

CURRICULUM VITAE



Dr. Y.Rameswara Reddy

Assistant Professor

**Department of Mechanical Engineering
JNTUACE Pulivendula-516390, AP, India**

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EDUCATIONAL QUALIFICATIONS

Examination	University	Year
Ph.D	JNTUA, Ananthapuramu	2019
Post Graduation M.Tech <i>Specialization: (Advance Manufacturing Systems)</i>	JNTU, Hyderabad	2005
Graduation- B.Tech	SVU Tirupati	2002

***Doctor of Philosophy (Ph.D)** in Mechanical Engineering from JNTUA, Ananthapuramu, with the thesis title: **“Optimization of Process Parameters in Wire-Electrical Discharge machining of SUPERNI-718 by using TOPSIS with SVNS”**

WORK EXPERIENCE

Organization	Designation	Period
JNTUA college Of Engineering (Autonomous) Pulivendula, Y.S.R.Kadapa Dist-516390,A.P	Assistant Professor	28-02-2011-Till date

RESEARCH AREAS OF INTEREST

- ❖ Machining and Advanced Machining processes.
- ❖ Additive Manufacturing.
- ❖ Metal-Matrix Composites.
- ❖ CAD/CAM/CIM, Optimization Techniques, CNC Technologies

RESEARCH PUBLICATIONS

Journal publications

Y.Rameswara Reddy, Ramasekhar “New Trend of Automobile Aspects on MHD of Hybrid Nano fluid flow over A porous stretching cylinder: A numerical study”, East European Journal of Physics, Volume 2-PP 249-255, June-2024, DOI: 10.26565/2312-4334-2024-2-24, ISSN: 2312-4334, Scopus.

Y.Rameswara Reddy, Srinivasan “Activation energy and Hall current effects of Magnetohydrodynamic 3D flow of Non-Newtonian Hybrid Nanofluid over a Stretched plate”, Journal of Advanced Research in Numerical Heat Transfer, Issue 1(2024)- PP 36-52, May-2024,DOI: <https://doi.org/10.37934/arnht.20.1.3652>, ISSN: 2735- 0142, Scopus.

Y.Rameswara Reddy, R.Raveendra Nath “Parametric analysis on parallel flash cogeneration cycle for enhancing heat source utilization ”, International Journal of Sustainable Energy, Volume 43 PP 1-15, Feb-2024, DOI: <https://doi.org/10.1080/14786451.2024.2310015>, ISSN: 2735- 0142, Taylor & Francis.

Y.Rameswara Reddy, Srinivasan “Three-dimensional MHD mixed Convention upper Convective Flow of Maxwell fluid throughout the past in thermophoresis and Brownian motion with the Effects of Diffusion thermo and Thermal Diffusion utilizing nonlinear radiative heat flux”, CFD Letters 16, Issue 5(2024) - PP 135-153, January-2024,DOI: <https://doi.org/10.37934/cfdl.16.5.135153>, ISSN: 2180- 1363, Scopus.

Y.Rameswara Reddy, Usman “Fabrication of Sand and Waste Plastic Composite Base Tiles”, Applied Mechanics and Materials, Volume 96-PP 35-42 12, Sep-2023. ISSN: 1662-7482, Scopus.

Y.Rameswara Reddy, K. Appala Naidu, P.V.Sanjeev Kumar “Investigation on the Mechanical Characteristics of Bio-Composites Derived from Jute, Palm fibers and Seashell Powder, Special Volume 12- Issue 06, April-2023. ISSN: 2063-5346, Scopus.

Y.Rameswara Reddy , P.Muni pavan kumar reddy, S. Rajendra Prasad “ Experimental Investigation of Machining Parameter for AJM usining Nimonic alloy75” " Published in IJTIMES, Volume 04- Issue 08, August-2018. e-ISSN : 2455 - 2585 , UGC Approved, Impact Factor: 5.22.

Y.Rameswara Reddy , Dr.B.Chandra Mohan Reedy " Optimization of WEDM Parameters for SUPER Ni-718 Using GRA with Neutrosophic Sets " Published in International Journal of Applied Engineering Research , Volume 13 Issue Number(12) June-2018 pp 10924-109430. e-ISSN : 0973 – 4562, UGC Approved, Impact Factor: 0.14.

Y.Rameswara Reddy , Dr.B.Chandra Mohan Reedy " Experimental investigations on MRR, Surface Roughness and Dimensional Deviation of SuperNI-718 alloy steel in Wire-EDM using Taguchi Method " Published in IJREAM , Volume 04- Issue-03 June-2018 pp 354-359. e-ISSN : 1943- 023X , UGC Approved, Impact Factor: 5.646

Y.Rameswara Reddy , Dr. B.Chandra Mohan Reedy " Experimental investigation and Multi objective optimization for Wire EDM using TOPSIS and SVNS method" Published in International Journal of Advance Research in Dynamical & Control systems , Volume 10-06 Special Issue May-2018 pp 29-38. e-ISSN : 1943- 023X, , UGC Approved, Impact Factor: 0.22.

International Conferences

C1. Y.Rameswara Reddy “Preparation and comparison mechanical properties of composite laminates by varying groundnut husk and sea shell powder contents,” in two day International Conference on Emerging Research in Science, Engineering & Management 19&20-05-2025, Sai Rajeswari Institute of Technology, Lingapuram, Proddatur.

