



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)



DEPARTMENT MECHANICAL ENGINEERING

3D PRINTING CLUB ANNUAL REPORT

(Academic Year: 2024 to 2025)



Submitted by
Dr.P.Jayakumar
Associate Professor
Faculty Coordinator

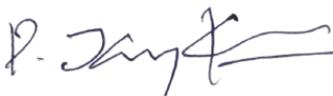


PREFACE

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**

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ABOUT THE INSTITUTE

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.



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.

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

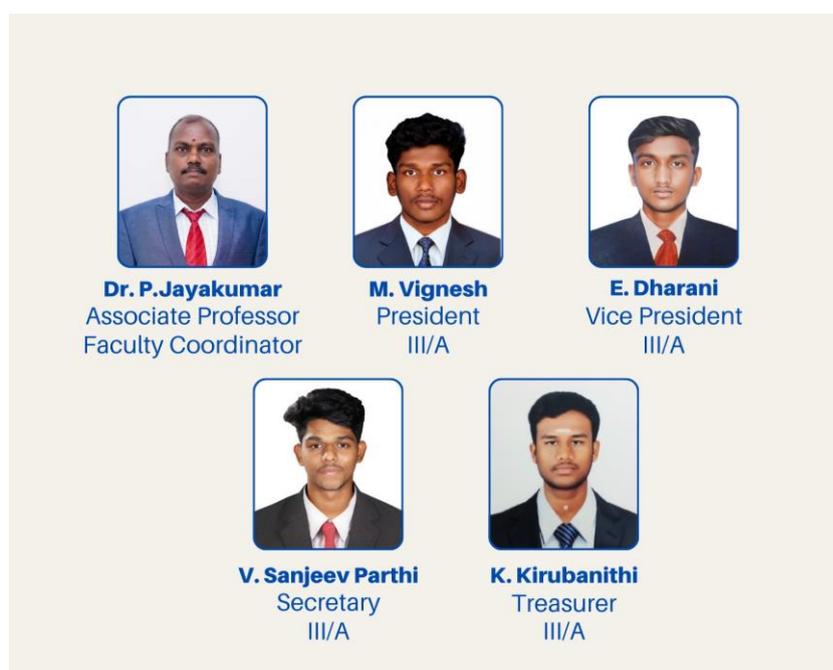
3D PRINTING CLUB

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

Office Bearers and their Portfolios:

S.No	Name	Position
1.	Dr.P.Jayakumar Associate Professor / Mech	Staff Coordinators
2.	Mr.N.Navaneetha krishnan	
3.	Vignesh.M	President
4.	Dharani.E	Vice President
5.	Sanjeev Parthi.V	Secretary
6.	Kirubanithi.K	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	Hands-on Training Programme on “3D Printer and 3D Scanner”
2	Dr. P.Jayakumar ciate Professor / Tech Guru, AICTE IDEA Lab SMVEC



SRI MANAKULA VINAYAGAR
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SMVEC/MECH/3D CLUB SMVEC/2024-25/01

Date: 20.02.2025

C I R C U L A R

The Department of Mechanical Engineering in association with the **“3D Printing Club SMVEC”** is organizing a **Hands-on Training Programme on “3D Printer and 3D Scanner”** on 22-02-2025 at **09:30 AM in IDEA LAB**. This programme aims to provide practical exposure to additive manufacturing and scanning technologies, enhancing skills relevant to mechanical design and modern tool usage.

All interested students are encouraged to participate. Students are requested to enroll their names with the concerned class advisor at the earliest to facilitate smooth coordination

Event Coordinator

HOD / MECH

Dean (core)

Director cum Principal

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Activity Number: 01

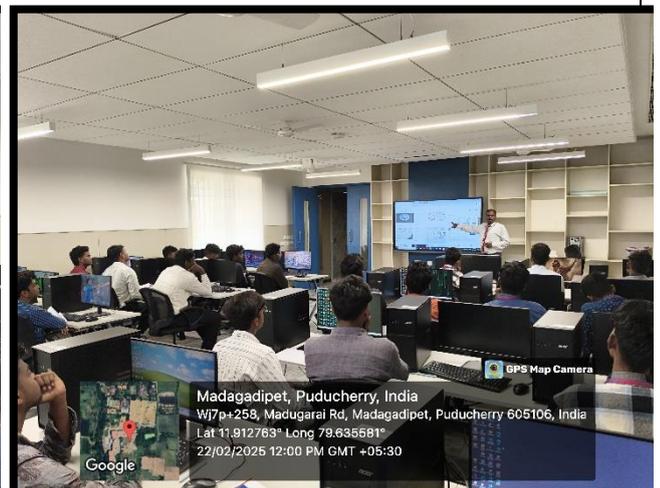
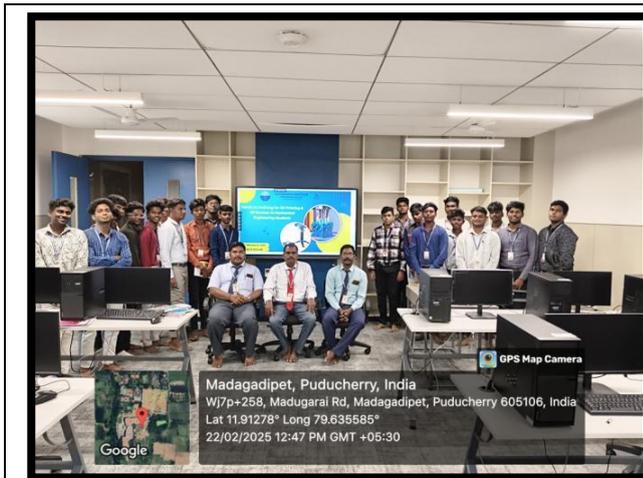
Name of the Event: Hands-on Training Programme on “3D Printer and 3D Scanner”

Date of the Event: 22.02.2025

Number of Participants: 25

Resource Person: Dr. P.Jayakumar Associate Professor / Tech Guru, AICTE

IDEA Lab SMVEC



Outcomes

- Gain hands-on experience operating 3D printers and scanners
- Understand additive manufacturing principles and material properties
- Create and print mechanical prototypes with optimized parameters
- Perform reverse engineering using scanned 3D data in CAD
- Troubleshoot common printing and scanning issues effectively



SMVEC/MECH/3D CLUB SMVEC/2024-25/02

Date: 26-11-2025

C I R C U L A R

The Department of Mechanical Engineering is organizing a **One-Day Workshop on "Future of 3D Printing"** exclusively for first-year students on **27-11-2025 at 10:00 AM** in IDEA LAB. This workshop will explore emerging trends, applications, and career opportunities in additive manufacturing technologies. Students are requested to enroll their names with the concerned class advisor immediately to secure participation.

Event Coordinator

HOD / MECH

Dean (core)

Director cum Principal

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File

Activity Number: 02

Name of the Event: Dr. P.Jayakumar ciate Professor / Tech Guru, AICTE IDEA Lab SMVEC

Date of the Event: 12-09-2023

Number of Participants: 25

Resource Person: Dr. P.Jayakumar Associate Professor / Tech Guru, AICTE IDEA Lab SMVEC

Photos:



Event Coordinator

HOD / MECH

Dean (core)

Director cum Principal