



AICTE (ATAL) Sponsored

Five Days Online Faculty Development Programme on

3D Printing & Design

07th to 11th December, 2020

Sponsored by
AICTE Training & Learning (ATAL) Academy

Organized by
**Department of Mechanical Engineering
B.S. Abdur Rahman Crescent Institute of Science & Technology
Vandalur, Chennai**

Coordinators

Dr. P.D. Jeyakumar & Dr. A. Arockia Julias

Name of the programme	AICTE (ATAL) sponsored FDP on 3D Printing & Design
Date	07.12.2020 to 11.12.2020 (Five days)
No. of Participants	200
Nature of participants	Participants from 16 states, nearly 50 % of them are from outside Tamil Nadu. More than 150 faculty members out of which 45 Doctorates, 35 students / Research scholars and 10 from industry.

AICTE Sponsored Online FDP on

3D Printing & Design

7th to 11th December 2020

Via GoTo webinar video conference

Organised by Department of Mechanical Engineering
B S Abdur Rahman Crescent Institute of Science & Technology

Coordinators

Dr. P D Jeyakumar, Asso Professor, Department of Mechanical Engineering, BSACIST.

Dr. A Arockia Julias, Asst Professor Sr, Department of Mechanical Engineering, BSACIST.

1. Dr. J. Ramkumar, Professor, Mechanical Engineering, IIT Kanpur
2. Dr. R. Jayaganthan, Professor, Department of Engineering Design, IIT Madras
3. Dr. A. Murugaiyan, Assistant Professor, Joining & Additive Manufacturing Lab, IIT Madras
4. Dr. K. Senthil Kumaran, Assistant Professor, Dept. of Mechanical Engineering, IIITDM Kancheepuram
5. Dr. K. Ponappa, Assistant Professor, Mechanical Engineering, IIITDM Jabalpur
6. Dr. C. P. Paul, Associate Professor, Laser Additive Manufacturing Laboratory, RRCAT, Indore
7. Dr. M. Sugunalakshmi, Sr. Principal Scientist, CSIR – CLRI, Chennai
8. Dr. Joseph Bensingh, Manager & Principal, CIPET, Chennai
9. Dr. S.R. Pandian, Professor & Dean Planning, IIITDM Kancheepuram
10. Dr. T. Vijayakumar, Meditation Trainer & Head, Centre for Value Based Education, Delhi Technological University
11. Dr. Davidson Jebaseelan, Professor, School of Mechanical Sciences, VIT Chennai
12. Mr. Yash Khawade, Project Engineer, Edlocus Solutions, IITM Research Park, Chennai
13. Mr. R. Prithvirajan, CSIR - SRF, Department of Manufacturing Engineering, Anna University, Chennai
14. Mr. Arul Regan, Manager 3D Application, Monotech Systems Ltd, Chennai
15. Mr. Alok Medikepura Anil, Co-founder, Next big innovation lab, Bangalore
16. Mr. J. K. Rohit, Director, NGO- Madras Scientific Research Foundation, Chennai
17. Mr. M. Balasrinivasan, Assistant Professor, Mechanical Dept., BSAR Crescent IST

PREAMBLE

The online FDP on **3D Printing & Design** was sponsored by AICTE through the ATAL scheme. An amount of **Rs 93,000/- was sanctioned** for this program. The workshop was organized by the department of **Mechanical Engineering** through the GoTo Webinar online platform.

The Registration in AICTE ATAL portal for this online FDP was full with maximum limit of **200 participants**. The participants **from 16 states**, nearly 50 % of them are from outside Tamil Nadu. Out of this more than 150 are faculty members, 35 students / Research scholars and nearly 10 are from industry. Faculties from different specializations like electronics, pharmacy also participated and get benefitted.

The online program was **inaugurated on 07.12.2020** through GoTo webinar Video conferencing. Dr. H. Siddhi Jailani, HOD Mechanical welcomed all. Dr. A. Azad, Registrar delivered the presidential address. Dr. M. S. Haji Sheik Mohammed, Dean Academic felicitated. Dr. S. Rasool Mohideen, Dean School of Mechanical Sciences informed about the FDP. Dr. P D Jeyakumar, one of the coordinator of the program introduced the Chief Guest. Dr. J Ramkumar, Professor, IIT Kanpur inaugurated the workshop and delivered the inaugural address. Dr. A Arockia Julias one of the coordinator of the program proposed the vote of thanks.

The **resource persons** are experts in the field from eminent institutions like IIT Madras, IIT Kanpur, IIITDM Kancheepuram, IIITDM Jabalpur, RRCAT Indore, CSIR-CLRI, CIPET, Anna University, VIT, Crescent and Industries like Next big innovation lab and Monotech systems.

The program was conducted for five days from **7th to 11th December 2020**. A total of **17 experts** from various institutions delivered lecture in the 16 sessions conducted. Various topics in the field of Additive Manufacturing such as Additive Manufacturing Principles & Practices, Product & Techniques, Process parameters & Post processing, Digital Manufacturing, lot enabled 3D Printing, Build your own 3D Printer, Design for additive manufacturing, Bio-materials printing, Laser Additive Manufacturing, Stress Management & Meditation and Live demo on 3D Printing were covered by the experts.

