

BIO-DATA

ASSOCIATE PROFESSOR

Department of **Mechanical Engineering**,
Sagi Rama Krishnam Raju Engineering College
Bhimavaram-534204
Andhra Pradesh, India



1. Name : Dr. CH. RAMA BHADRI RAJU
2. Date of Birth, Age and Place of Birth: : 14-12-1986, 35 years
3. Address for Communication : 7-175/2, Youth club road, China Amiram – 534204
4. Permanent Address : 7-175/2, Youth club road, China Amiram – 534204
5. Mobile No : +91 9885992223, +91 9948256789
6. Email-ID : bhadri.mech@gmail.com, bhadri.mech@srkrec.ac.in
7. Educational Qualifications

| Qualification | University/Board | Name of the College | Specialization | Year of Passing |
|---------------|-------------------------------------|--|------------------------|-----------------|
| X Class | SSC | Viswakavi Public School | ----- | 2002 |
| Intermediate | Board of Intermediate Education, AP | Sri Chaitanya Junior College | M.P.C | 2004 |
| UG (B.E.) | Andhra University | S.R.K.R. Engineering College, Bhimavaram | Mechanical Engineering | 2008 |
| PG (M.E.) | Andhra University | S.R.K.R. Engineering College, Bhimavaram | CAD/CAM | 2012 |
| Ph.D. | KL UNIVERSITY | KL Deemed to be University | MACHINING | 2019 |

8. Project/Thesis:

Ph.D.: Experimental Investigation, Modeling & Optimization of EDM Process for Machining of Nimonic C-263 Super Alloy.

PG: Effect of Sic and Graphite Reinforced Particulates on Mechanical Properties of Aluminium MMC's.

9. Teaching /Industry Experience:

| S No | Designation | Organization | Period | | Total Exp. Years and Months | Nature of Employment | Type of service Govt. Aided/ Un Aided/ Private/ recognized |
|------|---------------------|--|----------------------------|----------------------------|-----------------------------|----------------------|--|
| | | | From | To | | | |
| 1 | Assistant Professor | S.R.K.R. Engineering College, Bhimavaram | Sep 1 st , 2009 | Jan 2 nd , 2022 | 12 Years 4 Months | Full Time | Private |
| 2 | Associate Professor | S.R.K.R. Engineering College, Bhimavaram | Jan 3 rd , 2022 | Till date | 3 Months | Full Time | Private |

10. Total Experience:

Teaching: 12 Years 6 Months

Research: 8 Years

11. Any other Distinctions/Achievements:

Number of M.Tech. Projects Guided: 06

Number of Ph.D. Scholars Guiding: 03

12. Research Experience:

(a) Research Papers Published in Journals

| S No | Author (s) Name | Title of the Research Paper | National/ International | Year of Publication | Name of the Journal | Vol. | Issue No | Pages (PP) |
|------|--|--|-------------------------------------|---------------------|--|------|----------|------------|
| 1 | G. S. V. S Kumar, A. Kumar, S. Rajesh, Rama Bhadri Raju Chekuri , K. Rama Kotaiah | An Experimental Study and parameter Optimization of FSW for Welding Dissimilar 6061 and 7075 Al Alloys | International (SCOPUS) | 2022 | T International Journal on Interactive Design and Manufacturing (Springer) | N/A | N/A | N/A |
| 2 | Ravi Varma P, Tarun Kumar K, R. S. S Varma, Rama Bhadri Raju Chekuri , K. Sunil Kumar | Experimental Investigation towards realizing the optimum performance Control Parameters in Wire Cut EDM by Taguchi and ANOVA | International (SCOPUS) | 2021 | ECS Transactions (IOP Science) | N/A | N/A | N/A |
| 3 | Rama Bhadri Raju Chekuri , Tarun Kumar K, D. Eshwar, R Srikanth Varma | Experimental and Thermal Investigation on Die-sinking EDM using FEM and Multi-objective Optimization using WOA-CS | International (SCI+ SCOPUS) IF=5.3 | 2021 | Sustainable Energy Technologies and Assessments (Elsevier Publications) | 50 | 1 | 1-14 |
| 4 | Tarun Kumar K, Rama Bhadri Raju Chekuri , B. N Raju, Prasada Raju K, S. Balakumar | Analysis on Emissions and Performance of Ceramic Coated Diesel Engine Fueled with Novel Blends Using Artificial Intelligence | International (SCI + SCOPUS) IF=1.7 | 2021 | Advances in Materials Science and Engineering (Hindawi Publications) | 2021 | 1 | 1-13 |

