



# **MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Approved by AICTE, Affiliated to JNTUA, Anantapuramu, Accredited by NAAC & Certified by ISO 9001:2015

Melumoi Post, PALAMANER – 517408, Chittoor Dist.,(A.P.)

Phone: 08579-268589 Cell: 9866888648 email: [mtieat@gmail.com](mailto:mtieat@gmail.com) Web: [mtieat.com](http://mtieat.com)

## Department of Mechanical Engineering

A

Six Day Professional Development Program

On

# **WIDESPREAD ADOPTION OF 3D PRINTING, ROBOTS, AND INTERNET OF THING (IOT) DEVICES**

(08-02-2021 TO 13-02-2021)

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# MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF MECHANICAL ENGINEERING

Ref No: MTIET/PDP/MECII/2020-2021

Date: 04-02-2021.

From  
Head of the Department,  
Department of Mechanical Engineering,  
Mother Theresa Institute of Engineering and Technology,  
Melumoi.

To  
The P.Durga Prasad,  
Research Scholar,  
Mech Department,  
IITDM, Kanchipuram

Respected Sir,

Sub: Invited for conduct a six day professional development program on Widespread Adoption Of 3D Printing, Robots, and Internet of Thing (IoT) Devices -Reg.

\*\*\*

With reference to the above subject, this is to bring to your kind notice that Mother Theresa Institute of Engineering and Technology, Department of Mechanical Engineering is proposed to organize conduct A Six Day Professional Development Program On "Widespread Adoption Of 3D Printing, Robots, and Internet Of Thing (IoT) Devices" during 08-02-2021 to 13-02-2021.

In this connection, I humbly request you to give your consent to deliver a lecture on the topic on Widespread Adoption Of 3D Printing, Robots, and Internet Of Thing (IoT) Devices to the participants

Thanking you sir,

*Permitted*  
*04/02/21*  
PRINCIPAL  
Mother Theresa Institute of  
Engineering and Technology  
PALAMANER - 517 408

*R.T.S.*  
Yours sincerely, *04/2/21*  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Eng. & Tech.,  
PALAMANER - 517 408.



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## DEPARTMENT OF MECHANICAL ENGINEERING

Ref No: MTIET/PDP/MECH/2020-2021

Date: 03-02-2021.

From  
The HOD,  
Department of Mechanical Engineering  
MTIET  
Palamaner

To  
The Principal,  
MTIET  
Palamaner

Respected Sir,

Sub: Requisition for Permission to conduct A Six Day Professional Development Program On  
“Widespread Adoption Of 3D Printing, Robots, and Internet of Thing (IoT) Devices” -Reg.

I would like to bring to your kind notice to organize A Six Day Professional Development Program On “Widespread Adoption Of 3D Printing, Robots, and Internet of Thing (IoT) Devices” for faculty members. Here I am requesting you to give permission to conduct a program from 08-02-2021 to 13-02-2021.

Thanking you sir,

Yours sincerely,

*R.T.S.* 03/02/21

HOD/ME  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech  
PALAMANER - 517 408.



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## DEPARTMENT OF MECHANICAL ENGINEERING

Date: 06-02-2021

### CIRCULAR

The interested faculty members are requested to register and attend conduct A Six Day Professional Development Program On “Wide Spread Adoption Of 3D Printing, Robots, And Internet Of Thing (IoT) Devices” from 08-02-2021 to 13-02-2021 which is organized by MTIET, Mechanical Engineering Department, Palamaner.

Co-Ordinator: Mr Sathish Kumar V.S, M.Tech, Assistant Professor  
Ph: 9844827525

*R. T. S. K.*  
HOD/MECH 6/2/2021  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg & Tech  
PALAMANER - 517 408.

Copy to: The Principal Desk,

The Staff In-charge,

Circulate among all faculty members.

