SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT MECHANICAL ENGINEERING

3D PRINTING CLUB ANNUAL REPORT

(Academic Year: 2023 to 2024)

Submitted by
Dr.P.Jayakumar
Associate Professor
Faculty Coordinator

PREFACE

The 3D Printing Club was established to provide a creative and collaborative space for individuals interested in design, innovation, and modern manufacturing technologies. The club serves as a platform where members can explore the fundamentals of 3D printing while developing practical skills in modelling, prototyping, and problem-solving.

Through hands-on projects, workshops, and collaborative activities, the club encourages curiosity, creativity, and technical growth. Members are given opportunities to transform ideas into tangible objects, fostering an understanding of how digital concepts can be brought to life using additive manufacturing.

The club also aims to promote teamwork, knowledge sharing, and responsible use of technology. By engaging with emerging tools and techniques, members are prepared to adapt to the rapidly evolving fields of engineering, design, and technology.

Faculty Coordinator

HoD/Mech

IQAC Coordinator

Director Cum principal

TABLE OF CONTENTS

ABOUT THE INST ITUTE

Sri Manakula Vinayagar Educational Trust was founded to provide quality and affordable education to the weaker sections of society. The trust established Sri Manakula Vinayagar Engineering College (SMVEC) in 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 13 undergraduate, 8 postgraduate and 11 Research programs in engineering. SMVEC has been accredited by NAAC with "A" grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements. To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

Vision

To nurture the cornerstone of excellence in engineering education and drive innovation by seamlessly integrating the fundamentals of Science and Humanities

Mission

M1: Quality Education: To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation: To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

M3: Employability and Entrepreneurship: To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values: To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

ABOUT THE DEPARTMENT

Welcome to the Department of Mechanical Engineering at Sri Manakula Vinayagar Engineering College (SMVEC). Established in 2008, our department focuses on quality education with practical, hands-on learning. Our faculty, many with doctorates, are active researchers who publish extensively. We offer state-of-the-art labs and research groups, preparing well-rounded engineers for the growing demand in manufacturing. We prioritize transparency and student engagement, collaborating with technical and professional societies for a holistic academic experience. As one of the top B.Tech mechanical colleges in Pondicherry, SMVEC is committed to nurturing students to become leaders in the mechanical engineering field.

DEPARTMENT VISION AND MISSION

VISION

The Mechanical Engineering department strives to be recognized as an excellent academic and research center for creating outstanding Engineers, Entrepreneurs and Leaders

Mission

M1: Professional Skills:

To provide quality education to enhance students inter-personal and intra-personal skills

M2: State-of-art facilities:

To render excellent infrastructure facilities and laboratories to excel as skilled professionals

M3: Research Exposure:

To Strengthen Research and Development within the department through industrial associations

M4: Employability:

To put enthusiastic exertions to enhance employability and entrepreneurship skills of students

M5: Human Values:

To empower students with professional ethics and human values to serve the society

ABOUT THE 3D PRINTING CLUB

The 3D Printing Club was formed with the objective of promoting innovation, creativity, and practical learning through additive manufacturing technology. The club provides members with hands-on experience in 3D design, modeling, and printing, helping them understand the real-world applications of this emerging technology.

Throughout the year, the club organized workshops, training sessions, and project-based activities focused on 3D modeling software, printer operation, and material handling. Members actively participated in designing and fabricating prototypes, which enhanced their technical skills and problem-solving abilities.

The club also encouraged teamwork and knowledge sharing among members, creating a collaborative learning environment. By engaging in practical projects, members gained exposure to modern manufacturing techniques and developed an interest in engineering, design, and technology-related fields.

Objective

- Provide members with opportunities to learn and enhance their skills in 3D printing technology. This could include training sessions, workshops, and collaborative projects.
- Foster a community where members can share their knowledge and experiences related to 3D printing.
- Encourage collaboration on 3D printing projects that involve creativity and problem-solving. Members could work together on innovative projects or contribute to larger community initiatives.
- Provide access to 3D printing resources such as printers, materials, and software. This can be particularly beneficial for members who may not have their own equipment.
- Encourage members to explore the cutting edge of 3D printing technology. This might involve research projects, attending conferences, or inviting experts in the field to share their insights.
- Foster a fun and creative atmosphere where members can explore the artistic and design aspects of 3D printing. This might involve contests, exhibitions, or themed projects

OUTCOMES OF THE 3D PRINTING CLUB

- Developed practical skills in 3D modeling, slicing, and additive manufacturing
- Enhanced hands-on experience with 3D printers and related technologies
- Improved creativity, innovation, and design-thinking abilities
- Strengthened problem-solving and critical-thinking skills through projects
- Encouraged teamwork, collaboration, and peer learning
- Increased awareness of real-world applications of 3D printing

OFFICE BEARERS AND THEIR PORTFOLIOS:

S.No	Name	Position
1.	Dr.A.Ganeshkumar Associate Professor /Mech	Staff Coordinators
2.	Mr.P.Jayakumar Associate Professor / Mech	
3.	Hariharan.P	President
4.	Karthikeyan.R	Vice President
5.	Vignesh.R	Secretary
6.	Amalanathan.a	Treasurer

The 3D Printing Club functions through the coordinated efforts of its office bearers, each contributing to the smooth operation and successful execution of club activities. The President provides leadership, plans objectives, and oversees all club operations. The Vice President assists the President and ensures continuity in leadership when required.

