



Raja Rajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)
#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru – 560074



REPORT
ON
Five Days Faculty Development Program on
“3D Printing and Additive Manufacturing Technology”,
Funded by the National Centre for Additive Manufacturing (NCAM),
Ministry of Electronics and Information Technology,
Govt. of Telangana

26th Feb – 1st March 2024

Program Coordinator:

Dr. Vishwanath K.C, Associate Professor, Dept. of R & A.

Program Co-Coordinator:

Dr. N.Sreenivasalu Reddy, Associate Professor, Dept. of R & A.

DEPARTMENT OF ROBOTICS AND AUTOMATION & MECHANICAL ENGINEERING

#14, Ramohalli cross, Kumbalagodu, Mysore road,

Bengaluru - 560 074

Karnataka

Name of the Scheme: Additive Technology Enhancement Programme

NCAM File No. : NCAM/ATEP-FDP/2023/52/11 – dated 16/02/2024

Name of the Coordinator: Dr. Vishwanath K C

Title of the FDP Program: 3D Printing & Additive Manufacturing
Technology

Organizing Institute: RajaRajeswari College of Engineering, Bangalore-74

Total number of participants: 50

Grant sanctioned: Rs. 2, 50,000/-

Grant utilized: Rs. 1, 97,614/-

Brochure

Chief Patrons:-

Dr.A.C.Shanmugam,
B.A.LLB, FIMSA, FRCPS (Glasgow, UK),
Chairman, RRG I

Sri.A.C.S.Arunkumar,
B.Tech(Hons), LMISTE, MIET, (UK), LMCSI.
Vice-Chairman, RRG I

Patrons:-

Dr. S. Vijayanand, Executive Director, RRG I
Sri. C. N. Seetharam, I.A.S Rtd., CEO, RRG I
Dr. S. Jeyabalan, Special Officer, RRG I
Dr. A.K. Mariyappan, Rector, RRCE

Co-Patrons:-

Dr. R. Balakrishna, Principal, RRCE
Dr. J. Amutharaj, Vice-Principal, RRCE
Dr. S. Usha, Dean R&I, RRCE
Dr. Thangadurai. N, Dean IPS, RRCE

Programme Conveners:-

Dr. Vishwanath K.C., Asso. Prof., Dept. of R & A
Dr. N.Sreenivasalu Reddy., Asso. Prof., Dept. of R & A

Organizing Committee:-

Dr.M.Karthikeyan., HOD, Dept. of R & A
Dr.C.Ramesh., HOD, Dept. of ME
Dr.D.Sivakumar., Professor, Dept. of CSE

Co-ordinators:-

Dr. Satheesha.V., Asso. Prof., Dept. of R&A
Dr. ThanujKumar.M., Asst. Prof., Dept. of ME
Dr. Madhu.K.S., Asst. Prof., Dept. of ME
Dr. Radhakrishna R K., Asst. Prof., Dept. of ME
Prof. S.Praveen Kumar., Asst. Prof., Dept. of ME
Prof. B. S. Dhanajaya., Asst. Prof., Dept. of ME

Objectives of the ATEP FDP:-

- **Educational Empowerment:** The program aims to empower educators with a deep understanding of additive manufacturing technologies and their applications. Participants will gain hands-on experience with various 3D printing techniques, materials, and software tools.
- **Fostering Innovation:** "Print, Educate, and innovate" emphasizes the role of educators as innovation enablers. Participants will explore innovative pedagogical approaches and tools to inspire creativity in their students.
- **Curriculum Enhancement:** Educators will learn how to integrate additive manufacturing concepts into their existing curricula, ensuring that students are well-prepared for the demands of a rapidly evolving workforce.

Expected Outcome of the FDP:-

- Enhanced Awareness on 3D Printing & AM applications
- Hand-on Experience on 3D Printing
- Curriculum Development

Registration Details(Who should attend):-

Faculty of Mechanical Engineering & Allied Branches, ECE & EEE branches, Research Scholars and PG students
For registration Scan this QR code:



(or) <https://forms.gle/aKLNQP5je7GamVW5A>

Registration Fee: "FREE"

No TA/DA and Accommodation will be provided for the participants
The Maximum number of Participants is limited to 35.

Limited Seats: Register early to secure your spot!

Last Date for Registration: 20-02-2024

Contact: Dr. Vishwanath.K.C Ph: +91-99004 49906
Mail: vishwa8160@gmail.com, vishwanath@rrce.org

A Unit of RajaRajeswari Group of Institutions



RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Govt. of Karnataka

#14, Ramohalli, Mysuru Road,
Kumbalagodu, Bengaluru-560074

Phone: +91-80-28437512, +91-80-28437375

Website: www.rrce.org

Five Days Faculty Development Program on

3D PRINTING AND ADDITIVE MANUFACTURING TECHNOLOGY

26th Feb - 1st March 2024

Organized by

**DEPARTMENT OF
ROBOTICS AND AUTOMATION
&
MECHANICAL ENGINEERING**

In Association with



इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



NCAM
NATIONAL CENTRE FOR ADDITIVE MANUFACTURING

Brochure

About MCET:-

Moogambigai Charitable and Educational Trust, Bengaluru was established in the year 1992 with the sole objective of starting Institutions of higher education of exemplary stature in the state of Karnataka. In furtherance of this objective, the trust has been establishing institutions of higher learning in the state. Presently the trust is running 8 institutions in Karnataka and 19 institutions in Tamil Nadu in the fields of Medical, Dental, Engineering, and Management Institutes.

About the Institution:-

RajaRajeswari College of Engineering (RRCE) was established in the year 2006. The Institution is recognized by AICTE, New Delhi, approved by Govt. of Karnataka & is affiliated to Visvesvaraya Technological University (VTU), Belagavi. The Institution is reaccredited by NBA (CSE, ECE, ISE), NAAC 'A+' Grade during 2nd Cycle, HLACT, and ISO 9001-2008 Certified. The institution offers UG courses in the disciplines of Robotics and Automation, AI&ML, EEE, CIVIL, ECE, CSE, ISE, CSE (IoT and Cyber Security Including Block Chain Technology) and CSE & Design. Post Graduation Courses in Computer Science & Engineering, MBA, MCA & Research Programs in the Department of Mechanical Engineering, Computer Science & Engineering, Management Studies & Mathematics, Physics, Chemistry, Electronics and Communication Engineering, Civil Engineering leading to M.Sc (Engg.) by Research & Ph.D. programs of VTU. The faculty members are highly qualified & experienced. The campus is Wi-Fi enabled with well-equipped state-of-the-art laboratories, computing facilities, a library, sports, and hostel facilities for boys and girls. The college conducted more numbers of international conferences, National conferences, FDP, Seminars, etc. The college is located at a distance of 18 km from Bengaluru City Railway Station on Mysuru Road.

