

DEPARTMENT OF MECHANICAL ENGINEERING.

INTRODUCTION

Department of Mechanical engineering was established in the year 1997. It conducts UG and PG programmes, B.Tech in Mechanical Engineering and M.Tech in Design For Manufacturing and Thermal Engineering courses. The Department has several well-equipped laboratories namely CAD/CAM Lab, Mechatronics Lab , Production Technology and Workshop practice, Metal Forming research Lab, Material Sciences and Metallurgy Lab, IC Engines Lab, Fluid Mechanics and Hydraulic Machinery Lab, Heat Transfer Lab, Heat Pipes testing Lab, Strength of Materials Lab, Mechanical Measurements and Control systems Lab, Manufacturing Simulation Lab, Machine Tools and Metrology Lab. The Department has been accredited by NBA from 2006 to 2012. B.Tech students of the department of the 2005 to 2009 and 2006 to 2010 batches have won gold medals for securing the highest percentage of marks among all the colleges of JNTU-H. It motivate students to take up innovative projects through in-house R & D Projects. It promotes thorough knowledge for the students in theory and Practice. The Department conducts annual International Conference on Materials Processing and characterization Department of Mechanical Engineering has received R & D Projects from various National funding agencies like AICTE, DST, UGC and SERB.

Research Projects/FDP's/Seminar Grants/Sanctioned

S.No	Name of the Faculty	Title	Name of the Funding Agency	Amount in Lakhs	Year
1	Dr. Swadesh Kumar Singh	Construction of qualitative warm working processing maps for Ass 304 material	SERB	14.00	2013-14
2	B. Tanya	Exploring the alternative bio based adhesive for plywood manufacturing	UGC	2.00	2013-14
3	Dr. Swadesh Kumar Singh	Formability Study of AUSTENITIC STAINLESS STEEL (316 GRADE) at Higher Temperatures and development of redrawing facility in warm conditions of high strength materials	AICTE	17.70	2013
4	Dr. P S V Kurma Rao & B.Ch.Nookaraju	Thermal Hydraulics of Heat Pipe Heat Sinks for Electronics Cooling Application	AICTE	6.00	2012
5	Dr. K.G.K. Murti	Test Rigs and Equipment for Construction of FLD's in	AICTE	9.50	2012

		Warm Forming			
6	Mr. D. Ramana Reddy	Study and development of asbestos free brake Friction lining with agro waste (Eco-friendly)	AICTE	9.00	2011
7	Dr. Swadesh Kumar Singh	Study of Finite Element Simulation on the extent of Ironing of Low Carbon Steels under Warm Conditions	AICTE	17.67	2010
8	Dr. Swadesh Kumar Singh	Characterization of AI in warm condition using FEM	AICTE	10.50	2009
9	Dr. Swadesh Kumar Singh	Finite element simulation of warm forming of Interstitial free (IF) steel and study the effect of blank temperature on thickness distribution & drawability"	SERB	18.84	2008
10	Dr. Swadesh Kumar Singh	"Study of Flow forming behaviour of deep drawn quality steel when it is drawn into a die by sensing temperature and stresses at different stages of drawing"	AICTE	6.88	2007

Doctorates In Mechanical Dept

S.No	Name of the Faculty	Degree Awarded	No. of Publications(journals/conferences)
1	Dr.Swadesh Kumar Singh	2007	90
2	Dr.Jandhyala N Murthy	1984	10
3	Dr.N.Sateesh	2010	25
4.	Dr R. karthikeyan	2012	10
5.	Dr.K.Satyanarayana	2013	10
6.	Dr. Ram Subbaiah	2013	56
8.	Dr, L.Jayahari	2015	13
9.	Dr. Raman Goud. Rachala	2015	19
10.	Dr. Venkatesharalu	2016	13

Research Projects/FDP's/Seminar Grants Sanctioned

S.No	Name of the Faculty	Title	Name of the Funding Agency	Amount	Year
1	Dr. Swadesh Kumar Singh	2nd International Conference on Materials Processing and Characterization	AICTE		08-09 March 2013
2	Dr. Swadesh Kumar Singh	DST, CSIR "International Conference on Materials Processing and Characterization	AICTE, DST, CSIR		08-12 March 2012
3	Dr. Swadesh Kumar Singh	Characterization of materials and processing of high strength materials"	AICTE(FDP)		, 25June to 06 July 2013

Dr. Jandhyala N Murthy, Principal, GRIET

Qualification:

Ph.D in Combustion Cranfield Institute of Technology, UK, 1985
MS in Thermal Propulsion Cranfield Institute of Technology, UK, 1982,
MSc in Defence Studies University of Madras, 1991,
BTech in Mechanical IIT, Madras, 1970 – 1975.

Experience: 17 years teaching, 20 years Industry.

Research Interest: Thermal Propulsion, Computer Graphics, modeling, Aircraft Maintenance CFD, Turbomachines.

Journal Publications/Conference Proceedings: 6

Journal Publication

1.

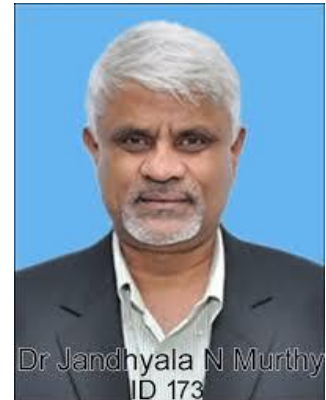
Conferences Proceedings:

International conference

1. "Computational Study of some of the implications for Gas Turbine Design Maintenance as a consequence of NO_x generation" – 18th CIMAC Congress, Tinanjin, China, 1988.
2. "Study Of Rice Stna Biocomposite and a Comparative Study Of Flexural Strength of Various Bio Composite Ply wood Materials"-Swadesh kumar singh ,Jandhyala N Murthy, PAPN Varma, D.Sailaja, International Conference on Civil, Biological and Environmental Engineering BEE-2013,Bauskok,Thailand, ISBN978-93-82242-40-9.

National conference

1. "Combustor Design Programme" – DEFCAP-88, ADE, Bangalore.
2. "Approach for Reliability and Maintainability assurance of Kaveri Engine" Workshop on "MiG Engine Experience for Kaveri Project", HAL Koraput, 1993.
3. "Reliability Data Generation" – EVIAMAT -94, New Delhi.
4. "Assessment Practices in Engineering" – A Review, 41st ISTE Annual National Convention December 2011, Fatehgarh Sahib, Punjab.



Dr. LADE JAYAHARI

Professor & Head of Department, Dean Publicity and Alumni affairs

Qualifications B.Tech (Mechanical), GRIET-JNTU University (2001),

M.E (Structural Mechanics), BTH-SWEDEN (2005),

Ph.D. Mechanical Engineering, Sheet Metal Forming, JNTUH (2015).

Experience: 10+ years

Research Interest: Sheet Metal Forming

Journal Publications/Conference Proceedings: 13

International Journals

1. **Lade Jayahari**, Balu Naik Banoth, Amit Kumar Gupta and Swadesh Kumar Singh, "Some Metallurgical Studies of Austenitic Stainless Steel 304 under Warm Deep Drawing" **Journal of Iron and steel, International, Volume 21, Issue 12, December 2014, Pages 1147-1151. Impact factor-0.33**
2. **Lade Jayahari**, B. BaluNaik, Swadesh Kumar Singh, "Formability studies of ASS 304 and evaluation of friction for Al in deep drawing setup at elevated temperatures using LS-DYNA". **Journal of King Saud University – Engineering Sciences, (Elsevier Publication)** (2014) Vol.26, 21–31.
3. **Lade Jayahari**, B. BaluNaik, and Swadesh Kumar Singh, "Some aspects of Formability of ASS 304 under warm conditions", **International Journal of Manufacturing Engineering**, December, 2013, Vol. 8, Issue. 4, pp 221-224.
4. **Lade Jayahari**, B. Balu Naik, and Swadesh Kumar Singh. "Effect of process parameters and metallographic studies of ASS-304 Stainless Steel at various temperatures under warm deep drawing." **Procedia Materials Science, Elsevier Journal** 6 (2014): 115-122.
5. **Lade Jayahari**, Balu Naik Banoth, and Swadesh Kumar Singh, "Finite element Simulation studies of AISI 304 for deep drawing at various temperatures", **Material Today-Elsevier Journal-Accepted.**

International Conferences

1. **Jayahari Lade**, Swadesh Kumar Singh, Balu Naik Banoth, "Formability analysis of austenitic stainless steel-304 under warm conditions". Citation: **NUMISHEET 2014 AIP Conference Proceedings 1567, 378-381 (2013)**; doi: 10.1063/1.4849994
2. **L.Jayahari**, Swadesh Kumar Singh, Balu Naik, "Study of Formability and Thickness Distribution in Warm Forming of ASS-304, **AIMTDR-2012**, December 2012, Kolkata, India.
3. **Lade Jayahari**, B.BaluNaik, Swadesh Kumar Singh, "Study of microhardness of Deep Drawn cups for Austenitic stainless steel-304 under warm conditions". **High Nitrogen Steels (HNS -2012)**, PP12 Sep 2012, Chennai, India.



4. **L.Jayahari**, B.BaluNaik, N.Lakshmi et al, "Experimental Investigation of Punch Load of ASS 304 at Various Temperatures" **International Conference on Materials Processing and Characterization (ICMPC -2012)**, 89-93, March, India.
5. **L.Jayahari**, B.BaluNaik, R.Bhargav et al,"Microhardness Studies of Austenitic Stainless steel-304"**International Conference on Materials Processing and Characterization (ICMPC -2012)**,94-99, March, India.
6. **Lade Jayahari**, B.BaluNaik, Swadesh Kumar Singh, "Simulation and experimental investigation of ASS 304 at various temperatures in warm deep drawing forming Process", **International Conference on Smart Systems (ICSS-2013)**, October , 2013, Hyderabad, INDIA.
7. Ramana Gaud, **L. Jayahari**, and Swadesh Kumar Singh,(2011)"Experimental and Design consideration of Stretching of EDD steel sheet at elevated temperatures" International Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 202.

National Conferences:

1. **Jayahari.L**, Ramana Goud, Swadesh Kumar Singh, Eswar Prasad, and Balu Naik (2009), "Development and Design Considerations of Warm Forming of Aluminum-alloy" NCSAME 09, JNTU Hyderabad, 20-21 Aug India.

Dr Swadesh Kumar Singh, Professor (ID-499)

Qualification: UG, MECHANICAL (ALIGARH MUSLIM UNIVERSITY) B.TECH (1997), PG IIT DELHI, PRODUCTION ENGINEERING, M. TECH, DEC.(1998), PH. D, IIT DELHI, METAL FORMING, METAL FORMING, 2005.

Experience: 10+ years

Research Interest: Sheet Metal Forming, Finite Element in Metal Forming, Warm and Hydroforming, Wood based biocomposites, Nuclear materials

Journal Publications/Conference Proceedings: 92

Books published:

1. A text book on Production Engineering Publisher: Made Easy Publications.
2. A text book on Reasoning and Aptitude Publisher: Cengage Publications.
3. A text book on Industrial Engineering Publisher: LNEC Publications.

International Journals:

1. Nitin Kotkunde, Aditya D. Deole, Amit Kumar Gupta and **Swadesh Kumar Singh**, "Comparative study of constitutive modeling for Ti-6Al-4V alloy at low strain rates and elevated temperatures" *Materials and Design*, 55, 2014, pp 999-1005.
2. Nitin Kotkunde, **Swadesh Kumar Singh** and Amit Kumar Gupts, "Microstructure Study and Constitutive Modeling of Ti-6Al-4V Alloy at Elevated Temperatures" *Materials and Design*, 54, 2014, pp 96-103.
3. Syed Mujahed Hussaini, **Swadesh Kumar Singh** and Amit Kumar Gupta, "Experimental and Numerical Investigation of Formability for Austenitic Stainless Steel 316 at Elevated Temperatures" *Journal of Materials Research and Technology*" Volume 3, Issue 1, January-March 2014, Pages 17-24.
4. **Swadesh Kumar Singh**, Vinay Kumar, Prudvi Reddy P and A K Gupta, "Finite Element Simulation of Ironing process under warm conditions" *Journal of Materials Research and Technology*" Volume 3, Issue 1, January-March 2014, Pages 71-78
5. Nitin Muttill, J S Ravichandra, Graham ThorpeaStephan Bigger and **Swadesh Kumar Singh**, "Comparative Study of bond strength of Formaldehyde and Soya based adhesive in wood fibre plywood" *Procedia Material Science* (to appear).
6. Lade Jayahari, B Balu Naik and **Swadesh Kumar Singh**, "Effect of process parameters and metallographic studies of ASS-304 Stainless Steel at various temperatures under warm deep drawing" *Procedia Material Science* (to appear).



