



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC & NBA)

(An Autonomous Institution)

Dindigul – Palani Highway, Dindigul 624 002

## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

### Abstract on the Department Level Data

Academic Year: 2025 -26

Semester: ODD

S. No	Details	Count
1	Faculty Count	09
2	No. of Non-Teaching Faculty	05
3	No. of Doctorates	04
4	No. of Faculty Pursuing Ph.D.,	05
5	No. of Research Supervisor	01
6	Total No. of Publications	08
7	No. of Events Organized	06
8	No. of VAC Offered	Even Sem
9	No. of Industrial Visit made	05
10	No. of Active MoUs	07
11	No. of Events in which students participated in outside Institutions	08
12	No. of the Faculty with FDP Participation (5 Days)	8

**PRINCIPAL**



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dindigul – Palani Highway, Dindigul 624 002

## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

#### Faculty Publications

(All Peer – Reviewed Journals from 2025 June to Till Now)

Academic Year: 2025 -26

Semester: ODD

S. No	Name of the Faculty	No. of Publications
1	Dr. S Joseph dominic vijayakumar	3
2	Mr. C Silambarasan	-
3	Mr. M Prabakaran	1
4	Mr. P Dheenathayalan	-
5	Dr. U Karthick	4
6	Dr. M Selwin	1
7	Dr. P Shankar kannan	1
8	Mr. R Sanjeevi	-
9	Mr. D Thamarai Selvan	1

#### List of Publications in APA Style:

1. **Joseph Dominic Vijayakumar.**, Ganesan, S., Kasthuri, R., & Sadayappan, N. (2026). Investigation on ZnO nanoflakes as an electrode material for hybrid supercapacitor application. *Applied Physics A*, 132(1), 20.
2. Paulsingarayar, S., **Joseph Dominic Vijayakumar.**, Marichamy, S., & Anandavelu, K. (2025). Machining Behaviors and surface investigation on udiMet L-605 aLLoy. *Archives of Metallurgy and Materials*, 351-357.
3. **Joseph Dominic Vijayakumar.**, K, V. K., Singarayar, S. P., & Kumaran, V. (2025). Effect of incorporating biofiller reinforcement on viscoelastic behavior, thermal analysis, and impact resistance of natural fiber composite. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 09544089251367262.

4. **U Karthick.**, Murugesan, S., Karuppasamy, G., & Thangavel, K. (2025). Comparative analysis of wastewater treatment using multilayer filtration and solar desalination: Experimental and numerical approach. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 47(2). <https://doi.org/10.1080/15567036.2025.2525377>.
5. Arulbrittoraj, A., **U Karthick.**, Kandavel, V., & Nagaraj, T. (2025). Study the impact of post treatment on pack borided AISI 1040 steel. *Canadian Metallurgical Quarterly*, 1–12. <https://doi.org/10.1080/00084433.2025.2590233>.
6. alaniappan, A.K., Krishnan, R.K., **U Karthick.** *et al.* Analysis on Mechanical Properties and Characterization of Polylactic Acid/Wood Infill Composites Manufactured by Fused Deposition Modeling. *J. of Materi Eng and Perform* (2025). <https://doi.org/10.1007/s11665-025-12009-4>.
7. Ramesh, **T.**, Selvan, **T.**, Prabakaran, M., Thangavel, C., **Karthick, U.**, & Kumar, P. A. (2025). AI-Optimized Tensile Strength Prediction of Biocomposites Using Agricultural Waste. In *EPJ Web of Conferences* (Vol. 336, p. 03002). EDP Sciences.
8. **Shankar Kannan.**, Marimuthu, M., Sakthivel, A., Rajasekar, J., Palanisamy, S., Mausam, K., ... & Al-Farraj, S. A. (2025). Mechanical and Thermal Behavior Analysis of Chicken Feather/Sesbania grandiflora Fibers-based Hybrid Epoxy Composites. *BioResources*, 20(4).
9. **Selwin M.**, Nagarajan, R., Selvakumar, P., Ayrilmis, N., Krishnan, K., Mohammad, F., ... & Ismail, S. O. (2025). 3D-printed green biocomposites from poly (lactic acid) and pine wood-derived microcrystalline cellulose: Characterization and properties. *BioResources*, 20(4).



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Dindigul – Palani Highway, Dindigul 624 002

## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

#### Departmental Events

Academic Year: 2025 -26

Semester: ODD

S. No	Date	Event Details
1	24.07.2025	Orientation Program on Global Opportunities for Mechanical Engineers in MEP Sector
2	25.07.2025	Tech Talk on Precision Meets Innovation: Mechanical Engineering in the Next Decade
3	25.07.2025	Tech Talk on The Future is Engineered: Trends, Tech & Transformation in Manufacturing
4	04.09.2025	Online Webinar on Automation Studio Software
5	10.10.2025– 11.10.2025	Two-Day Bootcamp on Fusion 360
6	15.11.2025	Workshop on Beyond Human Hands: The Robotic Future of Mechanical Engineering

## Glimpses of Events Details

### Orientation Program on Global opportunities for Mechanical Engineers in MEP Sector

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(AN AUTONOMOUS INSTITUTION)  
DEPARTMENT OF MECHANICAL ENGINEERING

# ORIENTATION PROGRAM

In Association with **UNIQUE MEP**

## GLOBAL OPPORTUNITIES FOR MECHANICAL ENGINEERS IN MEP SECTOR

**RESOURCE PERSONS**

**Mr. A. IMRAN SHERIFF**  
(MEP PROJECT MANAGER)

**Er. S. DEEPAK**  
(BIM CONSULTANT)  
Unique MEP Engineering Pvt Ltd, Trichy

**EVENT COORDINATORS**  
M. SELWIN (AP/ MECH)  
P. DHEENATHAYALAN (AP/ MECH)

**VIDEO CONFERENCE HALL**  
24th JULY 2025  
11.45 am- 1.45 pm

**HOD/ MECHANICAL**  
Dr. S. Joseph Dominic Vijayakumar

**PRINCIPAL**  
Dr. D. Senthil Kumaran



### Tech Talk on Precision Meets Innovation: Mechanical Engineering in the Next Decade

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
DEPARTMENT OF MECHANICAL ENGINEERING