All the sessions were attended by more than 130 participants. About 144 participants attended minimum 80 % of the sessions and score more than 60 % marks in the online MCQ assessment conducted as per AICTE guideline. **E-certificates** were issued for these participants through AICTE ATAL portal.

Very good feedback was given for each session by the participants. They appreciated the expertise of the speaker and the way the program was conducted. Overall most of the participants are benefitted from this program.



Coordinator
(Dr. P D Jeyakumar)



Coordinator
(Dr. A. Arockia Julias)



HOD Mechanical
(Dr. H. Siddhi Jailani)

Program Schedule:



AICTE (ATAL) Sponsored FDP on 3D Printing & Design from 7th to 11th December 2020
B S Abdur Rahman Crescent Institute of Science & Technology
Department of Mechanical Engineering
Programme Schedule

Date / Session	Session I 10.00 – 11.15 am	Session II 11.30 am – 12.45 pm	Session III 2.00 – 3.30 pm	Session IV 3.30 – 5.00 pm
07.12.20	Introduction to Additive Manufacturing Dr. J. Ramkumar IIT Kanpur	Products & Techniques for Additive Manufacturing Dr. K. Senthil Kumaran IIITDM Kancheepuram	Process Parameters & Post Processing Dr. Joseph Bensingh, CIPET Chennai	----
08.12.20	Additive Manufacturing Principles & Practices Dr. A. Murugaiyan IIT Madras	Digital Manufacturing for an Efficient Tomorrow Mr. Arul Regan Monotech Systems Ltd	Product Design & 3D Printing Dr. S.R. Pandian, IIITDM Kancheepuram	----
09.12.20	Additive Manufacturing for Bio-Materials Dr. K. Ponappa IIITDM Jabalbur	Laser Additive Manufacturing : Bringing a Paradigm Shift Dr. C.P. Paul RRCAT, Indore	Industry 4.0 Enabled 3D Printing Mr. J K Rohit Madras Scientific Research Foundation	----
10.12.20	Stress Management & Meditation Dr. T. Vijayakumar Meditation Trainer Delhi Technological University	Advances in Additive Manufacturing Dr. M. Sugunalakshmi CSIR - CLRI	Corrosive behaviour of Additively Manufactured super alloys Dr. R. Jayaganthan IIT Madras	Build your own 3D Printing Machine Dr. Davidson Jebaseelan, VIT Chennai Mr. Yash Khawade, Edlocus Solutions IITMRP
11.12.20	Design for Additive Manufacturing Mr. R. Prithvirajan CSIR - SRF	3D Bio-Printing: An Industry Perspective Mr. Alok Medikepura Anil Next big Innovation lab	Live Demo on 3D Printing Machine Mr. M. Balasrinivasan BSAR Crescent IST	Test, Feedback & Valediction Dr. A. Arockia Julias, BSAR Crescent IST

Chief Patron:

Mr. BSA. Arif Buhary Rahman, Chancellor
Mr. Abdul Qadir Abdul Rahman Buhari, Pro-Chancellor

Patron:

Dr. A. Peer Mohamed, Vice-Chancellor in-charge

Co-patron:

Dr. A. Azad, Registrar
Dr. S. Rasool Mohideen, Dean, School of Mechanical Sciences

Convener:

Dr. H. Siddhi Jailani, Professor & Head, Dept. of Mechanical Engineering

Coordinators:



Dr. P.D. Jeyakumar, Associate Professor, Dept. of Mechanical Engineering
Dr. A. Arockia Julias, Assistant Professor, Dept. of Mechanical Engineering

Resource Persons:

1. Dr. J. Ramkumar, Professor, Mechanical Engineering, IIT Kanpur
2. Dr. R. Jayaganthan, Professor, Department of Engineering Design, IIT Madras
3. Dr. A. Murugaiyan, Assistant Professor, Joining & Additive Manufacturing Lab, IIT Madras
4. Dr. K. Senthil Kumaran, Assistant Professor, Dept. of Mechanical Engineering, IIITDM Kancheepuram
5. Dr. K. Ponappa, Assistant Professor, Mechanical Engineering, IIITDM Jabalbur
6. Dr. C. P. Paul, Associate Professor, Laser Additive Manufacturing Laboratory, RRCAT, Indore
7. Dr. M. Sugunalakshmi, Sr. Principal Scientist, CSIR – CLRI, Chennai
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13. Mr. R. Prithvirajan, CSIR - SRF, Department of Manufacturing Engineering, Anna University, Chennai
14. Mr. Arul Regan, Manager 3D Application, Monotech Systems Ltd, Chennai
15. Mr. Alok Medikepura Anil, Co-founder, Next big innovation lab, Bangalore
16. Mr. J. K. Rohit, Director, NGO- Madras Scientific Research Foundation, Chennai
17. Mr. M. Balasrinivasan, Assistant Professor, Mechanical Dept., B S Abdur Rahman Crescent Institute of Science and Technology

Inauguration:

In the name of Allah, the most beneficent, the most merciful
B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Established by the University of B of the UGC Act, 1956
Department of Mechanical Engineering, Registrar &
Department of Mechanical Engineering of
B S Abdur Rahman Crescent Institute of Science & Technology