7. R.Ramangoud, K. Eshwar prasad and **Swadesh Kumar Singh**, "Construction of formability limit diagrams for EDD steel at elevated temperatures" *Procedia Material Science* (to appear).
8. Hussaini SM, Gupta AK, **Singh SK**, " Investigation of Material Model for Simulations of Deep Drawing in Dynamic Strain Aging Region" *Procedia Material Science* (to appear).
9. Lade Jayahari, PV Sasidhar, P Prudvi Reddy, B. Balu Naik, AK Gupta and **Swadesh Kumar Singh**, " Formability studies of ASS 304 and Aluminum and evaluation of friction in deep drawing setup at elevated temperatures using LS-DYNA" *Journal of King Saud University - Engineering Sciences, Elsevier Vol. 26, Issue 1, 2014, pp 21-31*
10. Syed Mujahed Hussaini, Swadesh Kumar Singh, Amit Kumar Gupta, " Formability and fracture studies of austenitic stainless steel 316 at different temperatures" *Journal of King Saud University - Engineering Sciences, Elsevier, to appear.*
11. Swadesh Kumar Singh, L. Jaya Hari, B Balu Naik and Amit Kumar Gupta, " Some Metallurgical studies of Austenitic Stainless Steel-304 under warm deep drawing" To appear in *Journal of Iron and Steel Research, International.*
12. **Swadesh Kumar Singh**, Desu Raghuram and A K Gupta, " A comparison of deep drawn components quality in Warm and Hydro mechanical deep drawing for low Carbon Steel" Under minor revision at *International Journal of Advanced Manufacturing Technology.*
13. Syed Mujahed Hussaini, **Swadesh Kumar Singh** and Amit Kumar Gupta," Formability of Austenitic Stainless Steel 316 sheet in Dynamic Strain Regime" *Acta Metallurgica Slovaca, Vol. 20, 2014, No. 1, p. 71-81.*
14. **Swadesh Kumar Singh** and Amit Kumar Gupta, " Comparison of Ironing in warm and Hydromechanical deep drawing of low Carbon steel" *Material Science Forum, Vol. 773-774, 2013, 203-210.*
15. SM Hussaini, S K. Singh, A K Gupta, "Experimental investigation of Dynamic strain aging regime in Austenitic Stainless Steel 316" *International Journal of Engineering Research & Technology, Vol. 2 Issue 8,2013, pp 1691-1694.*
16. Amit Kumar Gupta, Hansoge Nitin Krishnamurthy, Yashjeet Singh, Kaushik Manga Prasad and **Swadesh Kumar Singh**, "Development of Constitutive Models for Dynamic Strain Aging Regime in Austenitic Stainless Steel 304" *Materials & Design, Volume 45, March 2013, Pages 616-627*
17. Nitin Kotkunde, Nitin Krishnamurthy, A. K. Gupta, **S. K. Singh**, " Development of Modified Arrhenius Model for Ti-6al-4v Alloy to Predict the Flow Stress" *International*

Journal of Advanced Materials Manufacturing and Characterization for Vol 3, Issue 1, 2013, pp 83-87.

(Doi: <http://dx.doi.org/10.11127/ijammc.2013.02.015>)

18. Nitin Krishnamurthy, Yashjeet Singh, A K Gupta, **S K Singh**, " Prediction of Deformation Behavior of Austenitic Stainless Steel 304 in Dynamic Strain Aging Regime" International Journal of Advanced Materials Manufacturing and Characterization for Vol 3, Issue 1, 2013, pp 143-147.
(Doi: <http://dx.doi.org/10.11127/ijammc.2013.02.025>)
19. Amit Kumar Gupta, V.K. Anirudh, **Swadesh Kumar Singh**, "Constitutive models to predict flow stress in Austenitic Stainless Steel 316 at elevated temperatures" Materials and Design 43 (2013) 410-418.
20. Swadesh Kumar Singh, PV Sasidhar, P Prudvi Reddy, Vinay Kumar, MS Hallika and AK Gupta, " Study of Formability and Friction in Warm Forming of Aluminum IS 737 Alloy" International Journal of Advanced Materials Manufacturing and Characterization for Vol 1, Issue 2, 2012, pp209-216.
21. K. Rakesh Varma, PAPN Varma, KGK Murti, AVS Raju and **Swadesh Kumar Singh**, "Mathematical modelling and experimental validation of excessive ironing of EDD steel in deep drawing setup in Warm conditions" International Journal of Advanced Material Manufacturing and Characterization, Vol. 1, No 1, 2012, pp 165-172.
22. Amit Kumar Gupta, **Swadesh Kumar Singh**, M. Swathi and H. Gokul, "Prediction of Flow Stress in Dynamic Strain Ageing Regime of Austenitic Stainless Steel 316 using Artificial Neural Network" Materials and Design 35 (2012) 589–595.
23. Daredddy Ramana Reddy, **Swadesh Kumar Singh**, B.Balunaik(2011), "Development of bio-degradable friction material for brake pads from Palm Kernel Shell" International Journal of Mechanical Engineering and Materials Sciences Vol. 4, Number 1, pp 1–6.
24. **Swadesh Kumar Singh**, Amit Kumar Gupta and K. Mahesh(2010), "A study on the extent of ironing of EDD steel at elevated temperature" CIRP Journal of manufacturing Science and Technology Vol. 3, Issue 1, pp 73–79.
25. **Swadesh Kumar Singh** and Amit Kumar Gupta (2010), "Application of Support Vector Regression in Predicting Thickness Strains in Hydro-Mechanical Deep Drawing and Comparison with ANN and FEM" CIRP Journal of manufacturing Science and Technology Vol. 3, Issue 1, pp 66-72.
26. **Swadesh Kumar Singh**, M. Swathi, Apurv Kumar and K. Mahesh (2010), "Understanding formability of EDD steel at elevated temperatures using finite element simulation" Materials and Design Vol. 31, pp 4478–4484.

27. **Swadesh Kumar Singh**, Amit Kumar Gupta and K. Mahesh(2010), “Prediction of mechanical properties of extra deep drawn steel in blue brittle region using Artificial Neural Network” *Materials and Design*, Vol. 31, pp 2288-2295. (Elsevier, Impact factor 1.107).
28. **Swadesh Kumar Singh** (2010), “Development of ANN Model And Study The Effect of Temperature on Strain Ratio and Sensitivity Index of EDD Steel” *International Journal of Material Forming*, Vol 3, pp 256 - 266.
29. Apurv kumar, P. Viswanath, K Mahesh, M. Swati, P M Vinay Kumar, A Abhijit, **Swadesh Kumar Singh** (2010), “Prediction of Spring back in V – Bending and Design of Dies Using Finite Element Simulation” *International Journal of Materials and Product Technology*, Vol. 39, Nos. 3/4, 2010
30. **Swadesh Kumar Singh** and D. Ravi Kumar (2009), “Tooling Design and Development of set up for Hydro-mechanical Deep Drawing” *International Journal of Manufacturing Technology and Management*, Vol. 18, No. 3 pp 245-261.
31. **Swadesh Kumar Singh** and D. Ravi Kumar (2008), “Effect of Process Parameters on Product Surface Finish and Thickness Variation in Hydro-mechanical Deep Drawing” *Journal of Materials Processing Technology* Volume 204, Issues 1-3 pp 169-178.
32. **Swadesh Kumar Singh**, Amrit Dixit and D. Ravi Kumar (2008), “Optimization of the Design Parameters of Modified Die in Hydro-mechanical Deep Drawing using LS-DYNA” *International Journal of Advanced Manufacturing Technology* vol. 38, no. 1 pp 32-37.
33. **Swadesh Kumar Singh**, G. Partheepan, R. K. Pandey and D. K. Sehgal (2007), “Numerical investigations of constitutive tensile behavior of materials and wrinkling of cold-rolled aluminum sheet when deep drawn through a Tractrix die” *International Journal of Computer Applications in Technology*, Vol. 28, No. 1 pp 27-33.
34. **Swadesh Kumar Singh** and D. Ravi Kumar (2005), “Application of Neural Network to Predict Thickness Strains and Finite Element Simulation of Hydro-mechanical Deep Drawing” *International Journal of Advanced Manufacturing Technology*, Vol. 25, No. 1-2 pp 101-107.
35. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), “A Comparison of Different Neural Network Training Algorithms for Hydro-mechanical Deep Drawing” *International Journal of Materials and Product Technology*, Vol. 21, No.1/2/3 pp 186-199.
36. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), “Numerical Prediction of the Limiting Draw Ratio and Thickness Strains for EDD Steel Sheet in Hydro-mechanical Deep Drawing” *International Journal of Materials and Product Technology* , Vol. 21, No. 1/2/3 pp 106-123.

National Journals:

1. Jaya Hari Lade, B Balu Naik and **Swadesh Kumar Singh**, "Some aspects of Formability of ASS 304 under warm conditions" Journal of Manufacturing Engineering, accepted for publication.
2. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), "Development and Design Considerations in Hydro-mechanical Deep Drawing" Journal of Manufacturing Technology Today, Vol. 3, No. 3 pp15-22.
3. **Swadesh Kumar Singh** and D. Ravi Kumar (2003), "Improvement in Drawability by Hydraulic Counter-pressure Deep Drawing" Journal of Manufacturing Technology Today, Vol. 2, No. 6 pp 6-10.

International conferences:

1. Nitin Kotkunde, Aditya D. Deole, A.K Gupta and S.K Singh, " Effect of Process Parameters on Deep Drawing of Ti-6Al-4V Alloy Using Finite Element analysis" Accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp1065-1068.
2. Jayahari Lade, Amit Kumar Gupta, Balu Naik Banoth and Swadesh Kumar Singh, "Formability analysis of Austenitic stainless steel-304 under warm conditions" accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp 402-405.
3. K Sajun Prasad, Raghuram Karthik Desu, Jayahari Lade, Swadesh Kumar Singh and Amit Kumar Gupta, " Finite Element Modeling and Prediction of Thickness Strains of Deep Drawing using an ANN for ASS304" accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp 378-381.
4. Nitin Kotkunde, Aditya B, Amit Kumar Gupta, Swadesh Kumar Singh, " Flow stress Prediction of Ti-6Al-4V alloy at elevated temperature using artificial neural network", International Symposium on Engineering and Technology 2014, Pune.
5. Swadesh Kumar Singh, Jandhyala N Murthy, PAPN Varma and D Sailaja, " Study of Rice Straw Biocomposite and a Comparative Study of Flexural Strength of Various Biocomposite Plywood Materials" International Conference on Civil, Biological and Environmental Engineering, Nov. 21-22, 2013 Bangkok (Thailand) pp 37-40
6. NitinKotkunde, Aditya, D. Deole, A.K Gupta and S.K Singh, "Development of Constitutive models for Ti-6Al-4V alloy over wide ranges of low strain rates and temperatures" Accepted for publication in 8th International conference on Precision. Meso, Micro and Nano Engineering, NIT Calicut, India Dec 13-15, 2013.

7. NitinKotkunde, Aditya, D. Deole, A.K Gupta and S.K Singh, "Comparative study on modified Johnson Cook and Fields-Backofen constitutive models to predict flow behavior of Ti-6Al-4V alloy sheet at elevated temperature" International conference on Computer Aided Engineering, IIT Chennai, Madras, Dec 19-21, 2013.
8. Lade Jayahari, B.BaluNaik, Swadesh Kumar Singh, "Simulation and experimental investigation of ASS 304 at various temperatures in warm deep drawing forming Process", 2013 International Conference on Smart Systems (ICSS-2013), 07 – 08 October , 2013, Hyderabad, INDIA.
9. Hansoge, N.K., Singh, Y., Gupta, A.K. and **Singh, S.K.** (2013), "Flow stress prediction of austenitic stainless steel 304 in dynamic strain aging regime using Arrhenius type equation", International Conference on Advances in Materials Processing and Characterization (AMPC), Chennai, February 6-8, 2013, pp. 651-659.
10. Kotkunde, N., Gupta, A.K., Hansoge, N.K., Puranik, P. and **Singh, S.K.** (2013), "Study of flow stress analysis for Ti-6Al-4V alloy using modified Zerilli-Armstrong model", International Conference on Advances in Materials Processing and Characterization (AMPC), Chennai, February 6-8, 2013, pp 933-939.
11. **Swadesh Kumar Singh**, M L Kranthi Raj, B Bandhavi and AK Gupta, "Characterization and formability of commercially pure titanium at elevated temperature using finite element method" 4th International and 25th AIMTDR, Jadavpur University, Kolkata India, 2012, pp 168-173.
12. Jaya Hari, Balu Naik and **Swadesh Kumar Singh**, "Study of Formability and Thickness Distribution in Warm Forming of ASS 304" 4th International and 25th AIMTDR, Jadavpur University, Kolkata, India, 2012, India.
13. S.M. Hussaini, A.K. Gupta and **S.K. Singh**, "Determination of the Limiting Drawing Ratio in Deep Drawing Process at Different Temperatures for Austenitic Stainless steel" 4th International and 25th AIMTDR, Jadavpur University, Kolkata India pp 64-67.
14. Singh, Y., Hansoge, N.K., Gupta, A.K. and **Singh, S.K.** (2012), "A comparative study of constitutive models to predict flow stress behaviour in dynamic strain aging regime of austenitic stainless steel 316", 2nd International Conference on Materials Science, Metal & Manufacturing (M3 2012), Singapore, November 19-20, 2012, pp 98-106.
15. **Swadesh Kumar Singh**, Venkata Sasidhar, Vinay Kumar, Prudvi Reddy, and Amit Kumar Gupta, " Comparison of warm and hydromechanical deep drawing when low Carbon steel is subjected to ironing" 15th International Conference on Advances in Materials & Processing Technologies, 23-26 Sept, 2012, Wollongong, NSW Australia.
16. Daredy Ramana Reddy, Banoth Balunaik, **Swadesh Kumar Singh**, " Development Of A Composite Mate-Rial From Agro Waste For Wear Re-Sistance Application"15th International Conference on Advances in Materials & Processing Technologies, 23-26 Sept, 2012, Wollongong, NSW Australia.