Sathish Kumar - *[Signature]*  
Gangaraju - *[Signature]*  
Rammohan - *[Signature]*  
Rohan

Rohan - *[Signature]*

# Registration Form

Name: \_\_\_\_\_  
Branch/Designation: \_\_\_\_\_  
Institution: \_\_\_\_\_  
Address for correspondence: \_\_\_\_\_  
E-Mail Id: \_\_\_\_\_  
Mobile No: \_\_\_\_\_  
Place: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature of the Applicant \_\_\_\_\_  
Signature of head of the institution with seal \_\_\_\_\_

## Chief Patrons:

Sri. M.R Sunil , chairman,  
Sri. M.Ravindra Babu, Correspondent

## Patrons:

Dr. R. Rajendra Reddy, Academic director,  
Dr. M. Lakshmi Kantha Reddy, Principal

## Convener:

Mr. Dr.R.T.Sarathbabu HOD, MECH DEPT.

## Co-Ordinators:

Mr Sathish Kumar V.S, M.Tech, Assistant Professor  
Ph : 9844827525

Mr. K. Rajeshkumar, M. Tech, Assistant Professor  
Ph: 9700008754

## Organizing Committee:

Mr. G. GangaRaju, M. Tech, Asst. Prof.  
mob: 7989377300

Mr. B Rammohan .M. Tech, asst. prof  
mob : 9113810145

Mr. A. Rohan Satya Sai, M. Tech, asst. prof  
mob: 9490831894

## Student Committee:

Jaswanth ram : 9182824829  
Reddy sekhar : 9948503110  
Sathvika : 9550158262



## MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Melumoi Post, Palamaner -517408.  
Chittoor [Dist]. A.P.

**A**  
**A six Day Professional Development**

**Program**

**"Wide spread adoption of 3D printing,  
robots, and Internet of Thing (IoT)  
devices"**

**From on 08-02-2021 to 13-02-2021.**



Organizing by Dept. of MECHANICAL ENGINEERING

### Location:



### About the college:

Mother Theresa Institute of Engineering & Technology was established in the year 2010 with an objective to impart quality education to students in the fields of Science and Technology. The College is affiliated to Jawaharlal Nehru Technological University (JNTUA) Ananthapur and approved by All India Council for Technical Education (New Delhi). MTIET is located on Madanapalli highway, Near Melumoi 5kms from Palamaner, in serene and lush green surroundings. The institute was founded to educate and empower the youth who play a decisive role in shaping the destiny of the nation. The college has a rich tradition of pursuing academic excellence and overall personal growth. This is achieved by providing excellent infrastructure, along with the presence of dedicated and highly qualified, faculty members, who monitor students individually with a single-minded aim of giving students a perfect launch pad to build their future and ensuring an all-round development along with professionalism.

natural systems or human systems to gain insight into their functioning Simulation can be used to show the eventual real effects of alternative conditions and courses of action. Simulation is also used when the real system cannot be engaged, because it may not be accessible, or it may be dangerous or unacceptable to engage, or it is being designed but not yet built, or it may simply not exist.

Key issues in simulation include acquisition of valid source information about the relevant selection of key characteristics and behaviors, the use of simplifying approximations and assumptions within the simulation, and fidelity and validity of the simulation outcomes.

### Registration fee:

Registration fee of Rs.600/-per participant. Candidate should confirm his/her registration by mailing to [meccravemti2k16@gmail.com](mailto:meccravemti2k16@gmail.com)

### Who can attend?

Students of Mechanical engineering and faculty of any branch.

### CONTACT DETAILS:

Mr. Sathish Kumar V.S Assistant Professor  
Department of Mech Palamaner  
Ph.: 9844827525  
Mr. K. Rajeshkumar Assistant Professor  
Department of Mech Palamaner  
Ph.: 9700008754

### About the Department:

The Department of Mechanical Engineering was established at the inception of the college. The course offers a deep insight into the discipline and enables promising engineers to acquire skills required to succeed both individually as well as in industry. Keeping in view of the technological advancement, the department is fortified by the most qualified and experienced faculty. The department is well equipped with modern Laboratories.