C2. Y.Rameswara Reddy “Fabrication of Sand and Waste Plastic Composite Base Tile.,” in 2nd International Conference on Mechanical Engineering and Emerging Technologies (ICMEET-2023), March 3-4, Bapatla Engineering College, Bapatla, Guntur, Andhra Pradesh

C3. Y.Rameswara Reddy and K.Pavan Kumar Reddy “Experimental Investigation on Quality characteristics in a Turning process of EN8 Medium carbon Steel and Optimized using Particle Swarm Optimization,” in two day International Conference on Recent Advances in Mechanical Engineering (ICRAME-2021) 26&27-03-2021, PVPSIT, Vijayawada.

C4. Y.Rameswara Reddy and K.Pavan Kumar Reddy “Optimization of single point Incremental Forming process for AA 6061 Alloy on 3D printed fixture Using Genetic Algorithm,” in two day National Conference on Recent Advances in Technology & Engineering (CRATE-2020) August-2020, Vemu Institute of Technology, Chittoor (Dt) AP.

C5. K.Chaitanya Kumar and **Y.Rameswara Reddy** “Analysis and Machining Parametric Optimization of Hot Air Abrasive Jet Machining on PMMA by Help of Taguchi Method & MCDM-Topsis,” International Conference on Science Engineering And Technology (ICSET -2019) September-2019, Pallavi Engineering College, Nagole, Hyderabad.

C6. Y.Rameswara Reddy and Dr.B.Chandra Mohan Reedy “Optimization of WEDM parameters for SUPERNI-718 using Neutrosophic sets and TOPSIS method,” 1st International Conference on Innovations in Mechanical Engineering (ICIME-2018) January -2018, GNIT, Hyderabad.

C7. T.Venkata Nagendra Kumar and **Y.Rameswara Reddy** “Design of 20-30 MW Radial Inflow Steam Turbine for Power generation,” 5th International Conference on Science, Technology & Management (ICSTM-2017) December-2017, Hyderabad.

C8. Y.Rameswara Reddy and Dr.B.Chandra Mohan Reedy “Optimization of Surface Roughness MRR Turning operation using Extended Taguchi method,” National Conference (NCETMESD-14) RGMCE, Nandyal, 22 March 2014.

C9. Y.Rameswara Reddy and Dr.B.Chandra Mohan Reedy “Prediction and Analysis of Surface Roughness of An Aluminium Alloy Materials Using ANN in CNC Turning,” National Conference (NCIME-13) MITS, Madanpalle, 21-22 June 2013

BOOKS PUBLISHED

1. Y. Rameswara Reddy,(2023), “Modern Manufacturing Process for Nimonic material” Scholars’ press Publisher -ISBN-978-620-5-52177-9.
2. Y. Rameswara Reddy,(2023), “Unconventional machining process using advanced optimization technique” Lambert Academic Publishing -ISBN-978-620-6-15026-8.
3. Y. Rameswara Reddy,(2023), “Computer Aided Drafting Laboratory Manual” Writers Row Publications -ISBN-978-939-5-58355-8.
4. Y. Rameswara Reddy,(2023), “Hot Air Abrasive Jet Machining for PMMA” Scholars’ press Publisher -ISBN-978-620-6-77021-3.
5. Y. Rameswara Reddy,(2023), “Un Conventional Machining Process for Superni-718 with advance Optimization Techniques” Writers Row Publications -ISBN-978-939-5-58372-5.

ADMINISTRATIVE EXPERIENCE/ INSTITUTE SUPPORT WORK

S. No	Designation	Duration/Period
1.	Officer In-charge of Hostels	23-02-2022 to 21-06-2024
2.	Officer In-charge of Transportation	18-01-2021 to Till date
3.	Officer In-charge of Physical Education	15-04-2019 to February-2022
4.	NSS PO Unit-1	02-08-2018 to January,2021
5.	Officer In-charge of Hostels	13-07-2016 to August,2018
6.	Officer In-charge of Transportation	01-04-2011 to July,2016
7.	Deputy Warden	18-01-2014 to July,2016
8.	Officer In-charge of Academic Section	13-04-2011 to January,2014
9.	FM&HM,MSE,MOS-Laboratory In charge	01-04-2011 to Till date

MEMBERSHIPS IN THE PROFESSIONAL BODIES

- ❖ Life Member of IA ENG International Association of Engineers.

WORKSHOPS/TRAINING PROGRAMS/ LECTURES ORGANIZED/COORDINATED

1. Five Day Online Faculty Development Programme sponsored by AICTE Training and Learning (ATAL) Academy on “Renewable Energy For Industrial & Domestic Applications” Organized from 6th to 10th September 2021.

RESEARCH GUIDANCE

- ❖ Ph. D guidance: Ongoing : 03
- ❖ Awarded about 16 M. Tech. Projects.
- ❖ Awarded more than 14 B.Tech projects

REFRESHER / SHORT TERM COURSES ATTENDED : 04

WORKSHOPS / TRAINING PROGRAMMES ATTENDED : 18

TEACHING EXPERIENCE

For nearly 14 years, I have taught a variety of courses at graduate and undergraduate levels. These courses are listed below :

SUBJECTS TAUGHT:

At U.G. Level

- CAD/CAM
- MMM
- KOM
- Automation & Robotics
- Automobile Engineering
- Product Design
- DOM

At P.G. Level

- CIM
- CNC Technology & Programming
- Rapid Prototyping
- Robotics
- AMM

Date: 10-07-2024

Place : Pulivendula



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