# Dr Ravikantha Prabhu

Associate Professor Department of Mechanical Engineering **St Joseph Engineering College, Vamanjoor** Mangaluru *Mobile*: +91 9035518513 *Email*: <u>prabhukinnigoli@yahoo.com</u>



# Objective

Looking for an organization that lends me a supportive and co-operative learning environment with ample chances to contribute and diversify my knowledge and skills, challenges me intellectually and offers me a good potential for future growth.

# **Professional Experience**

Working as an Asst. Professor in the Department of Mechanical Engineering (Accredited by NBA, New Delhi) of St. Joseph Engineering College, Vamanjoor, Mangaluru since Aug 2009 till date.

### **Educational Qualifications:**

Degree	College/ University	Year of Passing	Grade
PhD	Visvesvaraya Technological University	2022	-
M. Tech	St Joseph Engineering College, Vamanjoor, Mangalore	2012	FCD 83% (First Rank)
B. E	St Joseph Engineering College, Vamanjoor, Mangalore	2009	FCD 80%
PUC	Pompei Pre University College	2005	FC 84%
SSLC	Pompei High School	2003	FC 80%

# **Research Papers Presented:**

**International Conference** 

- Sudheer M, Ravikantha Prabhu, Raju K, Thirumaleshwara Bhat, "Dry Sliding Wear behavior of Potassium Titanate Whisker Reinforced Epoxy Based Polymer Matrix Composites", Third International Multi-Component Polymer Conference (IMPC-2012), 23-25<sup>th</sup> March 2012, M G University, Kottayam (Kerala).
- 2. Anil Antony Sequira, **Ravikantha Prabhu**, N. S. Sriram and Thirumaleshwara Bhat, "Modified Method of Estimation of Specific Cutting Pressure for Mechanistic Cutting Force Models", International Conference on Emerging Trend if Engineering (ICETE), 2012, pp. 177-182.

### **National Conference**

- Sudheer M, Ravikantha Prabhu, Raju K, Thirumaleshwara Bhat, "Effect of Ceramic Micro- Whiskers on Tribo-Performance of Epoxy Resin Composites – A Taguchi Approach", National Conference on Emerging Trends in Materials for Advanced Technology (NETMAT), 20-21<sup>st</sup> March 2012, KVGCE, Sullia, Karnataka.
- Sudheer M, Ravikantha Prabhu, Raju K, T Bhat, "Hybrid effect of ceramic whiskers and graphite flakes on mechanical and dry sliding performance of epoxy composites", National Conference on challenges in research and technology (CRT – 2013), SDMIT, Ujire, Dakshina Kannada, Karnataka.

### **International Journal Published**

- 1. M. Sudheer, **Ravikantha Prabhu**, K. Raju, and Thirumaleshwara Bhat, "Optimization of Dry SlidingWear Performance of Ceramic Whisker Filled Epoxy Composites Using Taguchi Approach", Advances in Tribology, Volume 2012, Article ID 431903, 9 pages.
- 2. M. Sudheer, **Ravikantha Prabhu**, K. Raju, and Thirumaleshwara Bhat "Modeling and Analysis for Wear Performance in Dry Sliding of Epoxy/Glass/PTW Composites Using Full Factorial Techniques", ISRN Tribology, Volume 2013, Article ID 624813, 11 pages.
- Mudradi Sudheer, Ravikantha Prabhu, Kandavalli Raju, and Thirumaleshwara Bhat, "Effect of Filler Content on the Performance of Epoxy/PTW Composites", Advances in Materials Science and Engineering, Volume 2014, Article ID 970468, 11 pages

#### National Journal Published

1. Anil Antony Sequira, **Ravikantha Prabhu**, N. S. Sriram and Thirumaleshwara Bhat, " Effect of Cutting Parameter on Cutting Force and Surface Roughness of Aluminium Components Using Face Milling Process- A Taguchi Approach", NMAMIT, Nitte, Annual Research Journal, Volume 3, October 2013, ISSN 2249-0426, pp. 29-35.

# Workshops/ Seminar Attended:

1. Intellectual Property Rights (IPR) workshop held at Canara Engineering College, Benjana Padav on 17<sup>th</sup> March 2009.

- 2. Seminar on "Sustainable Urban Development- Engineers Role" held on Saturday, 26<sup>th</sup> February, 2011 at Occean Pearl Hotel, Mangalore Organized by Kodagu Dakshina Kannada and Udupi Engineer's Association.
- 3. Three- Day National level workshop on "Mechatronics and MEMS" conducted by SDM institute of Technology, Ujire on 20-22 October 2011.
- 4. Two-week ISTE workshop on "Computational Fluid Dynamics", Conducted by IIT Bombay from 12<sup>th</sup> to 20<sup>th</sup> June, 2012 at MIT, Manipal.
- 5. Two-week ISTE workshop on "Engineering Thermodynamics", Conducted by IIT Bombay from 11<sup>th</sup> to 21<sup>st</sup> November, 2012 at SIT, Mangalore.
- 6. Three day work shop on "Application of Statistical and Soft Computing Techniques in Engineering Research", Conducted by CEC, Benjanpadav from 29<sup>th</sup> -31<sup>st</sup> July 2013.

# **Training Program Attended:**

- 1. One week on job training at Mandovi Motors Private Limited from 1<sup>st</sup> to 7<sup>th</sup> August 2008.
- 2. Completed the professional training course in CATIA V5 from SDS Private Limited, Bangalore.

### **Projects carried out:**

# Experimental and Statistical Analysis of Tribological Properties of Ceramic Whisker Reinforced Epoxy Composites

This work was mainly focused on development and evaluation of tribological properties of a new class of epoxy based composites filled with ceramic micro-whiskers namely Potassium Titanate Whiskers (PTW). The PTW (0-15 wt% in steps of 5 wt %) were reinforced in epoxy resin to prepare whisker reinforced composites of different compositions. The influences of the Sliding velocity, Normal load, Filler content and Sliding distance on both the wear rate and coefficient of friction were studied using the pin-on-disk test set up. Density and hardness of the composites were found to increase with PTW content. The experimental results showed that inclusion of PTW improved the wear resistance properties of composites. The morphology of the worn out surfaces were analyzed to understand the wear mechanisms.

### **Personal Details:**

Date of Birth	:	6 <sup>th</sup> March 1988
Fathers Name	:	Anantha Prabhu
Languages known	:	English, Hindi, Kannada, Tulu and Konkani
Nationality	:	India
Field of Interest	:	Composite Materials
Personal skills	:	Creative problem solving ability
		Good presentation and communication skills.

I hereby declare that all the information given above is true to the best of knowledge and belief.

Date: Place:

# (RAVIKANTHA PRABHU)