




# P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

## Faculty Profile

### General

Name	T M DEVEGOWDA	
Designation,	Assistant Professor	
Department & Affiliated Institution	Department of Mechanical Engineering, P.E.S College of Engineering, Mandya – 571 401	
Research Area	Production, Wire EDM and Machine Vision	
Contact Number	+91 9480765646	
Email ID	<a href="mailto:tmdgowda9@gmail.com">tmdgowda9@gmail.com</a>	

### Academic Profile

#### Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
PG (Dip. in Sugar Engg.)	VSI, Pune	VSI, Pune	1998	---	II - Class
B. E.	PESCE, Mandya	Mysore University	1992	61	First Class

#### Professional Experience

Organization and Department	Designation	Period	Total Experience
P.E.S. College of Engineering, Mandya	Lecturer	1998-2008	9.5 Years
P.E.S. College of Engineering, Mandya	Assistant Professor	2008 to Till date	13 years

### Reports on Academic and Research Activities

#### Academic Activities

Teaching Records (Details of courses taught)	Elements of Mechanical Engineering, Organizational Behavior, Production Management, Engineering System Design, Operation Research, Engineering Drawing, Basic Thermodynamics, Applied Thermodynamics, Fluid Mechanics.
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#### Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Awarded	Nil	Nil	Nil
Pursuing	Nil	Nil	Nil

#### Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
Nil	Nil	Nil	Nil

#### Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	Nil	07
Conferences/Symposia	Nil	10

#### Other Important Responsibilities Held in the College

1. Worked as Student welfare officer.	5. Working as BOE Member
2. Worked as anti ragging committee member.	6. Working as BOS Member
3. Worked as MEA secretary	7. Working as Attendance Committee Chairman
4. Worked as BOE chairman	8. Worked as Covid-19 Nodal Officer

# **LIST OF PUBLICATIONS**

## **International Journal**

1. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, “**Effect of Wire Electrode Materials on Performance Characteristics for Wire Electrical Discharge Machining of Metal Matrix Composite Material**” ASME International Mechanical Engineering Congress and exposition, PP. 1-5, ISBN: 978-0-7918-8448-5, 2021
2. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, “**Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si<sub>3</sub>N<sub>4</sub> using Vision System**” Journal of Critical Reviews, Vol. 7, PP. 2590-2599, ISSN: 2394-5125, 2020.
3. Gurupavan H R, H.V. Ravindra, **Devegowda T. M**, “**Prediction and Comparison of Vision Parameter of Surface Roughness in WEDM of Al-6%Si<sub>3</sub>N<sub>4</sub> and Al-10%Si<sub>3</sub>N<sub>4</sub> Using ANN**” Lecture Notes on Multidisciplinary Industrial Engineering, PP. 361-371, ISSN 2522-5022, 2019.
4. Gurupavan H R, H.V. Ravindra, **Devegowda T. M**, “**Surface Roughness Measurement of WEDM Components Using Machine Vision System**” Lecture Notes in Electrical Engineering, Vol.545, PP. 539-547, ISSN 1876-1100, 2019.
5. Gurupavan H R, H.V. Ravindra, **Devegowda T. M**, Rudreshi Addamani, “**Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi<sub>3</sub>N<sub>4</sub> MMC’S**” IOP Publishing: Materials Science and Engineering Vol. 376, PP. 012120, 2018.
6. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, G. Ugrasen, “**Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material Using ANN**” Materials Today: Proceedings, Vol. 4, PP. 10035–10038, 2017.
7. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, “**Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material**”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol 2, PP. 714-719, 2017.

## **International Conferences**

1. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, “**Effect of Wire Electrode Materials on Performance Characteristics for Wire Electrical Discharge Machining of Metal Matrix Composite Material**” ASME International Mechanical Engineering Congress and exposition (IMECE-2020) Portland, OR, USA, November 16-19, 2020.
2. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, “**Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si<sub>3</sub>N<sub>4</sub> using Vision System**” International Conference on Advances in Mechanical Engineering Sciences (ICAMES-2K20), PESCE, Mandya, Feb. 28<sup>th</sup>-29<sup>th</sup>, 2020.
3. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, “**Prediction of Vision Parameters of Surface roughness and Wire Wear in Wire-EDM of Al-10 wt.% Si<sub>3</sub>N<sub>4</sub> MMC Material using ANN**” International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019), VBS Purvanchal University, Jaunpur, Uttar Pradesh, Nov. 16<sup>th</sup>-18<sup>th</sup>, 2019.
4. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, “**Prediction and Comparison of Vision Parameter of**

**Surface Roughness in WEDM of Al-6%Si<sub>3</sub>N<sub>4</sub> and Al-10%Si<sub>3</sub>N<sub>4</sub> using ANN**", All India Manufacturing Technology, Design and Research (AIMTDR-2018), College of Engineering Guindy, Anna University, Chennai, Dec. 13<sup>th</sup>-15<sup>th</sup>, 2018.

5. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, **"Estimation of Machine Vision parameters of Surface roughness and Wire wear in Wire EDM of Al-Si<sub>3</sub>N<sub>4</sub> Metal Matrix Composite Material using Artificial Neural Network"** ASME International Mechanical Engineering Congress and exposition (IMECE-2018), David L. Lawrence Convention Center, Pittsburgh, PA, USA, Nov.09-15, 2018.
6. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, **"Surface Roughness Measurement of WEDM Components using Machine Vision System"** International Conference on emerging research in electronics, computer science and technology (ICERECT-18), PESCE, Mandya, Aug. 23<sup>rd</sup>-24<sup>th</sup>, 2018.
7. Gurupavan H R, H.V. Ravindra, **T.M. Devegowda**, Rudreshi Addamani, **"Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi<sub>3</sub>N<sub>4</sub> MMC'S"** International Conference on Advances in Manufacturing, Materials & Energy Engineering, MITE, Mangalore, Mar. 02<sup>nd</sup>-03<sup>rd</sup>, 2018.
8. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, **"Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material"** International Conference on advances in mechanical engineering sciences (ICAMES-17), PESCE, Mandya, Apr. 21<sup>st</sup>-22<sup>nd</sup>, 2017.
9. Gurupavan H R, **T.M. Devegowda**, H.V. Ravindra, G. Ugrasen, **"Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material Using ANN"** International Conference on Recent Trends in Engineering and Materials Science (ICEMS- 2016), Jaipur National University, Jaipur, Mar. 17<sup>th</sup>-19<sup>th</sup>, 2016.
10. Gurupavan H R, **T.M. Devegowda**, Monisha P, H.V. Ravindra, **"Optimization of machining parameters in WEDM of Al-Si<sub>3</sub>N<sub>4</sub> metal matrix composite material using Taguchi Technique"**, International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-9, IIT-Bombay, Dec. 10<sup>th</sup>-12<sup>th</sup>, 2015.