## TECH TALK

### "PRECISION MEETS INNOVATION: MECHANICAL ENGINEERING IN THE NEXT DECADE"

**RESOURCE PERSON**

**Mr. R. ALAGURAJAN**  
Project Manager  
TDConnex (Chennai) Pvt. Ltd.  
Greenbase logistics, Chennai

**VENUE: C104**

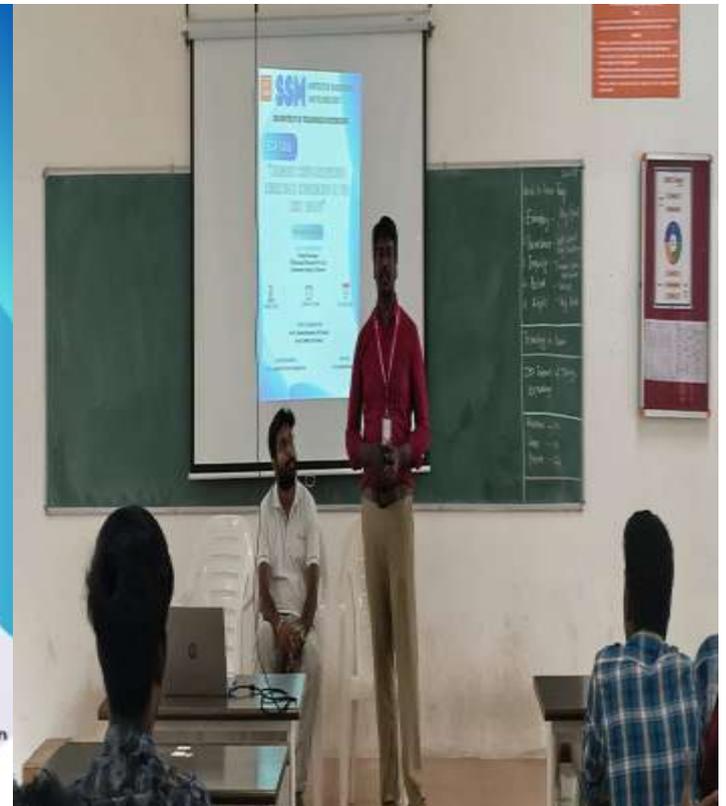
**3.00 PM - 5.00 PM**

**25th JULY 2025**

**EVENT COORDINATORS**  
Mr. P. Dheenathayalan (AP/ Mech)  
Mr. M. Selwin (AP/ Mech)

**HOD/ MECHANICAL**  
Dr. S. Joseph Dominic Vijayakumar

**PRINCIPAL**  
Dr. D. Senthil Kumaran



## Tech Talk on The Future is Engineered: Trends, Tech & Transformation in Manufacturing



### Two-Day Bootcamp on Fusion 360

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(AN AUTONOMOUS INSTITUTION)

DEPARTMENT OF MECHANICAL ENGINEERING  
Organizes a  
**TWO DAYS BOOTCAMP ON FUSION 360**

Venue: CAD LAB  
10.10.2025 - 11.10.2025  
9:00 am - 5:00 pm

**RESOURCE PERSON**  
Mr. M. Harish,  
Application Engineering,  
LISAMCAD Soft India Pvt Ltd,  
Coimbatore

SPONSORED BY  
ANNA UNIVERSITY CUIIC  
&  
AUTODESK

**EVENT COORDINATORS**  
Mr. C. Silambarason (AP/ Mech)      Mr. D. Thamarai Selvan (AP/ Mech)

**Convenors**  
Dr. S. Joseph Dominic Vijayakumar  
HOD/ Mechanical      Dr. D. Senthil Kumaran  
Principal

## Workshop on Beyond Human Hands: The Robotic Future of Mechanical Engineering



## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

#### Details of Industrial Visits

Academic Year: 2025 -26

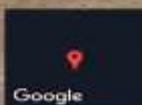
Semester: ODD

S. No	Class / Branch	Place of Visit	Date of Visit
1	II Year	Industry Visit to P.S.J Metals, Dindigul	02.08.2025
2	II Year	Industry Visit to D.R. TECH, Dindigul	02.08.2025
3	II Year	Industry Visit to A.R.S Engineering, Dindigul	02.08.2025
4	III Year	Industry Visit to SSM Windmill, Dharapuram	02.08.2025
5	II & III Year	Industry Visit to Gomadhi Engineering Services, Kunnathur	27.09.2025

### Glimpses of the Industrial Visits

(Photo Proofs with captions)

#### Industry Visit to P.S.J Metals, Dindigul



Dindigul, Tamil Nadu, India

57, Sidco Industrial Estate, Dindigul, Tamil Nadu 624003, India

Lat 10.350872° Long 77.98628°

02/08/2025 10:03 AM GMT +05:30



**Industry Visit to D R Tech, Dindigul**



**Industry Visit to ARS Engineering, Dindigul**



**Industry Visit to SSM Windmill, Dharapuram**



**Industry Visit to Gomadhi Engineering Services, Kunnathur**





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**Dindigul – Palani Highway, Dindigul 624 002**

## Department of Mechanical Engineering

### ACTIVE MoUs

Academic Year: 2025-2026

Semester: ODD

S. No.	MoU Signed Company - Details	Date of MoU Signed	Validity
1.	TPM Tech Max Private Limited	10.06.2024	Three Years
2.	ARS Engineering	28.02.2024	Three Years
3.	DR Tech	19.02.2024	Three Years
4.	APLUS NDT Services	21.02.2024	Three Years
5.	UNIQUE MEP Engineering Academy Private Limited	16.11.2023	Three Years
6.	Shri Sai NDT	25.04.2023	Three Years
7.	SPOTLIGHT Technology	22.02.2023	Three Years



தமிழ்நாடு தமிழ்நாடு TAMILNADU

10.06.2024

EA 059709



SSM INSTITUTE OF ENGINEERING  
AND TECHNOLOGY / DINDIGUL

ஆர்.ராதாகிருஷ்ணன்  
முத்தியாத் தான் விநியோகஸ்தர்  
நீதி மன்ற வாராகம்.  
உ.எ.எம் : 363 / 2 / 2004  
2p/1 வாழ்க வளமுடன் சிதகு.  
L.G.B.காம்பவுண்டு.  
Y.M.R.பட்டி திண்டுக்கல்.

### MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding is made on 10/06/2024, Monday between the **Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul - 624 002**, represented by **Dr. G. SANKARANARAYANAN**, Professor and Head of the Department as the party of the first part as Academic Institution.

and

**TPM TECH MAX PRIVATE LIMITED, P.NO.22, MUTHUPANDI NAGAR, KFC BACKSIDE, PONMENI BYEPASS, MADURAI - 625016** represented by **Mrs. P. RENGANAYAKI, DIRECTOR**, as the party of the second part as industry.

and

this MoU is valid for a period of three years from the date of signing.

Further he MoU enables both the parties to perform the following activities for the mutual benefit and to bridge the gap between the institute and industry.

- A) The Department of Mechanical Engineering of the Institution shall render the following services;
  - i. Product/material testing-related services.



தமிழ்நாடு தமிழ்நாடு TAMILNADU 19.02.24

EA 040893



SSM Institute of Engineering  
and Technology  
Dindigul

ஆர்.நாராயணசுவாமிநாதன்  
முத்திரைத்தாள் விற்பலையாளர்  
நீதி மன்ற வளாகம்,  
உட்காண் : 362/ஆ 1/2004  
29/1 வார்டு வளமுடன் தெரு.  
L.G.B.காம்பவுண்டு.  
Y.M.R.பட்டி திண்டுக்கல்.

### MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding is made on 28/02/2024, Wednesday between the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul 624 002, represented by **Dr.G. Sankaranarayanan**, Professor and Head as the party of the first part as Academic Institution

and

M/s. A.R.S Engineering, No. 20, SIDCO Industrial Estate, Dindigul 624005 represented by **Mr. Jahir Hussain**, Managing Director, as the party of the second part as industry

and

this MoU is valid for a period of three years from the date of signing.

The MoU shall enable both the parties to act on terms and conditions laid herein. The following summarizes the terms and conditions of MoU.

A) The Department of Mechanical Engineering of the Institution shall render the following services;

Dr. G. SANKARANARAYANAN M.E., Ph.D.,  
Professor and Head,  
Department of Mechanical Engineering,  
SSM Institute of Engineering and Technology,  
Sindhalagundu (R.O.), Dindigul - 624 002

28/02/24



தமிழ்நாடு தமில்நாடு TAMILNADU 19-02-24

EA 940895



SSM Institute of Engineering  
and Technology  
Dindigul.

கூ.ந. ராஜாதிருஷ்ணன்  
மந்திரிசபாத்தலைவர் விற்பனையாளர்  
நீதி மன்ற வளாகம்,  
உ.எண் : 362/ஆ. 1/2004  
21/1 வார்டு-வளமுடன் தெரு.  
L.C.B.காம்பவுண்டு.  
Y.M.R.பட்டி திண்டுக்கல்.

#### MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding is made on 28/02/2024, Wednesday between the Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul 624 002, represented by **Dr.G. Sankaranarayanan**, Professor and Head as the party of the first part as Academic Institution

and

**D. R. Tech No. 11/1, SIDCO Industrial Estate, Dindigul – 624 003, Tamil Nadu, India** represented by **Mr. A. Annadurai**, Managing Partner, as the party of the second part as industry

and

this MoU is valid for a period of three years from the date of signing.

The MoU shall enable both the parties to act on the terms and conditions laid herein. The following summarizes the terms and conditions of MoU.

A) The Department of Mechanical Engineering of the Institution shall render the following services:

**Dr. G. SANKARANARAYANAN M.E., Ph.D.,**  
Professor and Head,  
Department of Mechanical Engineering,  
SSM Institute of Engineering and Technology,  
Sindhalagundu (P.O.), Dindigul - 624 002.

**DR TECH**  
11/1, Sidco Industrial Estate  
DINDIGUL - 3



தமிழ்நாடு தமிலநாடு TAMIL NADU 21.02.23  
SSM Institute of Engineering  
and Technology  
Dindigul

22AG 844616

ஆர். ஜாதா கிருஷ்ணன்  
மத்தியஸ்தர்கள் சிறப்பணியாளர்  
நீதி யன்ற வளாகம்.  
உள்ளம் : 363/ஆ 1/2004  
2டி/1 வார்டு வளமுடன் தெரு.  
L.G.E.காம்பவுண்டு,  
Y.M.R.பட்டி திண்டுக்கல்.



#### MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding is made on 31/03/2023, Friday between the **Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul - 624 002**, represented by **Dr.D.SENTHILKUMARAN, Principal** as the party of the first part as Academic Institution

and

**APLUS NDT SERVICES, 266, Gowtham Complex 3<sup>rd</sup> Floor, 2<sup>nd</sup> Street, Gandhipuram, Coimbatore, Tamil Nadu 641 012** represented by **Mr.B.Lawrance, Chief Executive Officer**, as the party of the second part as industry.

and

this MoU is valid for a period of three years from the date of signing.

Further the MoU enables both the parties to perform the following activities for the mutual benefit and to bridge the gap between the institute and industry.

A) The Department of Mechanical Engineering of the Institution shall render the following services;

- Provide process and quality-oriented consultancy services on-request basis.
- Provide energy audit studies in the industry and their client units.
- Undertake in-plant trials for effective work methods to achieve enhanced results.



தமிழ்நாடு தமில்நாடு TAMIL NADU 15.11.2023 30AC 375151

SSM INSTITUTE OF ENGINEERING  
TECHNOLOGY / DINDIGUL

ஆர்.ராஜகிருஷ்ணன்  
முத்திலரத்தாள் வீடுபலையாளர்  
நீதி யன்ற வளாகம்.  
உ.எண் : 363/ஆ 1/2004  
2டி/1 வாழ்க யளமுடன் தெரு.  
L.G.B.காம்பலுண்டு.  
Y.M.R.பட்டி திண்டுக்கல்.



### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this day of Sixteen<sup>th</sup> day of Eleventh Month of Two Thousand and Twenty-Three (16/11/2023), by and between

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL-PALANI HIGHWAY, DINDIGUL THE FIRST PARTY, represented herein by its Principal (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors — in-office, administrators and assigns).

AND

UNIQUE MEP ENGINEERING ACADEMY PRIVATE LIMITED, CHENNAI THE SECOND PARTY, and represented herein by its Founder, (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors — in-office, administrators and assigns).

Dr. D. SENTHIL KUMARAN  
(First Party and Second Party are hereinafter jointly referred to as Parties and individually as 'Party') as  
PRINCIPAL  
SSM Institute of Engineering and Technology  
Dindigul - Palani Highway, Dindigul - 624 002

For UNIQUE MEP ENGINEERING ACADEMY PVT. Ltd.

