

Mr. M. Vivek Prabhu, M.E., (Ph.D.)

Assistant Professor / Mechanical Engineering

Velammal College of Engineering and Technology, Madurai

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Educational Qualification:

- Ph.D. (Pursuing) - Registered at Anna University, Chennai - 2015
- M.E. CAD/CAM – First Class – Completed in the year 2013
- B.E. Mechanical Engineering – First Class – Completed in the year 2011

Experience in Years: 8 Years

Employment History:

- Presently working as an Assistant Professor in Mechanical Engineering Department at “Velammal College of Engineering and Technology” Madurai since July 2013.

Interested Research Areas:

Processing of MMCs, Material joining technologies, Process and Parameter Optimization, Additive Manufacturing, Automation and Robotics

Scholarships and Awards received:

- Guided the Project “Cascade Hive” which was recognized in National level innovation contests such as AICTE’s Chhatra Viswakarma Award, 3M-CII Young Innovators Award.
- Guided the Project “The Cormorant Drone” which was recognized by DRDO in the National Level event DRUSE 2018

Funded Research Projects:

1. Funding Agency : BIRAC

Scheme : BIG

Title : Deworming Drench Gun

Sanctioned Amount : Rs.27.60 Lakhs.

Year : 2018

PI : Dr.M. Maran, Professor (Mechanical Engg. Dept.)

Co-PI : Mr. M. Vivek Prabhu, Assistant Professor (Mechanical Engg. Dept.)

2. Funding Agency : DST
Scheme : DST/TDT/BDTD
Title : Hemiplegia Therapy Device for Stroke Patients
Sanctioned Amount : Rs.34.03 Lakhs.
Year : 2019
PI : Dr.M. Maran, Professor (Mechanical Engg. Dept.)
Co-PIs : Dr. T. Kamatchi, Associate Professor (Mechanical Engg. Dept.)
Mr. M. Vivek Prabhu, Assistant Professor (Mechanical Engg. Dept.)
Mr. K. Meenakshi Sundar, Assistant Professor (Mechanical Engg. Dept.)

Extension Activities:

Delivered a guest lecture in 5 days workshop on “Direct Digital Manufacturing (DDM’17) organized at Mepco Schlenk Engineering College, Sivakasi on the topic “Integration of CAD/CAM and Rapid Prototyping in Product Development” on 21.02.2017

Membership in Professional Societies:

1. Life Member in Society of Automotive Engineers (SAE)
2. Life Member in Indian Welding Society (IWS)
3. Life Member in Indian Society for Non-destructive Testing (ISNT)
4. Life Member in International Association of Engineers (IAENG)

Patent rights received: 01

Publications Details:

Patent Application Number : TEMP/E-1/10090/2021-CHE
Patent Title : ANKLE REHABILITATION DEVICE

1. Patent Journal Publication Details:

Patent Application Number : TEMP/E-1/10090/2021-CHE

2. International Journal Publication Details:

1. “**Joining of hybrid AA6063-6SiC p-3Gr p composite and AISI 1030 steel by friction welding**” published in Defence Technology, Volume 13 and Issue 5 in the year 2017.
2. “**Optimization of Overall Equipment Effectiveness in a Manufacturing System**” published in the International Journal of Innovative Research in Science, Engineering and Technology, Volume 3, in the year 2014.
3. “**Evaluation of bending strength in friction welded alumina/mild steel joints by applying factorial technique**” published in the International Journal of Modern Physics: Conference Series Vol. 22, pp. 184-189 in the year 2013.

3. International Conference Presentation Details:

1. **A Review on the Friction Welding of Ceramics and Composites with Metals** in the International Conference on Advances in Materials and Manufacturing (ICAMM - 2016) organised by DRDL and Osmania University, Hyderabad on 08-10, December 2016
2. **Regression Modeling of Friction Welding of Aluminium Silicon Carbide Composite** presented in the International Conference on Fascinating Advancement in Mechanical Engineering (FAME2016), 18-19, March 2016
3. **Prediction of production cost in TN dairy industry by applying Regression techniques** in the 3rd International Conference on Advanced Design and Manufacturing (ICADM – 2015) organised by Sethu Institute of Technology, Madurai on 10.04.2015
4. Posted a paper entitled **“Evaluation of bending strength in friction welded alumina/mild steel joints by applying factorial technique”** in the International Conference on Ceramics (ICC-12) by the Govt. Engg. College, Bikaner and Ceramic Electrical Research & Development Centre, Bikaner.

4. National Conference Presentation Details:

1. A Comprehensive Study of TN Dairy Industry and Prediction of Milk Procurement Price in National Conference on Recent Advancement in Materials, Manufacturing and Management (NCRAMMM 2015) on April 01, 2015
2. Numerical analysis of Friction Stir Welding of Al-SiC-Gr hybrid composites in National Conference on Innovations in Engineering, Science and Technology (NCIEST) on 6-7 March 2015
3. Dynamic Pricing Model for Procurement cost in a Dairy Production system in National Conference on Innovations in Engineering, Science and Technology (NCIEST) on 6-7 March 2015
4. A Review on OEE Measuring, Monitoring and Management systems in National Conference on Innovations in Engineering, Science and Technology (NCIEST) on 6-7 March 2015

5. Google Scholar report:

<https://scholar.google.co.in/citations?user=ymwkxfQAAAAJ&hl=en>