17. Lade Jayahari, B.BaluNaik, A. K. Gupta and **Swadesh Kumar Singh**, " Study of micro hardness of Deep Drawn cups for Austenitic stainless steel-304 under warm conditions" 11th International conference on high Nitrogen Steels and Interstitial alloys, September 27-29, Chennai, India.
18. Kotkunde, N., Gupta, A.K., Hansoge, N.K., Puranik, P. and **Singh, S.K.** (2012), "Flow stress prediction of Ti-6Al-4V using modified Johnson Cook model", 3rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS), Delhi, December 5-8, 2012, pp 709-802.
19. Sharat Chandra G, Raghuram K, Amit Kumar Gupta and **Swadesh Kumar Singh**, "Predicting of flow stress in Dynamic Strain Aging Regime of ASS 304 using support vector regression"11th International conference on high Nitrogen Steels and Interstitial alloys, September 27-29, Chennai, India.
20. P.Venkata Sasidhar, K Limbadri, P Prudvi Reddy, Vinay Kumar and **Swadesh Kumar Singh**, " Study of friction in warm forming of aluminum is 737 alloy using LS-DYNA" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp31-36.
21. L. Swetha, D. Keerthi, K., Sai Rajeshwari and **Swadesh Kumar Singh**, " Thickness Distribution in Austenitic Stainless Steel 316 & 304 Drawn Cups" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp 43-47.
22. A.V. Siddhartha Gautham, A.Srikanth, Md.Aqheel, J.N.Murthy and **Swadesh Kumar Singh**, " Load displacement studies of stainless steel 316 cups drawn at various temperatures" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp 106-112.
23. P.M.S.Hallika, Kameshwari N, M.Pavani and **Swadesh Kumar Singh**, " Study of thickness and stress distribution in warm forming of aluminum IS 737 alloy using LS-DYNA" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp118-123.
24. **Swadesh Kumar Singh**, Ramana Reddy and Amit Kumar Gupta, " Comparison on Load and Formability of Low Carbon Steel in Warm and Hydromechanical Deep Drawing" International Conference on Materials Science, Metal & Manufacturing (M3 2011), Singapore, Dec 12-13, 2011.
25. Ramana Reddy, Balu Naik and **Swadesh Kumar Singh**, " Ingredients Composition Formulations and Development of a New Metal Matrix Composite for Friction Lining Applications Using MINITAB16" International Conference on Materials Science, Metal & Manufacturing (M3 2011), Singapore, Dec 12-13, 2011.

26. V K Anirudh, G Amrutha, AK Gupta and **Swadesh Kumar Singh**, "Flow stress prediction in Austenitic Stainless Steel 316 at elevated temperatures" International Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 123.
27. L. Jayahari, Ramana Gaud, AK Gupta and **Swadesh Kumar Singh**, "Experimental and Design consideration of Stretching of EDD steel sheet at elevated temperatures" International Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 202.
28. Dareddy Ramana Reddy, Banoth BaluNaik, **Swadesh Kumar Singh**, "Comparative evaluation of surface finish (Ra) for Al-SiCP Metal Matrix Composite machining with diamond grinding wheel using multiple regression analysis and ANN (MATLAB)", Fifth International Conference on Advances in Mechanical Engineering (ICAME-2011), June 06-08, 2011, S.V. National Institute of Technology, Surat, INDIA
29. **Swadesh Kumar Singh**, M. Swathi, Ramjee and Amit Kumar Gupta (2010), "Experimental Investigations and Thermal Analysis of Formability of EDD Steels in Warm Forming (up to 450⁰ C)" 3rd International and 24th AIMTDR, December 13-15, College of Engineering AU, Vishakapatnam, India.
30. **Swadesh Kumar Singh**, M L Kranti Raj, SM Hussaini and Amit Kumar Gupta (2010), "Characterization and formability of aluminum IS 737 40800 grade material at elevated temperature" 2nd International Conference on Production and Industrial Engineering CPIE-2010, December 3-5, NIT Jalandhar, India.
31. **Swadesh Kumar Singh** and Amit Kumar Gupta (2010), "Comparison of yield criteria for warm forming of EDD steel using FEM" International conference on computing ICC-2010, New Delhi, December 27-28, India.
32. **Swadesh Kumar Singh** PAPAN Varma, K. Mahesh, Vomsri Krishna, M. Harshal, Azharuddin, D. Ramesh and SriKesh(2009), "Evaluation of friction at 200⁰ C and experimental study on the extent of deformation in flow forming of EDD steel using deep drawing setup" International conference of The journal La Metallurgia Italiana on hot forming of steels and material properties Grado, Italy, 13-16 september.
33. Rahul.Shashikant.Sanghvi, M.Azharuddin, Sai Kiran.J.G and K.SriKesh, K. Mahesh, Amit Kumar Gupta and **Swadesh Kumar Singh** (2009), "Study the Effect of Temperature on Material Properties of EDD Steel Using Artificial Neural Network (ANN)" International Conference on Advances in Mechanical Engineering, August 3-5, S.V. National Institute of Technology, Surat – 395 007, Gujarat, India, pp 1069-1072.
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35. **Swadesh Kumar Singh**, Amit Kumar Gupta, Apurv Kumar And P. Viswanath (2008), “Application of Support Vector Regression (SVR) in Predicting Spring back in V Bending” 2nd International and 23th AIMTDR, IIT Chennai Dec. 15-16 pp 105-109.
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37. **Swadesh Kumar Singh** and B. L. Juneja (2003), “Orientation on an inclined plane” 2nd International conference on CAD/CAM Robotics, August, IIT Delhi, India.
38. **Swadesh Kumar Singh** and D. Ravi Kumar (2003), “Experimental and Theoretical Investigations on Hydraulic Counter Pressure Deep Drawing of EDD steel sheets” Proceedings of Asia Steel International Conference, Jamshedpur, India, Apr. 9-12.
39. Swadesh Kumar Singh and D Ravi Kumar, "Experimental Investigation on Hydraulic Counter-Pressure Deep Drawing" IT Based Manufacturing"2002, pp 449

National Conferences:

1. **Swadesh Kumar Singh**, Ramana Gaud, Eswar Prasad, Jaya Hari and Balu Naik (2009), “Development and Design Considerations of Warm Forming of Aluminum-alloy” NCSAME 09, JNTU Hyderabad, 20-21 Aug India.
2. Apurv kumar, P. Viswanath, K Mahesh, M. Swati, P M Vinay Kumar, A Abhijit, **Swadesh Kumar Singh** (2009), “Design of Dies in V – Bending Using Finite Element Simulation” National conference on emerging trends in Mechanical Engineering, SNIST, Hyderabad, AP, June 18-19 India pp 72-78.
3. **Swadesh Kumar Singh**, K. Mahesh and K. Suresh (2009), “A note on design considerations in flow forming using deep drawing setup” National conference on emerging trends in Mechanical Engineering, SNIST, Hyderabad, AP, June 18-19 India pp 1-6.
4. **Swadesh Kumar Singh** and K. Mahesh (2009), “Evaluation of Friction in Deep Drawing Under Warm Conditions” National Conference on Recent Advances in Manufacturing Technology, Shastra, TN, March 14-15 pp 199-205.

5. **Swadesh Kumar Singh** and Amit Kumar Gupta (2009), “Neural Network and Support Vector Regression Modeling of Turning Operation” National Conference on Recent Advances in Manufacturing Technology, Shastra, TN, March 14-15 pp 132-140.
6. **Swadesh Kumar Singh** and D. Ravi Kumar (2007), “Hydro-Mechanical Deep Drawing of Interstitial-Free Steel Sheets” NATIONAL CONFERENCE ON SHEET METAL FORMING, SMF 'December 12-13 , 2007 Hotel Le Meridien, Pune, India
7. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), “Effect of process parameters on draw ability in hydro-mechanical deep drawing” 21th All India Manufacturing Technology Design and Research Conference (AIMTDR) December India.
8. **Swadesh Kumar Singh** and D. Ravi Kumar (2002), “Experimental Investigation on Hydraulic Counter Pressure Deep Drawing” Proceedings of 20th All India Manufacturing Technology Design and Research Conference (AIMTDR), BIT Ranchi, India, Dec. 13-15 pp 449-454.

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M.Tech. (CAD/CAM) - JNTUH, Hyderabad, 2002,
B.Tech (Mechanical Engineering)-Nagarjuna University, A.P.1992



Experience: 22years

Research interests: CAD/CAM, Composite Materials, Modeling and Simulation and Rapid Prototyping.

Journal Publications/Conference Proceedings: 31

INTERNATIONAL JOURNALS:

1. **N. Sateesh** and C.S.P. Rao, Design Optimization and Manufacturing of Plate-Cams using NURBS, International Journal for Manufacturing Science and Technology (IJMST), Publisher: Advance Manufacturing Solutions Co Ltd., Toledo Ohio USA, 2005, Vol. 8, No.1,pp. 45-58.(Impact factor:1.3210)
2. **Sateesh, N.**, Rao, C.S.P. and Janardhan Reddy, T.A., Optimization of Cam-Follower Motions using B-Splines, International Journal for Computer Integrated Manufacturing (IJCIM), Publisher: Taylor & Francis, England, June 2009,Vol.22 No.6, PP. 515-523.(Impact factor: 1.019)
3. S. Dheeraj, **N. Sateesh**, A.L. Choudhary and U.D. Joshi, Application of Porous Material (Zeolite y) In Water Treatment, International Journal of Materials Science (IJoMS), Publisher: Research India Publications, 2010, Vol.5 No.6, PP. 839-846.
4. **N. Sateesh**, Bio-Diesel from Mustard Oil: A Renewable Alternative Fuel for Small Diesel Engines, Modern Mechanical Engineering (MME), Publisher: Scientific Research, 2011, 1, PP.77-83.
5. **N.Sateesh**, Design and Development of a Competitive Low-Cost Robot Arm with Four Degrees of Freedom, Modern Mechanical Engineering (MME), Publisher: Scientific Research, 2011, 1, PP. 47-55.
6. **N.Sateesh**, Robotics in clothes manufacture, International Journal of Mechanical Engineering and Applications (IJMEA), Publisher: Science Publishing Group, 2013 1(1), PP.17-27.
7. **N.Sateesh**, Automatic pre-mesh CAD data repairing, International Journal of Mechanical Engineering and Applications (IJMEA), Publisher: Science Publishing Group, 2013 1(1), PP.1-9.
8. **N.Sateesh**, Improvement in Motion Characteristics of Cam-Follower Systems Using

NURBS, International Journal on Design and Manufacturing Technologies, Chennai, India July, 2014, Vol8, Issue 2. (ISSN No. 0973-9106), pp.15-21.

