH, Hyderabad	Applications of Reverse Engineering & 3D Printing Dr. M Vidyasagar, Professor, JNTUH, Hyderabad
Day 3	Additive Manufacturing and its types Mr. Naresh Gidde, Business Development Executive, 3D Foregoer Pvt. Solutions, Hyderabad	Exposure of Software approach to build 3D non-geometric models Mr. Naresh Gidde, Business Development Executive, 3D Foregoer Pvt. Solutions, Hyderabad
Day 4	Selective Laser Sintering – Principle, Process, advantages Mr. SelvaKumaran M.D, Garuda 3D, Hyderabad	Laser Engineered Net Shaping (LENS) Mr. SelvaKumaran M.D, Garuda 3D, Hyderabad
Day 5	Delmia Additive Part Preparation Essentials Dr. G Satish Babu Professor, JNTUH, Hyderabad	Stereo lithography Apparatus (SLA) Dr. G Satish Babu Professor, JNTUH, Hyderabad
Day 6	Research Perspectives of Reverse Engineering and 3D Printing Dr. KVR Murthy, Professor,VBIT, Hyderabad	Valedictory, Feedback & Certificate Distribution

Co-Ordinator

Ms. Sayyada Hafeeza

Assistant Professor

Department of Mechanical Engg.





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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Faculty Development Program

On

**“Reverse Engineering- 3D Printing”**

(07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### LIST OF PARTICIPANTS

S.NO	NAME OF THE PARTICIPANT	DESIGNATION
1	Mr. Prahlad Kumar	Assistant Professor
2	Mohd Asif Kattimani	Assistant Professor
3	Mohd Iqbal Khatib	Assistant Professor
4	Kumar Naik	Assistant Professor
5	R Subbalakshmi	Assistant Professor
6	DH Pachchinavar	Assistant Professor
7	K Durga	Assistant Professor
8	Shivputra M	Assistant Professor
9	Heera Tunnisa	Associate Professor
10	Aamer Sohail	Assistant Professor
11	Jagannath Pattar	Assistant Professor
12	P Padma Rao	Assistant Professor
13	Syed Mustaf Khadri	Assistant Professor
14	G Satyanarayana	Assistant Professor
15	S Laxmudu	Assistant Professor
16	Raghavendra	Assistant Professor
17	Sumeet	Assistant Professor
18	Prajwal	Assistant Professor
19	Suresh	Assistant Professor
20	Fazal	Assistant Professor
21	Mohan Rao	Assistant Professor
22	Sayyada Hafeeza	Assistant Professor

  
**Co-Ordinator**

Ms. Sayyada Hafeeza,  
Assistant Professor  
Department of Mech. Engg.  
GIET, Moinabad.

# GLOBAL INSTITUTE OF ENGINEERING AND TECHNOLOGY

## A Six-Day Faculty Development Programme on

### “Reverse Engineering-3D Printing” 07<sup>th</sup> - 13<sup>th</sup> December 2017

#### REGISTRATION FORM

Name : Syed Mustofkhabdi  
Gender : ☒ Male / ~~Female~~  
Qualification : M.Tech  
Designation : Assistant Professor  
Department : Mechanical  
Organization: GIET  
Address : Moinabad  
E-mailID: Syedmustofkhabdi786@gmail  
Contact No: 8951332997

Signature of the Participant

Signature of Head





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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Faculty Development Program

On

## “Reverse Engineering- 3D Printing”

(07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### ATTENDANCE SHEET

S. No.	Name of the Participant	Designation												
			Day-1 (7/12/2017)		Day-2 (8/12/2017)		Day-3 (9/12/2017)		Day-4 (10/12/2017)		Day-5 (11/12/2017)		Day-6 (12/12/2017)	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	A.Sohail	Asst. Prof												
2.	Syed Mustaf Khadki	Asst. prof												
3.	Mohd Asif Kattimani	Asst. prof												
4.	Sayyada Hafeeza	-U-U-												
5.	K. Dwiga	-U-U-U-												
6.	G. Sadyanarayana	Asst. prof												

Coordinator

Head of the Department  
Department of Mechanical Engg.  
Global Institute of Engineering & Technology  
Moinabad(M).. R.R. Dist.T.S.-501504

Principal  
Global Institute of Engg. & Tech.  
Chilkur (V), Moinabad (M)





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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Faculty Development Program