The Secretary is responsible for maintaining records, documenting meetings, preparing reports, and managing official communication. The Treasurer handles financial planning, maintains accounts, and ensures transparent utilization of funds for materials, equipment, and events.

LIST OF EVENTS

S. No	Titles of the Events
1	Guest Lecture cum Hands on Training on Unlocking the World of 3D Printing, 3D Scanning and 3D Designing
2	3D Printing Hands on Training

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO PONDICHERRY UNIVERSITY)
(ACCREDITED BY NBA-AICTE, NEW DELHI, ACCREDITED BY NAAC WITH "A" GRADE)
MADAGADIPET, PUDUCHERRY - 605 107

Department of Mechanical Engineering
&
3D Printing Club
Jointly Organized

''Guest Lecture cum Hands on Training on Unlocking the World of 3D Printing, 3D Scanning and 3D Designing''

Date: 26 th October 2024

VENUE

Conference Hall
Sri Manakula Vinayagar Engineering College (SMVEC)
Madagadipet, Puducherry-605107.

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(Approved by AICTE, New Delhi and Affiliated to Pondicherry University)
(Accredited by NBA AICTE, New Delhi, Accredited by NAAC with 'A' Grade)
MADAGADIPET, PUDUCHERRY - 605 107

Department of Mechanical Engineering

22-10-2024
Puducherry

From
Dr.P.Jayakumar
Associate Professor
Department of Mechanical Engineering
Sri Manakula Vinayagar Engineering College
Madagadipet,
Puducherry -605 107.

To
The Director cum Principal
Sri Manakula Vinayagar Engineering College
Madagadipet,
Puducherry -605 107.

Subject: Seeking permission to conduct a Guest lecture -Reg

Respected Sir,

I would like to inform you that the Department of Mechanical Engineering and **3D PRINTING CLUB** is planning to organize **"Guest lecture cum hands on training on Unlocking the World of 3D Printing,3D Scanning and 3D designing"** from 26-10-2024 The guest lecture and hands on training aims to provide valuable insights into the latest developments and applications of additive manufacturing industries.

Mr. R.Rohan CEO, ADDERE CREATION Private Limited, Bangalore Karnataka, is accepted as a chief guest cum resource person of this workshop. We request you to give permission to conduct the event at conference hall and provide an honorarium of Rs 10,000, (including Travel allowance) Shawl, Jute bag and Momento (1 No) to the chief guest. We also request you to provide accommodation to the resource person. We kindly request your approval to proceed with the planning and execution of this event.

Kindly consider my request and do the needful sir.
Thanking You.

Yours Sincerely,

(Dr.P.Jayakumar)

HOD/Mech

Dean Academic's
22/10

Director cum Principal

Short Profile of Shri R.Veeramanikandan

#31, Dorai Swamy Naidu Layout, Pattanagere, Rajarajeshwari Nagar, Bangalore|Bengaluru, Karnataka 560098.

Mr. Rohan R - Profile

Mr Rohan R, Founder & CEO of Addere Creations, started hiscompany in 2017 while pursuing his engineering degree.

With his passion for 3D Printing, Product Design and 3D Scanning, he started as a solopreneur in a 250 sq. ft. garage, which within two years transformed into a space of 2,400 sq. ft. of his own office space, hiring a team of young individuals from different qualifications, along the way.

Now, Addere Creations is one of the leading companies providing its services to over 2,500 clients in more than 36 industry verticals,making their way to be recognized as one of the best upcoming start-ups in India.

Mr Rohan is also a trustee of a six-year-old NGO, working to provide accommodation, nursing care, food, and various otherfacilities to the elderly.

He is a Public Speaker, Educator, Social Worker, and an active member of Business Network International and Rotary.

His vision is to grow, build and establish his company as one of thelargest organizations in our country. His key to success is passion, hard work and dedication in what he does.