Cordially invite you for the Inauguration of

AICTE Sponsored Online FDP on

3D Printing & Design

7th December 2020 @ 10.00 am
Via GoToMeeting video conference

Dr. A. Azad
Registrar
Presides

Dr. J. Ramkumar
Professor, IIT Kanpur
has kindly consented to inaugurate the FDP

Dr. M.S. Haji Sheik Mohammed
Dean, Academic Affairs
Felicitates

Dr. S. Rasool Mohideen
Dean, School of Mechanical Sciences
Felicitates

Dr. H. Siddhi Jailani **Dr. P. D. Jeyakumar, Asso. Prof.**
HoD Mechanical Dr. A. Arockia Julias, Asst. Prof. Sr.
Convener Coordinators

#Registration Link: <https://attendee.gotowebinar.com/register/5288124674941279247>

Inauguration of AICTE (ATAL) Sponsored FDP on 3D Printing & Design



Department of Mechanical Engineering
B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Established by the University of B of the UGC Act, 1956
Department of Mechanical Engineering of
B S Abdur Rahman Crescent Institute of Science & Technology

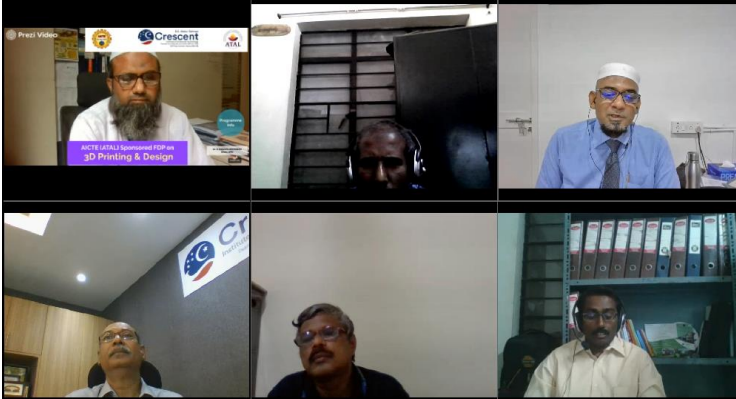
 

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Five Days Online
Faculty Development Programme on
3D Printing & Design

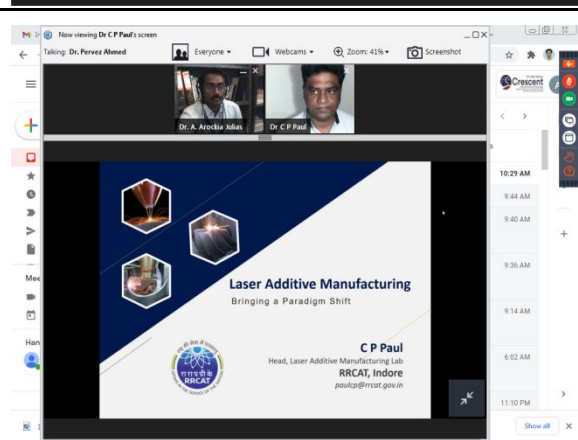
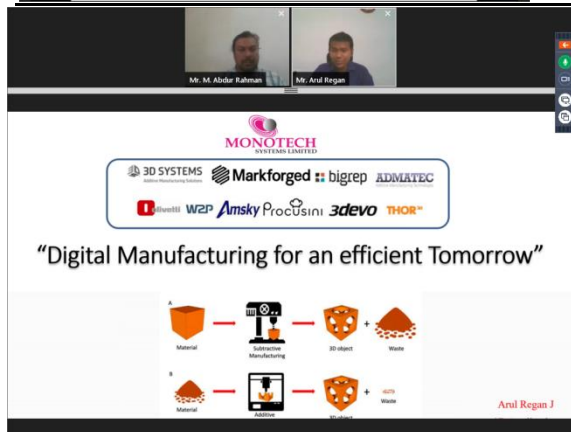
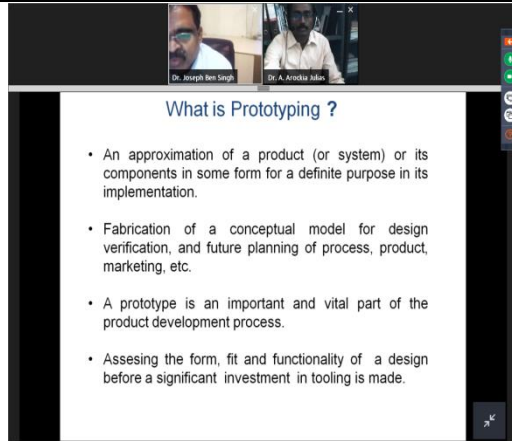
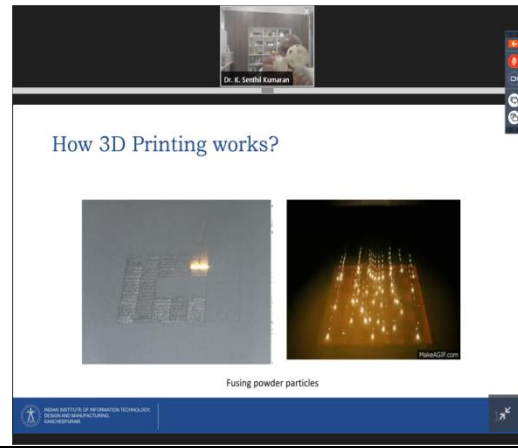
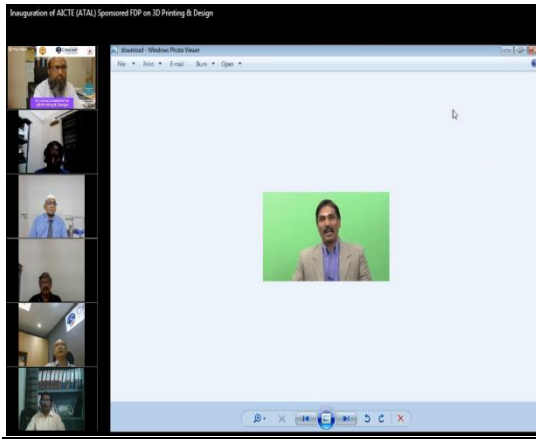
07th to 11th December, 2020