9. Eshwara K. Prasad, Raman R. Goud, Swadesh Kumar Singh, and **N. Sateesh**, Construction of Strain Distribution Profiles of EDD Steel at Elevated Temperatures, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering Vol:9, No:12, 2015, pp. 1320-1326, World Academy of Science, Engineering and Technology(**Impact Factor=2.215**)

II. INTERNATIONAL CONFERENCES:

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2. **N. Sateesh**, C.S.P. Rao, and T.A. Janardhan Reddy, Synthesis of Cam-Follower Velocity Profile using B-spline, International Conference on Advanced Design and Manufacturing (ICADM-2007), Sethu Institute of Technology, Tamilnadu, India, 9-11, August 2007, pp. 398-402.
3. **N. Sateesh**, C.S.P. Rao, T.A. Janardhan Reddy, and A Padmarao, Optimization of Plate Cam Size, International Conference on Fascinating Advancement in Mechanical Engineering (FAME-2008), Mepco Schelenk Engineering College, Sivakasi, Tamilnadu, India, 11-13, December, 2008, pp.381-386.
4. **N.Sateesh**, C.S.P. Rao, K.Prashanth Reddy, and R.Raman Goud, Design of Cam-Follower Mechanisms Using Rational B-Splines, International Conference on Advanced Materials and Manufacturing Technologies (AMMT), JNTUH, Hyderabad, India, 18-20, December, 2014, pp. 184-192.
5. Pudiri Madhu, **N.Sateesh**, Neela Praveen, and Karampuri Satish, Modeling and Simulation of Fins for 150cc Engine, 1st International Conference on Advances in Engineering, SITICAiE–2015, S. P. B. Patel Engineering College and Saffrony Institute of Technology, Ahmedabad, India, 22-23, January 2015, pp.24-28.
6. **N.Sateesh**, P.Sampath Rao, D.V.Ravishanker, and K. Satyanarayana, Effect of Moisture on GFRP Composite Materials, 4th International Conference on Materials Processing and Characterization Elsevier-Material today Proceedings 2 (2015) pp.2902–2908.
7. M. Ashok Kumar, A.M.K. Prasad, D.V. Ravishankar, **N. Sateesh**, and D. Ravi, Effect of indenter displacement on angle plied composite plates subjected to quasi-static loading, 4th International Conference on Materials Processing and Characterization Elsevier-Material today Proceedings 2(2015) pp. 2938 – 2943.
8. V.Balaji, **N.Sateesh**, and M.Manzoor Hussain, Manufacture of Aluminium Metal Matrix

Composite (Al7075-SiC) by Stir Casting Technique, 4th International Conference on Materials Processing and Characterization (IJMPC-2015), Elsevier-Proceedings 2 (2015) 3403–3408.

9. **N.Sateesh**, C.S.P. Rao, K.Satyanarayana, and C.Rajashekar, A Design System for Complex Profiles of Machine Members Using a Synthetic Curve, 18th International Conference on Sustainable Urban Environment (ICSUE-2016), 4-5 February 2016 World Academy of Science, Engineering and Technology, Melbourne, Australia, pp.369-372.
10. K.Satyanarayana, **N.Sateesh,A.** and A. Venugopal “Experimental Studies on the Effect of Rake Angle on Turning Ti-6Al-4V with TiAlN Coated Carbides” in an International Conference Titled “18th International Conference on Mechanical, Automotive & Aerospace Engineering.” 4-5 February 2016, World Academy of Science, Engineering and Technology, Melbourne, Australia,pp.434-438
11. L. Siva Rama Krishna , Natrajan Mahesh, and **N.Sateesh**, Topology optimization using solid isotropic material with penalization technique for additive manufacturing, 5th International Conference on Materials Processing and Characterization (IJMPC-2016), Elsevier-Proceedings, 12-13th March 2016 –Accepted
12. Kundavarapu Vengalrao, Kopparthi Phaneendra Kumar, D.V.Ravi Shanker, Nadendla Srinivasababu, and **N.Sateesh**, An Investigation on RTM Process Parameters and their Influence on Impact Failure Behavior of FRP Laminates 5th International Conference on Materials Processing and Characterization (IJMPC-2016), Elsevier-oceedings, 12-13th March 2016-Accepted.
13. V.Rajesh, P.M. V Rao, and **N.Sateesh**, Investigation of Carbon Composites Subjected to Different Environmental Conditions 5th International Conference on Materials Processing and Characterization (ICMPC-2016), Elsevier-Proceedings, 12-13th March 2016-Accepted.

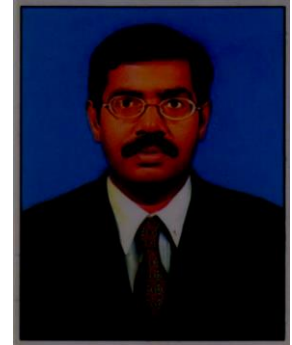
III.NATIONAL CONFERENCES:

1. D.V. Ravishanker, Dr. P. Ram Reddy, M.A.S. Srinivasulu, C. Karthik, and **N. Sateesh**, Achieving safety and weight reduction in automobiles with application of composite materials (An experiment on leaf spring) National seminar on Mordern Trends in Automobile (NSMTA-2002), in Rajarambapu Institute of Technology, Rajaramnagar, Sakharale, Dist: Sangli (MS), India, 1-2 August, 2002, pp.162-165.
2. **N.Sateesh**, Development of an integrated system for cam profile generation and manufacturing using SLS process, IV National conference on Trends in Mechanical Engineering (TIME'2010) held on 30th December 2010, P34-39.
3. **N. Sateesh**, C.S.P. Rao, and T.A. Janardhan Reddy ,Design of Cam-Follower Motions using Bezier Polynomials, National Conference on Factory Automation Robotics and Soft Computing (FARSC-2007), National Institute of Technology, Warangal, India, 18-19

January, 2007, pp.333-336.

4. **N.Sateesh**, Design, Fabrication and Analysis of Catalytic Converter, National Conference on State of the Art Technologies in Mechanical Engineering(NCSAME-2006), JNTUH, Hyderabad, India, 5-6 May,2006, pp.350-355.
5. **N. Sateesh**, C.S.P. Rao, and T.A. Janardhan Reddy, Integrated Design and Analysis of Disc Cams, National Conference on Recent Advances in Manufacturing Engineering (RAMT'06), Velammal Engineering College, Chennai (Tamilnadu), India, 3rd Feb 2006, pp. 207-212.
6. **N.Sateesh**, M.Chandra Sekhara Reddy, and L. Syam Sundar, Improvement in Motion Characteristics of Cam-Follower Systems, National Conference on Computer Applications in Mechanical Engineering (CAME-2005), J.N.T.U College of Engineering, Anantapur (A.P.),India, 21st Dec 2005, pp. 25-29.
7. M.Chandra Sekhara Reddy, **N.Sateesh**, and A. Padma Rao, A CAD/CAM System for Optimization of Plate-Cam Size, National Conference on Computer Applications in Mechanical Engineering (CAME-2005),J.N.T.U College of Engineering, Ananthapur (A.P.),India, 21st Dec 2005, pp. 30-34.
8. **N.Sateesh**, Integrated System for Design of Disc Cams, National Conference on Advances in Mechanical Engineering Sciences (NACAMES-04), Sri Siddhartha Institute of Technology, Tumkur (Karnataka), Sept 24-25, 2004, pp 31-36.
9. **N. Sateesh**, C.S.P. Rao, and T.A. Janardhan Reddy, Computer Aided Design and Manufacturing System for Cylindrical Cams, National Conference on Advanced Materials and Manufacturing Techniques (AMMT), JNTU College of Engineering, Hyderabad and CITD, Hyderabad, 8-9, March, 2004 pp. 144-149

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Qualifications :

Ph.D (Manufacturing Engg, 2012, Annamalai University)

M.E (Thermal Power Engg, 1996, Annamalai University)

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Experience: 19 years

Teaching - 6 Years & 5 Months

Research – 3 Years

Industry – 10 Years & 10 Months

Journal Publications/ Conference Proceedings: 10

INTERNATIONAL JOURNALS

- (1) **R. Karthikeyan and V. Balasubramanian**, (2010) Predictions of the optimized friction stir spot welding process parameters for joining AA2024 aluminum alloy using RSM. *International Journal of Advanced Manufacturing Technology*, Vol.51 pp 173-183. (Springer Publications)
- (2) **R.Karthikeyan and V.Balasubramanian**, (2012) Optimization and sensitivity analysis of friction stir spot welding process parameters for joining AA6061 aluminum alloy. *International Journal Manufacturing Research*. Vol. 7(3) pp 257-272. (Inder Science Publications)
- (3) **R.Karthikeyan and V.Balasubramanian**, (2013) Statistical optimization and sensitivity analysis of friction stir spot welding process parameters for joining AA7075 aluminum alloy. *International Journal of Experimental Techniques*. Vol. 37 (2), pp 6-15 (Society for Experimental Mechanics Wiley-Blackwell)

NATIONAL JOURNALS

- (1) **R. Karthikeyan and V. Balasubramanian** (2010) Friction Stir Spot Welding (FSSW) of AA1100 aluminum alloy- Parameters Optimization and Sensitivity, *Indian Welding Journal*

CONFERENCES

- (1) **R. Karthikeyan and V. Balasubramanian** (2008) Effect of Tool rotational speed and dwell time on lap shear strength of friction stir spot welded AA2024 aluminum alloy. *International Symposium on Joining of metals* organized by Indian welding society (IWS) Trichy. Proceedings Vol. 2 pp. 23-30.
- (2) **R.Karthikeyan and V.Balasubramanian** (2009) Friction stir spot welding of aluminum alloys” *National Workshop on Environmentally Cleaner Welding Process* organized by Indian Welding Society (IWS) Annamalai University, Proceedings pp. 121 -128.
- (3) **R.Karthikeyan and V.Balasubramanian** (2009) Effect of process parameters on Friction Stir Spot Welded Aluminum Alloy, *National conference on Recent advances in Welding*. Organized by PESIT and IWS, Bangalore. Proceedings pp. 2.84-2.90.
- (4) **R. Karthikeyan and V. Balasubramanian** (2010) Optimization and sensitivity analysis of friction stir spot welding process parameters for joining AA6061 aluminum alloy, *International conference on Innovative Processes for Materials Joining & Surfacing* organized by Indian welding society (IWS) Mumbai. Proceedings pp. 407-416.
- (5) **R. Karthikeyan and V. Balasubramanian** (2011) Effect of Friction Stir Spot Welding process parameters on strength and failure modes of A6061-T₆ aluminum alloy joints, *International Conference on Advances in Cutting, Welding and Surfacing (CWS 2011)* organized by Indian Welding Society, Coimbatore, Proceedings pp. y1-y8.
- (6) **R.Karthikeyan and V. Balasubramanian** (2012) Effect of Tool Rotational Speed on Joint Characteristics of Friction Stir Spot Welded A6061-T₆ aluminum alloy. *International Symposium on Joining of metals* organized by Indian welding society (IWS) Trichy. Proceedings Vol. 2 pp. 31-40.

Dr. Raman Goud. Rachala,
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Qualifications : **Ph.D** in Sheet Metal forming, JNTUH-Hyderabad)
M.Tech (Advanced Manufacturing Systems) (JNTUH-Hyderabad)
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Experience: 17 years

Research Interest: Sheet metal forming, FEA, Manufacturing

Journal Publications/Conference Proceedings:19

Journal Publications

International Journals:

1. **R.Raman Goud**, K. Eshwara Prasad” Experimental study of hardness behaviour of EDD steel in stretching at elevated temperatures “International Journal of Scientific & Engineering Research (Accepted for publication)
2. **R.Raman Goud** K. Eshwara Prasad, and Swadesh Kumar Singh “Thickness Distribution of Extra Deep Drawn steel in stretchforming at elevated Temperatures” International journal of materials Today, ELSEVIER publications (Accepted for publication)
3. R Sri Rama devi, G Poshal, K. Eshwara prasad, **R.Raman Goud**” Strain hardening behaviour of hot rolled annealed nickel free nitrogen based austenitic stainless steel” International journal of materials Today, ELSEVIER publications (Accepted for publication)
4. Eshwara K. Prasad, **Raman R. Goud**, Swadesh Kumar Singh, N. Sateesh “Construction of Strain Distribution Profiles of EDD Steel at Elevated Temperatures” International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering Vol:9, No:12, 2015,pp 1329-1335, World Academy of Science, Engineering and Technology
5. Jella Gangadhar, K. Sai Kiran Reddy, **R. Raman Goud**, K. Eshwara Prasad, George Varghese, Amit Kumar Gupta, Swadesh kumar Singh“ Finite Element Simulation of Direct Redrawing Process of EDD Steel at Elevated Temperatures” International journal of materials Today, ELSEVIER publications vol.2 issue 4 2015 pp 1968-1977.
6. Chadaram Srinivasu, Vishnu, Limbadri, **R. Raman Goud**, K. Eshwara Prasad, George Varghese, Swadesh Kumar Singh, Amit Kumar Gupta” Finite Element Simulation of Stretching Operation of EDD Steel at Different Temperatures” International journal of materials Today, ELSEVIER publications vol.2 issue 4 2015 pp 1959-1967.

7. **R.Raman Goud**, K. Eshwara Prasad, Swadesh Kumar Singh” Formability Limit Diagrams of Extra Deep Drawn steel at elevated temperatures” International journal of Procedia materials Science ELSEVIER publications vol.6 2014 pp 123-128.
8. **R.Raman Goud**, K Eshwara Prasad, Swadesh Kumar Singh” Redrawing of EDD steel at elevated temperatures” International journal of Advanced materials & Manufacturing and characterization vol.4 2014 pp 75-80.