About the Department:-

The Department of Mechanical Engineering was started in the year 2006 and the Department of Robotics and Automation Engineering was started in the year 2021. These departments have highly qualified and well-experienced faculty with a good track record in Academics, Research and Industry. The department has established with state of art laboratory facilities with advanced software. These departments have conducted several conferences, workshops, FDPs, seminars, and industrial visits. It has a "Centre of Excellence" with Altair Hyper works, Toyota. Currently, the Department of Mechanical Engineering offers a UG program, Ph.D. program. AICTE has sponsored funding of Rs. 16.47 Lakhs under the scheme of MODROB to set up a Center for Research on Automated Machining and Robotics for the Department of Mechanical Engineering. The Department of Robotics and Automation has a Robotics Programming Lab consisting of FANUC 6-axis Industrial ROBOT ER4IA and FANUC ROBOGUIDE software, Automation studio and LABVIEW software.

About NCAM:-

The National Centre for Additive Manufacturing (NCAM) has been established by the Ministry of Electronics and Information Technology (MeitY), Govt. of India and ITE&C Department, Govt. of Telangana in partnership with industry. It is established with a vision to develop a comprehensive Additive Manufacturing (AM) ecosystem in the county and to position India as a global AM Manufacturing Hub. NCAM aims to create and enable a sustainable ecosystem for product innovation in India with an emphasis on research, design, development, and testing through collaborative efforts between academia, industry, and government using the disruptive technology of AM.

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About ATEP FDP:-

The primary objective of the Additive Technology Enhancement Program (ATEP) of NCAM is to acquaint the participants with the concepts of AM, provide exposure to the various AM technologies, materials science aspect for AM, CAD modelling of AM processes, and their applications in various industry domains. Also, this programme can update the participants about the AM landscape with its latest advancements, opportunities, emerging trends and challenges involved in adoption in India. This programme also aims to provide hands-on exposure to the participants on 3D printers and for 3D printing of parts.



Banner



RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramohalli Cross, Mysore Road, Bengaluru – 560 074



Welcome to all the participants for
One Week Faculty Development Program
ADDITIVE TECHNOLOGY ENHANCEMENT PROGRAM (ATEP)
ON
“3D PRINTING AND ADDITIVE MANUFACTURING TECHNOLOGY”



Chief Patron
Dr. A.C. Shanmugam
B.A. LLB, FIMS, FRCPs (Glasgow, UK)
 Founder Chancellor
Dr. M.G.R. E & RI, Chennai & RRG, Bengaluru.

Sponsored By





Patron
Sri. A.C.S Arun Kumar
B.Tech (Hons), LRISTE., MIET, (UK), LMCSI.,
 MILEE, MCSI, MISTE, CEng (India)
 President
Dr. M.G.R. E & RI, Chennai & RRG, Bengaluru.

Organized by

Dept. of Robotics & Automation and Mechanical Engineering

Date: 26th Feb to 1st March 2024 **Time:** 9:00AM to 04:30PM **Venue:** Aryabhata Seminar Hall

Dr.S.Vijayanand, M.Tech. Ph.D,
 Executive Director, RRG

Sri.C.N.Seetharaman, IAS(Retd.)
 Chief Executive Officer, RRG

Dr.S.Jeyabalan, M.B.A. Ph.D.
 Special Officer, RRG

Dr.A.K.Mariappan
Rector, RRCE

Dr.R.Balakrishna
Principal

Dr.J.Amutharaj
Vice Principal

Dr.Usha S
R & D, Dean

Dr. Karthikeyan M
HOD, Dept. of R & A

Dr. Ramesh C
HOD, Dept. of Mech

Dr. Vishwanath K C
Program Convener

Program Schedule of Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology” 26th Feb to 1st Mar 2024, funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.

Monday, 26-02-2024 (DAY1)			
Time	Name of the Speaker and Designation	Organization	Topics to be covered
9:00 - 9:30 AM	Inauguration		
9:30 - 11:00AM	Dr.U.Chandrasekhar, CEO (Chief Guest)	GMSIR,Bangalore	Brief introduction about 3Dprinting & Industry 4.0
11.00 -11.15AM	Tea Break		
11.15 -12:45 PM	Dr.T.RamPrabhu Scientist B	DRDO	Project proposal related to 3DPrinting.
12:45 - 1:45PM	Lunch		
1:45 - 3:15 PM	Mrs.Akshatha Addwize leader-Manager	Wipro3D	Overview of Additive Technologies
3:15 - 3.30 PM	Tea Break		
3.30 - 4:30 PM	LabSession : Demo of DLP printer B.S.Manish, Wipro 3D		
Tuesday, 27-02-2024 (DAY2)			
9:30 - 11:00AM	Dr.Dheepa Srinivasan Chief Engineer	Pratt & Whitney	Additive Manufacturing Applications in Gas Turbines
11.00-11.15AM	Tea Break		
11.15-12:45 PM	Mr.Manjunath B NScientist B	CMTI,Bangalore.	Metal additive manufacturing (DMLS and DMD Technologies) or Design for AM
12:45-1:45PM	Lunch		
1:45 - 3:15 PM	Mrs.Akshatha Addwize leader -Manager	Wipro3D	Metal file preparation Demo
3:15 - 3.30 PM	Tea Break		
3.30 -4:30 PM	Lab Session: File preparation exercise Mr.B.S.Manish, Wipro 3D		

Report on Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology” 26th Feb to 1st Mar 2024 funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.

Wednesday, 28-02-2024 (DAY3)			
9:30 -11:00AM	Dr.Vasu M Professor.	National Institute of Technology, Tiruchirappalli TamilNadu	Introduction to Additive Manufacturing Technology.
11.00 -11.15AM	Tea Break		
11.15 -12:45 PM	Dr.Vasu M Professor.	National Institute of Technology, Tiruchirappalli TamilNadu	Optimization of Additive Manufacturing Technology.
12:45 -1:45PM	Lunch		
1:45 - 3:15 PM	Dr.S.Vinodh Professor	National Institute of Technology, Tiruchirappalli TamilNadu	Product development & Additive Manufacturing
3:15 - 3.30 PM	Tea Break		
3.30 - 4:30 PM	Dr.S.Vinodh Professor	National Institute of Technology, Tiruchirappalli TamilNadu	Sustainable Additive Manufacturing and Industry 4.0
Thursday, 29-02-2024 (DAY4)			
9:30 -11:00AM	Mr.Sai Rakesh Addwize Engineer	Wipro 3D	DfAM for Laser Powder Bed Fusion
11.00 -11.15 AM	Tea Break		
11.15 -12:45 PM	Industrial Visit	Wipro 3D	Polymer printing
12:45 -1:45 PM	Lunch		
1:45 - 3:15 PM	Industrial Visit	Wipro3D	Metal Printing
3:15 - 3.30 PM	Tea Break		
3.30 - 4:30 PM	Industrial Visit	Wipro3D	Post Processing and Quality
Friday, 01-03-2024 (DAY5)			
9:30 -11:00AM	Mr.Sai Rakesh Addwize Engineer	Wipro 3D	Metal Materials for AM
11.00 -11.15 AM	Tea Break		
11.15 -12:45 PM	Lab Session : Fusion 360 Demo Mrs.Akshatha, Wipro 3D		
12:45 -1:45 PM	Lunch		
1:45 - 3:15 PM	Dr. Chandrushekar A Professor	Bangalore Institute of Technology, Bangalore	Additive Manufacturing technology & industry 4.0
3:15 - 3.30 PM	Tea Break		
3.30 - 4:30 PM	ASSESSMENT & FEEDBACK, Valedictory		