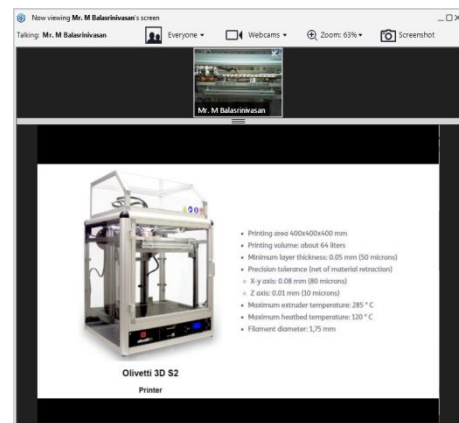
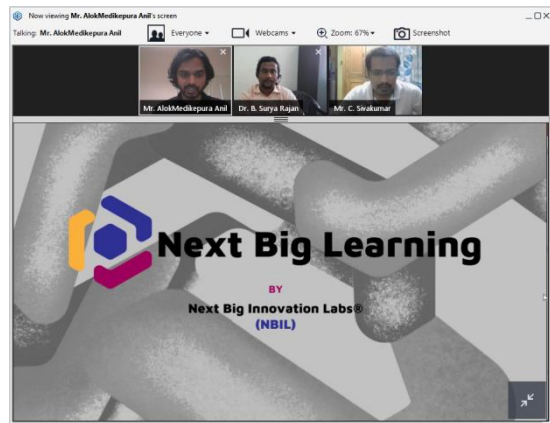
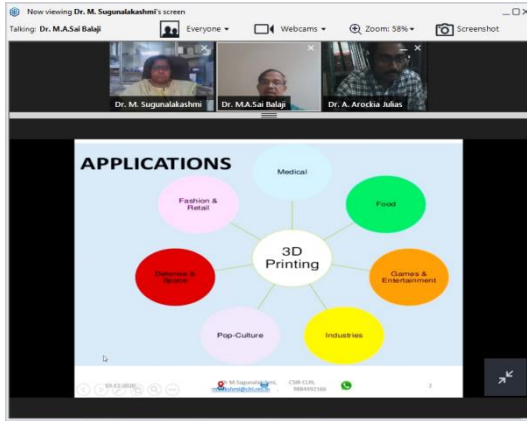
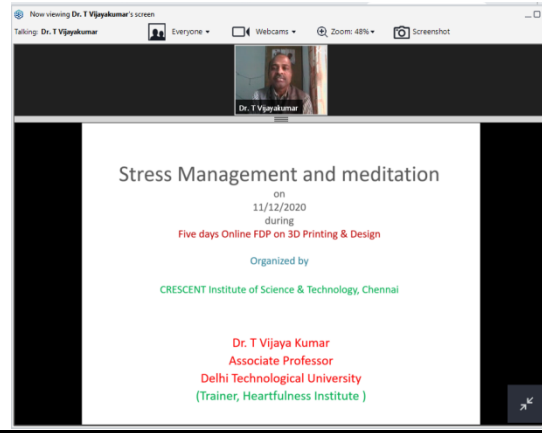
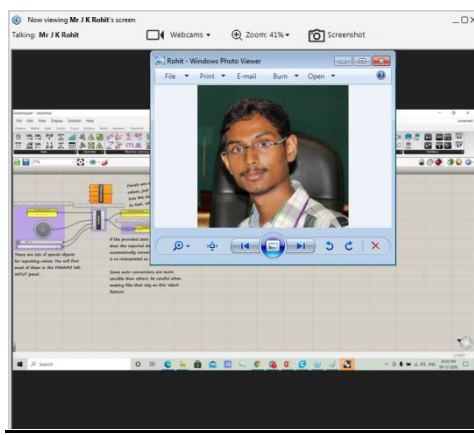
Sponsored by