R. Hanumanth  
Director

Dr. D. Senthil Kumaran



தமிழ்நாடு தமிழ்நாடு TAMIL NADU 25-04-23

SSM Institute of Engineering  
and Technology  
Dindigul.

22AG 855542

ஆர்.ராஜசேகரன்  
முத்தியாற்றாள் கிறிபகலாயனர்  
நிதி அன்றலாகம்.  
உ.எண் - 357/ஆ/1/2004  
24/1 வாரியக அலுவலர் கிடை.  
L.G.E.காம்ப்யூட்டர்.  
Y.M.R.பட்டி திண்டிவக்கம்.



#### MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding is made on 25 /04 /2023, Thursday between the **Department of Mechanical Engineering, SSM Institute of Engineering and Technology, Dindigul - 624 002**, represented by **Dr.D.SENTHILKUMARAN, Principal** as the party of the first part as Academic Institution

and

**SHRI SAI NDT, No.34, Kamban Street, 3<sup>rd</sup> Cross, Subbaiah Nagar, Puducherry 605 001** represented by **Mr. S SIVA PERUMAL, Managing Director**, as the party of the second part as industry.

and

this MoU is valid for a period of three years from the date of signing.

Further the MoU enables both the parties to perform the following activities for the mutual benefit and to bridge the gap between the institute and industry.

A) The Department of Mechanical Engineering of the Institution shall render the following services;



தமிழ்நாடு தமில்நாடு TAMIL NADU

22.02.2023

22AC 844752

SSM INSTITUTE OF ENGINEERING & TECHNOLOGY / DINDIGUL

ஆர்.ராஜாசிகிரஷ்ணன்  
முத்திரைத்தான் விநியோகியாளர்  
நீதி மன்ற வளாகம்.  
உ.எண் : 363/ஆ 1/2004  
2டி/1 வாழ்க வளமுடன் தெரு.  
L.G.B.காம்பவுண்டு.  
Y.M.R.பட்டி திண்டுக்கல்.

**MEMORANDUM OF UNDERSTANDING**  
**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DINDIGUL**  
**AND**  
**SPOTLIGHT TECHNOLOGY**  
**DINDIGUL**

THIS MEMORANDUM OF UNDERSTANDING (MOU) made and executed on this 23<sup>rd</sup> of February 2023. between: **SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**, an Educational Institution, situated at Dindigul-Palani Highway, Dindigul, Tamil Nadu 624002 and represented by Dr. SETHIL KUMARAN DURAIRAJ, Principal hereinafter called **SSMIET** (Which expression shall include its successors and assigns) of the first part;

**AND**

**SPOTLIGHT TECHNOLOGY**, a company registered and having office at 61, Anush Complex, First floor, AMC Road, Dindigul-1, and represented by, Mr. A. STEPHEN GASPAS, **Managing Director** hereinafter referred to as **SPOTLIGHT TECHNOLOGY**, which term shall mean and include, unless repugnant to the context and meaning thereof, its Successors, legal representatives and assigns, of the other part;





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(An Autonomous Institution)

Dindigul – Palani Highway, Dindigul 624 002

## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

#### Student Achievements (Excluding Sports)

Academic Year: 2025 -26

Semester: ODD

S. No.	Name of the student	Class / Branch	Details of Achievements (Other Institution Participation)
1	ARSHATH NATHEEM A	III/Mech. Engg.	Innovative Applications of Industry 5.0
2	BALASHANMUGAM M	III/Mech. Engg.	Smart India Hackathon
3	KAMALESH R	III/Mech. Engg.	Block Chain Technology
			Innovative Applications of Industry 5.0
			Smart India Hackathon
4	LINGADURAI M	III/Mech. Engg.	Innovative Applications of Industry 5.0
5	LINGESWARAN S	III/Mech. Engg.	Innovative Applications of Industry 5.0
6	MUTHU HARIKISHORE C	III/Mech. Engg.	Innovative Applications of Industry 5.0
7	MUTHU KUMARAN S	III/Mech. Engg.	Club Officers Leadership Training (SAEINDIA)
			Drone Mapping and Surveying: Trends and Innovation
8	NAGANANDHAN M	III/Mech. Engg.	Club Officers Leadership Training (SAEINDIA)
			Drone Mapping and Surveying: Trends and Innovation
			Smart Manufacturing
			Additive Manufacturing
9	SAKTHIVEL M	III/Mech. Engg.	Smart Manufacturing
			Additive Manufacturing
10	SAMPATH A	III/Mech. Engg.	Smart India Hackathon
11	TONE HEADRICH S	III/Mech. Engg.	Smart India Hackathon
12	YOGARAJA N	III/Mech. Engg.	Smart India Hackathon
13	SUGUMAR K	III/Mech. Engg.	Block Chain Technology
			Innovative Applications of Industry 5.0



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(An Autonomous Institution)

Dindigul – Palani Highway, Dindigul 624 002

## INTERNAL QUALITY ASSURANCE CELL - IQAC

### Department Of Mechanical Engineering

### Faculty Achievements

Academic Year: 2025 -26

Semester: ODD

S. No	Name of the Faculty	Faculty Participation, Presentation (Conferences) / Industry Connect / Certifications / QIP / FDP (List all the achievement in the Odd Semester)
1	Dr. S. Joseph Dominic Vijayakumar	<ol style="list-style-type: none"><li><b>Joseph Dominic Vijayakumar.</b>, Ganesan, S., Kasthuri, R., &amp; Sadayappan, N. (2026). Investigation on ZnO nanoflakes as an electrode material for hybrid supercapacitor application. <i>Applied Physics A</i>, 132(1), 20.</li><li>Paulsingarayar, S., <b>Joseph Dominic Vijayakumar.</b>, Marichamy, S., &amp; Anandavelu, K. (2025). Machining Behaviors and surface investigation on udiMet L-605 aLLoy. <i>Archives of Metallurgy and Materials</i>, 351-357.</li><li><b>Joseph Dominic Vijayakumar.</b>, K, V. K., Singarayar, S. P., &amp; Kumaran, V. (2025). Effect of incorporating biofiller reinforcement on viscoelastic behavior, thermal analysis, and impact resistance of natural fiber composite. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i>, 09544089251367262.</li></ol>
2	Mr. C. Silambarasan	<p>I actively participated in a comprehensive six-day industrial training program at AR4 Tech Pvt Ltd in Coimbatore to enhance my practical knowledge. The training was conducted in two distinct phases, spanning from December 22nd to December 24th, 2025, and continuing from December 29th to December 31st, 2025.</p> <p>I attended a three-day UHV Introductory FDP at the SSM Institute of Engineering and Technology to deepen my understanding of universal human values. The session took place from December 26th to December 28th, 2025.</p>