List of participants attended the FDP on “3D Printing and Additive Manufacturing Technology”

Sl. No	Name as per the registration in the AICTE ATAL portal	Designation	Name of the college
1	Dr. Sreenidhi Sharma	Associate Professor	ACS College of Engineering
2	Mr.Ravindra K G	Assistant Professor	Bangalore institute of technology
3	Dr. K S Madhu	Assistant Professor	Rajarajeswari College of engineering
4	Mr.Vinod	Assistant Professor	Amruta Institute of Engineering and Management science Bangalore
5	Dr. Archana D P	Assistant Professor	Bangalore Institute of Technology
6	Dr. Swetha K B	Assistant Professor	Sapthagiri college of Engineering
7	Dr. Chandrashekar A	Assistant Professor	Bangalore Institute of Technology
8	Dr. Babu E R	Assistant Professor	Bangalore Institute of Technology
9	Dr. Chanakeshava Naik N	Assistant Professor	BGS College of Engineering and Technology
10	Mr.Hemanth Kumar	Assistant Professor	Bangalore Institute of Technology
11	Dr. Nagabhushana Narasappa	Assistant Professor	New Horizon College of Engineering
12	Mr.Chethan D	Assistant Professor	NMIT
13	Mr.Bappugowda	Assistant Professor	BNM INSTITUTE OF TECHNOLOGY
14	Dr. M.C. Manjunath	Associate Professor	Bangalore Institute of technology
15	Dr. Reddappa	Associate Professor	Bangalore Institute of Technology
16	Mr.Premchanda	Assistant Professor	Bangalore Institute of Technology
17	Mr.Jagadessa N	Assistant Professor	Bangalore Institute of Technology
18	Mr.Vishwanath B R	Assistant Professor	BNMIT
19	Mr.Avinash	Assistant Professor	NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY
20	Dr. Sivakumar D	Professor	Rajarajeswari College of Engineering

Report on Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology” 26th Feb to 1st Mar 2024 funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.

21	Dr. Ashok kumar	Professor	ACS College of Engineering
22	Dr. Thejaraju	Assistant Professor	CHRIST Deemed to be University Bangalore
23	Dr. Sowmya	Assistant Professor	GITAM Bangalore campus
24	Mrs.Manasa G	Assistant Professor	Rajarajeshwari college of engineering
25	Mr.Anand	Assistant Professor	P E S College of Engineering Mandya
26	Dr. Satheesha V	Associate Professor	RajaRajeswari College of Engineering
27	Mrs.Nithyasree	Assistant Professor	Dr.Ambedkar Institute of Technology
28	Mr.Rajesh G L	Assistant Professor	K.S Institute of Technology
29	Dr. Rahdakrishna R K	Assistant Professor	Rajarajeswari College of Engineering
30	Mr.Karthik S	Assistant Professor	Acharya Institute of Technology
31	Dr. Karthikeyan M	Professor	RajaRajeswari College of Engineering
32	Mr.Dhananjya B S	Assistant Professor	Rajarajeswari college of engineering
33	Mrs.Rashmi	Assistant Professor	Rajarajeshwari college of engineering
34	Mrs.Suguna G C	Assistant Professor	JSS Academy of Technical Education
35	Dr. N. Sreenivasalu reddy	Associate Professor	Rajarajeswari College of Engineering
36	Dr. Vasanth Kumar	Assistant Professor	Bangalore Institute of Technology
37	Dr. Y. J. Manjunath	Assistant Professor	Bangalore Institute of Technology
38	Mr.Kamalakar	Assistant Professor	RRCE
39	Mr.Praveen Kumar S	Assistant Professor	RajaRajeswari College of Engineering
40	Dr. Madhu	Industrial Personnel	Jindal Aluminium Limited
41	Dr. Sunil Raj	Associate Professor	A C S College of Engineering
42	Mr.Kumar	Assistant Professor	ACS college of engineering
43	Mr.Rakshith	Industrial Personnel	Echidna Software Private Limited
44	Dr. Sunitha manoj	Associate Professor	Rajrajeswari college of engineering

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45	Mr.Ramesh S	Assistant Professor	RajaRajeswari College of Engineering
46	Dr. Jobish Johns	Professor	Rajarajeswari College of Engineering
47	Mr.Abdul Razak	Associate Professor	P A College of Engineering, Mangalore
48	Mr.Bharath V	Assistant Professor	RNS INSTITUTE OF TECHNOLOGY
49	Mr.Arul	Associate Professor	Agni College of Technology
50	Mr.Nataraj P	Assistant Professor	Manakula Vinayagar Institute of Technology

Day 1 (26/02/2024)

➤ Inaugural Function

Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology” funded National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana, FDP is commenced on 26th Feb 2024 and inaugurated by Dr.U.Chandrasekhar, GMSIR, Bangalore (Chief Guest), Bangalore and be the Chief Guest for the ‘Inaugural Ceremony’ of FDPs on 26th Feb 2024 from 9:00 a.m. to 11.30 a.m (IST).

Being a distinguished academic leader, Dr.U.Chandrasekhar has shared his expertise and views on evolving trends, Additive technology, disruptive technologies, changing job scenarios, academia-industry linkage, and translating research into impactful applications to the participants.



Chief Guest Dr.U Chandrasekhar, CEO, GMSIR (Chief Guest), Bangalore

Report on Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology” 26th Feb to 1st Mar 2024 funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.