National Journals:

1. **R.Raman Goud**, K. Eshwara Prasad, Swadesh Kumar Singh” Microstructural studies of Extra Deep Drawn steel in stretchforming at elevated temperatures “Journal of Manufacturing Engineering” SME vol.9 2014 pp 128-134

International conferences:

1. **R.Raman Goud** K. Eshwara Prasad, and Swadesh Kumar Singh “Thickness Distribution of Extra Deep Drawn steel in stretchforming at elevated Temperatures” International Conference on Materials Processing and characterization, GRIET, Hyderabad ,India, 13-14 March, 2015
2. R Sri Rama devi, G Poshal, K. Eshwara prasad, **R.Raman Goud**” Strain hardening behaviour of hot rolled annealed nickel free nitrogen based austenitic stainless steel” International Conference on Materials Processing and characterization, GRIET, Hyderabad ,India, 13-14 March, 2015
3. K. Eshwara Prasad, **R.Raman Goud** and Swadesh Kumar Singh“Construction of Strain Distribution Profiles of EDD Steel at Elevated Temperatures" XVII International Conference on Materials Engineering and Technology - ICMET 2015 at Melbourne, Australia on 13-14 December-2015.
4. N. Sateesh, C.S.P. Rao, K. Prashanth Reddy, **R. Raman Goud** “design of cam-follower mechanisms using rational b-splines” International Conference on advanced materials and manufacturing technologies (AMMT-2014) on December 18-20,2014
5. K. Eshwara Prasad, **R.Raman Goud** and Swadesh Kumar Singh “Some Investigations of Stretching operation of EDD Steel at elevated Temperatures using FEM" International conference on Computer Science and Information Systems (ICSIS’2014), at Dubai (UAE), on Oct. 17-18, 2014.
6. **R.Raman Goud** and K. Eshwara Prasad, Construction of Forming Limit Diagram of Extra Deep Drawn steel at elevated temperatures" International Conference on Materials Processing and characterization, GRIET, Hyderabad ,India, March 8-10, 2014.
7. **R.Raman Goud** and K. Eshwara Prasad, Forming Limit Diagram of EDD steel for stretching in sheet metal forming" International Conference on Materials Processing and characterization, GRIET, Hyderabad ,India, March 8-10, 2012 pp 83-88.
8. **R.Raman Goud** ,L. Jayahari, K. Eshwara Prasad, and Swadesh Kumar Singh, "Experimental and Design considerations of Stretching of EDD steel sheet at elevated temperatures" International

Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 202-203

National Conferences:

1. **R.Raman Goud**, K. Eshwara Prasad” Experimental study of hardness behaviour of EDD steel in stretching at elevated temperatures “National Conference on Recent Trends in Mechanical Engineering(NCRTME-2016),JNTUH, Hyderabad, April 28-29,2016 pp-62
2. **R.Raman Gaud**, K. Eshwara Prasad, Jayahari and Balu Naik, Swadesh Kumar Singh, (2009), “Development and Design Considerations of Warm Forming of Aluminum-alloy” NCSAME 09, JNTU Hyderabad, pp 24 Aug 2009, India.

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Qualifications:

B.E (Mechatronics) - Anna University, Chennai (2007)

M.Tech (Computer Integrated Manufacturing) – SRM University, Chennai (2009)

MBA (Education Management) – Alagappa University, Karaikudi (2012)

Ph.D (Material Science & Engineering) – Singhania University, Pilani (2013)

Experience : 8.5 years

Research Interest: Mechatronics and Materials

Journal Publications/Conference Publications: 58

PUBLICATIONS IN INTERNATIONAL JOURNALS: (TOTAL - 11)

1. Ram. Subbiah, Dr.R.Rajavel. (2010), “Dry Sliding Wear Behavior Analysis of Nitrided 316LN Grade Austenitic Stainless Steels Using Gas Nitriding Process”, International Journal of Theoretical and Applied Information Technology, Vol.19, No.2, pp 98-101. (Anna University Annexure II – Impact Factor 0.6)
2. Ram. Subbiah, Dr.R.Rajavel. (2014), “Salt Bath Nitriding on 316LN Austenitic Stainless Steel Material”, Australian Journal of Basic and Applied Sciences. (Anna University Annexure II – Impact Factor 2.0)
3. Ram.Subbiah, S.Satheesh, Shoan C.Sunny, G.Kishore, K.Fahad, Dr.R.Rajavel. (2014), “Assessment of Properties on 316LN Austenitic Stainless Steel Material under Low Temperature Liquid Nitriding Process”, International Journal of Innovative Engineering and Exploring Research, Vol.3, pp 69-71. Impact Factor 1.0
4. Ram. Subbiah, P. Karthick, R.Manjunath, T. Prasanth, R. Ilavarasan, Dr.R. Rajavel, (2014), “Experimental Investigation on Hardness of Gas Implanted AISI 316LN Austenitic Stainless Steel”, International journal of Inventive Engineering and Sciences, Volume-2, Issue-3, pp 51-55. Impact Factor 1.0
5. Ram. Subbiah, P. Karthick, R.Manjunath, T. Prasanth, R. Ilavarasan, Dr.R. Rajavel, (2014), “Effect of Nitrogen on Low Temperature Nitrided Stainless Steels for Steam Turbine Blades”, International journal of Recent Technology and Engineering, Volume-

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8. Ram.Subbiah, Dr.R.Rajavel. (2012), "Microstructure and Wear Characteristics of 316LN Austenitic Stainless Steel Material by Plasma Nitriding Process", International Review of Applied Engineering Research, Vol.02, pp 31-35.
9. Ram. Subbiah, Dr.R.Rajavel. (2012), "Improving the Hardness of AISI 316LN Austenitic Stainless Steel Material by Gas and Plasma Nitriding Process", International Journal of Engineering Research and Technology, Vol.05, pp 73-79. Impact Factor 1.0.
10. Ram.Subbiah, Dr.R.Rajavel. (2012), "Investigation of 316LN Austenitic Stainless Steel by Gas and Salt Bath Nitriding Process", International Review of Applied Engineering Research, Vol.2, pp 23-30. – Scopus Indexed.
11. Ram.Subbiah, Dr.R.Rajavel. (2012), "Assessment of Properties on 316LN Austenitic Stainless Steel by Salt Bath and Plasma Nitriding Process", International Journal of Applied Engineering Research, Vol.7, pp 79-84. – Scopus Indexed.

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1. Ram.Subbiah, S.Surendarnath. (2016),"Wear behavior on 316LN Austenitic Stainless Steel Material by Liquid Nitriding Process" International Conference on Materials Processing and Characterization", ICMPC – 2016 at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad , from 13th to 15th March 2016.
2. Ram.Subbiah, S.Surendarnath. (2016),"Finite Element Simulation of Pure Aluminium Processed by ECAP Using New Die Design" International Conference on Materials Processing and Characterization", ICMPC – 2016 at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad , from 13th to 15th March 2016.
3. R.Ganesh, Ram.Subbiah. (2015), "Dry sliding wear behavior of powder metallurgy aluminium matrix composite", International Conference on Materials Processing and Characterization", ICMPC – 2015 at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad , from 14th to 15th March 2015.
4. Ram.Subbiah, Dr.R.Rajavel. (2012), "Influence of Salt Bath Nitriding Process on Stainless Steel Material", International Conference on Advances in Mechanical,

Manufacturing and Building Sciences”, ICAMB – 2012 at VIT University, Vellore from 09th to 11th January 2012.

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7. Ram.Subbiah, Dr.R.Rajavel. (2012), “Salt Bath Nitriding of 316LN Stainless Steels”, International Conference on Systems, Methodologies, Automation and Research Trends, SMART - 2012 at Sri Manakula Vinayagar Engineering College, Pondicherry on 12th-14th December 2012.
8. Ram.Subbiah, Dr.R.Rajavel. (2012), “Wear Behavior of 316LN Austenitic Stainless Steels by Gas Nitriding Processes”, International Conference on Systems, Methodologies, Automation and Research Trends, SMART - 2012 at Sri Manakula Vinayagar Engineering College, Pondicherry on 12th-14th December 2012.
9. Ram.Subbiah, Dr.R.Rajavel. (2012), “Assessment of Properties of Austenitic Stainless Steel by Plasma Nitriding Processes”, International Conference on Systems, Methodologies, Automation and Research Trends, SMART - 2012 at Sri Manakula Vinayagar Engineering College, Pondicherry on 12th-14th December 2012.
10. Ram. Subbiah, Dr.R.Rajavel. (2011), “Low Temperature Salt Bath Nitriding of 316LN Stainless Steel Material”, International Conference in South Asia on “Global Manufacturing Systems and Management”, ICGMSM – 2011 at Coimbatore Institute of Technology, Coimbatore from 1st to 3rd August 2011.
11. Ram.Subbiah, Dr.R.Rajavel. (2011), “Surface Modifications of Austenitic Stainless Steels by Plasma Nitriding Process and Analyzing its Wear Behavior”, International Conference in South Asia on “Global Manufacturing Systems and Management”, ICGMSM – 2011 at Coimbatore Institute of Technology, Coimbatore from 1st to 3rd August 2011.
12. Ram.Subbiah, Dr.R.Rajavel. (2011), “Studies on Dry Sliding Wear Behavior of 316LN Austenitic Stainless Steel by Salt Bath Nitriding Process”, International Conference on Recent Advances in Mechanical Engineering”, INCRAME – 2011 at MGR University, Chennai from 21st to 22rd April 2011.
13. Ram.Subbiah, Dr.R.Rajavel. (2011), “Assessment of Properties of Austenitic Stainless Steel by Plasma Nitriding Process”, International Conference on Recent Advances in Mechanical Engineering”, INCRAME – 2011 at MGR University, Chennai from 21st to 22rd April 2011.

14. Ram.Subbiah, Dr.R.Rajavel. (2011), “Gas Nitriding of 316LN Austenitic Stainless Steel and Analyzing its Wear Behavior”, International Conference on Recent Advances in Mechanical Engineering”, INCRAME – 2011 at MGR University, Chennai from 21st to 22rd April 2011.
15. Ram.Subbiah (2008), “Implementation of Low Cost Automation in Textile Industry”, International Conference on Digital Factory – ICDF 2008, Coimbatore Institute of Technology, Coimbatore, on 11th to 13th August 2008.
16. Ram.Subbiah (2008), “Industrial & Medical Applications of Robots”, International Conference on Digital Factory – ICDF 2008, Coimbatore Institute of Technology, Coimbatore, on 11th to 13th August 2008.
17. Ram.Subbiah (2008), “Microcontroller Based Car Parking System”, International Conference on Digital Factory – ICDF 2008, Coimbatore Institute of Technology, Coimbatore, on 11th to 13th August 2008.

PUBLICATIONS IN NATIONAL CONFERENCES: (TOTAL 30)

1. Ram.Subbiah,(2015), “Material condition tailored to plasma nitriding process for ensuring wear resistance of austenitic stainless steel”, National Conference on fast emerging trends in engineering and technology”, NCOFEET – 2015 at Bharat Institute of Engineering and Technology, Hyderabad, from 25th to 26th March 2015.
2. Ram.Subbiah,(2015), “Effect of case hardening on AISI 316LN austenitic stainless steel by low temperature gas nitriding”, National Conference on fast emerging trends in engineering and technology”, NCOFEET – 2015 at Bharat Institute of Engineering and Technology, Hyderabad, from 25th to 26th March 2015.
3. Ram.Subbiah,(2015), “Evaluation of salt bath nitrided austenitic stainless steel specimens at low temperature”, National Conference on fast emerging trends in engineering and technology”, NCOFEET – 2015 at Bharat Institute of Engineering and Technology, Hyderabad, from 25th to 26th March 2015.
4. Dr.Ram.Subbiah (2014), “ Brain Controlled Interfaces – Leg Movement Restoration Using EEG Signal”, National Conference on Advances and Innovations in Civil and Mechanical Engineering – AICME 2014, Vel Tech High Tech Engineering College, Chennai on 23rd August, 2014.
5. Dr.Ram.Subbiah (2014), “ Brain Controlled Interfaces – Actuation of Pro-Asthetic ARM Using EEG Signal”, National Conference on Advances and Innovations in Civil and Mechanical Engineering – AICME 2014, Vel Tech High Tech Engineering College, Chennai on 23rd August, 2014.

