Faculty Profile

Mr. A.S. SHAGUL , M.TECH.,(Ph.D)
Assistant Professor - MECH

HIGHLIGHTS:

- Number of Journal Publications: 4 Awaiting
- H-Index: 0
- Project Funding Received: 0
- Patents Published: 5
- Patents Granted: 0

PROFESSIONAL LINKS:

- Anna University Faculty ID: 278039
- AICTE Faculty ID: 1-9467145122
- LinkedIn: https://www.linkedin.com/in/shagul27/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 3 Years
- Industrial Experience: Nil

AREA OF SPECIALIZATION:

- Additive Manufacturing

- CAD Software – Fusion 360

- Materials characterization

- Engineering Mechanics

- Product Development

NPTEL COURSE CERTIFICATION

- ADVANCED MANUFACTURING PROCESS (12 WEEKS)

- Metal Additive Manufacturing (12 WEEKS)

- 3D Printing and Design for Educators (12 WEEKS)

BOOK PUBLISHED

- **BOOK NAME:** POLYMER ADDITIVE MANUFACTURING: INNOVATIONS, APPLICATIONS, AND FUTURE DIRECTIONS

  ISBN: 978-1-300-40605-1

BOOK CHAPTER (SCOPUS INDEXED)

- Nano Materials – Springer Book Chapter

PAPER SUBMITTED TO JOURNAL (scopus under review)

1. Enhancing Impact Strength of FDM-Printed PLA through Taguchi Method Optimization.

2. Optimizing Fused Deposition Modeling (FDM) Parameters to Improve the Impact Resistance of Nano Calcium Carbonate-Coated Polylactic Acid (PLA) Components.

3. Performance analysis of modern EV Batteries: Efficiency, Longevity, and Future Innovations.

4. Advancements in Fused Deposition Modeling: Materials, Processes, and Emerging Trends in Polymer Additive Manufacturing.

IEEE - CONFERENCE PAPER

1. Cyber Bullying Detection using Deep Learning and Natural language processing Paper published at 5th International Conference on IoT based control networks and intelligent systems.

ATAL - Faculty Development Programme

1. Electric Vehicles: Technological Innovations and Market Trends at SAVEETHA ENGINEERING COLLEGE from 02/12/2024 to 07/12/2024.

2. AI DRIVEN PREDICTIVE ANALYTICS AND DECISION MAKING IN MANUFACTURING SUPPLY CHAIN at RAJALAKSHMI ENGINEERING COLLEGE from 27/01/2025 to 01/02/2025.

Patents

- **Patent Name:** BIOMIMETIC SWARM INTELLIGENCE FOR AUTONOMOUS

CYBERSECURITY MESH NETWORKS.
STATUS:PUBLISHED DATE:05/07/2024
APPLICATION NO:202441050314

- **Patent Name:** MALARIA INFECTED RED BLOOD CELLS USING IMAGE PROCESSING AND MACHINE LEARNING.
  STATUS: PUBLISHED DATE:05/07/2024
  APPLICATION NO:202441048275

- **Patent Name:** SELF- ADAPTIVE WIND TURBINE BLADE DESIGN WITH MORPHING TRAILING EDGE FOR ENHANCED ENERGY CAPTURE.
  STATUS: PUBLISHED DATE:19/07/2024
  APPLICATION NO: 202441052750 A

- **Patent Name:** MACHINE LEARNING ALGORITHMS FOR ADAPTIVE CONSENSUS MECHANISMS IN BLOCKCHAIN NETWORKS.
  STATUS: PUBLISHED DATE:19/07/2024
  APPLICATION NO: 202441052750 A.

- **Design - Patent Name:** INFRARED PROJECTOR FOR VEIN DETECTION.
  STATUS: PUBLISHED DATE:11/02/2025
  APPLICATION NO: 436455-001