Lighting the lamp by Chief Guest Dr.U Chandrasekhar, CEO, GMSIR (Chief Guest), Bangalore



Felicitations to Chief Guest Dr.U Chandrasekhar, CEO, GMSIR (Chief Guest), Bangalore

First Session (10:00 to 11:30 PM)



Key note speech by Dr.U Chandrasekhar, CEO, GMSIR (Chief Guest), Bangalore



Key note speech by Dr.U Chandrasekhar, CEO, GMSIR (Chief Guest), Bangalore

Second Session (11:45 to 01:00 PM)



Presentation by Mrs.Akshatha Addwizeleader-Manager, Wipro3D, Bangalore



Presentation by Mrs.Akshatha Addwizeleader-Manager, Wipro3D, Bangalore

Third Session (1:30 to 3:00 PM)



Lab Session : Demo of DLP printer, Mr.B.S.Manish, Wipro 3D, Bangalore



Lab Session : Demo of DLP printer, Mr.B.S.Manish, Wipro 3D, Bangalore

Fourth Session (3:15 to 4:30 PM)



Presentation by Dr.T.RamPrabhu,Scientist B, DRDO, Bangalore



Presentation by Dr.T.RamPrabhu,Scientist B, DRDO, Bangalore

Day 2 (27/02/2024)

First Session (09:30 to 11:00 PM)



Presentation by Dr.Dheepa, Srinivasan, Chief Engineer, Pratt & Whitney



Presentation by Dr.Dheepa, Srinivasan Chief Engineer, Pratt & Whitney

Second Session (11:15 to 12:45 PM)



Presentation by Mr. Manjunath B N, Scientist B, CMTI, Bangalore



Presentation by Mr. Manjunath B N Scientist B, CMTI, Bangalore

Third Session (1:45 to 3:15 PM)



Presentation by Mrs.Akshatha, Addwize leader Manager,Wipro 3D, Bangalore

Fourth Session (3:30 to 4:30 PM)



Lab Session: File preparation exercise Mr.B.S.Manish, Wipro 3D



Lab Session: File preparation exercise Mr.B.S.Manish, Wipro 3D

Day 3 (28/02/2024)

First Session (09:30 to 11:00 PM)

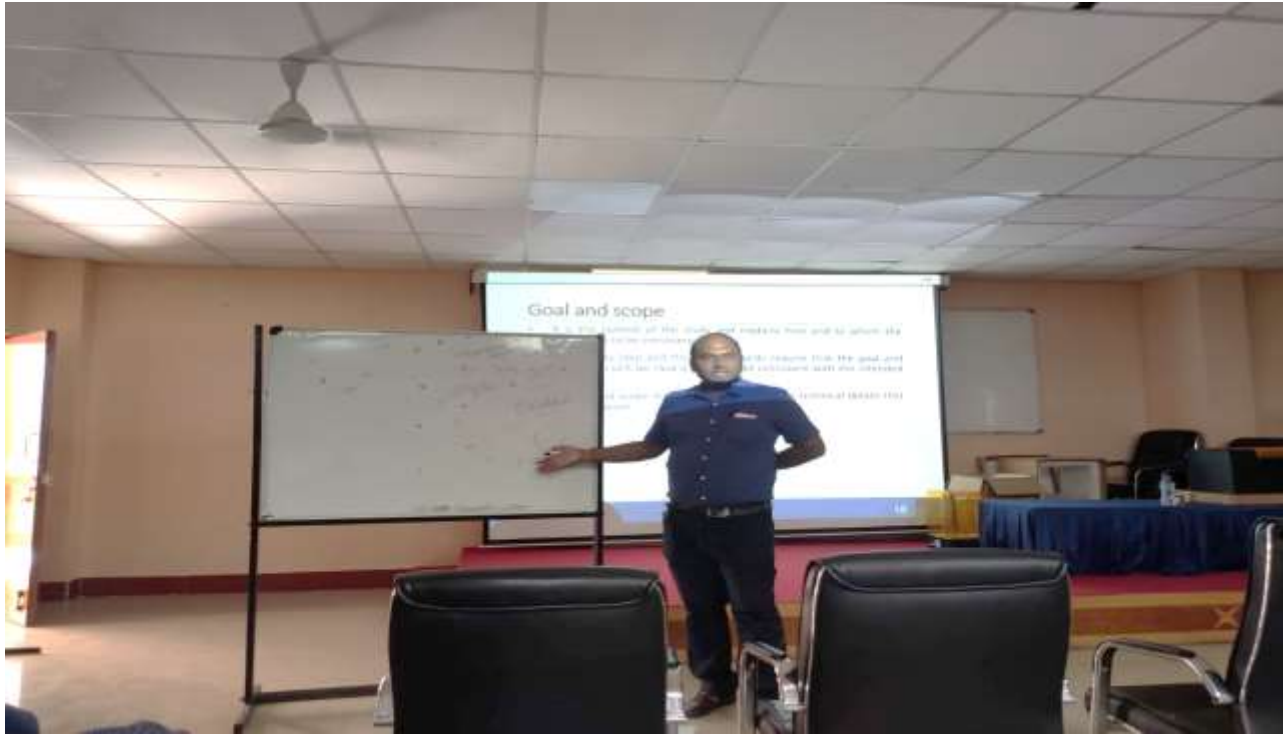


Presentation by Dr.Vasu M, Professor, National Institute of Technology, Tiruchirappalli Tamil Nadu



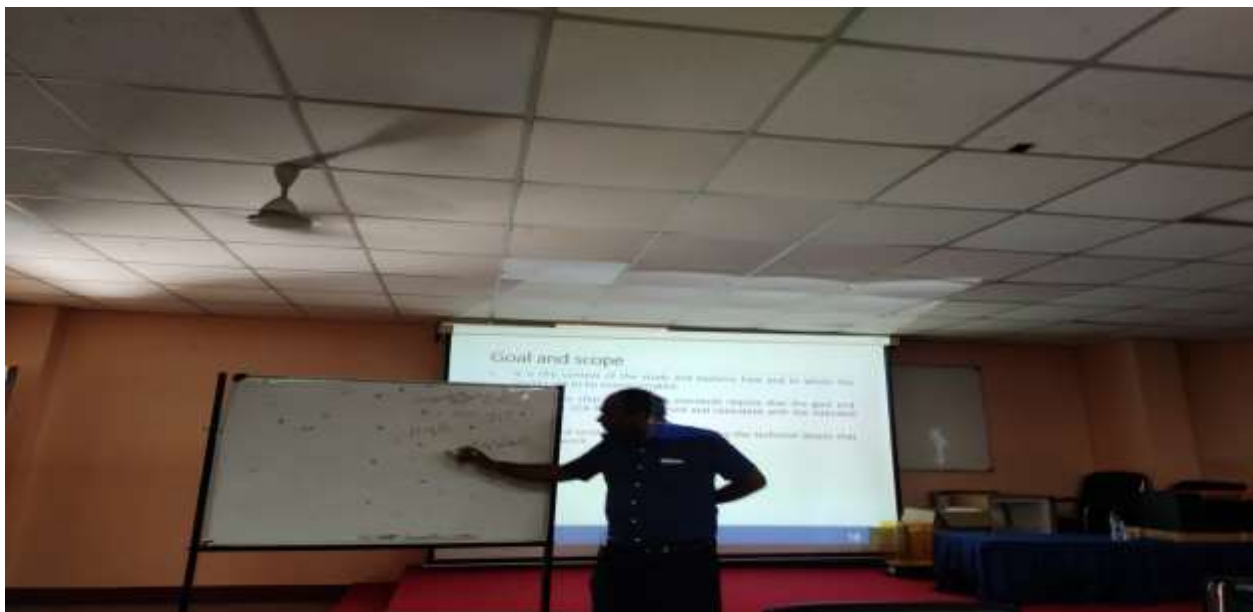
Presentation by Dr.Vasu M, Professor, National Institute of Technology, Tiruchirappalli Tamil Nadu

