



## Dr. P . Prabhuraj

Faculty Id	:	
Date of Birth	:	3 <sup>rd</sup> June , 1980
Designation	:	Associate Professor.
Years of Experience	:	Teaching : 13 years
		Industry : 2years
Email Id	:	Prabhuraj60@gmail.com
Phone Number	:	9444160388
Faculty Web Page	:	
Employment Status	:	Full Time - Ratified (Mechanical Department) by JNTUH
Areas of Specialization	:	<ul style="list-style-type: none"><li>• Manufacturing Technology.</li><li>• Material Joining.</li><li>• Stress corrosion cracking.</li><li>• Mechanical Behaviour of Materials.</li><li>• Engineering Mechanics</li></ul>
UG Degree	:	MECHANICAL ENGINEERING,2001, University of Madras, State Government University, Tamil Nadu
PG Degree	:	Manufacturing Engineering, 2004, Annamalai University, State Government University, Tamil Nadu.
Ph.D	:	Manufacturing Engineering, 2018, Annamalai University, State Government University, Tamil Nadu.
Ph.D Thesis topic	:	Investigation on Corrosion Behaviour of Friction Stir Welded High Strength Aluminium Alloy.
UG Subjects Taught	:	Manufacturing Process, Engineering Mechanics, Strength of Materials, Engineering Drawing, Kinematics of Machinery, Gas Dynamics and Jet Propulsion, Engineering metrology and measurement, Production Planning and Control, Unconventional Machining Process, Industrial Management.

subjects Taught

: Mechanical Behaviour of Material and Advance manufacturing techniques.

## Papers Published:

### International and National Journals

- ☞ **P.Prabhuraj**, S.Rajakumar, V.Balasubramanian. Evaluating stress corrosion cracking behaviour of high strength aa7075-t651aluminium alloy, in *Mechanical behaviour of materials*,<https://doi.org/10.1515/jmbm-2017-0019>2017.  
<https://www.degruyter.com/.../j/jmbm.ahead.../jmbm-2017-0019/jmbm-2017-0019.xml>
- ☞ **P.Prabhuraj**, S.Rajakumar and V.Balasubramanian, Developing an empirical relationship to predict the corrosion rate of high strength AA7075-T651 aluminium alloy under salt fog environment, *International journal of electroactive materials*, Vol.4 (2016) pp 44-49. [www.electroactmater.com/index.php/volume-4-2016?id=60&subid=276](http://www.electroactmater.com/index.php/volume-4-2016?id=60&subid=276)
- ☞ **P.Prabhuraj**, S.Rajakumar and V.Balasubramanian, Paper Entitled 'Review of stress corrosion cracking behavior in high strength heat treatable aluminum alloys *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.49 (2015). <https://www.ripublication.com/Volume/ijaerv10n49spl.htm>
- ☞ **P.Prabhuraj**, Prediction of Weld bead Penetration in Plasma Transferred arc Hard faced 316LN Austenitic stainless steel substrate, *journal of mines, metals & fuels special edition mechanical engineering volume 2-2015*,  
<https://www.ripublication.com/Volume/ijaerv6n11.htm>
- ☞ **P.Prabhuraj**, S.Rajakumar2 ,V.Balasubramanian , Experimental investigation on mechanical and metallurgical properties of the friction stir welded aa7075-t651 aluminium alloy joint, *Journal of Chemical and Pharmaceutical Sciences JCHPS Special Issue 9: April 2015*,
- ☞ S. Sathiyaraj, **P. Prabhuraj**, Suraj Mondal Sai, jeebanpatra, Shashankkumar, Investigation of machining characteristics of tungsten carbide by wire cut EDM process, *Journal of Chemical and Pharmaceutical Sciences JCHPS Special Issue 9: April 2015*,
- ☞ R.Thamaraikannan, **P.Prabhuraj**, S.Sathiyaraj, A.Elanthiraiyan, S.Sivaguru, Characteristics of Titanium by EDM Process using Taguchi Methods of Analysis *International Journal of Current Engineering and Technology*, Vol.4, No.4 (Aug 2014)

- ☞ **Prabhuraj**, S.Rajakumar, and V. Balasubramanian, Mechanical and corrosion behaviour of friction stir welded AA7075 T-651 aluminium alloy joints, *Journal of Manufacturing Engineering*, Vol. 11, (2016), pp.234-238.
- ☞ **P.Prabhuraj**, S.Rajakumar, V. Balasubramanian. Optimising salt fog corrosion parameters to minimising the corrosion rate of AA7075-T651 alloy. Accepted in *Materials Today*. Elsevier

