



Sai SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC 'A+' | An ISO 9001:2015 Certified and MHRD NIRF ranked institution
Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairamit.edu.in



DEPARTMENT OF MECHANICAL ENGINEERING PERSONAL ATTENTION PARENTAL CARE

Name : ASHWIN SAILESH
 Designation : ASSISTANT PROFESSOR
 Email : ashwinsailesh.mech@sairamit.edu.in
 Qualification : B.E., M.E., (Ph.D)
 Specialization : COMPUTER AIDED DESIGN
 Research Interest : COMPOSITE MATERIALS



Experience in years : **Teaching** UG PG **Industry**

No. of Workshop/Conferences/
FDP / Webinar attended : Workshop & Webinar Conferences FDP

No. of Workshop/Conferences/
FDP/ Webinar Organized : Workshop & Webinar Conferences FDP

Professional Membership	<ul style="list-style-type: none"> ❖ SOCIETY OF AUTOMOTIVE ENGINEERS, INDIA (SAE) ❖ INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) ❖ QUALITY COUNCIL FORUM OF INDIA (QCFI) ❖ INDIAN WELDING SOCIETY (IWS) ❖ INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
Publications	National: NIL
	International: 12
	Book: NIL
Research Funded Projects	NIL
Consultancy	NIL
Patents	Published: 01
Academic Achievements	Achieved 100% result in the following subjects: Design of Machine Elements, Design of Transmission Systems, Strength of Materials, Manufacturing Technology – II, Engineering Graphics.

Recognitions & Honors	NIL
Any Other Information	<p>1. Faculty Advisor for the college team named “TEAM NITROSIT” participating in SAE SUPRA from 2016 till 2019.</p> <p>2. Faculty Advisor for the college team named “FURY OF GEARS” participating in SAE BAJA from 2019.</p>

List of Publications:

1. **Ashwin Sailesh**, K. Palanikumar, N. Mani, and A. Ponshanmugakumar. "A Review on the Sustainability Prospects of Bio Fibre Reinforced Composite Materials." In *Bio-Fiber Reinforced Composite Materials*, pp. 361-374. Springer, Singapore, 2022.
2. **Ashwin Sailesh** and K. Palanikumar. "Mechanical Properties of Flax-Cotton Fiber Reinforced Polymer Composites." In *Green Composites*, pp. 393-411. Springer, Singapore, 2021.
3. Kumaresan, G., G. Bharathiraja, G. Anbuhezhiyan, and **Ashwin Sailesh**. "Investigation on wear properties of super alloys using thermal barrier coating method." *Materials Today: Proceedings* 46 (2021): 4326-4330.
4. **Ashwin Sailesh**, R.Arunkumar, S.Saravaanan, “Mechanical Properties and Wear Properties of Kenaf–Aloe Vera–Jute Fiber Reinforced Natural Fiber Composites”, *Materials Today: Proceedings* 5 (2), 7184-7190, 2018
5. **Ashwin Sailesh**, P.Vignesh Pothiraj, B.Ranjith, A.Subashchandar, S.Ganesh, “Mechanical Properties of Aloe Vera-Jute-Glass Fiber Reinforced Polymer Matrix Composites”, *IOP Conference Series: Materials Science and Engineering* 390 (1), 012110
6. K.Palanikumar, T.Srinivasan, **Ashwin Sailesh**, K.Rajagopal, “Strength Validation and Morphological studies of Glass Fiber Reinforced with Polypropylene Matrix (GFR/PP) Composites”, *DEStech Transactions on Environment, Energy and Earth Sciences*, 2016
7. K.Palanikumar, J.M.Prabhudass, **Ashwin Sailesh**, “Experimental Investigation of Thermal Properties of Hybrid Glass Fiber – Sisal Reinforced Epoxy Composites”, *ASME* 2015
8. **Ashwin Sailesh**, K.Palanikumar, R.Arunkumar, V.Nisanth, R.Vignesh, A.Sabarish, K.Rajeshkannan, “Predicting the Best Tensile Strength of Banana – Bamboo – Glass Fiber Reinforced Natural Fiber Composites Using Taguchi Method”, *Applied Mechanics and Materials*, 766, 116-121, 2015
9. **Ashwin Sailesh**, K.Palanikumar, R.Arunkumar, P.Ramu, A.Maxwell Briston, E.Vijay Chandrakanth, “Predicting the Best Flexural Strength of Banana – Bamboo – Glass Fiber Reinforced Natural Fiber Composites Using Taguchi Method”, *Applied Mechanics and Materials*, 766, 162-166, 2015

10. **Ashwin Sailesh**, C.Shanjeevi, J.Jeswin Arputhabalan, “Tensile Strength of Banana–Bamboo–Glass Fiber Reinforced Natural Fiber Composites”, *Applied Mechanics and Materials* 592, 1195-1199, 2014

11. **Ashwin Sailesh**, C.Shanjeevi, “Predicting the best hardness of Banana-Bamboo-Glass fiber reinforced Natural fiber composites using Taguchi method”, *International Journal of Engineering Development and Research*, ISSN 2, 89-92, 2014

12. **Ashwin Sailesh** and S. Prakash. "S. Review on Recent Developments in Natural Fiber Composites." *International Journal of Engineering Research & Technology (IJERT)* 2, no. 9: 2523-2525, 2013.