Second Session (11:15 to 12:45 PM)



Presentation by Dr Dr.S.Vinodh, Professor, National Institute of Technology, Tiruchirappalli Tamil Nadu

Third Session (1:45 to 3:15 PM)



Presentation by Dr.S.Vinodh, Professor, National Institute of Technology, Tiruchirappalli Tamil Nadu

Fourth Session (3:30 to 4:30 PM)



Presentation by Dr. Vasu M, Professor, National Institute of Technology, Tiruchirappalli Tamil Nadu

Day 4 (29/02/2024)

First Session (9:30 to 11:00 AM)



Presentation by Mr.Sai Rakesh Addwize Engineer, Wipro 3D, Bangalore



Presentation by Mr.Sai Rakesh Addwize Engineer, Wipro 3D, Bangalore

Second Session (11:15 to 12:45 PM)



Industrial visit, Wipro 3D, Bangalore



Industrial visit, Wipro 3D, Bangalore



Industrial visit, Wipro 3D, Bangalore

Day 5 (01/03/2024)

First Session (9:30 to 11:00 AM)



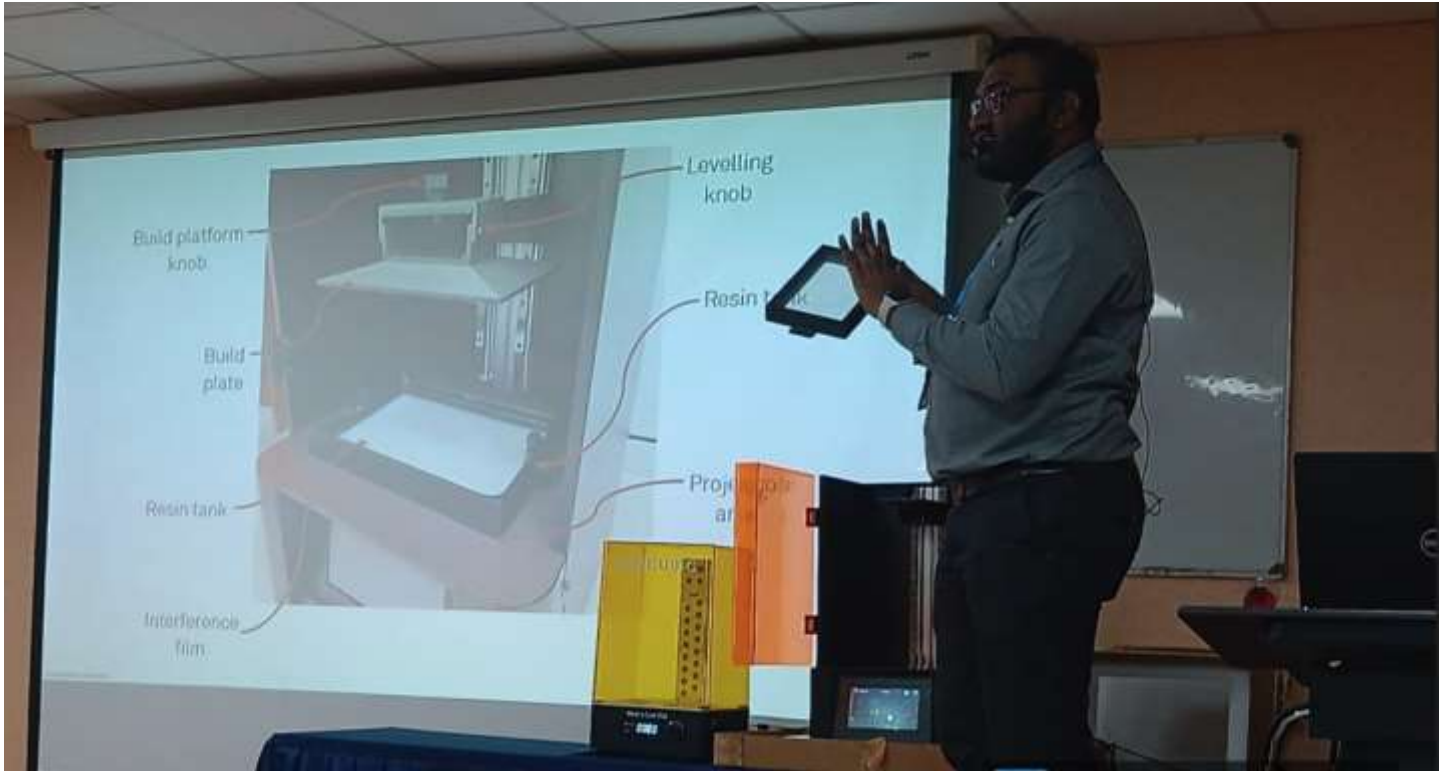
Presentation by Mr.Sai Rakesh Addwize Engineer, Wipro 3D, Bangalore

Second Session (11:15 to 12:45 PM)



Presentation by Mr.Sai Rakesh Addwize Engineer, Wipro 3D, Bangalore

Third Session (11:15 to 12:45 PM)



Presentation by Dr.Chandrashekar A, Professor, BIT, Bangalore

Fourth Session (3:30 to 4:30PM)



Dr.M.Karthikeyan, HOD RA addressing during valedictory function

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Group Photos



Certificate Distribution to participants

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Certificate Distribution to participants