Addere Creations

GSTIN: 29CCOPR2981R1Z9

Website: www.adderecreations.com | E-mail: adderecreations@gmail.com | Phone: +91-9972128326

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Department of Mechanical Engineering
&
3D Printing Club
Jointly organised

'Guest Lecture cum Hands on Training on Unlocking the World of 3D Printing, 3D Scanning and 3D Designing'

Date: 26.10.2024 **Time: 11.00 AM** **Venue: Conference Hall**

Program Schedule

Theme

- Welcome address: **Dr.K.Velmurugan**, Dean Research
- Felicitation address: **Dr. A. A. Arivalagar**, Dean Academics (Core)
- Honouring the Dignitaries
- speaker introduction:

  Dr.G.G.Sozhamannan
  Head
  Department Mechanical Engineering
  Puducherry
- Guest Speaker Presentation:

  Shri. R. Rohan
  Founder and CEO
  Addere Creation Pvt Ltd
  Bangalore
- Students Interaction and session Feedback
- Vote of Thanks: **Dr. P.Jayakumar**

  Associate Professor /Mech

REPORT

"Guest Lecture cum Hands-on Training on Unlocking the World of 3D Printing, 3D Scanning, and 3D Designing"

A one-day guest lecture and hands-on training event titled *"Unlocking the World of 3D Printing, 3D Scanning, and 3D Designing"* was held on [date], organized by the Department of Mechanical Engineering and [relevant student or industry chapter]. This event aimed to introduce participants to the transformative potential of 3D technologies, focusing on practical applications and skill development in 3D printing, 3D scanning, and design.

Objectives

The primary objectives of the guest lecture and training were to:

- Introduce participants to the fundamentals and practical uses of 3D printing, scanning, and design technologies.
- Provide hands-on experience in using 3D printers and scanners.
- Highlight the applications of 3D technologies across various industries, such as manufacturing, healthcare, and education.

Program Highlights

Welcome Address

The event commenced with a welcome address by **Dr. K. Velmurugan, Dean Research**, who welcomed the dignitaries, participants, and faculty. He highlighted the importance of learning 3D technologies in the context of modern engineering and research advancements.

Felicitation Address

Following the welcome, **Dr. A. A. Arivalagar, Dean Academics (Core)**, gave the felicitation address, emphasizing the significant role that academic institutions play in equipping students and professionals with skills in emerging technologies like 3D printing, scanning, and design.

Honoring the Dignitaries

The dignitaries and guests were honoured with mementos, recognizing their contributions and commitment to advancing educational initiatives in engineering.

Speaker Introduction

Dr. G. G. Sozhamannan, Head of the Department of Mechanical Engineering at Puducherry, introduced the speaker and provided insights into his contributions to mechanical engineering education and research.

Guest Lecture and Hands on Training

Guest Lecture by Shri. R. Rohan

The lecture covered foundational topics on 3D technologies, including:

- **Introduction to 3D Printing**: Principles behind additive manufacturing, types of 3D printers, and commonly used materials.
- **Applications of 3D Printing**: Case studies showcasing applications in prototyping, production, and customization across industries.
- **3D Scanning Fundamentals**: Techniques in capturing digital models from physical objects, including discussions on accuracy and application.
- **3D Designing Basics**: Introduction to 3D modelling software, covering essential tools and model preparation.

Hands-on Training

1. **3D Printer Setup and Calibration**: Participants were introduced to setting up, calibrating, and troubleshooting 3D printers.
2. **3D Scanning Exercise**: A practical demonstration of 3D scanning techniques, with participants capturing digital models.
3. **3D Design Activity**: A session on creating simple 3D models, followed by preparing these models for 3D printing.

Feedback and Conclusion

The event concluded with a feedback session, where participants shared their learning experiences and provided suggestions for future workshops, such as focusing on advanced 3D design and sector-specific applications. The hands-on exposure and the practical relevance of the event were appreciated by attendees.

Vote of Thanks

The program concluded with a formal vote of thanks delivered by **Dr. P. Jayakumar**, who expressed gratitude to the dignitaries, participants, and organizers for making the event a success. He acknowledged the valuable contributions of the guest speakers and the commitment of the organizing team in delivering an insightful and impactful session.

Learning Outcomes

- Comprehensive understanding of 3D printing, scanning, and designing fundamentals.
- Hands-on experience with 3D printing and scanning equipment.
- Familiarity with 3D design software and model preparation.
- Networking opportunities with peers and industry experts in 3D technology.

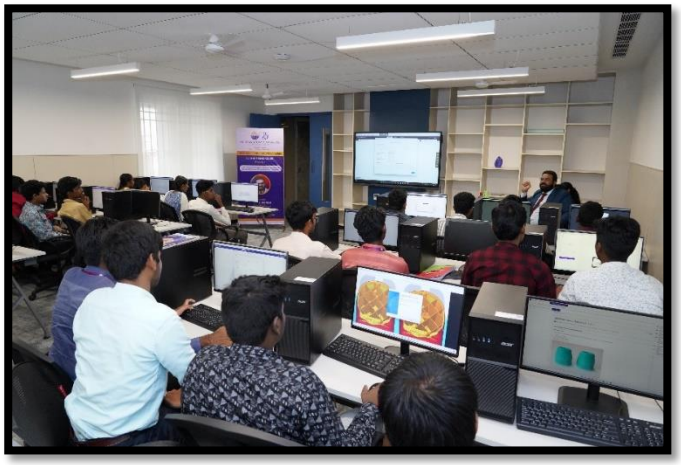
Welcome Address by Dr.K.Velmurugan Dean(research)