6. Dr.Ram.Subbiah (2014), “ Orientation Dependence of Nitrogen Super Saturation in 316LN Austenitic Stainless Steel using Low Temperature Plasma Nitriding Processes”, National Conference on Advances in Materials – AIM 2014, Anna University, Nagercoil on 7th October, 2014.
7. Dr.Ram.Subbiah (2014), “ Surface Properties of Nitrided Layer on AISI 316LN Austenitic Stainless Steel by Low Temperature Gas Nitriding in Short Time”, National Conference on Advances in Materials – AIM 2014, Anna University, Nagercoil on 7th October, 2014.
8. Dr.Ram.Subbiah (2014), “ Improvement of Hardness Properties by Solution Treatment in Nitrided Type 316LN Stainless Steel”, National Conference on Advances in Materials – AIM 2014, Anna University, Nagercoil on 7th October, 2014.
9. Ram.Subbiah, Dr.R.Rajavel. (2009), “Wear Behavior Analysis of Nitrided 316LN Grade Austenitic Stainless Steel Using Gas, Salt Bath and Plasma Nitriding Processes”, National Conference on Recent Advancement and Development in Material Science”, RAADIMS – 2009 at Mepco Schlenk Engineering College, Sivakasi from 20th to 21st February 2009.
10. Ram.Subbiah, Dr.R.Rajavel. (2011), “Effect of Plasma Nitriding on Stainless Steel Material”, Decennial Year - National Conference on Emerging Trends in Design and Manufacturing”, ETDM - 2011 at Saveetha Engineering College, Chennai from 24th to 25th March 2011.
11. Ram.Subbiah, Dr.R.Rajavel. (2011), “Assessment of Properties of Austenitic Stainless Steel by Salt Bath Nitriding Process”, Decennial Year - National Conference on Emerging Trends in Design and Manufacturing”, ETDM - 2011 at Saveetha Engineering College, Chennai from 24th to 25th March 2011..
12. Ram.Subbiah, A.John Presin Kumar, H.Manikandan, Dr.R.Rajavel (2011), “Wear Characterization of Austenitic Stainless Steel by Plasma Nitriding Process”, National Conference on Advances and Innovations in Mechanical Engineering”, AIME - 2011 at S.K.R Engineering College, Chennai on 24th February 2011.
13. Ram.Subbiah, Dr.R.Rajavel. (2011), “Surface Hardening of Stainless Steel Material by Gas Nitriding Process”, National Conference on Advances and Innovations in Mechanical Engineering”, AIME - 2011 at S.K.R Engineering College, Chennai on 24th February 2011.
14. Ram.Subbiah, Dr.R.Rajavel. (2011), “Nitriding of AISI 316LN Austenitic Stainless Steel by Salt Bath Nitriding Process”, National Conference on Advances and Innovations in Mechanical Engineering”, AIME - 2011 at S.K.R Engineering College, Chennai on 24th February 2011.
15. Ram.Subbiah, Dr.R.Rajavel. (2011), “Influence of Salt Bath Nitriding and Plasma Nitriding Process on 316LN Stainless Steel Material”, National Conference on Recent Trends in Manufacturing Technology”, RTMT – 2011 at College of Engineering, Guindy

Campus, Anna University, Chennai on 11th and 12th March 2011.

16. Ram.Subbiah, Dr.R.Rajavel. (2011), "Effect of Assessment on Properties of 316LN Stainless Steel Material by Gas Nitriding Process", National Conference on Computer Applications in Mechanical Engineering", NATCAME - 2011 at J.N.N Institute of Engineering, Chennai on 5th August 2011.
17. Ram.Subbiah, Dr.R.Rajavel. (2011), "Modifying the Surface of 316LN Stainless Steel Material", National Conference on Future Engineering in Automobile Engineering", NCFEAT - 2011 at Saveetha University, Saveetha School of Engineering, Chennai on 11th March 2011.
18. Ram.Subbiah, Dr.R.Rajavel. (2011), "Surface Hardening of AISI 316LN Stainless Steel by Salt Bath Nitriding Process", National Conference on Recent Trends in Engineering Sciences, RTIES - 2011 at Aksheyaa College of Engineering, Chennai on 19th March 2011.
19. Ram.Subbiah, Dr.R.Rajavel. (2011), "Structure and Wear Resistance of Plasma Nitrided Stainless Steels", National Conference on Recent Trends in Engineering Sciences, RTIES - 2011 at Aksheyaa College of Engineering, Chennai on 19th March 2011.
20. Ram.Subbiah, Dr.R.Rajavel. (2011), "Low Temperature Gas Nitriding of 316LN Stainless Steels", National Conference on Recent Trends in Engineering Sciences, RTIES - 2011 at Aksheyaa College of Engineering, Chennai on 19th March 2011.
21. Ram.Subbiah, Dr.R.Rajavel. (2011), "Dot Mapping and Line Scale Mapping Analysis on 316LN Stainless Steel Material by Gas, Plasma and Salt Bath Nitriding process"- Session-II , National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 11th August 2011.
22. Ram.Subbiah, Dr.R.Rajavel. (2011), "Microstructure Investigation on 316LN Austenitic Stainless Steel by Gas, Salt Bath and Plasma Nitriding"- Session-II, National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 11th August 2011.
23. Ram.Subbiah, Dr.R.Rajavel. (2011), "XRD Analysis on 316LN Stainless Steel Material by Gas, Plasma and Salt Bath Nitriding Process"- Session-II, National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 11th August 2011.
24. Ram.Subbiah, Dr.R.Rajavel. (2011), "Improving the Surface Hardness of 316LN Austenitic Stainless Steel by Plasma and Salt Bath Nitriding Process"- Session-I, National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering

College, Chennai on 11th August 2011.

25. Ram.Subbiah, Dr.R.Rajavel. (2011), “Low Temperature Wear Behavior of 316LN Grade Stainless Steel by Salt Bath and Gas Nitriding Process”- Session- I, National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 11th August 2011.
26. Ram.Subbiah, Dr.R.Rajavel. (2011), “Effect of Diffusion Time in Assessment of Properties on 316LN Grade Stainless Steel by Gas and Plasma Nitriding Process”- Session-I, National Conference on Advances and Innovations of Civil and Mechanical engineering, AICME - 2011 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 11th August 2011.
27. Ram.Subbiah (2008), “PLC Based Smart Car Parking System”, National Conference on Emerging Trends in Engineering and Technology, NCETET - 2008 at Raja Rajeshwari Engineering College, Chennai on 4th & 5th April 2008.
28. Ram.Subbiah (2008), “BEAM Robot – An Obstacle Sensing Robot”, National Conference on Advances in Robotics, Precision Engineering and Manufacturing Techniques, AIRPAM - 2008 at MIT Campus, Anna University, Chennai on 14th & 15th March 2008.
29. Ram.Subbiah (2008), “Automation of Elastic Ribbon Cutting”, National Conference on Advancements in Manufacturing and Management Systems – AIMMS 2008, Sri Sairam Engineering College, Chennai, on 17th April 2008.
30. Ram.Subbiah (2008), “Prediction of Surface Roughness in Turning Operation using Neural Network”, National Conference on Advancements in Manufacturing and Management Systems – AIMMS 2008, Sri Sairam Engineering College, Chennai, on 17th April 2008.

Dr. K.Venkateswarlu (ID-1350)

Associate Professor,

Qualifications: Ph.D. in I.C Engines (JNTU-Kakinada),

M.Tech – Thermal Engineering (JNTU Hyderabad),

B.Tech - Mechanical Engineering (JNTU Hyderabad)

Experience: 17 Years

Research Interest: Fuel efficiency and emission improvement of Diesel engines

Journal Publications: 13



National Publications:

1. K.Venkateswarlu., M.Ramesh., K.Veladri., Testing of Methanol-gasoline blends as alternative fuel for S.I Engines. Institution of Engineers, India IE(I), Vol 90,2009, Pages 24-29.

International Publications:

1.K.Venkateswarlu, B.S.R Murthy, and V.V Subbarao., An Experimental Investigation on Performance,Combustion and Emission Characteristics of Diesel-Biodiesel Blends with Isobutanol as an Additive. SAE Technical Paper number: 2012-28-0011, DOI: 10.4271/2012-28-0011.

2. K.Venkateswarlu., B.S.R Murthy., V.V Subba Rao., K.Vijaya Kumar., Effect of Exhaust Gas Recirculation and Ethyl Hexyl Nitrate Additive on Biodiesel Fuelled Diesel Engine for the Reduction of NOx Emissions. Frontiers in Energy (Springer), September 2012, Volume 6, Issue 3, pp 304-310.

3.K.Venkateswarlu, K.Ramakrishna, K.Vijaya Kumar., Improvement of Engine Performance and Emissions with Ethyl Hexyl Nitrate and Diesel-Biodiesel Blends. International Energy Journal (IEJ), Volume 13, Issue 2, June 2012, pp 85-96.

4.K.Venkateswarlu, B.S.R Murthy, V.V Subbarao, P.Sai Chaitanya., An Experimental Investigation on the Combined Effect of Exhaust Gas Recirculation and Cetane Improver on Biodiesel Fueled Diesel Engine” International Energy Journal(IEJ), Volume 13, Issue 3, September 2012, pp133-144.

5.K.Venkateswarlu, B.S.R Murthy, V.V Subba Rao., The Effect of Exhaust Gas Recirculation and Di-Tertiary Butyl Peroxide on Diesel-Biodiesel Blends for Performance and Emission Studies, International Journal of Advanced Science and Technology,Vol 54,pp49-60,2013.

6.K.Venkateswarlu, B.S.R Murthy., Effect of Engine Modifications on Performance and Emission Characteristics of Diesel Engines with Alternative Fuels. International Journal of Engineering and Applied Sciences (IJEAS), vol.2, issue 2, 2010, pp 69-78.

7.Syed yousufuddin, K.Venkateswarlu, Naseeb Khan., A computational study to investigate the effects of insulation and EGR in a diesel engine. International Journal of Energy and Environment(IJEE), Volume 3, issue 2, 2012, pp 247-266.

8.G.R.K.Sastry, K.Venkateswarlu, Syed Yousufuddin, B.S.R Murthy., Performance,Vibration and Emission Analysis Of Diesel Engine Fuelled With Fish Oil Bio Diesel Blends, International Journal of Advanced Engineering Technology, IJAET/Vol.III/ Issue I/January-March, 2012/116-120.

9.Syed Yousufuddin, K.Venkateswarlu,G.R.K.Sastry., Effect of Compression Ratio and Equivalence Ratio on the Emission Characteristics of a Hydrogen-Ethanol Fuelled Spark Ignition Engine,. International Journal of Advanced Science and Technology, Vol. 40, March, 2012, PP 91-100.

10.Syed Yousufuddin, K. Venkateswarlu, Naseeb Khan., Effect of Ignition Timing and Equivalence Ratio on the Performance of an Engine Running at Various Speeds Fuelled with Gasoline and Natural Gas. International Journal of Advanced Science and Technology. Vol. 43, June, 2012, pp67-79.

11.K.Venkateswarlu, B.S.R Murthy, V.V Subbarao., An experimental investigation to study the effect of fuel additives and exhaust gas recirculation on combustion and emissions of diesel-biodiesel blends. The Journal of Brazilian Society of Mechanical Sciences and Engineering (Accepted).

12.K.Venkateswarlu, B.S.R Murthy, V.V Subba Rao., “Performance and Emission Improvement of Biodiesel Fueled Diesel Engine with Exhaust Gas Recirculation and Ethyl Hexyl Nitrate Additive,” International Journal of Bio-Science and Bio-Technology, Vol.7(2), (2015), pp.87-106.

B.Ch.Nookaraju (ID-324)

Associate Professor

Qualifications:

Ph.D (Pursuing)- Heat Transfer (JNTU-Hyderabad),

M.Tech – Thermal Engineering (NITC-Calicut, Kerala),

B.E - Mechanical Engineering (Andhra University, Visakhapatnam)

Experience: 13 Years

Research Interest: Heat Transfer, Electronics Cooling, Heat Pipes



RESEARCH PROJECT:

Completed Sponsored AICTE Project “Thermal Hydraulics Of Heat Pipe Heat Sinks For Electronics Cooling Application Under Research Promotion Scheme (RPS).” Worth 6.00 Lakhs 2012-2014. (Co-investigator)

Journal Publications:

International Publications

1. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, ‘Experimental and Numerical Analysis of thermal performance in Heat Pipes’, International Journal of Procedia Engineering, Vol.27, 2015, Pp: 800-808. Elsevier Publication.
2. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, ‘Thermal Analysis of Gravity Effected Sintered Wick Heat Pipe’, International Journal of Materials Today: Proceedings, Volume 2, 2015, Pp. 2179–2187. Elsevier Publication.
3. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, H Prasanth, C Pradeep ‘ Experimental study on Sintered Copper Wick Heat Pipe at different Orientations’, International Journal of innovative Research in Advanced Engineering (IJIRAE), Volume 2, Issue 5, May 2015, Pp. 176–180. ISSN No.2349-2163 (Impact Factor:1.893)
4. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, T Sai Kiran ‘ Experimental Investigations and Comparison of Heat Pipes’, International Journal of innovations in Engineering & Technology(IJMET), Volume 5, Issue 3, June 2015, Pp. 128–137. ISSN No.2319-1058 (Impact Factor:0.672)
5. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, ‘Experimental and Numerical Investigation on enhancement thermal characteristics of sintered wick heat pipe using water as fluid ’, International Journal of Materials Today: Proceedings, Accepted for Elsevier Publication.