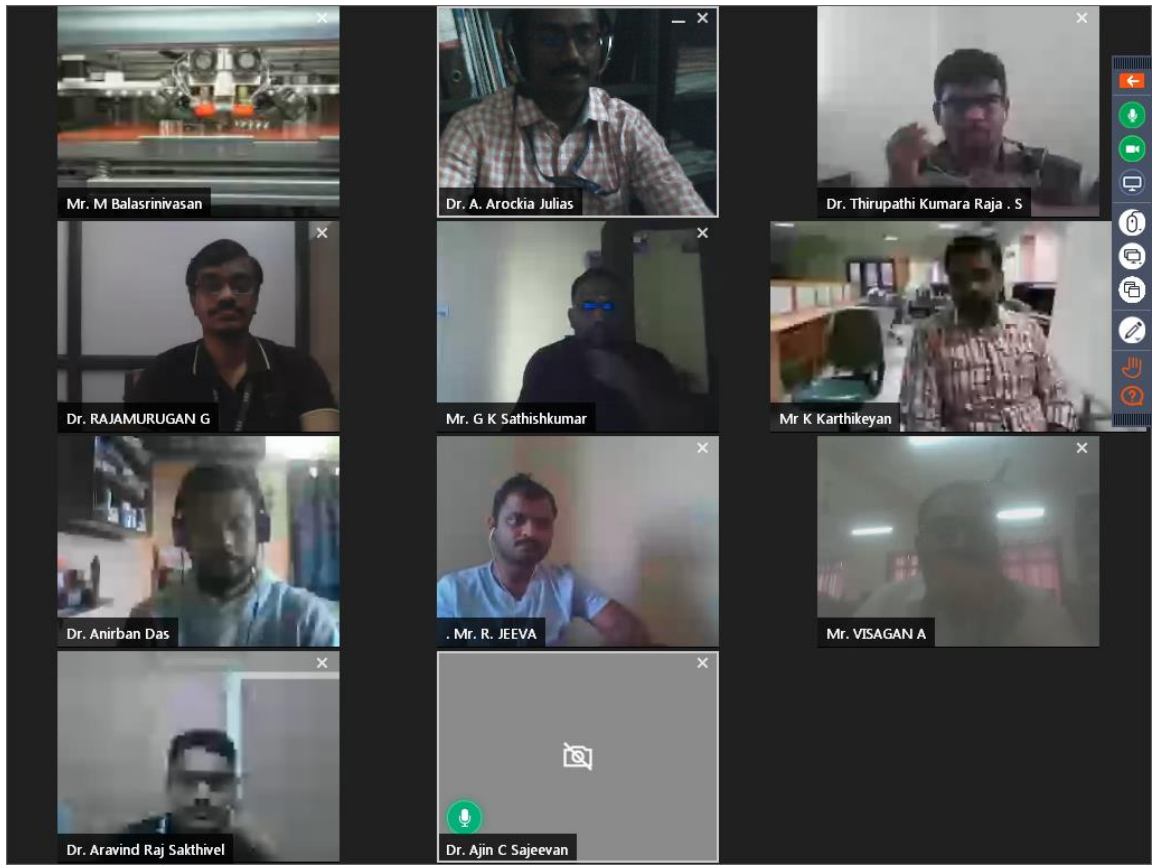
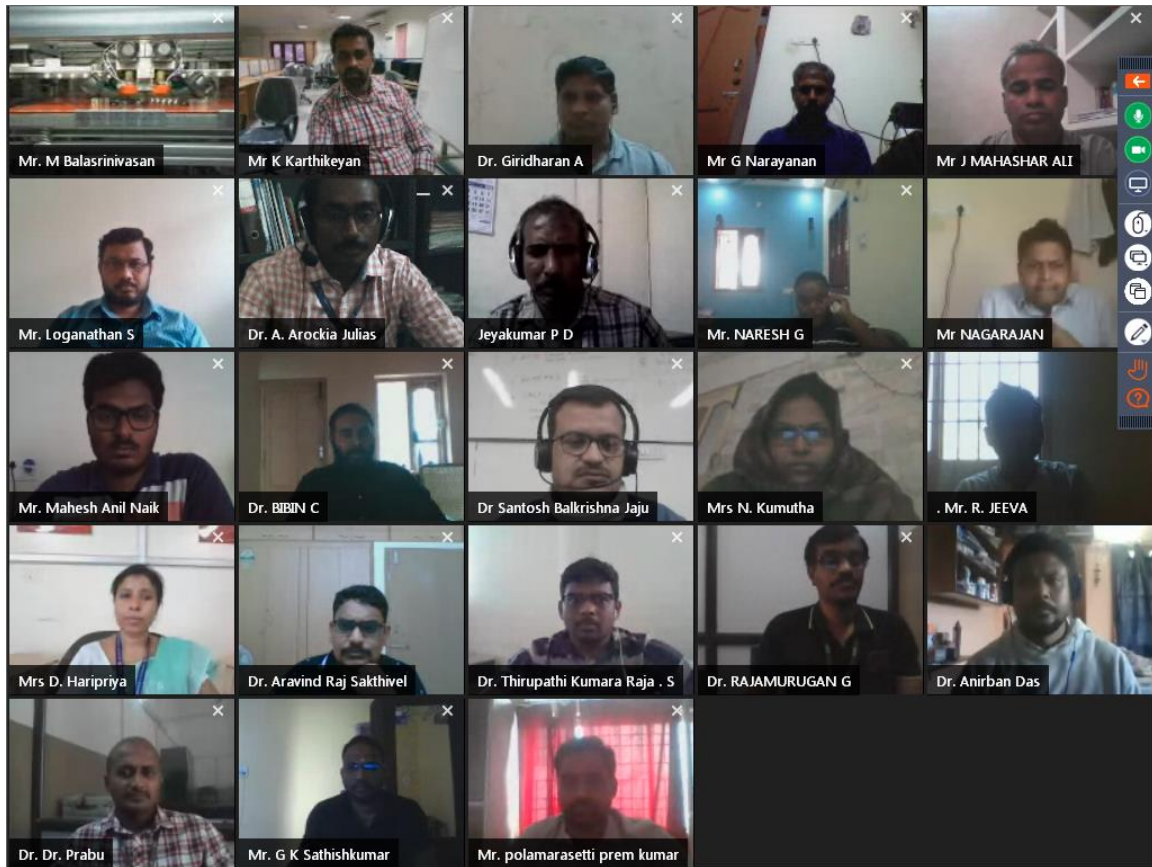
Grid of six video windows showing participants in a Zoom meeting. The top-left window shows a participant with a name tag that reads "AICTE (ATAL) Sponsored FDP on 3D Printing & Design".