On

## “Reverse Engineering- 3D Printing”

(07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### ATTENDANCE SHEET

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			Day-1 (7/12/2017)		Day-2 (8/12/2017)		Day-3 (9/12/2017)		Day-4 (10/12/2017)		Day-5 (11/12/2017)		Day-6 (12/12/2017)	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
7.	Mr. Prashad Kumar	Asst. Prof	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad	Prashad
8.	MD. IQBAL KHAN	Asst. Prof	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal	Iqbal
9.	Kumar Naik	Asst. Prof	Naik	Naik	Naik	Naik	Naik	Naik	Naik	Naik	Naik	Naik	Naik	Naik
10.	Heera Tunnisa	Asst. Prof	Heera	Heera	Heera	Heera	Heera	Heera	Heera	Heera	Heera	Heera	Heera	Heera
11.	H. Puchakinnara	Asst. Prof	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara	Puchakinnara
12.	FAZAL	Asst. Prof	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal	Fazal

Co-Ordinator

Head of the Department  
Department of Mechanical Engg.  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist.T.S.-501504

Principal  
Global Institute of Engg. & Tech.  
Chilkur (V), Moinabad (M)





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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Faculty Development Program

On

## “Reverse Engineering- 3D Printing”

(07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### ATTENDANCE SHEET

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			Day-1 (7/12/2017)		Day-2 (8/12/2017)		Day-3 (9/12/2017)		Day-4 (10/12/2017)		Day-5 (11/12/2017)		Day-6 (12/12/2017)	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
13	Shivputra .M	Asst. Prof	Shp	Shp	Shp	Shp	Shp	Shp	Shp	Shp	Shp	Shp	Shp	Shp
14	P. Padmarao	Asst. Professor	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
15	MOHAN RAO	Asst. Prof	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	R Subbalakshmi	Asst. Prof	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub
17	Rashavendra	Asst. Prof	P	P	P	P	P	P	P	P	P	P	P	P
18	Pradwal	Asst. Prof	P	P	P	P	P	P	P	P	P	P	P	P

Co-Ordinator

Head of the Department Engg.  
Department of Mechanical Engineering  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist T.S.

Principal  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M)





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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Faculty Development Program

On

## “Reverse Engineering- 3D Printing”

(07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### ATTENDANCE SHEET

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			Day-1 (7/12/2017)		Day-2 (8/12/2017)		Day-3 (9/12/2017)		Day-4 (10/12/2017)		Day-5 (11/12/2017)		Day-6 (12/12/2017)			
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
19	S. Laxmudu	Asst. Prof	S	S	S	S	S	S	S	S	S	S	S	S		
20	Jaganmohan Reddy	Asst. Prof	S	S	S	S	AB	S	S	S	S	S	S	S		
21	S. Umesh	Asst. Prof	S	S	S	S	S	S	S	S	S	S	S	S		
22	S. Umesh	Asst. Prof	S	S	S	S	S	S	S	S	S	S	S	S		

Co-Ordinator

Head of the Department  
Department of Mechanical Engg.  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist. T.S. - 501504

Principal  
Global Institute of Engg. & Tech  
Chilkur (V), Moinabad (M), R.R. Dist. T.S. - 501504





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EAMCET Code– GLOB

## DEPARTMENT OF MECHANICAL ENGINEERING A Six Day Faculty Development Program

On

## “Reverse Engineering- 3D Printing” (07<sup>th</sup> – 12<sup>th</sup> December, 2017)

### FEEDBACK FORM

Please value your rating of the course by placing a tick in the appropriate box.  
(Ratings: 1.Poor 2.Satisfactory 3.Good 4.Very good 5.Excellent)

Date:

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Relevance of content	✓				
Trainer was knowledgeable and skillful		✓			
Quality of input provided	✓				
Quality of presentations		✓			
Adherence to the time schedule	✓				
Opportunity given to participant to clear doubts	✓				
Identify ways to build on current skills and knowledge		✓			
Overall learning experience	✓				
How has the course enhanced your skills or understanding of this topic? very Good					
Specify problems faced by you during the course? No problems					





# **GLOBAL**

## **Institute of Engineering & Technology**

### **REPORT**

#### **A Six Day Faculty Development Program**

**on**

#### **“Reverse Engineering- 3D Printing”**

**17/12/2017 to 13/12/2017**

**A.Y 2017-18**

A Six Day Faculty Development Program on “Reverse Engineering -3D printing ” from 07/12/2017 to 13/12/2017 was organized by the Department of Mechanical Engineering, Global Institute of Engineering and Technology. The aim was to enable the participants to adopt paradigm shift in teaching methodologies and enhance the pedagogical innovations for teaching the concepts Reverse Engineering-3D printing. The course was attended by twenty two faculty members.