### About the workshop:

Simulation is the imitation of the operation of a real world process or system over time. The act of simulating something first requires that a model be developed; this model represents the key characteristics or behaviors/functions of the selected physical or abstract system or process. The model represents the system itself, whereas the simulation represents the operation of the system over time.

Simulation is used in many contexts, such as simulation of technology for performance optimization, safety engineering, testing, training, education, and video games. Often, computer experiments are used to study simulation models. Simulation is also used with scientific modeling of



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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

### SCHEDULE

Time	9.30 AM to 12.30 PM	1.30 PM to 4.30 PM
08/02/2021	Introduction	How does it work?
09/02/2021	Types of AM	AM technologies
10/02/2021	SLA	FDM
11/02/2021	MJM	3DP
12/02/2021	SLS	4-D printing and other applications
13/02/2021	Using (And Scaling) FDM 3D Printing for Production	Does Manufacturing Need Additive?

*K. S. S. e*  
**HEAD OF MECH DEPT.** 12/2/21  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.  
PALAMANER



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## DEPARTMENT OF MECHANICAL ENGINEERING

A Six Day Professional Development Programme on "Wide Spread Adoption Of 3D Printing, Robots, And Internet Of Thing (IoT) Devices"  
(08-02-2021 to 13-02-2021)

### REGISTRATION FORM

S.No	Name of the faculty	Dept.	Signature
1.	DR. R T SARATH BABU	ME	R.T.S
2.	K.RAJESHI KUMAR	ME	K.Rajeshi
3.	SATHISH KUMAR V.S	ME	Sathish Kumar
4.	RAM MOHAN B	ME	Ram Mohan
5.	R. SHASHIDHAR REDDY	ME	R. Shashidhar
6.	A. ARUN KUMAR	ME	Arun Kumar
7.	B R MANJUNATH	ME	B.R. Manjunath
8.	SK BAZANI	ME	Bazani
9.	A ROHAN SATHYA SAI	ME	Rohan Sathya Sai
10.	VUTTARADI SRIVARDHAN	ME	Srivardhan
11.	NAGENDRABABU	ME	Nagendra babu
12.	HIMA BINDHU	ME	Hima Bindhu

Sathish Kumar  
COORDINATOR(S)

R.T.S  
HOD/MECH. 05/02/21  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
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(08-02-2021 to 13-02-2021)

### Attendance sheet

S.No	NAME OF THE FACULTY	DEPARTMENT	08-02-2021		09-02-2021		10-02-2021		11-02-2021	
			FN	AN	FN	AN	FN	AN	FN	AN
1.	DR. R T SARATH BABU	ME	<del>RT</del>	<del>RT</del>	<del>RT</del>	<del>RT</del>	<del>RT</del>	<del>RT</del>	<del>RT</del>	<del>RT</del>
2.	K.RAJESH KUMAR	ME	KR	KR	KR	KR	KR	KR	KR	KR
3.	SATHISH KUMAR V.S	ME	SK	SK	SK	SK	SK	SK	SK	SK
4.	RAM MOHAN B	ME	RM	RM	RM	RM	RM	RM	RM	RM
5.	R. SHASHIDHAR REDDY	ME	RS	RS	RS	RS	RS	RS	RS	RS
6.	A. ARUN KUMAR	ME	AA	AA	AA	AA	AA	AA	AA	AA
7.	B R MANJUNATH	ME	BR	BR	BR	BR	BR	BR	BR	BR
8.	SK BAZANI	ME	SK	SK	SK	SK	SK	SK	SK	SK
9.	A ROHAN SATHIYA SAI	ME	RS	RS	RS	RS	RS	RS	RS	RS
10.	VUTTARADI SRIVARDHAN	ME	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>
11.	NAGENDRABABU	ME	NR	NR	NR	NR	NR	NR	NR	NR
12.	HIMA BINDHU	ME	HB	HB	HB	HB	HB	HB	HB	HB