Sessions:





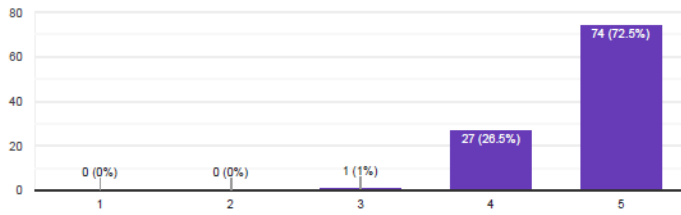
Sample Participants Photo:



Participants Feedback:

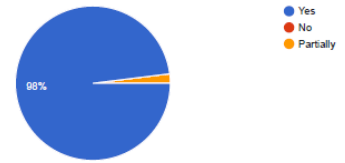
Overall, how would you rate the event? (Minimum 1 - Maximum 5)

102 responses



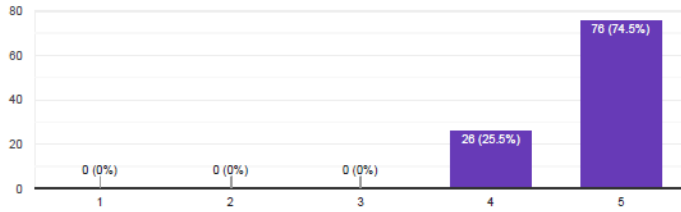
Was the content of the sessions relevant to this FDP?

102 responses



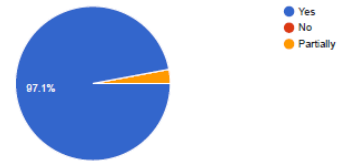
How organised was the workshop? (Minimum 1 - Maximum 5)

102 responses



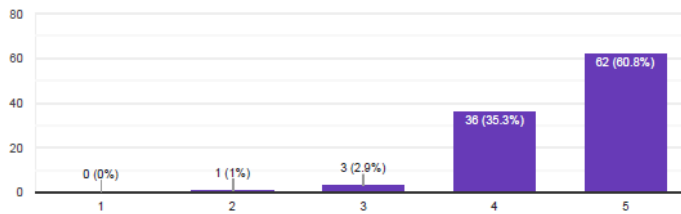
Whether your expectations from this FDP are fulfilled?

102 responses



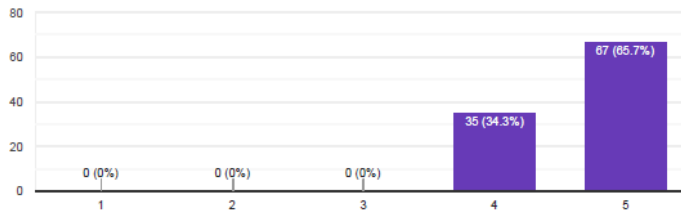
Rate your learning experience (Minimum 1 - Maximum 5)

102 responses



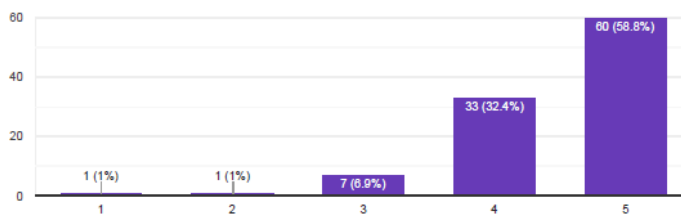
Rate the expertise of the speaker (Minimum 1 - Maximum 5)

102 responses



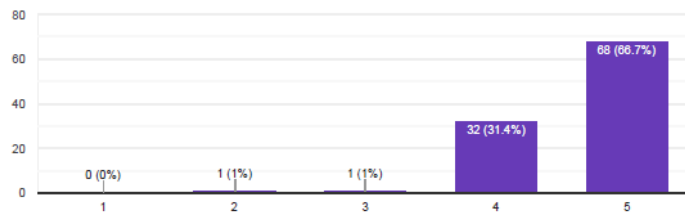
Rate your experience of this online platform GoTo Webinar (Minimum 1 - Maximum 5)

102 responses



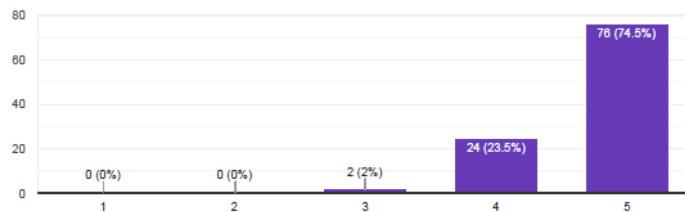
Based on your experience at this event, how likely are you to attend future events?

102 responses



How likely are you to recommend our department events to a friend/colleague?