#### **Day 1:**

The event was started with the inaugural ceremony and the co-coordinator of this occasion, Ms. Sayyada Hafeeza, Assistant Professor, Department of Mechanical Engineering welcomed the audience. After inauguration, the morning session was started at 10:00 AM in which Dr. KVR Murthy, Professor, VBIT, Hyderabad delivered his outstanding lecture on “Introduction to Reverse Engineering”. In the afternoon session, the continuation of the same topic was carried out.

#### **Day 2:**

On second day, forenoon session was started by Dr. M Vidyasagar, Professor, JNTUH, Hyderabad. He gave masterful talk on “Introduction to 3D Printing”. In the afternoon session, he excellently taught about the topic “Applications of Reverse engineering & 3D Printing”.

#### **Day 3:**

On third day, the morning session was taken by Mr. Naresh Gidde,, Business Development Executive, 3D Foregoer Pvt. Solutions, Hyderabad delivered his outstanding lecture on “Additive Manufacturing and its types. During the afternoon session “Exposure of Software approach to build 3D non-geometric models” was explained by same speaker.

#### **Day 4:**

On fourth day, the morning session was taken by Mr. SelvaKumaran M.D, Garuda 3D, Hyderabad delivered his outstanding lecture on “Selective Laser Sintering – Principle, Process, Advantages”. In the afternoon, the same resource person took session on “Laser Engineered Net Shaping (LENS)”.

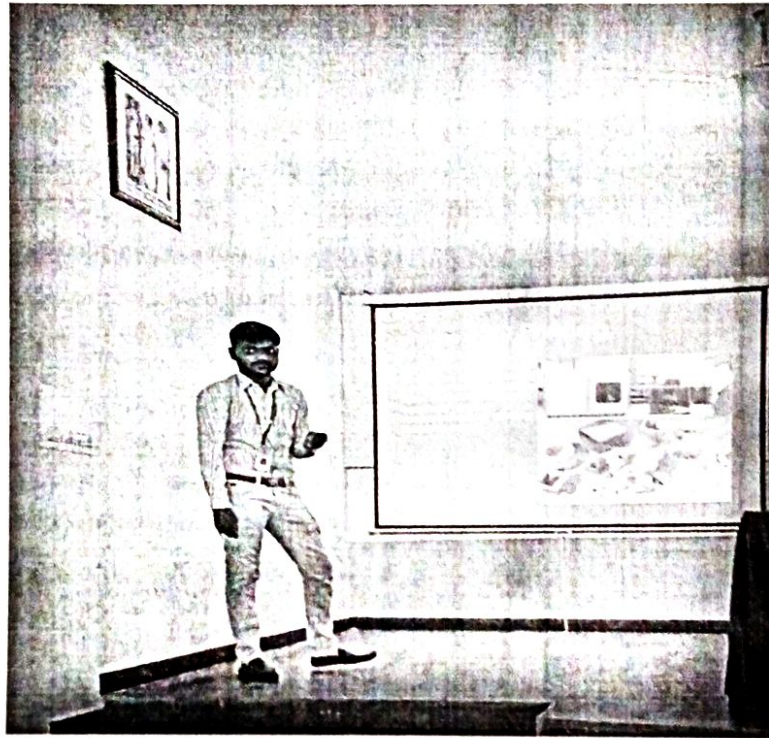


Day 5:

On fifth day, the morning session was taken by Dr. G Satish Babu Professor, JNTUH, Hyderabad Robotic delivered his outstanding lecture on "Delmia Additive Part Preparation Essentials". In the afternoon session on "Stereo lithography Apparatus (SLA)" was handled by the same resource person with very much enthusiasm and joy to learn.

Day 6:

On sixth day, first session started by a lecture on "Research Perspectives of Reverse Engineering and 3D Printing" by Dr. KVR Murthy, Professor, VBIT, Hyderabad. The FDP was concluded in the afternoon session by valedictory, followed by feedback. All the participants participated actively and there were good responses from all the participants.



Co-Ordinator  
Ms. Sayyada Hafeeza  
Assistant Professor  
Department of Mechanical Engg.





# GLOBAL

## Institute of Engineering & Technology


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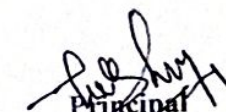
Recognized Under 2f Act of UGC 1956, an ISO:9001-2015 Certified Institution  
Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Prahlad Kumar of  
LIET, Kalimandir has attended a Six Day Faculty  
Development Program on "Reverse Engineering- 3D Printing" organized by the  
Department of Mechanical Engineering, Global Institute of Engineering and Technology, held  
from 07/12/2017 to 13/12/2017.

  
Co-Ordinator  
(Ms. Sayyada Hafeeza)

  
Head of the Department  
(Mr. Aamer Sohail)

  
Principal  
(Dr. VVVS Murty)