*Sathish Kumar*  
COORDINATOR 13/2/2021

*K. S. S.*  
HOD/MECH 13/02/21

**HEAD OF THE DEPT.**  
**Mechanical Engineering**  
Mother Theresa Inst. of Engng. & Tech.  
PALAMANER.



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A Six Day Professional Development Programme on "Wide Spread Adoption Of 3D Printing, Robots, And Internet Of Thing (IoT) Devices"  
(08-02-2021 to 13-02-2021)

### Attendance sheet

S.No	NAME OF THE FACULTY	DEPT	12-02-2021		13-02-2021	
			FN	AN	FN	AN
1.	DR. R T SARATH BABU	ME	<del>RS</del>	<del>RS</del>	<del>RS</del>	<del>RS</del>
2.	K.RAJESH KUMAR	ME	KR	KR	KR	KR
3.	SATHISH KUMAR V.S	ME	VS	VS	VS	VS
4.	RAM MOILAN B	ME	Rm	Rm	Rm	Rm
5.	R. SHASHIDHAR REDDY	ME	RS	RS	RS	RS
6.	A. ARUN KUMAR	ME	AA	AA	AA	AA
7.	B R MANJUNATH	ME	BR	BR	BR	BR
8.	SK BAZANI	ME	SK	SK	SK	SK
9.	A ROHAN SATHIYA SAI	ME	RS	RS	RS	RS
10.	VUTTARADI SRIVARDHAN	ME	<del>VS</del>	<del>VS</del>	<del>VS</del>	<del>VS</del>
11.	NAGENDRABABU	ME	NB	NB	NB	NB
12.	HIMA BINDHU	ME	HB	HB	HB	HB

*Sathish Kumar*  
COORDINATOR

*R. T. S*  
HOD/MECH  
HEAD OF THE DEPT.  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Report-On

## A Six Day Professional Development Program on Widespread Adoption of 3D Printing, Robots, and Internet of Thing (IoT) devices (08-02-2021 to 13-02-2021)

The Department of Mechanical Engineering conducting A Six Day Professional Development Program on “widespread adoption of 3D printing, robots, and Internet of Thing (IoT) devices” organized for Teaching faculties Mech on 08<sup>th</sup> Feb to 13<sup>th</sup> Feb 2021 to explore the Challenges in widespread adoption of 3D printing, robots, and Internet of Thing (IoT) devices. The technical team has given mix of theory and practical knowledge.

This program was organized by Dr.R T Sarath Babu, Head of the department with the co-ordination of P.Durga Prasad, Research Scholar, Mech Department, IITDM, and Kanchipuram.

The Program was organized for two days effective from 08-02-2021 to 13-02-2021 with a total duration of 30 hours. Twelve Faculties were benefitted from this Professional development program. The program was held in Seminar Hall.

The Resource person given excellent presentation on **AM technologies** for First Day. At the Second day Resource person given Excellent presentation on 3-D printing. The faculties are enjoyed a lot for this real time experience.

**Outcome:** The team of Mtiet, Palamaner concluded the Professional development program successfully by enhancing the confidence levels of each and every student for future attempts of improving career prospects.

The total program is successfully completed with the cooperation of each and every faculty member of the department and participants.



Photography: At the time of Tea brake

*R. T. S. e*  
Head of the Department *astamoy*

**HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg & Tech  
PALAMANER - 517 408.**



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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

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### Feedback Form

Name of the faculty: *Ram mohan B*

Branch: *Mechanical Engineering*

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	✓				
2	Clarity and audibility of Speech	✓				
3	Demonstration of Exercises in Lab	✓				
4	Way of Raising doubts & Effective clarification of doubts	✓				
5	Relevance of the lecture to the topic announced		✓			
6	Overall Performance	✓				

Suggestions if any:

*Ram Mohan*  
Signature



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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

\*\*\*

### Feedback Form

Name of the faculty: **SK BAZANI**

Branch: **Mechanical Engineering**

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence		✓			
2	Clarity and audibility of Speech	✓				
3	Demonstration of Exercises in Lab			✓		
4	Way of Raising doubts & Effective clarification of doubts		✓			
5	Relevance of the lecture to the topic announced	✓				
6	Overall Performance			✓		