### International and National Conferences:

- ☞ **P.Prabhuraj**, S.Rajakumar, V. Balasubramanian Paper Entitled 'Stress corrosion cracking of high strength heat treatable aa7075t6 aluminum alloy, in national conference on RAWS 2014, Organized by Department of Manufacturing Engineering, **Annamalai University**, Chidambaram, Tamil Nadu.
- ☞ **P.Prabhuraj**, S.Rajakumar, V. Balasubramanian and K. Sridhar. "Evaluating stress corrosion cracking behavior of marine super structural AA7075-T651 aluminum alloy, 'APCCC'2016, Organized by Department of Material science and Metallurgy Engineering, **Indian Institute of Technology** Bombay, Mumbai
- ☞ **P.Prabhuraj**, S.Rajakumar, V. Balasubramanian Paper Entitled 'Corrosion behavior of friction stir welded 7075 aluminum alloy joints. in international Symposium on **NACE 2014**, Organized by Department of Material science and Metallurgy Engineering, **Indian Institute of Technology Bombay**, Mumbai
- ☞ **P.Prabhuraj**, S.Rajakumar, V. Balasubramanian Prediction of Weld bead Penetration in Plasma Transferred arc Hardfaced 316LN Austenitic stainless steel substrate, in international conference on engineering management 2014, Organized by Department of Mechanical Engineering, Jeppiar Engineering College,, Chennai , Tamil Nadu.
- ☞ **P.Prabhuraj**, Presented paper in the National Conference on "**SMNCRTME14** in the title of "CFD based analysis of kinetic energy and flow distribution in the corrugated plate heat exchanger", organized by SBM College of Engineering, Dindugal, Tamil Nadu.
- ☞ **P.Prabhuraj**, Presented paper in the National Conference on "Trends in Manufacturing Engineering", TIME 2012 in the title of "Effect of corrugated plate angle on temperature distribution in heat exchanger by using CFD", organized by Saveetha University, Chennai
- ☞ M. Loganathan and **P.Prabhuraj**, Paper published in international conference **ICETEEM 2012'** in the title of 'alternate energy source for self-reliant in India, organized by Department of Electrical and Electronics Engineering, AVIT,

Chennai, Tamil Nadu.

☞ **P.Prabhuraj**, Paper published in the National Conference RATMAPE on "Recent Advanced Trends in Mechanical, Automobile and Production Engineering (25<sup>th</sup> and 24<sup>th</sup> April 2008) at Dr.M.G.R Educational & Research Institute, Chennai.

☞ **P.Prabhuraj**, V.Balasubramanian Presented paper in the National Conference on Recent Advancement in Surface Engineering, 2007 in the title of "Comparative Studies of Hardfaced Surfaces Based on Dilution" at Annamalai University Chidambaram

**Papers reviewed as Reviewer: None**

**Professional Membership:**

☞ Membership in Indian Society of Technical Education, ISTE.

☞ Membership in Indian Welding Society, IWS

**Workshop/ Seminar/FDP/Participations:**

SNo	Date	Workshop/Seminar/FDP Program	Name of the Organization/ Industry
1.	18 <sup>th</sup> February 2018	Participated in International Conference ICMMM2018	SSN College of Engineering, Chennai.
2	3 May 2017	Participated in International Conference ICAFM17	Adhi College of Engg, Chennai.
3	Jan 2016	Asian Pacific Corrosion Control Conference APCCC16	IIT, Mumbai.
4	Dec 2016	Workshop on RAJAM16	Annamalai University.
5	6 <sup>th</sup> April 2015	Workshop on Advance in Arc welding	Annamalai University
6	3 <sup>rd</sup> March 2015	Workshop on Combatting Corrosion	VIT, Chennai
7	17 <sup>th</sup> Oct 2014	Seminar on XFEM Based Fracture Mechanics	SSN College of Engineering
8	20 <sup>th</sup> Aug 2014	Workshop on Renewable Energy Resources	AVIT
9	22 <sup>nd</sup> Dec 2013	Conference on AGASS13	NIT, Tiruchi
10	6 <sup>th</sup> March 2013	Workshop on Emerging Materials and Applications	AVIT, Chennai
11	23 <sup>rd</sup> - 24 <sup>th</sup> March 2012	Surface Engineering Sure '12	Annamalai University
12	11 <sup>th</sup> -12 <sup>th</sup> March 2011	SYRES - 2011	Annamalai University