Certificate Distribution to participants

FEEDBACK

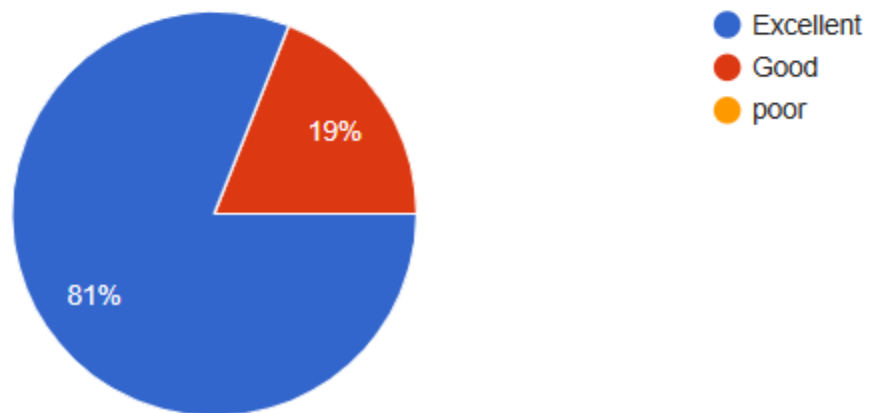
The course contents were relevant to my expectations

100 responses



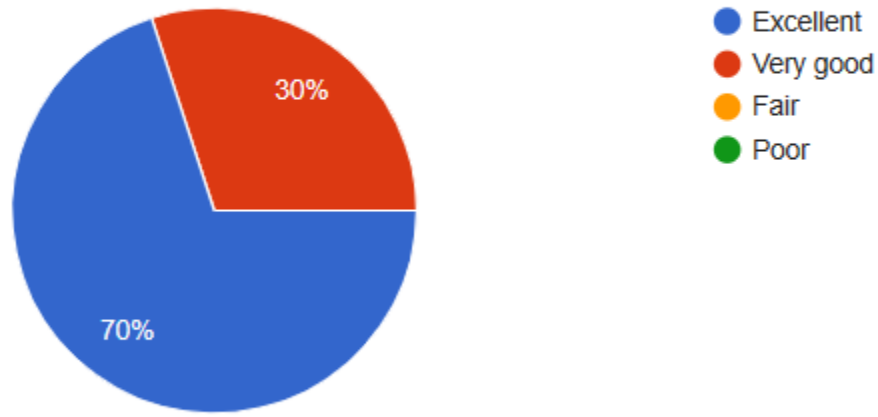
How was explanation / presentation done

100 responses



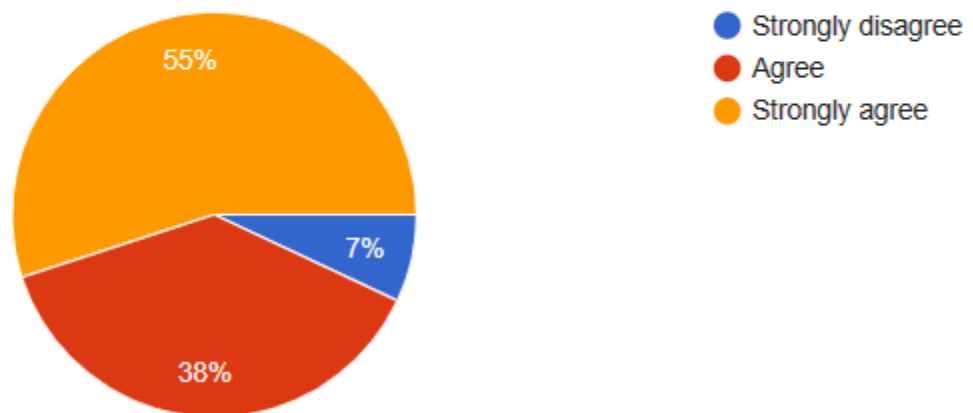
Were sincere efforts put in by the faculty in imparting training

100 responses



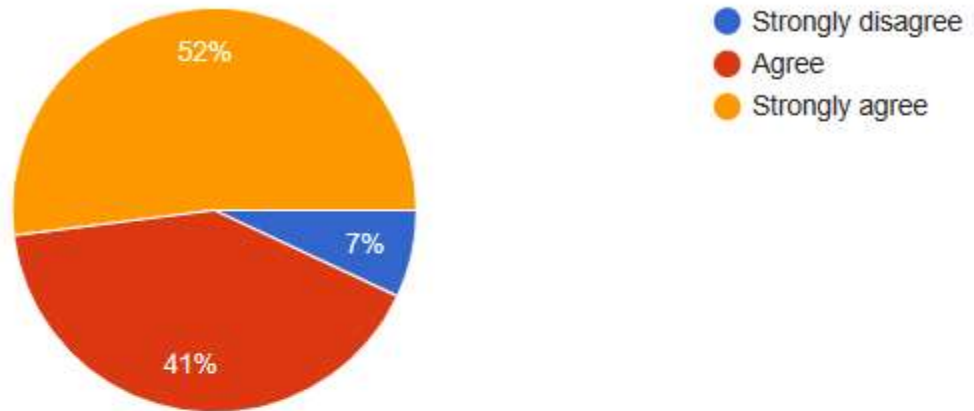
Was subject simplified and made interesting

100 responses



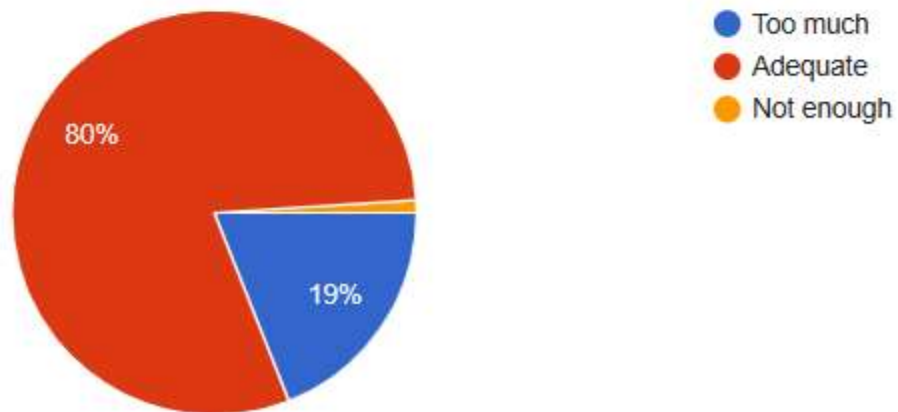
Was the available training time properly utilized

