

SRI SAI RAM ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL & AUTOMATION ENGINEERING

<p>Name: D. PRABU (prabu.mu@sairam.edu.in)</p>	
<p>Designation:</p>	<p>Associate Professor</p>
<p>Qualification:</p>	<p>B.Tech., M.Tech.(PhD).</p>
<p>Area of Specialization:</p>	<p>Product Design & Manufacturing</p>
<p>Experience:</p>	<p>Teaching - 17 Years 07 Months Industry – Nil</p>
<p>Number of Workshops/ Conferences/ FDP Attended:</p>	<p>WORKSHOP- 5 FDP: 24 International Seminar : 1</p>
<p>Publication:</p>	<p>Journal: National: 02 International : 05</p> <p>Conference: National: 02 International: 6</p>
<p>General:</p>	<p>To pursue a growing career in an organization that provides good assistance on learning new things and to give my best skill and efforts for the advancement of the institution and student community.</p>
<p>Staff Achievement</p>	<ul style="list-style-type: none"> ▪ Awarded NPTEL STAR and Domain expert. ▪ Completed NITTTR 8 Modules. ▪ Conducted 5 days FDP on UCMP. ▪ Conducted 3 Hands on Training programs. ▪ Published 1 SCI Journal paper with 2.4 impact factor. ▪ Produced 100% result in Mechatronics, Design and Manufacturing based subjects. ▪ Published 4 design patents & 2 utility patents.

Academic Background:

Course	Institution	Year of Passing	Board / University	Percentage of marks (%)
(PhD) Materials	Puducherry Technological University	-	Pondicherry University	-
M.Tech (PD&M)	Pondicherry Engineering College	2009	Pondicherry University	7.4 CGPA
B.E (Mechanical Engineering)	Regency Institute of Technology, Yanam	2006	Pondicherry University	69.8
HSC	Rajah Higher Secondary School	2002	State Board of T.N	68
SSLC	Navalar Nedunchezian Govt. Higher Secondary School	2000	State Board of T.N	61.6

Professional Experience:

Sl. No	College/Organization	Designation	Period From To	Total period	Nature of work
1.	Sri Sai Ram Engineering College	Associate Professor	05.09.2023 to Till Date	2 Years 4 Months	Teaching
2.	Sri Sai Ram Engineering College	Assistant Professor	20.06.2015 to 04.09.2023	8 Years 2 Months	Teaching
3.	SJS Paul memorial College of Engineering	Assistant Professor	05.06.2012 to 15.05.2015	2Years 11 Months	Teaching
4.	Bharath University	Lecturer	02.08.2008 to 31.05.2012	3Years 11 Months	Teaching

International Conferences Attended: 6

Papers published in the international conferences: 4

Short Term Course (Refresher courses) Attended: 10

Faculty/Staff Development /Training Program (Orientation programmes) Attended:

- Faculty Development Program on Automation in Manufacturing FDP – NPTEL held on July 25 to Oct 25 organized by NPTEL – AICTE.
- Six - Day Virtual Faculty Development Program on Innovations in Advanced Materials, Optimization and Sustainable Energy systems held on 15/12/2025 organized by SRM Ramapuram Chennai

- Faculty Development Program on Laser Based Manufacturing held on Aug 2024 organized by NPTEL – AICTE.
- One Week Faculty Development Program on ‘OBE & NEP 2020’ organized by IQAC, PBR VITS held on 10.06.2024 organised by VIT – AP University.
- One-day **Training program** on “IP AWARENESS / TRAINING PROGRAM” held on Aug 03rd 2022 organized by Intellectual Property Office, India
- Five days **Faculty Development Program on** “Research Opportunities and Future of Additive Manufacturing Engineering” held on 30th January 2023 organized by Sri Manakula Vinayagar Engineering College, Puducherry.
- Faculty Development Program on “Manufacturing Process Technology- I & II” held on 12 Weeks Course (Jan-Apr 2024) organized by NPTEL – AICTE
- Faculty Development Program on “Computer Integrated Manufacturing” held on 12 Weeks Course (Jan-Apr 2024) organized by NPTEL – AICTE
- One-Day Hands-on Workshop on “National Education Policy 2020 - Technology Integration” Hosted by Scrollwell in collaboration with Internal Quality Assurance Cell (IQAC)
- Faculty Development Program on “Functional and Conceptual Design” 12 Weeks Course organized by NPTEL – AICTE
- Faculty Development Program on “Tricks and Techniques for Research Article & Thesis Writing Using Modern E-Tools” held on 02-08-2023 organised by Baseliros Mathews II College of Engineering and Institution of Engineers (India) Kollam Local centre.
- Three days **Faculty development programme** on “Computer Aided Design and Usage of Software” from 4th August to 6th August 2016 at Sri Sairam Engineering College.
- Five days **Faculty Development Program on** “Autodesk Inventor” on 4th June 2018 to 8th June 2018 Conducted by ICT Academy at Sri Sai Ram Institute of Technology, Chennai.
- Five days **Faculty Development Programme** on “Engineering Teaching Pedagogy and Teaching Learning Process” from 03.12.2018 to 07.12.2018 at Sri Sairam Engineering College.