3	Mr. M. Prabakaran	<ol style="list-style-type: none"> <li>1. Completed 12 days online Refresher Course on “<b>Current trends in Metal Additive Manufacturing</b>” Organized by <b>Malaviya Mission Teacher Training Centre, IIT Dhanbad (Indian School of Mining), Jharkhand From 07-07-2025 to 18-07-2025.</b></li> <li>2. Participated in one week Faculty Development Program on “<b>Recent Advancements in Mechanical Engineering</b>” Organized by Department of Mechanical Engineering. Jeppiaar Institute of Technology, Chennai.</li> <li>3. Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on <b>AI Driven Materials Discovery and Design: A new frontier in materials science at DR. Mahalingam College of Engineering and Technology</b> from <b>01/12/2025 to 06/12/2025.</b></li> <li>4. Published the Indian patent “<b>Smart Iot-Enabled Fixture System for Vibration Suppression in CNC Milling</b>” Application No.202541069394 A, Publication Date : 25/07/2025.</li> <li>5. Ramesh, T., Selvan, T., Prabakaran, M., Thangavel, C., Karthick, U., &amp; Kumar, P. A. (2025). AI-Optimized Tensile Strength Prediction of Biocomposites Using Agricultural Waste. In EPJ Web of Conferences (Vol. 336, p. 03002). EDP Sciences.</li> </ol>
4	Mr. P Dheenathayalan	<ol style="list-style-type: none"> <li>1. Completed 12 days online Refresher Course on “<b>Current trends in Metal Additive Manufacturing</b>” Organized by <b>Malaviya Mission Teacher Training Centre, IIT Dhanbad (Indian School of Mining), Jharkhand From 07-07-2025 to 18-07-2025.</b></li> <li>2. Completed "Certified Incubation Management Training Program 2025" organized by StartupTN (Government of Tamil Nadu) during 03.12.2025 to 05.12.2025.</li> <li>3. Published the Indian patent “<b>Smart Iot-Enabled Fixture System for Vibration Suppression in CNC Milling</b>” Application No.202541069394 A, Publication Date : 25/07/2025.</li> </ol>
5	Dr. U. Karthick	<ol style="list-style-type: none"> <li>1. Completed the six month AICTE – QIP PG Certification Programme on “<b>Advanced Aerospace Materials: Development, Characterization</b>”, organized by Indian Institute of Technology Bhilai, Chhattisgarh. from 30/06/2025 to 26/12/2025.</li> <li>2. Completed the Five-day Online Faculty Development Program on “<b>Recent Advances In Composite Materials: Integrating Modelling And Experimental Approaches</b>” organized by Maharaj Vijayaram Gajapathi Raj College of Engineering <b>Vizianagaram, Andhra Pradesh.</b> from 17th to 21st, November 2025.</li> <li>3. <i>Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on <b>AI Driven Materials Discovery and Design: A new frontier in materials science at DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY</b> from <b>01/12/2025 to 06/12/2025.</b></i></li> <li>4. Published the Indian patent “<b>SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING</b>” Application No.202541069394 A, Publication Date : 25/07/2025</li> </ol>

		<p>5. <b>U Karthick.</b>, Murugesan, S., Karuppasamy, G., &amp; Thangavel, K. (2025). Comparative analysis of wastewater treatment using multilayer filtration and solar desalination: Experimental and numerical approach. <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i>, 47(2). <a href="https://doi.org/10.1080/15567036.2025.2525377">https://doi.org/10.1080/15567036.2025.2525377</a>.</p> <p>6. Arulbrittoraj, A., <b>U Karthick.</b>, Kandavel, V., &amp; Nagaraj, T. (2025). Study the impact of post treatment on pack borided AISI 1040 steel. <i>Canadian Metallurgical Quarterly</i>, 1–12. <a href="https://doi.org/10.1080/00084433.2025.2590233">https://doi.org/10.1080/00084433.2025.2590233</a>.</p> <p>7. Palaniappan, A.K., Krishnan, R.K., <b>U Karthick.</b> <i>et al.</i> Analysis on Mechanical Properties and Characterization of Polylactic Acid/Wood Infill Composites Manufactured by Fused Deposition Modeling. <i>J. of Materi Eng and Perform</i> (2025). <a href="https://doi.org/10.1007/s11665-025-12009-4">https://doi.org/10.1007/s11665-025-12009-4</a>.</p> <p>8. Ramesh, T., <b>Selvan, T., Prabakaran, M., Thangavel, C., Karthick, U., &amp; Kumar, P. A.</b> (2025). AI-Optimized Tensile Strength Prediction of Biocomposites Using Agricultural Waste. In <i>EPJ Web of Conferences</i> (Vol. 336, p. 03002). EDP Sciences.</p> <p>9. Acted as <b>Reviewer</b> in <b>Discover water</b> journal in Springer Nature.</p> <p>10. Acted as <b>Reviewer</b> for <i>Energy for Sustainable Development</i> (Elsevier, SCI Indexed).</p> <p>11. Acted as <b>Reviewer</b> for Cleaner Engineering and Technology (Elsevier, SCI Indexed).</p>
6	Dr. M. Selwin	<p><b>EVENT PARTICIPATION:</b></p> <p><b>a. Faculty Development Program:</b></p> <p>1. Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on <b>AI Driven Materials Discovery and Design: A new frontier in materials science</b> at <b>DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY</b> from <b>01/12/2025</b> to <b>06/12/2025</b>.</p> <p><b>b. Startup Bootcamp:</b></p> <p>2. Attended 3 days “<b>Zero to One</b>” Startup Bootcamp organized by <b>AIC RAISE</b>, Coimbatore from 28.08.2025 to 30.08.2025.</p> <p><b>c. Retro Fitting Training Program</b></p> <p>3. Attended 6 days <b>Retro Fitting Training program in AR4 TECH, Coimbatore</b> from 22.12.2025 to 24.12.2025 and 29.12.2025 to 31.12.2025.</p> <p><b>PUBLICATIONS:</b></p> <p><b>b. Patent Publication:</b></p>