102 responses



What did you learn from this FDP?

Rapid prototyping, FDM, Techniques and advances in near future wrt to additive manufacturing. select laser sintering, multi jetting
As while got exposed right from the basics of 3d to the live demo. It's awesome a nice experience
Recent developments and various applications in additive manufacturing and designs
3D printing techniques, biomechanics and advanced materials manufacturing
A detailed explanation about 3d printing processes and materials, live working of a 3D printer and current trends in market for this
I am from electronics background. I am able to understand the basics of 3 D printing
The entire concept of 3D printing design and materials usage and future technique as a tool
How to build 3 D printing machine?
3D printing and its real time application in industries

What did you like most about the event?

The demonstration session was very helpful
Practical simulation
Building printer and demo
Industrial applications by startup founders
Experienced speakers
Live demo classes, techniques of additive manufacturing and bio printing
Well Organised Event
Not in specific, as an amateur I learned from all the experts.
Inaugural session Ram kumar sir , ponappa sir session, suguna mam session etc
The overall programme content, coordination and management. The presenters from reputed
Demo session is most useful for understanding process of 3D printing and bioprinting session
Yes. This program is very much useful for my research

Do you have any other suggestions or comments to help us improve our future events?

If offline mode is conducted is very helpful for us
Daily one class over one month with study material availability right after the class
Can change the communication tool next time can be like zoom Microsoft team ...
Get avail the recording of the sessions
Other good online platform may be used in future programs
Lecture PDF should have been shared during the program
Please conduct this program in Zoom or Goggle meet
PPT/PDF material must be shared to participants for the wholistic understanding of any new concept & tech
Provide more hands-on training sessions
Content of the presenters could have been shared on the same day.
Study material should also be provided for recalling the things
The proposed video tool should be easily accessed by all the participants based on their interest to use mobile or laptop for convenience

Sample Certificate:



Attendees

SL No	Name	Institute Name			
					Balkrishna Jaju Engineering Nagpur
			23		Mr. Chandhirasekar B central institute of plastic engineering and technology
			24		Dr. E.SYED MOHAMED B.S.Abdur Rahman Crescent Institute of Science & Technology
1	Mr. RAJARAJAN P C	AAA COLLEGE OF ENGINEERING AND TECHNOLOGY SIVAKASI	25		Mr. RAJAN P AGNI COLLEGE OF TECHNOLOGY
2	Mr. Manoj	Madras Institute of Technology Chennai	26		Dr. T R TAMILARASAN B S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY
3	Mr. P MADAVAN	MIT Campus, Anna University Chennai	27		Mr. K Karthikeyan CSIR-CENTRAL LEATHER RESEARCH INSTITUTE
4	Mr. A. Arunnath	SRM Institute of Science and Technology	28		Mr. J MAHASHAR ALI B S Abdur Rahman Crescent Institute of Science and Technology
5	Mr. P HAJA SYEDDU MASOOTH	SRM Institute of Science and Technology	29		Mr. somalla suresh KG Reddy college of engineering and technology
6	Mr. Nageswaran D	Vel tech high tech de rangarajan dr sakunthala engineering college	30		Mr. Devarajan Mm Thiagarajar college of Engineering
7	Mr. DIVINE SHARON M	CENTRAL INSTITUTE OF PETROLCHEMICALS ENGINEERING & TECHNOLOGY	31		Mrs. Shahitha Parveen BSA Crescent Institute of Science and Technology
8	Mr. Thirumalazhagan DK	CIPET:IPT , CHENNAI	32		Dr. JANCIRANI Anna university
9	Mr. Rajkumar.M	Rajalakshmi Engineering College	33		Mrs. Annagowsalya Production technology department Madras institute of technology Chennai 44
10	Mrs. N. Kumutha	Sudharsan Engineering College, Pudukkottai	34		Mr. Rajmohan Nagarajan BSA Crescent Institute of Science and Technology
11	Mr. Nambi Rajan M	PSN college of engineering and technology	35		Mr. Mahesh Reddy K G Reddy College of Engineering & Technology Moinabad
12	Mr. SIVARAMAN M	VEL TECH HIGH TECH	36		Mrs. D.Haripriya SRM Institute of science and technology,Ramapuram Campus
13	Miss Deepika R	Central Institute of Plastic Engineering & Technology	37		Mr. N KAMESH B S ABDUR RAHMAN Crescent Institute of Science and technology
14	Mr. D Murali Manohar	B S Abdur Rahman Crescent Institute of Science & Technology	38		Mr. SATHICKBASHA K B S Abdur Rahman Crescent Institute of Science and Technology
15	Mr. Vijayavarman V	Central institute of plastic engineering and technology	39		Mr. Prabhjot Singh Chitkara University, Punjab
16	Miss MADHULIKA SRIVASTAVA	Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Chennai, Tamil Nadu	40		Mr. NAGARAJAN Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College
17	Miss Aparna Santhosh Kumar	CIPET(Central Institute of Plastic Engineering and Technology)	41		Mr. G Narayanan ARI
18	Mr. Fazil Madharsha S	SRM	42		Mr. Tej Raj Dev Bhoomi Institute of Technology Dehradun
19	Mr. Golekar Pushkar Ramesh	RMD Sinhgad school of Engineering	43		Mrs. KAVIPRIYA S ADITHYA INSTITUTE OF TECHNOLOGY
20	Mr. Shebin S	Central institute of petrochemicals engineering and technology(CIPET-IPT), Chennai	44		Dr. Surya Rajan B B.S.Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai
21	Mr. SIVA M	st.joseph's college of engineering	45		Mr. ARULMOZHISELVAR S BS ABDUR RAHMAN CRESCENT INSTITUTE OF
22	Dr. Dr Santosh	G H Raisoni College of			