International Conferences

1. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, ‘Experimental and Numerical Analysis of thermal performance in Heat Pipes’, International Conference on Computational Heat and Mass transfer (ICCHMT-15), National Institute of Technology, Warangal, India. 30 Nov- 2 Dec 2015, Code:1440054143
2. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, ‘Thermal Analysis of Gravity

Effectuated Sintered Wick Heat Pipe'(ICMPC-2015) 4th International Conference on Materials Processing and Characterization", Gokaraju Rangaraju Institute of Engg & Technology, Hyderabad, India, 14-15 March, 2015, Code: MT-137.

3. B Ch Nookaraju, PSV Kurma Rao, S Naga Sarada, 'Experimental and Numerical Investigation on enhancement thermal characteristics of sintered wick heat pipe using water as fluid ', Accepted for International Conference on Material Processing and characterization, ICMPC 2016, Gokaraju Rangaraju Institute of Engg & Technology, Hyderabad, India,

National Conferences:

1. "Analytical and Experimental Investigations on cooling of stacks of Electronic Printed Circuit Boards -A review", A National Conference in SVU, Tirupathi, August, 2004.
2. "Turbulence Cooling in Microelectronic Devices", International Conference in Indian Institute of Technology, Kanpur, 2005.
3. "Modeling of Electronic Circuit Boards for Low and High Reynolds Numbers", National Conference in CBIT Hyderabad, March, 2007.
4. "Turbulent heat and fluid flow analysis of array of heated blocks", National Level Technical symposium in SNIST Hyderabad, DEC 2008.
5. "Turbulent heat and fluid flow analysis of array of heated blocks in Electronic Enclosures", ASME International conference at IIT Kharagpur, Jan, 2014.

Ms. U.S.Jyothi,
Associate Professor (ID-880)

Qualification: M.Tech (Ph.D)

M.Tech (Thermal Engineering), JNTUH, 2001

B.Tech (Mechanical Engineering), JNTU, Anantapur, 1998

Experience: 12 years in industry and 5 years in teaching



Journal Publications: 4

International Journals:

1. U.S.Jyothi & K.Vijaya Kumar Reddy, “The Impact on Combustion, Performance and Emissions of CI Diesel Engine using Hydrogen as Dual Fuel operation-A Review ” in ‘International Journal of Emerging Technology and Advanced Engineering’ Volume 4, Issue 12, pp. 333-337, December 2014.
2. U.S.Jyothi & K.Vijaya Kumar Reddy, “Effect on performance and combustion characteristics of diesel engine enriched with hydrogen with varied piston bowl geometry” in the “International Journal of Mechanical Engg. & Technology” Volume 6, Issue 10, pp. 39-47, October 2015.
3. U.S.Jyothi & K.Vijaya Kumar Reddy, “Effect on Performance, Combustion and Emissions of Diesel Engine with varied Piston Bowl Geometry” in the “International Journal of Research in Mechanical Engineering” Volume 3, Issue 5, pp. 22-27, September-October 2015.

National Journal:

1. U.S.Jyothi & K.Vijaya Kumar Reddy, “Experimental study on Hydrogen enriched diesel engine with varied piston bowl geometry for emission reduction” in “Journal of Mechanical engineering (i-Manager’s)” Volume 6, Issue 1, pp. 8-15, November 2015-January 2016.

No of Conferences: 3

International Conferences:

2. U.S. Jyothi & K.Vijaya Kumar Reddy, “Effect of Re-entrant combustion chamber design on emissions of hydrogen enriched diesel engine” in Indian International Conference on Air quality Management (IICAQM-2016), IIT Chennai on 15th & 16th February 2016.
3. U.S. Jyothi & K.Viyaya Kumar Reddy, “Experimental Study on Performance, Combustion and Emissions of Diesel Engine with Re-entrant Combustion Chamber Design” in 5th International conference on Material Processing and characterization (ICMPC-2016), GRIET, Hyderabad on 12th & 13th February 2016.

4. U.S. Jyothi & K.Viyaya Kumar Reddy, “Experimental study on Emissions of Hydrogen enriched diesel engine with varied Combustion chamber geometry” in ASME Powerenergy-2016 conference, Charlotte, NC, USA on 26-30 June 2016

Dr. K. Satyanarayana

Associate Professor (ID-1171)

Qualification: Ph.D. (Mechanical Engineering) (NIT-Warangal, 2013),

M.Tech (Product Design and Development) (NIT-Warangal, 2009)

B.TECH (MECHANICAL ENGG –JNTUH-2007)

Experience : 3 years

Research interests : Machine Tools, Manufacturing and design

Journal Publications/ Conference Proceedings: 16

International Journals

1. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Analysis for Optimal Decisions on Turning Ti6Al4V with Taguchi-Grey Method”, ProcIMEchEPart C: Journal of Mechanical Engineering Science, Sage Publication. (**Impact factor 2012; 0.633**). vol 228, Nos 1, pp 152-157, 2014.DOI: 10.1177/0954406213480599 (**SCI Journal**)
2. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Online tool condition monitoring in turning Titanium (Grade 5) using Acoustic Emission: Modeling”, International Journal of Advanced Manufacturing Technology, ISSN No 0268-3768, Vol No: 67, pp 1947-1954, 2013 (**Impact factor 2012: 1.205**) DOI: 10.1007/s00170-012-4621-2. (**SCI Journal**)
3. **Satyanarayana Kosaraju** and Venu Gopal Anne, “Optimal Machining Conditions for Turning Ti-6Al-4V using Response Surface Methodology”, International Journal of Advances in manufacturing. Vol No: 1, pp 329-339, 2013.DOI: 10.1007/s40436-013-0047-9.
4. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Design Optimization of Machining Parameters for Turning Titanium Alloys with Taguchi-Grey Method”, International Journal of Machining and Machinability of Materials. Int. J. Machining and Machinability of Materials, Vol. 13, Nos. 2/3, pp 191-202, 2013. DOI: 10.1504/IJMMM.2013.053222
5. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Taguchi analysis on cutting forces and temperature in turning Titanium Ti-6Al-4V”, International Journal of Mechanical and Industrial Engineering (IJMIE), ISSN No. 2231–6477, Vol-1, Issue-4, pp 55-59, 2012.



6. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Investigations and Modeling of Machining Titanium Alloy – Ti-6Al-4V”, International Journal of Applied Mechanics and materials. Vols. 315, pp 562-566, 2013
7. Ramanujkumar, A K Sahoo and **Satyanarayana Kosaraju**, “Finite element simulation of forces and temperature in turning titanium alloy using DEFORM 3D”, International Journal of Mechanical Engineering and Research, ISSN No. 2249-0019, Vol-3, Issue-5, pp 330-334,2013.
8. Kumar, Ramanuj, Ashok Kumar Sahoo, **K. Satyanarayana**, and G. Venkateswara Rao. "Some studies on cutting force and temperature in machining Ti-6Al-4V alloy using regression analysis and ANOVA. International Journal of Industrial Engineering Computations. Vols 4, pp 427-436, 2013.
9. Sadasiva Rao T., **Satyanarayana K.**, Praneeth Y., Venu Gopal A, “Studies on The Effect of Approach Angle and Process Parameters in Face Milling”, International Journal of Applied Mechanics and materials. Vols.110-116, pp 3147-3155, 2012.

International Conferences

1. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Three-dimensional numerical simulation of cutting force in turning Ti-6Al-4V”, **COPEN8** International conference on Precision, Meso, Micro and Nano Engineering, December 13-15, 2013, NIT Calicut, Kerala (**Accepted for presentation and publication**)
2. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Finite Element Simulation of Cutting Forces in Turning Ti-6Al-4V using DEFORM 3D”, **ASME 2013** International Mechanical Engineering Congress & Exposition (IMECE2013), November 15-21, 2013, SAN DIEGO, CA, USA. pp. 1-7
3. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Studies on the Effect of Rake Angle on Main Cutting Force and Surface Roughness in Machining Ti-6Al-4V”, 2nd International conference on Advanced Manufacturing and Automation 2013 (**INCAMA 2013**), during 28-30th March 2013, Kalasalingam university, Tamil Nadu. pp. 565-568
4. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Experimental Investigations and Modeling of Machining Titanium Alloy – Ti-6Al-4V”, 3rd International Conference on Mechanical and Manufacturing Engineering 2012 (**ICME2012**), during 20th- 21st November 2012, Universiti Tun Hussein Onn Malaysia, Malaysia. pp. 155-159.
5. **Satyanarayana Kosaraju**, Venu Gopal Anne and Bangaru Babu Popuri, “Online Tool Wear Monitoring using Cutting Forces in Turning Ti-6Al-4V”, International Conference

on Trends in Industrial and Mechanical Engineering (**ICTIME 2012**), 24-25 March 2012, Dubai, organized by PSRC . pp. 147-150

6. **Satyanarayana Kosaraju**, Venu Gopal Anne and Venkateswara Rao Ghanta, “Effect of Rake Angle and Feed Rate on Cutting Forces in an Orthogonal Turning Process”, International Conference on Trends in Mechanical and Industrial Engineering(**ICTMIE 2011**), 23-24 December 2011, Bangkok, Thailand. pp. 150-15.
7. **Satyanarayana Kosaraju**, ManoharGoud K, Sadasiva Rao T, Venu Gopal A, “Online tool condition monitoring in face Milling operation using Acoustic Emission”, 3rd international and 24th **AIMTDR** conference, 13-15 December 2010, Andhra University, Visakhapatnam, India. pp .657-662.

Mr. K.PRASHANTH REDDY, (ID-1121)
Assistant Professor,

Qualifications: Pursuing Ph.D. (Mechanical Engineering)
(JNTU- Hyderabad, Registered in 2012),

M.Tech (Thermal Engg) (JNTU- Hyderabad, 2007)

B.Tech (Mechanical Engineering) (JNTU- Hyderabad, 2001)

Experience: 14 years

Research Interest: Heat Transfer, CFD

Journal Publications/Conference Proceedings: 06

International Journal publications:

1. Bhramara, Panitapu, T. K. K. Reddy, and **K. Prashanth Reddy**. "CFD Analysis of Desktop Heat Sink." *Journal of Enhanced Heat Transfer* **15.3 (2008),pp 261-272**. Published by Begell house Inc.(**impact factor 0.6**) 50 cross highway, Redding, CT 0689 USA.

International/National conference publications:

2. INTERNATIONAL CONFERENCE: Paper titled CFD ANALYSIS ON A 3D HEAT SINK published in the 19th national and 8th **ISHMT-ASME** Heat and Mass Conference held on January 3-5 2008 at JNTUCE KUKATPALLY HYDERABAD.
3. N.Sateesh, C.S.P. Rao, **K. Prashanth Reddy**, and R. Raman Goud, **Design of Cam-Follower Mechanisms Using Rational B-Splines, International Conference on Advanced Materials and Manufacturing Technologies (AMMT)**, JNTUH, Hyderabad, India, 18-20, December, 2014, pp. 184-192.
4. **K.Prashanth Reddy**, Bhramara Panitapu, G.Arun Reddy, "Investigation Of Cooling Rate Enhancement In Thermoplastic Injection Moulds With Different Core And Cavity Insert Cooling Channel Designs" .**1st International ISHMT-ASTFE Heat and Mass Transfer Conference, IHMTC2015, 17-20 December, 2015, ISRO, Thiruvananthapuram, India.**
5. **K. Prashanth Reddy**, Bhramara Panitapu"High Thermal Conductivity Mould Insert Materials For Cooling Time Reduction In Thermoplastic Injection Moulds .5th international conference on materials processing and characterization" (**ICMPC-2016**) ,**11-12th March 2016, Griet , Hyderabad**
6. **K. Prashanth Reddy, Bhramara Panitapu, Nano Fluids And Heat Transfer Enhancement A Review, National Conference On Recent Trends In Mechanical Engineering 28th-29th April 2016, JNTUCEH, KUKATPALLY, HYDERABAD.**



Mr. J.VENKATA SURESH,
Assistant Professor (ID-985)



Qualifications: Pursuing **Ph.D.** (Mechanical Engineering)
(JNTU- Hyderabad, Registered in 2012),

COMPLETED Pre PH.D AND coursework IN SEPTEMBER 2013.

M.Tech (ENERGY SYSTEMS) (JNTU- Hyderabad, 2005)

B.Tech (Mechanical Engineering) (NU - Guntur, 2002)

Experience: 10 years

Research Interest: Heat Transfer, CFD, Heat Pipes

Journal Publications/ Conference Proceedings: 02

National Conference:

1. Participated and presented a paper on “Evaluation of Hydraulic Loss Factors in a Hydro Generator Stator by using a CFD Package” in National conference on Advances in Mechanical Engineering (AIM-2005), at Vasavi College of Engineering, Hyderabad, May 13-14, 2005.
2. J.Venkata suresh, Dr.P.Bhramara., " CFD Analysis of Single turn Pulsating Heat pipe" National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2016), JNTUH.