100 responses



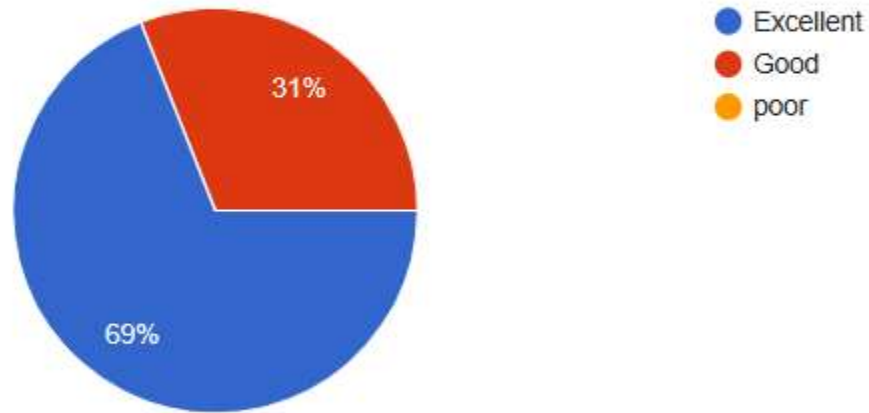
Training Material Provided

100 responses



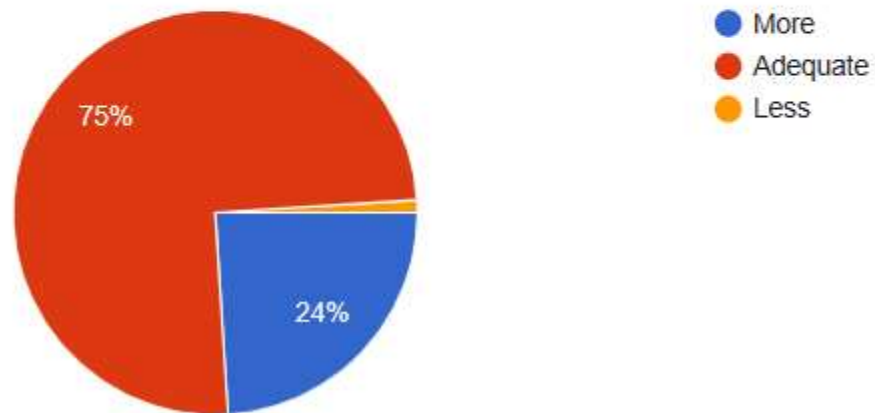
Trainer Interaction with participants

100 responses



Was time given for hands-on practice

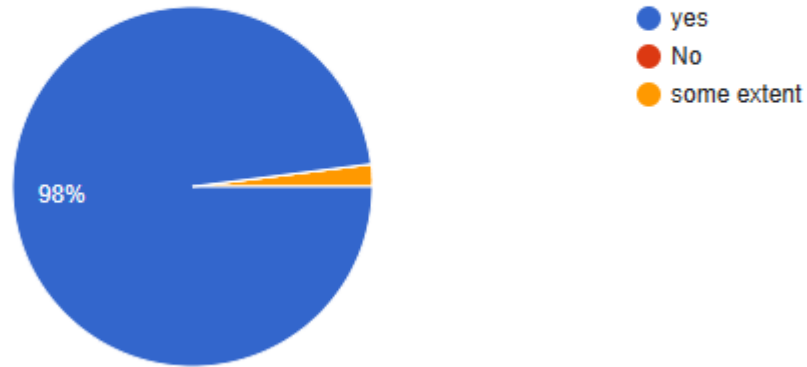
100 responses



Has practical training helped in consolidation of theoretical

learning

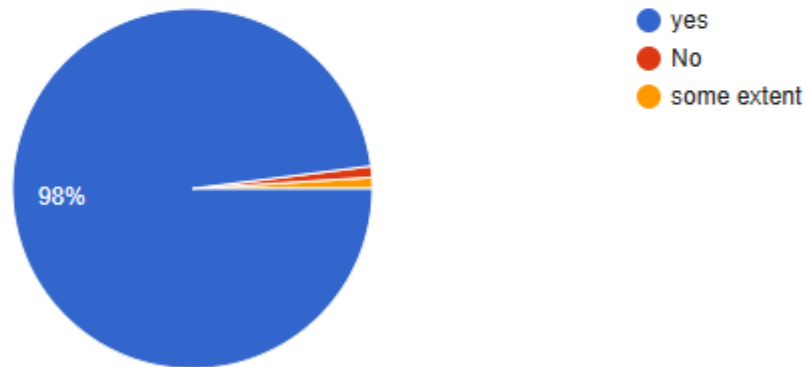
100 responses



The class room facilities & environment was conducive

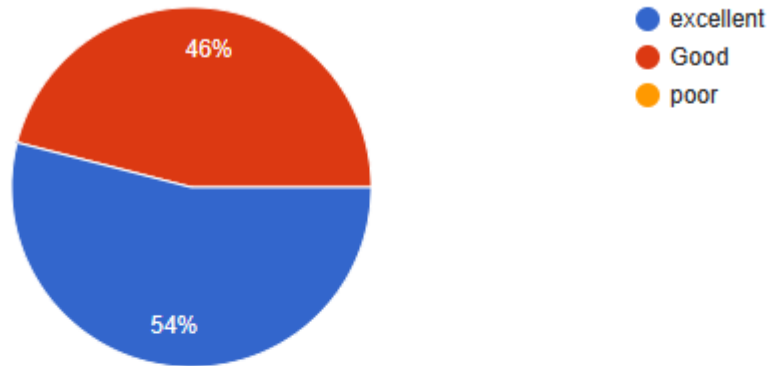
to learning

100 responses



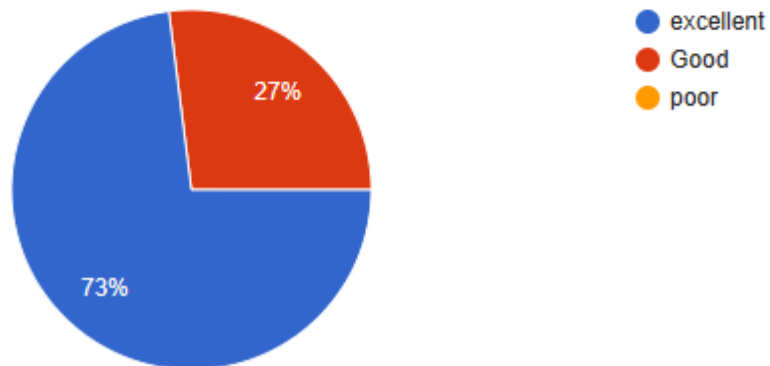
The breakfast / lunch provided was

100 responses



My overall impression about the topic

100 responses



5 Days FDP on “3D Printing and Additive Manufacturing Technology” funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana

Form description

Name of the Participant *

Short answer text

Dept&Designation *

Short answer text

Name of the Institute *

Short answer text

Online Feedback Google form

SAMPLE QUESTIONS FOR ONLINE TEST

Online Test on

5 Days FDP on “3D Printing and Additive Manufacturing Technology” funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.

