



## **Dr. Suresh Arjula**

B.Tech , M.Tech. , Ph.D (IIT-BHU)

**Associate Professor**

**ISTE, IIW**

Mechanical Engineering

### **Areas of Interest:**

Composite Materials, Materials Tribology, CAD/CAM, Finite Element Analysis, Welding

#### **- ▶ Educational & Professional**

##### **- ▶ Academic Qualifications**

- ▶ Ph.D in Mechanical Engineering, IIT (BHU) Varanasi (2004-2008)

- ▶

M.Tech. in Design and Production Engineering (machine Tools), NIT Warangal with First class (2000-2002)

- ▶

B.Tech. in Mechanical Engineering, Kakatiya University, Warangal with First class (1996-2000)

##### **▶ Professional Experience**

##### **- ▶ Teaching Experience**

- ▶ Lecturer (Adhoc), KITS, Warangal (28-08-2003 - 30-04-2004)

- ▶ Assistant Professor, SNIST Ghatkesar, RR (Dist.) (31-03-2009 - 31-08-2009)

- ▶ Assistant Professor, SR Engineering College, Warangal (10-09-2009 - 13-07-2010)

##### **- ▶ At JNTUH**

- ▶ Assistant Professor (Sl. Grade), (2018 - Till Date)

- ▶ Assistant Professor (Sr.Scale), (2013 - 2018)

- ▶ Assistant Professor, JNTUH CEJ (2010 - 2013)

##### **- ▶ Research**

##### **- ▶ Research Projects**

- ▶ *INFLUENCE OF WELD PROFILE SHAPE IN THE FORMING OF TAILOR WELDED BLANKS*, funded by JNTUH-TEQUIP-III - 3 Lakh (sanctioned in 2019 duration of 1 years)

##### **- ▶ Publications**

### - International Journals

- ▶ D. Dev Singh, Suresh Arjula , A. Raji Reddy, *Functionally Graded Materials Manufactured by Direct Energy Deposition: A review*, , , Materials Today: Proceedings, Vol No.47, pp.2450-2456, Elsevier, 2021
- ▶ Suresh Arjula , V.V.N. Satya Suresh, , S.P. Regalla, , *Effect of Curvilinear Weld Profile Shapes on weld Line Movement in The Stamping of Tailor welded Blanks*, Recent Advances in Manufacturing, Automation, Design and Energy Technologies, Lecture Notes in Mechanical Engineering , pp.157-164, Springer, 2021
- ▶ V.V.N. Satya Suresh,, A. Suresh, S.P. Regalla, P.V. Ramana , O. Vamshikrishna, *Sustainability aspects in the warm forming of tailor welded blanks*, E3S Web of Conferences, Vol No.184, pp.1-5, Web of Conferences, 2020
- ▶ Suresh Arjula, *Analysis of Friction Stir Welding of Aluminum 7075-T4 Alloy Butt Joints*, International Journal of Advanced Engineering Research and Technology (IJAERT), ISBN No.2348-8190, Vol No.6, Issue No.3, pp.186-192, March, 2018
- ▶ Suresh Arjula, *Erosive wear behavior of short glass fiber reinforced polyetherimide composites*, International Journal of Latest Trends in Engineering and Technology, Vol No.10, Issue No.2, pp.210-216, April, 2018
- ▶ Suresh Arjula, *Application of Collocation Method Using NURBS Basis Functions for One-Dimensional Problems*, International Journal of Emerging Technology and Advanced Engineering, ISBN No.2540-2459, Vol No.8, Issue No.4, pp.29-37, April, 2018
- ▶ D. Dev Singh, Avala. Raji Reddy, Suresh Arjula, *Characterization of fused deposition modeling of PLA+ and carbon fiber -PLA components*, International Journal of Latest Trends in Engineering and Technology, Vol No.10, Issue No.2, pp.10-16, April, 2018
- ▶ D. Dev Singh, Avala Raji Reddy, Suresh Arjula, *Characterization of Additive Manufactured PETG and Carbon Fiber â€“PETG*, International Journal for Research in Engineering Application & Management, ISBN No.2454-9150, Vol No.4, Issue No.2, pp.152-156, May, 2018
- ▶ P. Sammaiah, B. Vineetha, A. Suresh, C. Sushanth, N.S. Kumar, *Analysis of MgO Nano Particles and Its Deposition on Steel by Cold Spray Process*, Materials Today: Proceedings , Vol No.5, pp.19262-19269, Elsevier, 2018
- ▶ P. Sammaiah, B. Vineetha, A. Suresh, C. Sushanth, N.S. Kumar, *Analysis of Al<sub>2</sub>O<sub>3</sub> Nano Particles and Its Deposition on Steel by Cold Spray Process*, Materials Today: Proceedings, Vol No.5, pp.20535-20543, Elsevier, 2018
- ▶ A.Suresh and Yella Reddy, *NURBS Based Finite Element Approach for One Dimensional problems*, International Journal of Engineering Research & Technology, ISBN No.2278-0181, Vol No.5, Issue No.08, pp.494-499, ESRSA PUBLICATIONS, 08, 2016
- ▶ A.P. Harsha, Suresh Arjula, *Influence of fibre orientation on three-body abrasive wear behaviour of uniunctional carbon fibre-reinforced polyetherimide composite*, Journal of Materials Science , Vol No.46, pp.983-991, 2011
- ▶ Suresh Arjula, A.P.Harsha, M.K.Ghosh, *Erosion studies of short glass fiber-reinforced thermoplastic composites and prediction of erosion rate using ANNs*, Journal of Reinforced Plastics and Composites , Vol No.29, pp.1641-1652, SAGE, 2010
- ▶ P.Sammaiah, Arjula Suresh, G.R.N. Tagore, *Mechanical properties of friction welded 6063 aluminum alloy and austenitic stainless steel*, Journal of Materials Science , Vol No.45, pp.5512-5521, Springer, 2010
- ▶ Suresh Arjula, A.P. Harsha, M.K. Ghosh, *Solid particle erosion studies on polyphenylene sulphide composites and prediction on erosion data using artificial neural networks*, Wear, Vol No.266, pp.184-193, ELSEVIER, 2009
- ▶ Suresh Arjula, A.P.Harsha, M.K.Ghosh, *Solid particle erosion of unidirectional fibre reinforced thermoplastic composites*, , Wear, Vol No.267, pp.1516-1524, ELSEVIER, 2009
- ▶ Arjula Suresh, A.P.Harsha, M.K.Ghosh, *Solid-particle erosion behavior of high-performance thermoplastic polymers*, Journal of Materials Science , Vol No.43, pp.1757-1768, Springer, 2008
- ▶ Arjula Suresh, A.P.Harsha, M.K.Ghosh, *Erosive wear of unidirectional carbon fibre reinforced polyetherimide composite*, Material Letters, Vol No.62, pp.3246-3249, ELSEVIER, 2008
- ▶ Arjula Suresh, A.P.Harsha, *Study of erosion efficiency of polymers and polymer composites*, Polymer Testing , Vol No.25, pp.188-196, ELSEVIER, 2006