International Conference:

1. A paper on “Experimental and CFD analysis of Hydrogenerator Ventilation Components” for the CIGRE Session - 2006 (International Council on Large Electrical Systems), at Paris, France, 27 August-01 September 2006.
2. J.Venkata suresh, Dr.P.Bhramara., Durga Bastakoti., "Numerical Analysis of Pulsating Heat Pipe for Heat Dissipation from PEM Fuel Cell Stack " International Conference on Environment and Energy (ICEE – 2014), JNTUH.
3. J.Venkata suresh, Dr.P.Bhramara., " CFD Analysis of Multi turn Pulsating Heat pipe " International conference on Materials processing and Characterization (ICMPC – 2016), GRIET, Hyderabad.

Mrs. A.ANITHA LAKSHMI,
Assistant Professor. (ID-944)



Qualifications: Pursuing **Ph.D.**
Mechanical Engineering, Andhra University,
Registered in 2014

M.Tech: CAD/CAM, Andhra University, 2007

B.Tech: Mechanical Engineering, JNTUH – 2004

Experience: 07 years

Research Interest: Processing of materials

Journal Publications/ Conference Proceedings: 02

International Journal:

Accepted:

A.Anitha Lakshmi “KBE Approach Towards design Automation of Francis Turbine Spiral Casing” published in proceedings of ICMPC-2013 International Journal of Advanced Material Manufacturing and Characterization” ISSN 2277-3886 volume 3, Issue 1 march 2013.

Communicated:

Swadesh Kumar Singh, Ph.D.; Ch. Srinivasu, M. Tech.; J. Gangadhar, M. Tech.; A.Anitha Lakshmi, M. Tech.; Ch. Srinivasa Rao, Ph.D.; A K Gupta, Ph.D. Developments in Processing Maps

Mr. D.ESWARAIAH

Assistant professor (ID-817)

Qualifications: **M.Tech** (Thermal Engineering) (JNTU- Hyderabad, 2010)

B.Tech (Mechanical Engineering) (ANU-Guntur-2007).

Experience: 6 years

Research Interest: Heat Transfer, CFD

Journal Publications/ Conference Proceedings: 01

Journal publications:

1. **INTERNATIONAL JOURNAL:** Paper titled NUMERICAL INVESTIGATION ON AUGMENTATION OF HEAT TRANSFER IN OIL COOLERS in INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH AND TECHNOLOGY (ISSN: 2278-0181) Volume1 issue7 (September-2012).
3. **INTERNATIONAL PUBLICATIONS:** Paper titled NUMERICAL INVESTIGATION ON AUGMENTATION OF HEAT TRANSFER IN OIL COOLERS in INTERNATIONAL CONFERENCE MATERIALS PROCESSING AND CHARACTERIZATION 2012.



Mr.K.RATNA BABU

Asst Professor (ID-1095)

Qualification: **M.Tech** (ADVANCED MANUFACTURING SYSTEMS)

(JNTU-Hyderabad, 2010)

B.Tech (Mechanical Engineering) (JNTU Hyderabad-2005)

Experience: 5 years

Research Interest: Machine Design,FEM

Journal Publications/Conference proceedings:01

National conference:

1. Evaluation Of Salt Bath Nitrided Austenitic Stainless Steel Specimens At Low Temperature (MAR 2015) , NATIONAL CONFERENCE ON FAST EMERGING ENGINEERING AND TECHNOLOGY, at BIET ,,HYDERBAD.



Mrs. TANYA BUDDI, Assistant Professor of **MECH Dept.** (ID-947)

Qualifications: Pursuing **Ph.D.**

Mechanical Engineering, KL University, Registered in 2014

M.Tech: Machine Design, JNTUK, 2012

B.Tech: Mechanical Engineering, JNTUK - 2009

Experience: 04 years

Research Interest: Wood based bio composites

Journal Publications/ Conference Proceedings: 02



International Journal:

1. “A numerical study on frequency response of a micro cantilever with a nano indenter”
International Journal of Nanotechnology and Applications (IJNA) Volume 5, Number 2, pp.139-149, 2011.

International Conference:

1. “A Review of Adhesives in the Manufacturing of Biocomposites used in Construction”
International Conference PFAM XXIII organized during 5-7 Dec 2014 at IIT Roorkee.

Mr. K.SIVA SATYA MOHAN,

Assistant professor (ID-1091)



Qualifications : Pursuing

Ph.D (Mechanical Engineering) (AU- VISAKHAPATNAM, Registered in 2010),

M.Tech (ENERGY SYSTEMS) (JNTU- Hyderabad, 2005)

B.Tech (Production Engineering) (ANU- Guntur,2002)

Experience: 12 years

Research Interest: Heat Transfer, CFD

Journal Publications/ Conference Proceedings: 03 /07

Journal publications:

1. INTERNATIONAL JOURNAL: Paper titled “**An Experimental Investigation On Diesel Engine With Palestrina-Diesel Blends At Different Injection Pressures**” in International Journal of Engineering Research and Technology, volume2, issue 4, april2003.
2. INTERNATIONAL JOURNAL: Paper titled “**Periodic simulation Heat Transfer using CFD**” Published in International Journal of Engineering Research and Technology, Vol. 2 Issue 12, December – 2013.
3. INTERNATIONAL JOURNAL: Paper titled “**Analysis of Comparison of Fluid Jet Impingement Heat Transfer on flat plate using CFD**”, Published in International Journal of Thermal Energy and Applications, Volume 1, issue1, August 2015

International Conferences:

1. Presented a research paper titled “**Comparative analysis of rectangular jet impingement heat transfer on flat plate using CFD**” in International conference on Material Processing and Applications(ICMPC 2016) conducted from 15-16, March 2016 at Gokaraju Rangaraju Institute of Engineering and Technology, India.
2. Presented a research paper titled “**ANALYSIS OF RECTANGULAR JET IMPINGEMENT HEAT TRANSFER ON FLAT PLATE USING CFD**” in International conference on Manufacturing and Thermal Engineering (ICOMATE'16) conducted from 08-09, Feb 2016 at Maruthanious College of Engineering, Kothamangalam, Kerala, India.

National Conferences:

- 1. Paper titled “ An Experimental Investigation On Diesel Engine With Palmstearin-Diesel Blends At Different Injection Pressures”** presented in National Conference in GITAM UNIVERSITY,Hyderabad.
- 2. Paper titled “PERFORMANCE EVALUATION OF OSCILLATING COMBUSTION IN FUEL FIRED FURNACE”** Proceedings of National Conference on Advances in Mechanical Engineering, NCAME 2014, 24-25 Jan'2014
ISBN-13/978-81-923800-0-1
- 3. Paper titled “Analysis of Jet Impingement Heat Transfer Using CFD”** Proceedings of National Conference by Industry Institute Interaction under TEQIP-II conducting by Cambridge Institute of Technology, Mechanical Engineering, Ranchi, Jharkhand from July 10-11,2015
- 4. National Conference attended and presented at Technological advancements in Mechanical Engineering (TAME-16) Conducted by Department of Mechanical Engineering at JNTU Kakinada from July 22-23,2016 on the topic ” Comparative Analysis of Jet Impingement Heat Transfer on Flat plate using CFD”**
- 5. National Conference attended and presented at Technological advancements in Mechanical Engineering (TAME-16) Conducted by Department of Mechanical Engineering at JNTU Kakinada from July 22-23,2016 on the topic ” Effect of Shape of Cut in Twisted Tape Turbulators on Enhancement of Heat Transfer Characteristics”**

Mrs. SANDURU BHANUTEJA,
Assistant Professor (ID-1180)

Qualifications:

M.Tech: THERMAL ENGINEERING, JNTUK, 2014

B.Tech: Mechanical Engineering, GMRIT, Rajam – 2011

Experience: 04 years

Research Interest: Vortex technology, Heat transfer characteristics

Journal Publications/ Conference Proceedings: 02

International Journals:

1. “Thermal Performance and Flow analysis of nanofluids in a Shell and Tube Heat Exchanger published in *IJMET* Volume 4- Issue 5 September-October 2013.
2. Effect of Pressure drop on Performance of a Shell and Tube Heat Exchanger using nanofluids published in *IJRSAT* Volume 3- Issue 1 Jan-Feb 2014.



B. Krishna Mohan, Assistant Professor (ID:1244)

Qualification:

B.E: Mechanical Engineering, Kuvempu University, Karnataka (2000)

M. Tech: CAD/CAM, JNTUK, (2012)

Experience: 11 years

Research Interest: Finite Element Methods, CAE, Metal Forming

International Conference: 1

i. Krishna Mohan, B., Dharma Raju, T., Jayanand Kumar, T., "Determination of Stress Intensity Factors in Weld using FEM", Proc. Of RITS-ICAEM conference, 102(2012)



Mr.PAGIDIPALLI PRAVEEN

Assistant professor (ID-1351)

Qualification: M.Tech (ADVANCED MANUFACTURING SYSTEMS)
(JNTU-Hyderabad, 2014)

B.Tech (Mechanical Engineering) (JNTU Hyderabad-2011)

Experience: 2+ years

Research Interest: Manufacturing.

Journal Publications/Conference proceedings: 01.

International journal published:

1) International Journal paper Titled "GEOMETRICAL OPTIMIZATION AND EVALUATION OF ALLOY WHEEL FOR FOUR WHEELER".



Mr. S. SRAVAN SASHANK,
Assistant Professor (ID-1235)



Qualifications

M.Tech (Manufacturing Engineering & Technology) (Manipal University, Manipal, 2013)

B.Tech (Mechanical Engineering) (JNTU- Hyderabad, 2011)

Experience: 2 years

Research: Developed a wire winding machine that is used for manufacturing Brush Seals. Brush Seals are further used in Steam Turbines.

Research Interest: Manufacturing, Product Development

Journal Publications/ Conference Proceedings: NIL

Mr. M.PRABHU TEJA,
Assistant Professor (ID-1342)



Qualifications:

M.Tech: Machine Design, JNTUH, 2014

B.Tech: Mechanical Engineering, ANU – 2010

Experience: 2 years

Research Interest: Material Sciences, Design Engineering

Journal Publications/ Conference Proceedings: 01

International Journal:

1. Modelling studies on Al-Mg-Si Alloy – Computational Solid Mechanics Approach , IJSER Volume 5 Issue 9 September 2014 Edition.

Mr. J.PAVANU SAI,

Assistant professor (ID-1343)

Qualifications :

B.Tech (Mechanical), Prasad.V.Potluri Siddhartha institute of technology (Autonomous)-JNTUK University (2012),

M.Tech (Thermal Engineering) Aditya Institute of Technology and Management, Tekkali (JNTUK Affiliated) (Autonomous) (2014).



Experience: 3 years

Research Interest: Thermal Analysis of Composite materials.

Journal Publications/Conference Proceedings:1

Journal Publications

International Publications:

1. J. Pavanu Sai, A. Srinivasa Rao, Dr. N. Hari Babu, "**Experimental Investigation of Effect of Aluminum Filler Material on Thermal Properties of Palmyra Fiber Reinforced Composite**" Vol. 4 - Issue 12 (December - 2014), International Journal of Engineering Research and Applications (IJERA) , ISSN: 2248-9622 , www.ijera.com

Mr. D .SURESH KUMAR,

Assistant Professor (ID-1383)

Qualifications:

B.Tech (Mechanical), JNTU college of Engineering, Pulivendula-JNTUA University (2012),

M.Tech (Machine Design) Mallareddy College of Engineering & Technology, Hyderabad (JNTUH Affiliated) (2014).

Experience: 2 Years.

Research Interest: CAD/CAM, Machine Design, Robotics Technology.

Journal Publications/Conference Proceedings: 01

1. D. Suresh Kumar, "**A study on strength and failure modes of modern resistance spot welding joint**" ,National conference on "Innovations in Mechanical Engineering" organized by Department of Mechanical Engineering , MITS (UGC-Autonomous), madanapalle during 23rd & 24th December



Miss K. Ramya sree , Assistant Professor **of MECH Dept.** (ID-1402)

Qualifications: M.Tech., JNTUH , in Mechanical Engineering 2016

M.Tech:Design for manufacturing ,JNTUH ,2016



B.Tech: Mechanical Engineering, JNTUH – 2012

Experience: 01 years

Research Interest: Machinability studies

Journal Publications/ Conference Proceedings: 02

International Journal:

1. RAMYASREE KEERTHI , ANITHA LAKSHMI AKKIREDDY “TO INVESTIGATE THE EFFECT OF PROCESS PARAMETERS ON SURFACE ROUGHNESS OF AISI1045 STEEL IN DRY MACHINING WITH CBN CUTTING TOOL USING ANOVA”. International Journal of Engineering Trends and Technology (IJETT) – Volume 25 Issue 1 JULY 2015

National Conference:

1. C RAJ SHEKAR , N SATEESH ,K RAMYASREE , M SREEKANTH “A Design System for Complex Profiles of Machine Members using a Synthetic curve” National conference on recent innovations in mechanical and manufacturing engineering with ISBN 978-93-85100-45-1