13	11 <sup>th</sup> October, 2011	Advances in Heat Transfer - Workshop	AVIT, Paiyanoor
14	19 <sup>th</sup> Nov 2011	Faculty Development Programme	AVIT, Paiyanoor
15	5 <sup>th</sup> – 6 <sup>th</sup> Jan, 2011	National Level Workshop on SEA 2011	Annamalai University
16	4 <sup>th</sup> – 6 <sup>th</sup> May, 2011	National Level Workshop on "Exploring Computer Aided Design and Drafting"	SKR Engineering College
17	2 <sup>nd</sup> – 3 <sup>rd</sup> Dec, 2010	National Level Workshop on "Emerging Materials and Applications"	Aarupadai Veedu Institute of Technology, Paiyanoor
18	12 <sup>th</sup> Nov 2011	Workshop on "Recent Trends in Friction Welding of Dissimilar Metal and Machining of GFRP Composites"	St Joseph College of Engineering
19	12 <sup>th</sup> – 13 <sup>th</sup> Feb, 2010	All India Seminar on "Recent Trends in Manufacturing"	Institute of Engineer, Chennai
20	Dec 2010	Eco-friendly Welding Process	Annamalai University
21	29 <sup>th</sup> June – 3 <sup>rd</sup> July, 2009	Short Term Course on Weldability of Advanced Materials & Newer Joining Techniques	NIT, Thiruchirapalli
22	2 <sup>nd</sup> – 3 <sup>rd</sup> Dec, 2009	National Level Workshop on "Emerging Materials and Applications"	Aarupadai Veedu Institute of Technology, Paiyanoor
23	18 <sup>th</sup> – 19 <sup>th</sup> Sep, 2009	Workshop on Mechanical – Automation	Arunai Engineering College, Thiruvannamalai
24	18 <sup>th</sup> – 19 <sup>th</sup> Sep, 2009	International Workshop on Control of Smart Reliable and Adaptable Air Vehicles	NIT, Thiruchirapalli
25	18 <sup>th</sup> – 19 <sup>th</sup> Dec, 2009	National Level Workshop on "Micro - Machining"	NIT, Thiruchirapalli
26	2 <sup>nd</sup> – 3 <sup>rd</sup> Dec, 2008	National Level Workshop on "Emerging Materials and Applications"	Aarupadai Veedu Institute of Technology, Paiyanoor
27	11 <sup>th</sup> Aug, 2008	National Level Workshop on "Emerging Trends in Manufacturing Technology"	St Joseph College of Engineering
28	18 <sup>th</sup> Oct, 2008	Faculty Development Programme	Vinayaka Mission University, Chennai
29	15 <sup>th</sup> – 17 <sup>th</sup> March, 2007	National Conference on "Recent Advancement in Surface Engineering"	Annamalai University
30	15 <sup>th</sup> – 16 <sup>th</sup> Feb, 2007	National Level Workshop on "Renewable Energy Sources"	Aarupadai Veedu Institute of Technology, Paiyanoor

31	11 <sup>th</sup> March – 24 <sup>th</sup> March, 2005	Participated in the course on "Magnetic Particle and Liquid Penetrant Testing Level – II"	ISNT, Chennai Chapter
32	1 <sup>st</sup> July – 6 <sup>th</sup> August, 2005	Participated in Training in Ultrasonic Testing Level II	NDT House, Chennai
33	15 <sup>th</sup> – 16 <sup>th</sup> March, 2003	National Conference on "Modelling and Simulation in Manufacturing"	Annamalai University

### Achievement

- ☞ Received Best Paper Presentation in International Conference On Recent Advancement In Mechanical Engineering & Technology (**ICRAMET' 15**) , **AVIT, Chennai.**
- ☞ Best Project award from Tamilnadu State council for science and Technology (**TNSCST**), 2009
- ☞ Received best research article award in International conference on Engineering Materials, Metallurgy and Manufacturing (**ICEMMM 2018**). SSN College of Engineering, Chennai.

**Books Published:** None

### Research Projects Undertaken:

- ☞ Completed **TNSCST (Tamil Nadu State Council for Science & Technology)** funded Student project in the title of "Semi-Automatic Vehicle for Physically Handicapped" in the year of 2009.
- ☞ Received Rs.6,50,000/- towards funded research project from **Ministry of Renewable Energy (MNRE), Govt. of India**, for Establishment of "50M Data Collection and Wind Monitoring Station" during May, 2015.
- ☞ Worked as project assistant in **BRNS (Baba Research Nuclear Science)** in the title of "Some Studies on Plasma Transferred Arc Hardfacing."