List of Patents:

Published a patent on the topic “Portable Sugarcane Harvester”

Workshop / Webinars Attended:

S.No.	Name of the Workshop	Organizers	Mode of Program	Month & Year
1	Webinar on <i>How to Publish Research Articles in Reputed Journals</i>	Sathyabama Institute of Science and Technology	Online	June 2020
2	Workshop on <i>Additive Manufacturing</i>	S.A.Engineering College	Online	May 2020
3	<i>MECH 4.0 Technical Webinar Series</i>	Sathyabama Institute of Science and Technology	Online	May 2020
4	Webinar on <i>Hangout with Successful Start Ups</i>	Chennai Institute of Technology	Online	May 2020
5	Webinar on <i>Challenges in Integrating Nano Sensors to IoT Platform</i>	Chennai Institute of Technology	Online	May 2020
6	Webinar on <i>Fuzzy Logic and Neural Network Approaches for Engineering Solutions</i>	Journal of Advanced Engineering Research & Powered by Hexacube	Online	May 2020
7	Webinar on <i>Electric Vehicles - Opportunities</i>	Karpaga Vinayaga College of Engineering and Technology (in association with CADD Centre)	Online	April 2020
8	Workshop on <i>Advanced Materials and Manufacturing Methods (A3M)</i>	National Institute of Technology, Trichy	Offline	June 2016

FDP Attended:

S.No.	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month & Year
1	AICTE sponsored 2 weeks online FDP on <i>“Delivering Outcome Based Education (OBE) in Management Education: Objectives, Best Practices and Measurement of Outcomes”</i>	SAINTGITS College of Engineering (Autonomous)	Online	November 2020
2	Faculty Development Program on <i>“Ethical Practices in Engineering”</i>	Dept. of Mechanical Engineering, Sri Sairam Engineering College	Online	May 2020
3	AICTE Sponsored, <i>“Bio Degradable, Green and Nano Composites for Industrial Applications: Manufacturing Methodologies and Properties”</i>	Sri Sai Ram Institute of Technology	Offline	October 2017
4	19th Annual Convention for Faculty Members of Engineering Colleges – 2016 (Theme: <i>“Internationalization of Engineering Education – Empowering the Future”</i>)	Dr.N.G.P.Institute of Technology, Coimbatore	Offline	December 2016
5	AICTE Sponsored, <i>“Processing and Characterization of Composite Materials including Natural Fiber Reinforced Composites”</i>	Sri Sai Ram Institute of Technology	Offline	March 2015

Conferences Attended:

S.No.	Name of the Conference	Organizer	Month & Year
1	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021)	Pandit Deendayal Energy University	November 2021
2	International Conference on “Engineering Modeling, Analysis, Simulation and 3D Printing”	NAFEMS, India	August 2016
3	AMSME 2016	AMSME, Bangkok	March 2016

Programs Organized (via Dept. /Cells/Clubs):

S.No.	Name of the Program	Responsibility Held	Month & Year
1	International Conference on <i>Materials, Manufacturing and Mechanical Engineering for Sustainable Developments</i>	Co-coordinator	November 2020
2	AICTE Sponsored STTP on <i>Energy Storage Characteristics, Surface treatment, Durability , Sustainability and Micro Structural Evaluation of Smart and Phase Change Materials and Its Applications.</i>	Organizing Secretary	September 2020
3	Webinar on “ <i>Placements at SAE Events</i> ”	Program Coordinator	June 2020
4	Webinar on “ <i>Automotive Mechatronics – Global Trends and Opportunities</i> ”	Program Coordinator	May 2020
5	Five Days Short Term Webinar cum Online Training Program on “ <i>Intelligent Robotics and Machine Vision Technology (IRMVT)</i> ” – In Association with Indian Society for Technical Education (ISTE)	Program Coordinator	May 2020
6	Webinar on “ <i>Advanced Manufacturing Practices – Robot Automation and Industry 4.0</i> ”	Program Coordinator	May 2020
7	Webinar on “ <i>Applications on Artificial Intelligence in Manufacturing Industry</i> ”	Program Coordinator	May 2020
8	Webinar on “ <i>Use of MathCAD for Engineering Mathematics Subjects (UM4EM)</i> ”	Program Coordinator	May 2020
9	One Week Faculty Development Program on “ <i>Engineering and Management Teaching Pedagogy – An Industry Perspective</i> ”	Program Coordinator	May 2020

10	Webinar on <i>“3D Printing Applications in Fighting with COVID 19”</i>	Program Coordinator	May 2020
11	International Conference on <i>Advances in Materials Manufacturing and Applied Sciences 2017.</i>	Organizing Co-Secretary	March 2017