		SCIENCE & TECHNOLOGY	75	Dr. G. NagaMalleswara Rao	Eswar College of Engineering
46	Mr. M Malleswara Rao	Government polytechnic, Visakhapatnam	76	Dr. Ramu Inala	Vishnu Institute of Technology
47	Mr. VAITHA MANITHI PERUMAL T	st Xavier's polytechnic college	77	Mr. Ali Asjad	Madurai Kamaraj University
48	Dr. Aravind Raj Sakthivel	Vellore Institute of Technology	78	Miss Iram Jamshed	Madurai Kamaraj University
49	Mr. MOHAN S R	MOHAMED SATHAK AJ COLLEGE OF ENGINEERING	79	Dr. Ilangovan Arun	Madanapalle Institute of Technology
50	Mr. Harish kumar	DVSIET MEERUT	80	Dr. Anirban Das	College of Engineering and Management Kolaghat
51	Mr. I JOHN SOLOMON	PANIMALAR ENGINEERING COLLEGE	81	Mr. JAIDA PREM KUMAR	Jyothishmathi Institute of Technology and Science
52	Mr. RAMACHANDRAN M G	COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY, CHENNAI 600025	82	Dr. Dalbir Singh	Hindustan institute of technology and science
53	Mrs. MOLLY IRINE.G.S	IFET College of Engineering	83	Mr. SUDHIR KUMAR V	Bannari Amman Institute of Technology
54	Dr. NARENDRANATHAN S K	Agni College of Technology	84	Dr. K.Balachandar	SASTRA
55	Mr. Nagavignesh S	Sri Venkateswara College of Engineering	85	Mr. RAMACHANDRA RAJU	Banbari Amman Institute of Technology
56	Mr. VISAGAN A	MADRAS INSTITUTE OF TECHNOLOGY	86	Mr. JAISON JACOB	Musaliar College of Engineering and Technology, Pathanamthitta
57	Mr. Hariprasath V	Chettinad College of Engineering & Technology	87	Mrs. BOWYA.D	SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE athipalayam,cbe
58	Mr. Banoth srinu	CMR ENGINEERING COLLEGE	88	Mr. CHETHAN KN	MANIPAL INSTITUTE OF TECHNOLOGY
59	Dr. J. PRABHA	Anna University	89	Dr. PANKAJ KHATAK	Guru Jambheshwar University of Science and Technology, Hisar
60	Mr. SATHIYARAJ.S	AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY	90	Dr. Harikrishana Kumar M	Kongu Engineering College
61	Mr. NARESH G	SRM institute of science and technology	91	Mr. Mahesh Anil Naik	Defence Institute of Advanced Technology, Pune
62	Mr. ARUN THANGIRALA	CMR ENGINEERING COLLEGE	92	Dr. Ganapathy Sundaram	Velammal Engineering College, Chennai
63	Mr. Uppalapati sivaramakrishna	CMR ENGINEERING COLLEGE	93	Mr. VISHNUKUMAR M	NIT Trichy
64	Mr. ARIVAZHAGAN R	ROEVER ENGINEERING COLLEGE	94	Miss F. JENO SANDANA BRINA ROUVIER	Saradha Gangadharan College
65	Mr. Raja.S	Noorul Islam Centre For Higher Education	95	Mrs. Hemalatha Naidu	Mallareddy college of engineering for women
66	Dr. N Prakash	Hindustan Institute of technology and science	96	Dr. Prabhat Kumar Srivastava	Babu Banarasi Das University Lucknow
67	Dr. RAJA RAJESWARI NACHIAPPAN	SAVEETHA ENGINEERING COLLEGE	97	Mr. ARIRAJAN K A	NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
68	Dr. Mannan Sayyad	AISSMS College of Engineering, Pune	98	Mr. Namgay Tenzin	CST
69	Dr. Govindan.P	Mailam engineering college	99	Dr. Manohar HS	Dayananda Sagar Academy of Technology and Managment
70	Mr. K.PUHAZLVANAN	SMVEC	100	Mr. DEEPAK KUMAR B N	Dayananda Sagar Academy of Technology and Management
71	Mr. SHAIKH FAYAZ GULAB	NBS INSTITUTE OF POLYTECHNIC AUSA	101	Mr. VELMURUGAN S	ACGCET
72	Dr. GODWIN JOHN J.	Hindustan Institute of Technology and Science	102	Dr. Sellakumar.S	Saveetha Engineering
73	Mr. SOORAJ KV	Government engineering college Kozhikode			
74	Dr. VIKASH KUMAR	ATRI, Hyderabad			

		College	129	Mr. MOGAL ARIF	B.S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY
103	Mr. Vitthal Ramchandra Jumbad	DIEMS			
104	Mr. Divakar Senthilvel	National Institute of Technology Tiruchirappalli	130	Mr. Sharik.N	B.S Abdurrahman University
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