Felicitation Address by Dr. A.A. Arivalagar Dean Academics

Chief Guest introduction By Dr.G.G.Sozhamannan HoD/Mech

Honouring the Dignitaries by Deans

Participants of Guest lecture Presentation

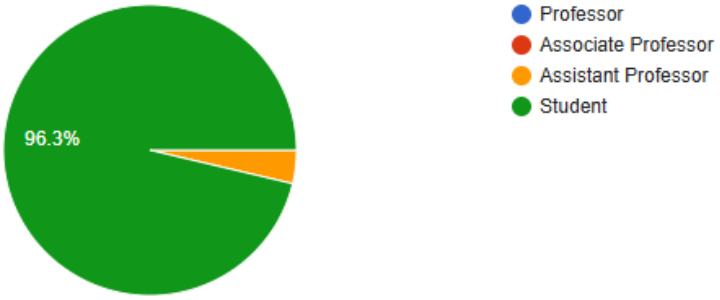


Hands on Hands on Training in Slicing Software and 3D Printing

Participants Feedback about the Workshop

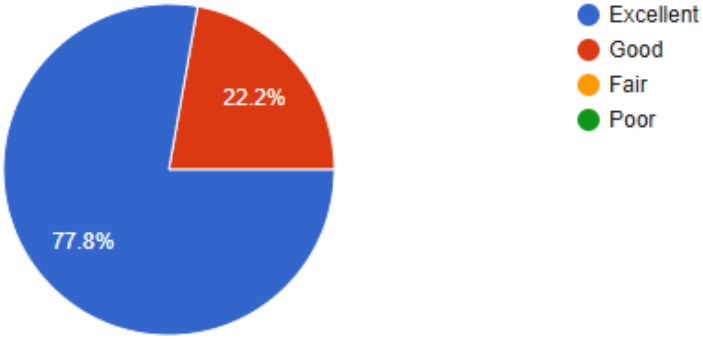
Designation

27 responses



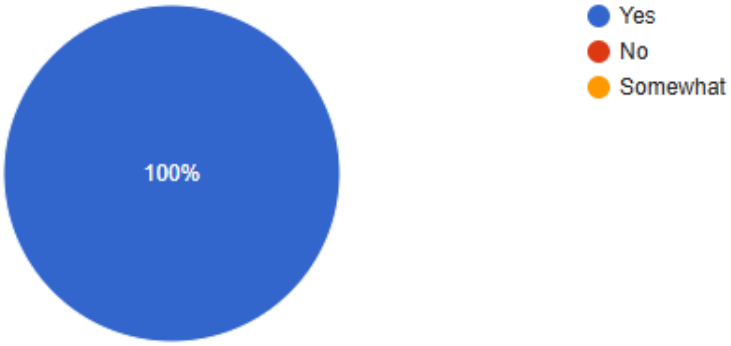
How would you rate the overall quality of the Guest Lecture content?

27 responses



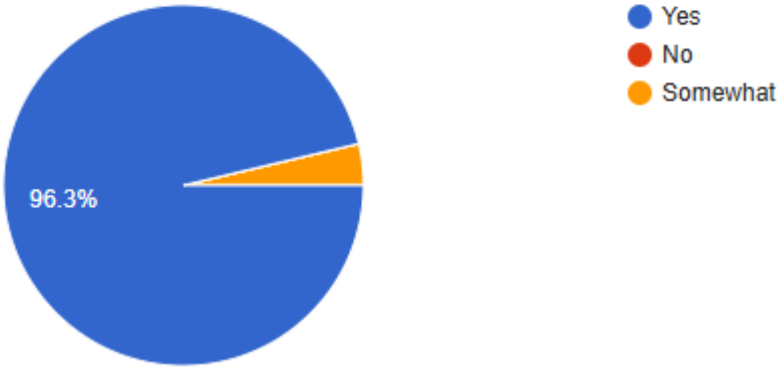
Was the information presented clear and easy to understand?

27 responses



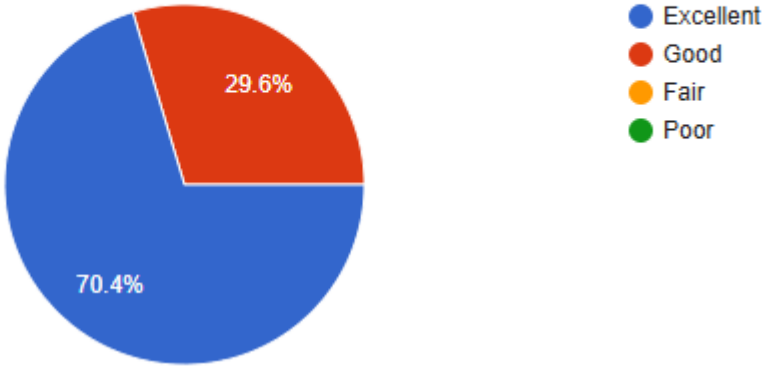
Was the content relevant to your area of interests and needs?

