Mr. G. PRABAHARAN

Assistant Professor

PROFILE

I am passionate about research in the field of Tribology. I have 10 years of experience in Teaching.

CONTACT

PHONE:
+91 9500199154

EMAIL:
prabaharang@saec.ac.in

AREA OF INTEREST

- Tribology Mechanical Behavior Engineering Materials
- Nano Biodegradable Marine Lubricant
- Metal Forming Superplastic forming Tool Design (Jigs, Fixtures and Press Tools)

EDUCATION

(Ph. D)
[January 2021 session – ongoing]
S.A. Engineering College
Anna University

M.E. COMPUTER AIDED DESIGN
[2011 – 2013]
Sri Venkateshwara College of Engineering, Pennalur
Anna University

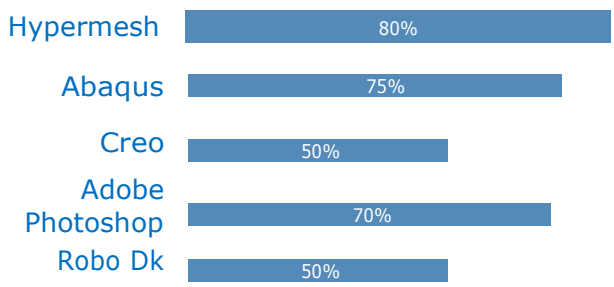
B. TECH MECHANICAL ENGINEERING
[2007 – 2011]
Dr. MGR Educational and Research Institute, Chennai
Dr. MGR University

WORK EXPERIENCE

S.A. Engineering College (Autonomous) - Assistant Professor
[04.06.2015 – till date]

Sri Muthukumaran Institute of Technology - Assistant Professor
[July 2013 to April 2015]

SKILLS



ADDITIONAL RESPONSIBILITES

1. AMM **ISO process Incharge** for Mechanical Department
2. Exam cell COE Member
3. Department Social Media Posters Design Work
4. Mechatronics & Robotics Lab Incharge
5. Robotics Club Coordinator for S.A.Engineering College

JOURNAL PUBLICATION

Modelling and Analysis of the Tribological Evaluation of Bearing Materials under the influence of Nano Based Marine Lubricant using D-Optimal Design, Materials Today: Proceedings 5 (2018) 11548–11555

Effect of silica nanoparticles and modified silica nanoparticles on the mechanical and swelling properties of EPDM/SBR blend nanocomposites

Comparison of Experimental and Numerical Studies on Superplastic Forming of Rectangular Box Shape using AZ31 Magnesium Alloy Sheet Prabaharan et al. 2020. Int. J. Vehicle Structures & Systems, 12(2), 201-204 International Journal of Vehicle Structures & Systems Available online at www.maftree.org/ejaISSN:0975-3060 (Print), 0975-3540 (Online) Doi: 10.4273/ijvss.12.2.19

PATENT PUBLISHED

Cross Flow Square Section Electrode Anode Pattern For PEMFC
App No.: 202241069224
Date: 09.12.2022

Novel X electrode flow channel to Improve the performance of PEMFC
App No.: 202241008128
Date: 25.02.2022

Project Guidance:

- Supervision of various projects undertaken for UG Students project work on super plastic forming with Fabrication, Design and analysis.
- Supervision of Friction Stir Welding and Cold Metal Transfer projects for final year students.
- Supervision of Evaluation of Tribological Characteristics of Nano Additives Dispersed Biodegradable Rapeseed Oil for PG student Phase – I work.
- Supervision of Design and Fabrication of Trepanning Operation for UG students.

Conferences/Workshops/Seminars/FDP Attended:

- National Conference - 2
- International Conference - 2
- Workshop – 12
- FDP – 18
- Seminar – 12
- Certified Training Program – 2
- Industrial Training - 1

Major Subjects Handled:

- Engineering Graphics
- Engineering Mechanics
- Strength of Materials
- Fluid Mechanics
- Manufacturing Technology I
- Manufacturing Technology II
- Engineering Metrology and measurements
- Finite Element Analysis
- Professional Ethics in Engineering
- Design of Machine Elements
- Design of Transmission Systems
- Unconventional Machining Process
- Additive Manufacturing
- Robotics
- Engineering Economics and Cost Analysis
- Production Planning and Control
- Integrated Mechanical Design (M.E.CAD/CAM)
- Quality Management Techniques (M.E.CAD/CAM)
- Product Life Cycle Management (M.E.CAD/CAM)