1. Additive manufacturing uses much less material than other subtractive manufacturing processes. *

- a) True
 - b) False
-

2. Which of the following is typically the cheapest type of 3D printer? *

- a) FDM
- b) SLA
- c) Powder-based
- d) SLM

Sample certificate

RAJARAJESWARI COLLEGE OF ENGINEERING
#14, Ramohalli Cross, Mysore Road, Bengaluru – 560 074

इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY

NCAM
NATIONAL CENTRE FOR ADDITIVE MANUFACTURING

AP GRADE SAAC, ISO 9001:2015, USA


One Week Faculty Development Program
“3D PRINTING AND ADDITIVE MANUFACTURING TECHNOLOGY”


Certificate of Participation

This is to Certify Dr./Mr./Mrs. _____
of _____ has successfully attended
Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology”
conducted by Department of Robotics & Automation and Mechanical Engineering, RRCE, Bengaluru
from 26th February to 1st march 2024 in association with National Centre for Additive
Manufacturing(NCAM)

Dr. Vishwanath K C **Dr. Karthikeyan M** **Dr. Ramesh C** **Mrs. Jaspreet Sidhu** **Dr. Balakrishna R**
Program Convener HOD, Dept. of R & A HOD, Dept. of Mech CEO, NCAM Principal


Coordinator


HOD
Professor & Head
Dept. of Robotics and Automation E.
RajaRajeswari College of Engineering,
Bengaluru-74.


Principal
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

PARTICIPANTS ATTENDANCE

RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramoholli Cross, Kumbalaguda, Bengaluru-560074.

DEPARTMENT OF ROBOTICS & AUTOMATION

DEPARTMENT OF MECHANICAL ENGINEERING

List of participants attended the FDP on “3D Printing and Additive Manufacturing Technology”

Sl No.	Name as per the registration in the AICTE ATAL portal	26/02/2024		27/02/2025		28/02/2026		29/02/2027		1/3/2027		Signature
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	
1	Dr. Sreenidhi Sharma	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree
2	Prof.Ravindra K G	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
3	Dr. K S MADHU	KS	KS	KS	KS	KS	KS	KS	KS	KS	KS	KS
4	Prof.Vinod	Vino	Vino	Vino	Vino	Vino	Vino	Vino	Vino	Vino	Vino	Vino
5	Dr. Archana D P	Archa	Archa	Archa	Archa	Archa	Archa	Archa	Archa	Archa	Archa	Archa
6	Dr. Swetha K B	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha
7	Dr. Chandrashekar A	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand
8	Dr. Babu E R	Babu	Babu	Babu	Babu	Babu	Babu	Babu	Babu	Babu	Babu	Babu
9	Dr. Chanakeshava Naik N	Chan	Chan	Chan	Chan	Chan	Chan	Chan	Chan	Chan	Chan	Chan
10	Prof.Hemanth Kumar	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema
11	Dr. Nagabhushana Narasappa	Naga	Naga	Naga	Naga	Naga	Naga	Naga	Naga	Naga	Naga	Naga
12	Prof.Chethan D	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth	Cheth
13	Prof.Bappugowda	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa	Bappa
14	Dr. M.C. Manjunath	Manj	Manj	Manj	Manj	Manj	Manj	Manj	Manj	Manj	Manj	Manj
15	Dr. Reddappa	Redd	Redd	Redd	Redd	Redd	Redd	Redd	Redd	Redd	Redd	Redd
16	Prof.Premchanda	Prem	Prem	Prem	Prem	Prem	Prem	Prem	Prem	Prem	Prem	Prem
17	Prof.Jagadesha N	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga
18	Prof.Vishwanath B R	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish
19	Prof.Avinash	Avin	Avin	Avin	Avin	Avin	Avin	Avin	Avin	Avin	Avin	Avin
20	Dr. Sivakumar D	Siva	Siva	Siva	Siva	Siva	Siva	Siva	Siva	Siva	Siva	Siva
21	Dr. Ashok kumar	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok	Ashok

Report on Five Days Faculty Development Program on "3D Printing and Additive Manufacturing Technology" 26th Feb to 1st Mar 2024 funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana.

22	Dr. Thejaraju	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg	Tjg
23	Dr. Sowmya	So	So	So	So	So	So	So	So	So	So	So
24	Prof.Manasa G	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn
25	Prof.Anand	And	And	And	And	And	And	And	And	And	And	And
26	Dr. Satheesha V	Satv	Satv	Satv	Satv	Satv	Satv	Satv	Satv	Satv	Satv	Satv
27	Prof.Nithyasree	Nts	Nts	Nts	Nts	Nts	Nts	Nts	Nts	Nts	Nts	Nts
28	Prof.Rajesh G L	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg	Rfg
29	Dr. Rahdakrishna R K	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr	Rkr
30	Prof.Karthik S	Kor	Kor	Kor	Kor	Kor	Kor	Kor	Kor	Kor	Kor	Kor
31	Dr. Karthikeyan M	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr	Mkr
32	Prof.Dhananjya B S	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs	Dbs
33	Prof.Rashmi	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh	Rsh
34	Prof.Suguna G C	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc	Sgc
35	Dr. N. Sreenivasalu reddy	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr	Nsr
36	Dr. Vasanth Kumar	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk	Vsk
37	Dr. Y. J. Manjunath	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm	Yjm
38	Prof.Kamalakar	Kam	Kam	Kam	Kam	Kam	Kam	Kam	Kam	Kam	Kam	Kam
39	Prof.Praveen Kumar S	Pks	Pks	Pks	Pks	Pks	Pks	Pks	Pks	Pks	Pks	Pks
40	Dr. Madhu	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm	Mdm
41	Dr. Sunil Raj	Srj	Srj	Srj	Srj	Srj	Srj	Srj	Srj	Srj	Srj	Srj
42	Prof.Kumar	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg	Pkg
43	Prof.Rakshith	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak	Rak
44	Dr. Sunitha manoj	Smo	Smo	Smo	Smo	Smo	Smo	Smo	Smo	Smo	Smo	Smo
45	Prof.Ramesh S	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm	Rsm
46	Dr. Jobish Johns	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh	Jjh
47	Prof.Abdul Razak	Arz	Arz	Arz	Arz	Arz	Arz	Arz	Arz	Arz	Arz	Arz
48	Prof.Bharath V	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv	Nbv
49	Prof.Arul	Arj	Arj	Arj	Arj	Arj	Arj	Arj	Arj	Arj	Arj	Arj
50	Prof.Nataraj P	Nar	Nar	Nar	Nar	Nar	Nar	Nar	Nar	Nar	Nar	Nar