27 responses



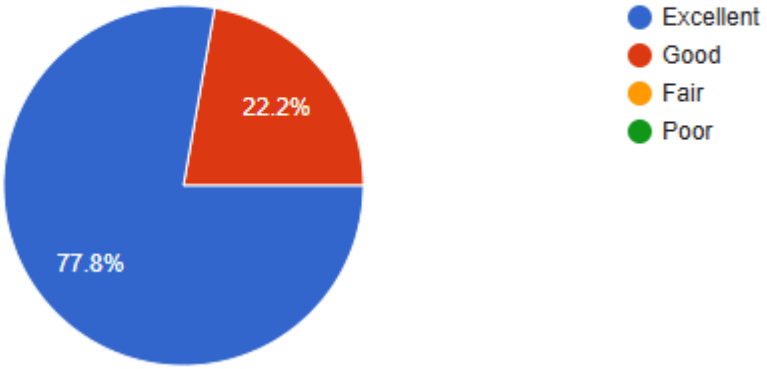
How would you rate the overall quality of the presentations?

27 responses



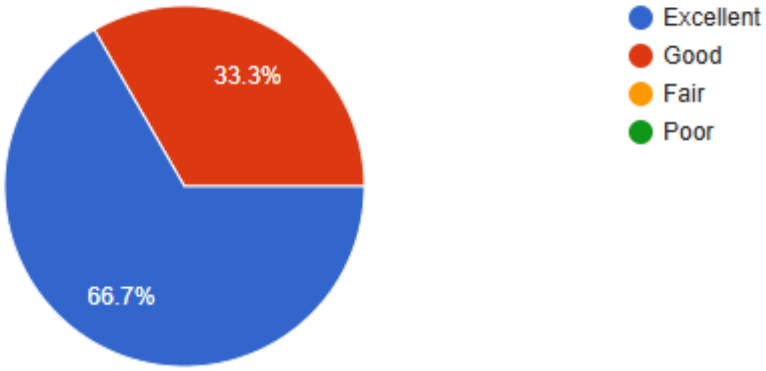
How would you rate the knowledge and expertise of the speakers?

27 responses



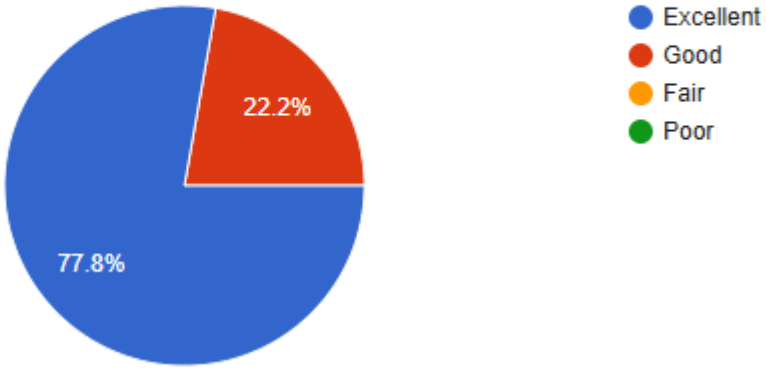
How engaging and interactive were the presentations?

27 responses



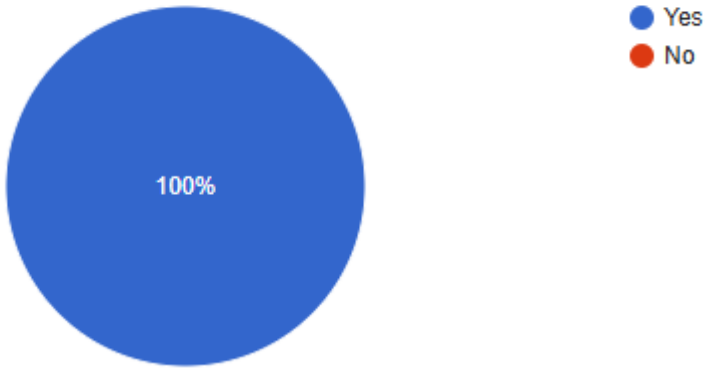
How would you rate the organization of the Guest Lecture?