		<p>1. Published the Indian patent “<b>SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING</b>” Application No.202541069394 A, Publication Date : 25/07/2025</p> <p><b>Journal Publication:</b></p> <p>Published a journal on ‘3D Printed green biocomposites from polylactic acid and pine wood derived Microcrystalline cellulose: Characterization and Properties’ in <i>Bioresources</i>, 20(4), 8473-8492.</p>
7	Dr. P. Shankar Kannan	<p>1. Completed AICTE QIP-PG Certification Program on “<b>Machine Learning and Cyber Physical Systems</b>” at Indian Institute of Information Technology Trichy. (June 2025 to December 2025).</p> <p>2. Three days faculty development program (AICTE approved) on “<b>Universal Human Values- Introductory (Level I)</b>” conducted at SSM Institute of Engineering and Technology from 26.12.2025 to 28.12.2025.</p> <p>3. One-week national level faculty development program on “<b>AI, ML and Deep Learning for Autonomous Vehicles</b>” conducted by NIT Karnadaka with Pantech e-Learning from 28.07.2025 to 01.08.2025.</p> <p>4. Published Research Article: <b>Paramasivam, S. K.</b>, Marimuthu, M., Sakthivel, A., Rajasekar, J., Palanisamy, S., Mausam, K., ... &amp; Al-Farraj, S. A. 2025. Mechanical and Thermal Behavior Analysis of Chicken Feather/<i>Sesbania grandiflora</i> Fibers-based Hybrid Epoxy Composites. <i>BioResources</i>, 20(4). <b>Impact Factor: 1.8 (Q3, SCIE)</b>.</p> <p>5. Supervisor Recognition: Application has been submitted to CFR Anna University for Supervisor Recognition. Reference No.: 14113</p> <p>6. Reviewed research article in <i>Waste and Biomass Valorization Journal</i> (Springer, SCI Indexed).</p> <p>7. Reviewed research article in <i>BioResources Journal</i> (SCIE Indexed).</p>
8	Mr. R. Sanjeevi	<p>1. Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “<b>AI Driven Materials Discovery and Design: A New Frontier in Materials Science</b>” at Dr. Mahalingam College of Engineering and Technology from 01/12/2025 to 06/12/2025.</p> <p>2. Published the Indian patent “<b>SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING</b>” Application No.202541069394 A, Publication Date : 25/07/2025</p> <p>3. Organized one day Tech Talk on “<b>The future is Engineered: Trends, Tech, and Transformation in Manufacturing</b>” for II year Mechanical Students on 25.07.2025</p> <p>4. Organized one day workshop on “<b>Beyond Human Hands: The Robotic Future of Mechanical Engineering</b>” for II year and III year Mechanical students on 15.11.2025.</p>

		<p>5. Acted as <b>Reviewer</b> in <b>Interaction</b> journal in Springer Nature</p> <p>6. Visited one day robotics exhibition at PSG College of Technology, Coimbatore on 13.12.2025.</p>
9	Mr.D.THAMAR AI SELVAN	<p>1. Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “<b>AI Driven Materials Discovery and Design: A New Frontier in Materials Science</b>” at Dr. Mahalingam College of Engineering and Technology from 01/12/2025 to 06/12/2025.</p> <p>2. Completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “<b>Intelligence Integration in Mechanical Engineering: Tools, Techniques and Applications</b>” at PPG INSTITUTE OF TECHNOLOGY from 15/09/2025 to 20/09/2025.</p> <p>3. Completed Faculty Development Program on “<b>Advanced Design and Manufacturing using Autodesk Fusion</b>” at CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY from 04.08.2025 to 09.08.2025.</p> <p>4. Published the Indian patent “<b>SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING</b>” Application No.202541069394 A, Publication Date: 25/07/2025</p> <p>5. Ramesh, <b>D. Thamarai Selvan., Prabakaran, M., Thangavel, C., Karthick, U., &amp; Kumar, P. A.</b> (2025). AI-Optimized Tensile Strength Prediction of Bio composites Using Agricultural Waste. In EPJ Web of Conferences (Vol. 336, p. 03002). EDP Sciences. <a href="https://doi.org/10.1051/epjconf/202533603002">https://doi.org/10.1051/epjconf/202533603002</a></p> <p>6. Organized <b>Two Days Bootcamp on Fusion 360 software</b> for Second- and Third-year Students (10.10.2025 - 11.10.2025)</p> <p>7. Organized Panel Discussion on “<b>Building a Startup Culture on Campus</b>” (23.8.2025) for all departments.</p> <p>8. Completed Four days Faculty Internship Program at <b>SASTRA UNIVERSITY</b> on 11.12.2025 to 14.12.2025.</p>

**PROOF DETAILS:**

<b>Name of the Faculty</b>	<b>Proof (Certificate Proof / Event Participation Proof with Captions)</b>
Mr.Silambarasan	 
Mr.Silambarasan	

Name of the Faculty

Proof (Certificate Proof / Event Participation Proof with Captions)

Mr.M.Prabakaran

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**MALAVIYA MISSION**  
TEACHER TRAINING PROGRAMME



IIT (ISM) DHANBAD 1926-2026

Ref. No. IIT(ISM)/MMTTP/STP/2025/CTMAM/0507

## CERTIFICATE OF PARTICIPATION

**Mr. PRABAKARAN M**

This is to certify that .....  
from ..... **SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
has actively participated and obtained ....**A+**..... Grade in the **Online Refresher Course** on **"Current Trends in Metal Additive Manufacturing"** organised by Malaviya Mission Teacher Training Centre, IIT(ISM) Dhanbad, Jharkhand from 07th July to 18th July 2025.

  
**Prof. Amitava Mandal**  
Course Coordinator

  
**Prof. Mrinalini Pandey**  
Programme Director, MMTC

Mr.M.Prabakaran



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(An Autonomous Institution)  
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Kumam, Sengavaihallam, Sriperumbudur - 631 604



**NAAC** A+ ACCREDITED



**NBA** ACCREDITED  
CSL, IT, SCE

## CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

**Mr.PRABAKARAN M**

**SSM Institute of Engineering and Technology**

Has actively participated in one week Faculty Development Program on  
"Recent Advancements in Mechanical Engineering"  
From 09.12.2025 - 13.12.2025 Organized by The Department of Mechanical Engineering at  
Jepplaar Institute of Technology, Sriperumbudur, Chennai.