### **International Conference**

- ▶ Suresh Arjula, *Application of Collocation Method Using NURBS Basis Functions for 1-D Heat Transfer Problems*, 2nd International Conference on Emerging Trends in Engineering, Science and Technologies, pp.144-148, February, 2018
- ▶ Arjula Suresh, A.P.Harsha, M.K.Ghosh, *Wear of high-performance polymer composites by solid particle impact*, International conference on Advances in polymer Science & Technology, January, 2008

### **National Conference**

- ▶ Suresh Arjula, *Application of NURBS Collocation Method for Fluid Flow Problems*, National Conference on Recent Trends in Mechanical Engineering, 26th-27th, February, 2018
- ▶ Suresh Arjula et.al., *Artificial Neural networks prediction on erosive wear of thermoplastic polymers*, National conference on Emerging trends in Mechanical Engineering, July, 2009
- ▶ Suresh Arjula, A.P.Harsha, *Erosive wear of fibrous PPS composites*, National conference on Emerging trends in Mechanical Engineering, July, 2009

### **- ▶ Events Participated/Organized**

#### **- Participated**

- ▶ Participated in a Refresher Course on *Advances in Materials Science and Applications*, UGC-ASC, JNTU Hyderabad., 15-07-2019 to 27-07-2019
- ▶ Participated in a Refresher Course on *Strategies for Research Oriented Teaching*, UGC-ASC, JNTU Hyderabad., 05-06-2017 to 24-06-2017
- ▶ Participated in a FDP on *Finite Element Method Applied to Heat Transfer, Fluid Dynamics and Mechanics of Composite Structures*, JNTUH College of Engineering Hyderabad, 25-07-2016 to 05-08-2016
- ▶ Participated in a Refresher Course on *Role of communication skills in effective Teaching*, UGC-ASC, JNTU Hyderabad., 17-05-2013 to 06-06-2013
- ▶ Participated in a Orientation Course on *28th orientation Course*, UGC-ASC, JNTU Hyderabad., 21-05-2012 to 16-06-2012
- ▶ Participated in a Seminar on *Precision Engineering*, JNTU college of Engineering, Kukatpally, Hyderabad, 10-11, July, 2009, 10-07-2009 to 11-07-2009
- ▶ Participated in a FDP on *Tribology and Materials for Tribological Applications*, IT-BHU, Varanasi, 27-02-2006 to 11-03-2006
- ▶ Participated in a Workshop on *Big Data Analytics*, JNTUH CE Jagtial, 01-01-2017 to 20-12-2015

#### **- Teaching**

- ▶ Advanced Finite element analysis in Engineering Design II (I -M.Tech)
- ▶ Geometric Modelling in Engineering Design I (I -M.Tech)
- ▶ Advanced Mechanics of Solids in Mechanical Engineering II (I -M.Tech)
- ▶ Robotics in Mechanical Engineering I (IV Year)
- ▶ Finite Element Method in Mechanical Engineering II (III Year)
- ▶ Dynamics of Machinery in Mechanical Engineering I (III Year)
- ▶ Kinematics of Machinery in Mechanical Engineering II (II Year)
- ▶ Mechanics of Solids in Mechanical Engineering I (II Year)
- ▶ Engineering Mechanics in Mechanical Engineering I year (I-B.Tech)
- ▶ Engineering Drawing in Mechanical Engineering I-B.Tech (I year)

#### **- Administrative Positions Held**

- ▶ Head, Department of Mechanical Engineering, JNTUH College of Engineering Jagtial, 02 Jan 2017 - 05 May 2019

- **Project/Research Guidance**

- **Students**

Student Name	Title	Year	Download
P. karnakar	Nano coating materials	0	
Ch.Sushanth	Nano coating materials	0	
D.Dev Singh	Additive manufacturing	0	
B.Ravinder	Welding	0	
V.Rakesh		0	
D. Venkata Ramanaiah		0	

**Contact :**

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Mechanical Engineering

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