27 responses



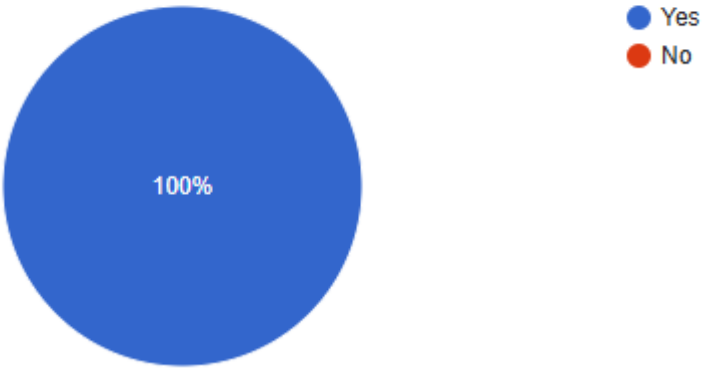
Was the duration of the Guest lecture appropriate?

27 responses



Do you like to attend similar Guest Lecture in future

27 responses



Program Coordinator **HOD/MECH** **Dean Academics**

Director Cum principal

News published in Local Newspaper

8 ★ • Thamizh Murasu • Puducherry • 5.11.2024

மணக்குள விநாயகர் கல்லூரியில் தொழில்நுட்ப பயிற்சி

புதுச்சேரி, நவ. 5- மதகடிப்பட்டு ஸ்ரீ மணக்குள விநாயகர் பொறியியல் கல்லூரியின் எந்திரவியல் துறை சார்பாக 3D பிரிண்டிங் குறித்த தொழில்நுட்ப செய்முறை பயிற்சி நடைபெற்றது.

தலைவர் மற்றும் மேலாண் இயக்குனர் தன சேகரன், செயலாளர் நாராயணசாமி, பொருளாளர் ராஜராஜன், கல்லூரியின் இயக்குனர் மற்றும் முதல்வர் வெங்கடாஜலபதி ஆகியோர் பயிற்சி வகுப்பை துவக்கி வைத்தனர். டீன் வேல்முருகன் அனைவரையும் வரவேற்றார். கல்லூரியின் டீன் அறிவழகர் வாழ்த்துரை வழங்கினார். இந்த பயிற்சி வகுப்பை பெங்களூரை சார்ந்த அடர் கிரியேஷன் பிரைவேட் லிமிடெட் இன் தலைமை செயல் அதிகாரி ரோகன் கலந்து கொண்டு மாணவர்களுக்கு 3D பிரிண்டிங் துறையின் முக்கியத்துவத்தையும், எதிர்காலத்தில் அதனுடைய வளர்ச்சி மற்றும் அதில் கொட்டிக் கிடக்கும் வேலை வாய்ப்புகள் குறித்து விரிவாக விளக்கினார்.

மேலும் 3D பிரிண்டிங் இன் நவீன தொழில்நுட்ப பங்களான 3D டிசைனிங், 3D ஸ்கேனிங் குறித்து செய்முறை பயிற்சி அளித்தார். எந்திரவியல் துறைத்தலைவர் பேராசிரியர் சோழ மன்னன் அனைவருக்கும் நன்றி கூறினார். விழாவிற்கான ஏற்பாடுகளை எந்திரவியல் துறை பேராசிரியர்கள் மற்றும் மாணவர்கள் சேர்ந்து செய்திருந்தனர்.

மதகடிப்பட்டு மணக்குள விநாயகர் பொறியியல் கல்லூரியில் தொழில்நுட்ப செய்முறை பயிற்சி நடந்தது.

Activity: 02

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF MECHANICAL ENGINERRING

3D PRINTING CLUB

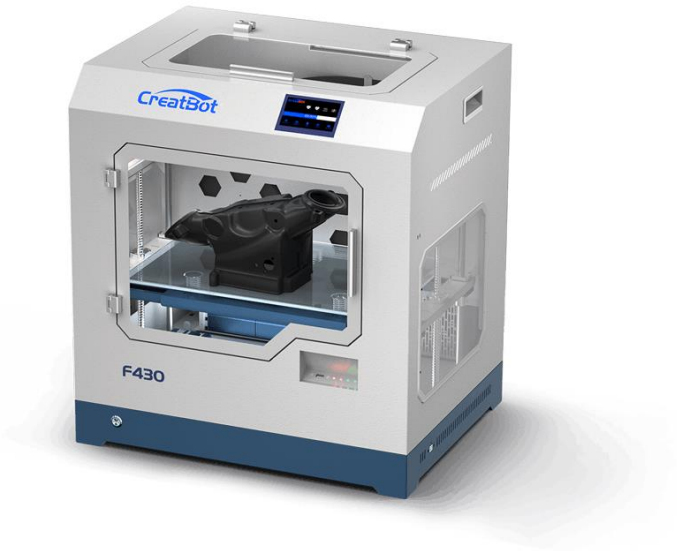
REPORT

ON

3D Printing Hands on Training

For

THIRD YEAR MECHANICAL STUDENTS



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(AN AUTONOMOUS INSTITUTION)

Department of Mechanical Engineering

SMVEC/ODD/2024-2025/MECH/Circular/3D Printing club1

Date: 09/08/2024

Circular

Dear 3D Printing Club members,

We are glad to inform you that the Department of Mechanical Engineering and "3D PRINTING CLUB SMVEC" is going to organize Hands on Training titled **" 3D Printing Hands on Training "** on 10-08-2024(Saturday).The objective of this event to provide basic fundamentals of 3D Printer and its classification. We encourage all club members to participate in the event.