  
**Mr.S.Jasper**  
FDP - Coordinator  
Jepplaar Institute of Technology



  
**Dr.J.Venu Gopala Krishnan**  
Principal  
Jepplaar Institute of Technology

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541069394 A

(19) INDIA

(22) Date of filing of Application :21/07/2025

(43) Publication Date : 25/07/2025

(54) Title of the invention : SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING

Mr.M.Prabakaran

(51) International classification : B23Q0003080000, B23Q0011100000, B23Q0017090000, B23C0005100000, G05B0019416000

(86) International Application No : NA  
Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA  
Filing Date : NA

(62) Divisional to Application Number : NA  
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(71)Name of Applicant :

1)SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY  
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ATAL/2025/1762517716






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**Certificate**

*It is certified that Mr. PRABAKARAN.M, Assistant Professor of SSM Institute of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI Driven Materials Discovery and Design: A new frontier in materials science at DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY from 01/12/2025 to 06/12/2025.*



**RAMA THIRUMURUGAN**  
Professor Level (AICTE Institute), Coordinator  
**DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY**



**Dr. Sunil Luthra**  
Director & Burean Head  
**Training and Learning Bureau, AICTE**

Name of the Faculty

Proof (Certificate Proof / Event Participation Proof with Captions)

Mr. P  
Dheenathayalan



Ref. No. IIT(ISM)/MMTTP/STP/2025/CTMAM/0104

## CERTIFICATE OF PARTICIPATION

**Mr. DHEENATHAYALAN P**

This is to certify that .....  
**SSM Institute of Engineering and Technology, Dindigul.**  
from .....  
has actively participated and obtained .....**A**..... Grade in the **Online Refresher Course** on **“Current Trends in Metal Additive Manufacturing”** organised by Malaviya Mission Teacher Training Centre, IIT(ISM) Dhanbad, Jharkhand from 07th July to 18th July 2025.

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**Prof. Mrinalini Pandey**  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No 202541069394 A

(19) INDIA

(22) Date of filing of Application :21/07/2025

(43) Publication Date : 25/07/2025

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Name of the Faculty

Proof (Certificate Proof / Event Participation Proof with Captions)

Dr. U. Karthick



Dr. U. Karthick



(12) PATENT APPLICATION PUBLICATION

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Filing Date :NA

Dr. U. Karthick



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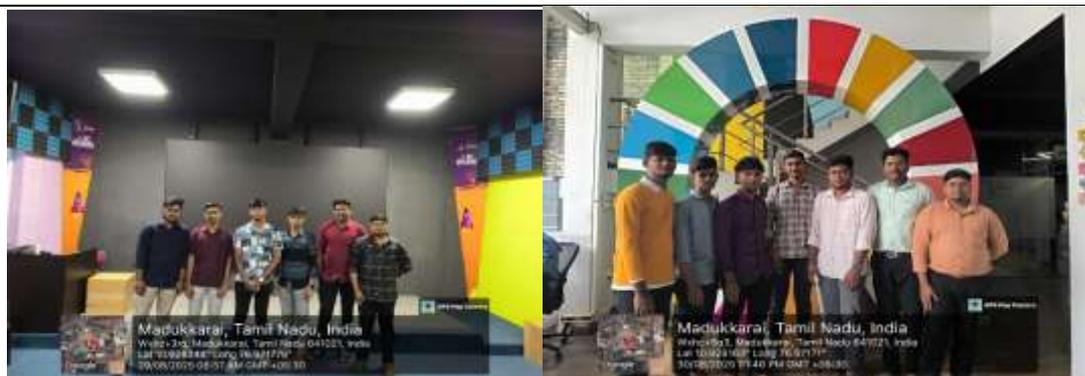
Name of the Faculty

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Dr. M. Selwin  
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Dr. M. Selwin  
BOOTCAMP



Dr. M. Selwin  
**RETRO  
FITTING**



Dr. M. Selwin  
**PATENT**

(12) PATENT APPLICATION PUBLICATION (21) Application No.202541069394 A  
(19) INDIA  
(22) Date of filing of Application :21/07/2025 (43) Publication Date : 25/07/2025

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Dr. M. Selwin  
**PUBLICATION**

<https://doi.org/10.1016/j.biores.2025.129144> [bioresources.cnr.ncsu.edu](https://www.bioresources.cnr.ncsu.edu)

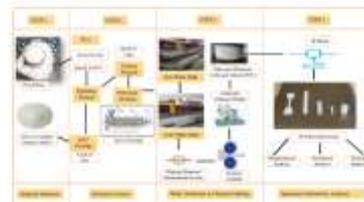
**3D-Printed Green Biocomposites from Poly(lactic acid) and Pine Wood-derived Microcrystalline Cellulose: Characterization and Properties**

Indira Marie Selwin,<sup>1</sup> Rajul Heggen,<sup>2\*</sup> Prasanthkannan Subramani,<sup>3</sup> Hajar Ajithan,<sup>4</sup> Karan Krishna,<sup>5</sup> Faraz Muhammad,<sup>6</sup> Husein A. Al-Lobedan,<sup>7</sup> and Merve D. Ayar<sup>8</sup>

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DOI: 10.1016/j.biores.2025.129144

**GRAPHICAL ABSTRACT**



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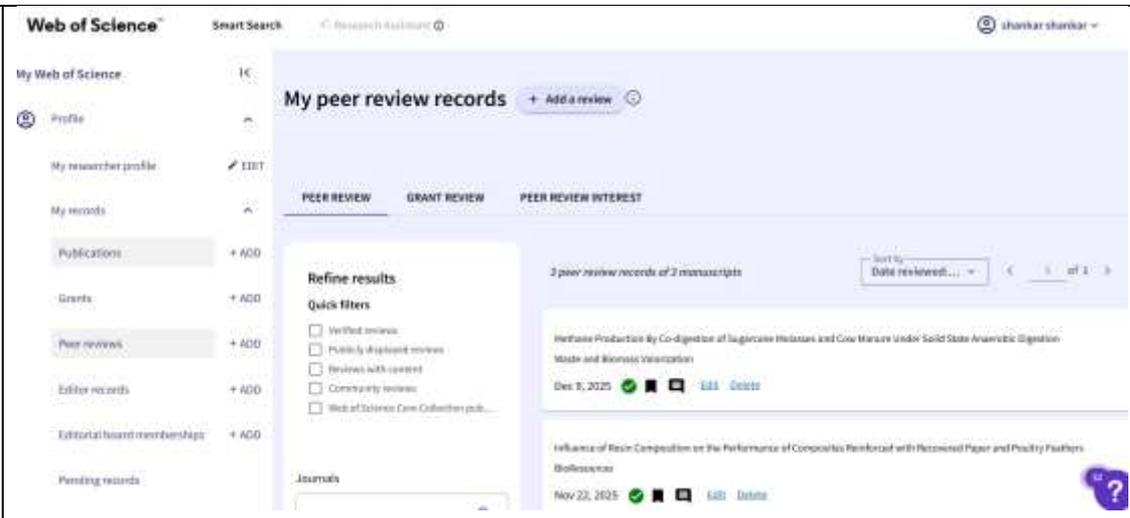