- Six days **Faculty Development Programme** on “Robotics” from 13th may 2019 to 18th may 2019 at Sri Sairam Engineering College.
- Six days **Faculty development programme** on “Working Culture for Professionals” from 11th November 2019 to 16th November 2019.
- Two weeks refresher course of “Advancements in Mechanical, Production & Civil Engineering and ICT in Teaching – Learning Process” Organized by Sri Sai Ram Engineering College from 13th May to 26th May.
- 5 days online **Faculty development program** on “Emerging Trends in Mechanical Engineering” organized by department of Mechanical engineering, St. Peters Engineering college, Hyderabad from 02.06.2020 to 06.06.2020
- AICTE Training and Learning (ATAL) Academy online **FDP** on “3D Printing & Design” from 19.10.2020 to 23.10.2020 organized by Dr. N. G. P. Institute of Technology.
- AICTE Training and Learning (ATAL) Academy online **FDP** on “Waste Management” from 26.10.2020 to 30.10.2020 organized by Dr. M. G. R. Educational and Research Institute.
- AICTE Training and Learning (ATAL) Academy online **FDP** on “Electric Vehicles” from 30.11.2020 to 04.12.2020 organized by IFET College of Engineering.

Resource person in FDP:

Workshops Attended:

- One-day workshop on “Value Engineering using ANSYS” held on 19th August 2016 at Sri SaiRam Engineering College.
- Three days workshop on “Creo Parametric D Modelling Software and its Applications” at Sri Sairam Engineering College from 13th to 15th June 2018.
- One-day workshop on IPR Arena – Patent Filing Procedure on 21st June 2018 at Sri Sairam Engineering College.
- One-day workshop on Research Scopes in Mechanical Science conducted by Chennai Institute of Technology on 07.05.2020.

Events organized:

- Seven days Faculty Development Program on Unconventional Machining Processes from 26.07.2021 to 02.08.2021
- ISTE Sponsored two days Hands on Training Program on Embedded system with IoT using ESP 8266 from 09.10.2023 to 10.10.2023
- IEEE IMS Sponsored Training Program on “Igniting Entrepreneurial Skills” held on 23.06.2023.
- Five days Hands on Training Program on “Advanced Welding processes” from 19.02.2024 to 23.02.2024.
- IEEE IMS Sponsored Guest Lecture on Design and Validation of Automation and its components held on 10.04.2024

Funded Projects:**List of publications in international journals:**

1. T. Babu, **D. Prabu**, P. Vijayarajan, M. Murugan, J. Jeykrishnan, “Design and Analysis of composite leaf spring under fatigue load condition”, International Journal of Engineering Technology Research & Management, Volume 1, Issue 02, 2017, 1-4.
2. **D. Prabu**, T. Babu, K. Pradeep, S. Sanjay Arun, “A review on mechanical properties of Intra – Layer palm fiber (Palmyra Spout) –Flax – S Glass fiber reinforced composite. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 8, Issue 3, June 2018, 489-498.
3. **D Prabu**, A Giriprasath, S Gugan “Design and Fabrication of Bevel Gear Operated Bicycle” Journal of the Gujarat Research Society 21 (17), 2151-2166.
4. **D Prabu**, S Viknesh, A Giriprasad “Design and Development of a Prototype Thermal Power Plant for Recycling of Sea Water By Distillation Process” IOP Conference Series: Earth and Environmental Science 573 (1), 012014.
5. **D Prabu**, A Giriprasath, S Viknesh “Design and fabrication of solar water distillation with conventional solar still” Journal of Physics: Conference Series 2054 (1), 012008.
6. **D. Prabu**, A. Giriprasath, V. Prasanna, G. Mohanakrishnan “Mechanical Behaviour of Palm Fiber (Palmyra Spout) - Basalt Fiber - Hybrid Composites” International Journal of Innovative Technology and Exploring Engineering.
7. **D. Prabu**, A. Ajay, E. Praveen Kumar, K. Vijaya Kumar “Inbuilt Jack in A Four-Wheeler by Using Hydraulic Actuation System” Journal of Emerging Technologies and Innovative Research 6 (05)

8. C Gurumurthy Veerapathiran, **Prabu Dhanapal**, Ranjithkumar Koumarave “Power Transmission Through Timing Belt in Two Wheeler Motors” Int. Journal of Engineering Research and Applications www.ijera.com.
9. **Prabu D**, K Palaniradja, “Wear behaviour of T4 and T6 heat treated LM28 composite reinforced with ZrO₂ particles by stir casting method” Materials Research Express 2024-11-01 | Journal article, DOI: 10.1088/2053-1591/ad8867
10. P. Ramshankar; Eric Howard; Vellayan Srinivasan; **D. Prabu**; Joshuva Arockia Dhanraj, “Nanoscale characterization and imaging techniques for material analysis” AIP Conference Proceedings 2025 | Conference paper DOI: 10.1063/5.0277578
Indexed in: Scopus, Google Scholar

Online Courses Attended

NPTEL Courses:

1. 12 Week course on “**Engineering Metrology**” July – Oct – 2018
2. 8 Week course on “**Inspection and Quality Control in Manufacturing**” Feb – March – 2021
3. 12 Week course on “**Fundamentals of Artificial Intelligence**” –
4. 12 Week course on “**Automation in Manufacturing**”
5. 12 Week course on **Manufacturing Systems Technology I & II**
6. 8 Week course on **Laser Based Manufacturing**
7. 12 Week course on “**Computer Integrated Manufacturing**”
8. 12 Week course on “**Functional and Conceptual Design**”
9. 8 Week course on **Accreditation and Outcome Based Learning**
10. 12 Week course on **Manufacturing Process Technology I & II**

Coursera:

1. Advanced Manufacturing Process Analysis
2. AI for Everyone
3. Air Pollution – a Global Threat to our Health
4. COVID-19: What You Need to Know (CME Eligible)
5. Create Customer Support Data with Google Sheets
6. Create Informative Presentations with Google Slides
7. Digital Manufacturing & Design

8. Getting Started with Google Sheets
9. Improve Business Performance with Google Forms
10. Introduction to Google Docs
11. Spreadsheets for Beginners using Google Sheets
12. The Sustainable Development Goals – A global, transdisciplinary vision for the future