Suggestions if any:

  
Signature



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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

\*\*\*

### Feedback Form

Name of the faculty: *HSMA BINDHU*

Branch: *Mechanical Engineering*

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	<input checked="" type="checkbox"/>				
2	Clarity and audibility of Speech		<input checked="" type="checkbox"/>			
3	Demonstration of Exercises in Lab			<input checked="" type="checkbox"/>		
4	Way of Raising doubts & Effective clarification of doubts		<input checked="" type="checkbox"/>			
5	Relevance of the lecture to the topic announced					
6	Overall Performance	<input checked="" type="checkbox"/>				

Suggestions if any:

  
Signature



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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

\*\*\*

### Feedback Form

Name of the faculty: K. Rajesh Kumar Branch: Mechanical Engineering

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	✓				
2	Clarity and audibility of Speech	✓				
3	Demonstration of Exercises in Lab		✓			
4	Way of Raising doubts & Effective clarification of doubts	✓				
5	Relevance of the lecture to the topic announced		✓			
6	Overall Performance	✓				

Suggestions if any:

K. Rajesh Kumar  
Signature





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## DEPARTMENT OF MECHANICAL ENGINEERING

Wide spread adoption of 3D printing, robots, and Internet of Thing (IoT) devices  
(08-02-2021 to 13-02-2021)

### Feedback Analysis

No.Of submitted Feedback Forms: 12

Total number of Points: 60

S.No	Description	Excellent	Very Good	Good	Fair	Poor	%
1	Organization of Subject in Logical Sequence	9	1	1	1	0	90%
2	Clarity and audibility of Speech	8	2	2	0	0	90%
3	Demonstration of Exercises in Lab	10	1	1	0	0	95%
4	Way of Raising doubts & Effective clarification of doubts	6	2	2	2	0	80%
5	Relevance of the lecture to the topic announced	7	3	1	1	0	86%
6	Overall Performance	60	1	1	0	0	95%
<b>Total</b>							<b>89.31%</b>

Total Points  $\geq 90$  → Excellent (5 Points)

Total Points  $\geq 80$  → Very Good (4 Points)

Total Points  $\geq 70$  → Good (3 Points)

Total Points  $\geq 50$  → Fair (2 Points)

Total Points  $\leq 49$  → Poor (1 Points)

Feedback analysis report: The PROGRAM was very good based on the feedback percentage that was given by the students.

R.T.S  
Convener  
13/02/21

Sathish K V  
Co-Convener  
13/02/21

R.T.S  
13/02/21  
HEAD HOD DEPARTMENT  
Dept. of Science & Humanities  
Mother Theresa Institute of  
Engineering & Technology

# Mother Theresa Institute of Engineering and Technology

(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

Website: [www.mtitech.edu.in](http://www.mtitech.edu.in) email: [mtieat@gmail.com](mailto:mtieat@gmail.com) ☎ 08579 268589



## CERTIFICATE

This is to certify that Mr. S. Gangaraju Dept. of ME has participated in the A Six Day Professional Development Program On "Widespread Adoption Of 3D Printing, Robots, And Internet Of Thing (IoT) Devices" from 08<sup>TH</sup> Feb to 13<sup>TH</sup> Feb 2021 Organized by MTIET, Mechanical Engineering Department

*Sachin K. V.*

Co-Ordinator

*R. T. S.*

Coucurer

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Principal

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## CERTIFICATE

This is to certify that Mr. Ram mohan.B Dept. of ME has participated in the A Six Day Professional Development Program On "Widespread Adoption Of 3D Printing, Robots, And Internet Of Thing (IoT) Devices" from 08<sup>TH</sup> Feb to 13<sup>th</sup> Feb 2021 Organized by MTIET, Mechanical Engineering Department

*Sachin K. V. S.*

Co-Ordinator

*R. T. S.*

Convener

*[Signature]*

Principal