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## Mechanical and Thermal Behavior Analysis of Chicken Feather/*Sesbania grandiflora* Fibers-based Hybrid Epoxy Composites

Shankar Kannan Paramasivam <sup>1</sup>,<sup>a,\*</sup> Muthukannan Marimuthu,<sup>a</sup> Arun Sakthivel,<sup>b</sup> Janani Rajasekar,<sup>c</sup> Sivasubramanian Palanisamy <sup>1</sup>,<sup>d</sup> Kuwar Mausam,<sup>e</sup> Aravindhan Alagarsamy,<sup>f</sup> Quanjin Ma,<sup>g</sup> and Saleh A Al-Farraj <sup>h</sup>

The mechanical and thermal properties of epoxy hybrid composites reinforced with natural fibers were studied, addressing the growing demand for eco-friendly materials. Fibers from chicken feathers (CF) and *Sesbania grandiflora* (SG) were used together with epoxy resin in composites, which were fabricated using the compression molding technique. Both the CF and SG fiber ratios ranged from 1:2 to 2:1, while fiber-to-resin weight proportions were set at 30:70 and 40:60. The composites were evaluated for mechanical and thermal characteristics in adherence to ASTM standards, with thermal properties assessed using thermogravimetric analysis (TGA). Surface morphology was examined using scanning electron microscopy (SEM). Process parameters were optimized using mathematical modeling, employing Analysis of Variance (ANOVA) and Response Surface Methodology (RSM). The hybrid composite with a 30:70 fiber/matrix ratio and a 2:1 CF/SG fiber combination demonstrated superior mechanical and thermal properties while showing reduced water absorption. A 30% fiber loading with a 2:1 CF/SG fiber ratio considerably enhanced the composite's overall performance. The optimal blending ratio for hybrid composites was a 2:1 weight proportion of CF to SG fibers, offering a promising approach to developing sustainable materials with improved characteristics. This research highlights the potential of natural fibers in creating environmentally friendly composites.

DOI: 10.15376/biores.20.4.8591-8610

**Keywords:** Chicken feather; Hybrid composite; Natural fibers; Mathematical modeling; Mechanical properties; Resin; SEM; *Sesbania grandiflora*

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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :21/07/2025

(21) Application No.202541069394 A  
(43) Publication Date : 25/07/2025

(54) Title of the invention : SMART IOT-ENABLED FIXTURE SYSTEM FOR VIBRATION SUPPRESSION IN CNC MILLING

(51) International classification : B23Q0003080000, B23Q0011100000, B23Q0017090000, B23C0005100000, G05B0019416000

(86) International Application No : NA  
 Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA  
 Filing Date : NA

(62) Divisional to Application Number : NA  
 Filing Date : NA

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(57) Abstract :  
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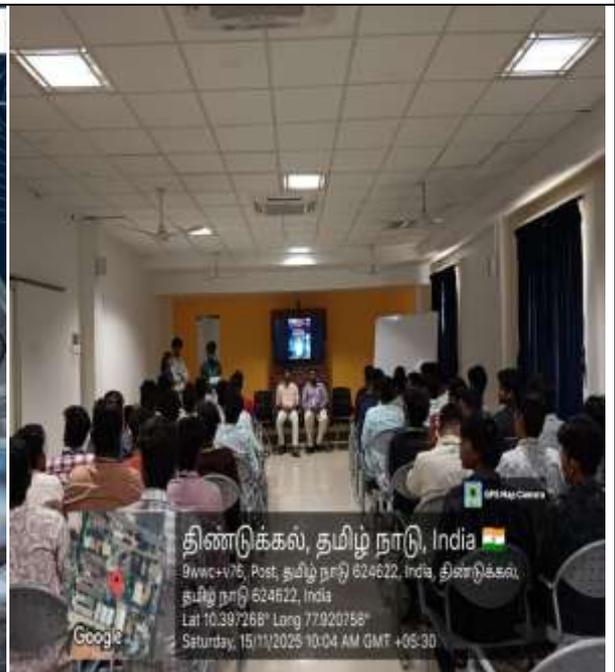
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Head, Mechanical Engineering

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**Prof. C. V. Narasimhulu**  
Principal

Mr.D.THAMARAI SELVAN

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A  
G

# AI-Optimized Tensile Strength Prediction of Biocomposites Using Agricultural Waste

T. Ramesh<sup>1\*</sup>, Thamarai Selvan<sup>2</sup>, M. Prabakaran<sup>2</sup>, Chithras Thangavel<sup>3</sup>, U. Karthick<sup>2</sup>, P. Ashok kumar<sup>4</sup>

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**Abstract.** The increasing demand for green and environmentally friendly composite materials have triggered a marked interest in the utilization of agricultural waste as reinforcement in polymer matrices. This paper shares a fresh and unique way of predicting the tensile strength of bio-composites of Rice Husk, Groundnut Shell, and Santa Maria Feverfew when they are dipped in epoxy resin and hardener. We propose a new machine learning model that combines XGBoost and Long Short-Term Memory (LSTM) networks as a new way to reduce the error for the prediction of the tensile strength of a given material. Data were extracted from the process of making composite samples in a laboratory, and then the samples have been tested for their tensile strengths. The XGBoost model can identify non-linear connections, and decrease the number of characteristics, while the LSTM model uses the information from the XGBoost predictions to make the output more accurate. The metrics that are used in the evaluation like MSE, MAE, and R<sup>2</sup> Score are the evidence that the proposed approach is working. The residual laboratory results, and information extracted from the charts about the most important features, are also the types of visual techniques that can be used as evidence of the models' robustness. This AI-fueled system is a very useful device for designing composites more efficiently and cutting the costs of the experiment, while at the same time it gets the limited development of the green materials and sustainable engineering fields speeded up.

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