Event Detail: **3D Printing Hands on Training**
Date : 10/08/2024
Venue : IDEA LAB SMVEC.
Time : 10.30 AM

Club Co-coordinator

Head of the Department

Copy to:

Circulate III year students

File

3D PRINTING CLUB

Objective

- Provide members with opportunities to learn and enhance their skills in 3D printing technology. This could include training sessions, workshops, and collaborative projects.
- Foster a community where members can share their knowledge and experiences related to 3D printing.
- Encourage collaboration on 3D printing projects that involve creativity and problem-solving. Members could work together on innovative projects or contribute to larger community initiatives.
- Provide access to 3D printing resources such as printers, materials, and software. This can be particularly beneficial for members who may not have their own equipment.
- Encourage members to explore the cutting edge of 3D printing technology. This might involve research projects, attending conferences, or inviting experts in the field to share their insights.
- Foster a fun and creative atmosphere where members can explore the artistic and design aspects of 3D printing. This might involve contests, exhibitions, or themed projects

Name of the Activity	**: 3D Printing Hands on Training**
Name of the Faculty Coordinator	: Dr.P. Jayakumar
Date & Day of the Activity	: 10/08/2024, Saturday
Duration	: 10.30 am to 12.30 p.m.
Venue	: AICTE IDEA LAB
Number of Students participated	: 33

3D Printing Club Objective

- Provide members with opportunities to learn and enhance their skills in 3D printing technology. This could include training sessions, workshops, and collaborative projects.
- Foster a community where members can share their knowledge and experiences related to 3D printing.
- Encourage collaboration on 3D printing projects that involve creativity and problem-solving.
- Members could work together on innovative projects or contribute to larger community initiatives.
- Provide access to 3D printing resources such as printers, materials, and software.
- Foster a fun and creative atmosphere where members can explore the artistic and design aspects of 3D printing. This might involve contests, exhibitions, or themed projects

Objectives of the Activity

- The objective of event is to is to get awareness about the basics of 3D Printer and operation and also to know about future of 3D Printing.

Outcome of the Activity

- Learn about the various parts of 3D Printer.
- Learn about the various types of 3D Printer and its benefits.
- Learn about design concept and conversion of 3D Printer file.

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF MECHANICAL ENGINEERING

&

3D PRINITNG CLUB

EVENT NAME: 3D Printing Hands on Training

DATE : 10.08.2024

Sl.No	Name of the Student	Department	College name	Signature
1	P. Hgresh	Mechanical	SMVEC	
2	K. Bharath	Mechanical	SMVEC	
3	S. SUBYAA	Mechanical	SMVEC	
4	S. THAICHANAMOORTHY	MECHANICAL	SMVEC	
5	P. Valavan Arasu	Mechanical	SMVEC	
6	Thanush	Mechanical	SMVEC	
7	V. SARVIN.	Mechanical	SMVEC	
8	B. Sanjay	Mechanical	SMVEC	
9	A. Don Francis	Mechanical	SMVEC	
10	V. Tamil Selvan	Mechanical	SMVEC	
11	B. Pooravan	Mechanical	SMVEC	
12	B. Praveen	Mechanical	SMVEC	
13	S. Hukeshkumar	Mechanical	SMVEC	
14	R. Balachander.	Mechanical	SMVEC	
15	M. Sandeep kumar	Mechanical	SMVEC	
16	B. SANJAI BALA	MECHANICAL	SMVEC	
17	Surya. B	Mechanical	SMVEC	
18	V. Kandhavel	Mechanical	SMVEC	
19	G. Manikandan	Mechanical	SMVEC	
20			SMVEC	
21	B. Dhairani	Mechanical	SMVEC	
22	T. Idris	Mechanical	SMVEC	
23	S. Gowdham	Mechanical	SMVEC	
24	G. SANJAY	Mechanical	SMVEC	
25	G. Pugazhendi	Mechanical	SMVEC	
26	SARVESWARAN. M	Mechanical	SMVEC	
27	J. SUKANTHAN	MECHANICAL	SMVEC	
28	J. VISHVA	MECHANICAL	SMVEC	
29	Y. ARIEF	B.Tech Mechanical	SMVEC	
30	Abdul Rafi	B.Tech Mechanical	SMVEC	

Signature of HOD

Signature of Coordinator

Photo Galley

3D PRINTER DEMONSTARTION

Content of the topic covered:

- ❖ Introduction of 3D and 3D printing
- ❖ Concepts of 3D design
- ❖ Over view 3D modeling software
- ❖ Slicing software
- ❖ Choice of Material

SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

Department of Mechanical Engineering

3D PRINTING CLUB

FUNDAMENTALS OF 3D PRINTER

As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

Name of the Speaker : **Dr P Jayakumar**, Tech Guru, AICTE IDEA LAB, SMVEC

Event Name : 3D Printing Hands on Training

Date : **10-08-2024**

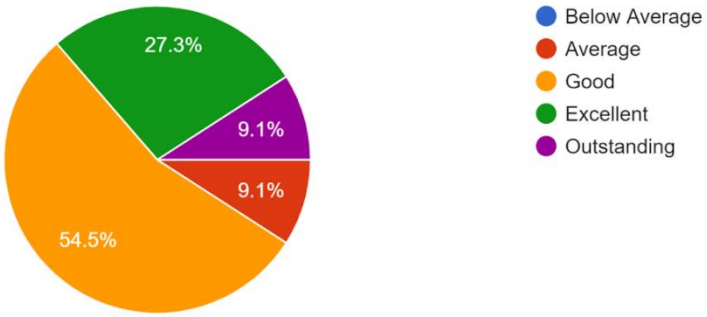
Students are required to rate the speaker on the following attributes using the 3 –point scale shown.

PARAMETER	Strongly Agree	Agree	Disagree
This speaker was interesting.	**A**		
This speaker provided information I can use to be successful in my career		**B**	
The speaker explained the topic clearly and used relevant examples	**A**		
Speaker positively influenced my view towards the topic	**A**		
The objectives for the class were stated clearly at the beginning of the class	**A**		

Name & Signature of the student:

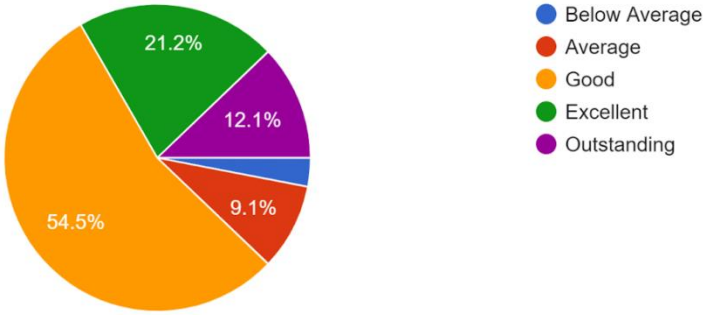
The choice of topic was relevant to me

33 responses



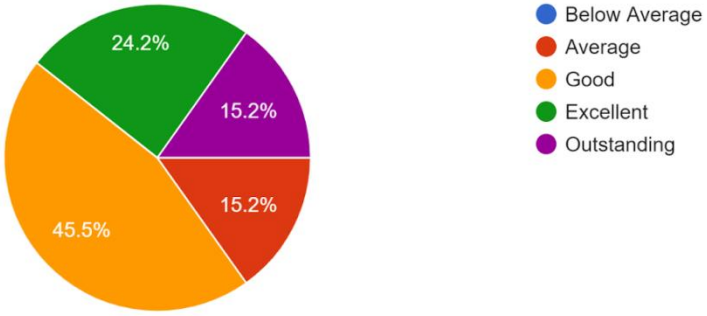
Self-confidence

33 responses



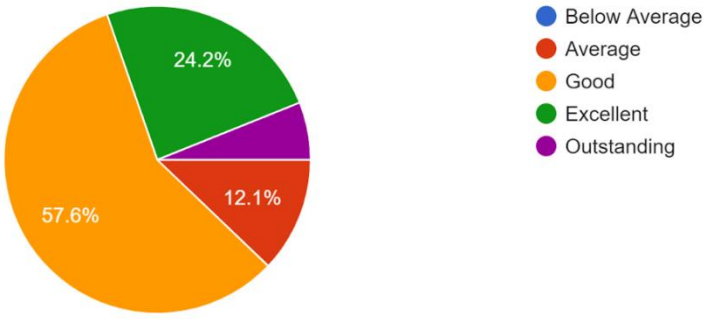
Refers to latest developments in the field

33 responses



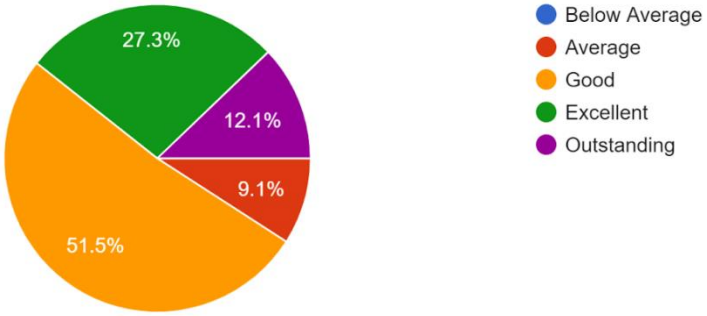
Career oriented

33 responses



Innovative learning, if any

33 responses



Staff In-charge **HOD** **Dean (core)**