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|----|--|--|---|------|--|------|-----|---------------|
| 5 | G. S. V. S Kumar, A. Kumar, S. Rajesh, Rama Bhadri Raju Chekuri, S. Venkatesa Prabhu | Experimental and Thermal Investigation with Optimization on Friction Stir Welding of Nylon 6A using Taguchi & Microstructural Analysis | International (SCI + SCOPUS) IF=1.3 | 2021 | Advances in Mechanical Engineering (SAGE Publications) | 2021 | 1 | 1-14 |
| 6 | G. S. V. S Kumar, A. Kumar, S. Rajesh, Rama Bhadri Raju Chekuri, S. V. Prabhu | Experimental Investigation and Optimization on Friction Stir Welding of Nylon 6A Using Taguchi and ANOVA with Microstructural Analysis | International (SCI + SCOPUS) IF=1.7 | 2021 | Advances in Materials Science and Engineering (Hindawi Publications) | 2021 | 1 | 1-12 |
| 7 | G. S. V. S Kumar, A. Kumar, S. Rajesh, Rama Bhadri Raju Chekuri, K. Rama Kotaiah | Artificial Neural Networks for Optimization of FSW Process Parameters for Welding Dissimilar 6061 and 7075 Al Alloys | International (SCOPUS + ESCI) | 2021 | Int. J. Nonlinear Anal. Applications. | 13 | 1 | 1011- 1022 |
| 8 | K. Siddartha Varma, U.R. P.Varma, Rama Bhadri Raju Chekuri, Tarun Kumar K, Rajesh Mudunuri | Experimental Investigation and Optimization of Surface Grinding on EN31AM Steel using Taguchi and ANN | International (Scopus) | 2021 | Materials Today Proceedings (Elsevier Publications) | N/A | N/A | N/A |
| 9 | Sasidhar.G, Ch. Rama Bhadri Raju, Ravi Varma P | Experimental Investigation and Optimization of Turning Process of EN8 Steel using Taguchi L9 Orthogonal Array | International (Scopus) | 2021 | Materials Today Proceedings (Elsevier Publications) | N/A | N/A | N/A |
| 10 | Pavan K. Konchada, B Sukhvinder, Siddhardha R, Rama Bhadri Raju Chekuri | Neuro-Genetic Optimization of Ribbed Heat Exchanger Using Entropy Augmentation Generation Number | International (Scopus) IF=0.53 | 2020 | Archives of Thermo Dynamics (Polish Academy of Sciences) | 41 | 2 | 169-184 |
| 11 | K. Pavan Kumar, R. Siddhardha, Ch. Rama Bhadri Raju, K. Sudheer Kumar | Response Surface Based Optimization of Ribbed Isosceles Triangular Twisted Tape Heat Exchanger Using Entropy Augmentation Generation Number with Al ₂ O ₃ Nano Working Fluid | International (Scopus + ESCI) IF=1.3 | 2019 | Journal of Thermal Engineering (Yildiz Technical University) | 5 | 3 | 210-221 |
| 12 | K. Dayakar, K. V M K Raju, Ch. Rama Bhadri Raju | Prediction and Optimization of Surface roughness and MRR In Wire EDM of Maraging Steel 350 | International (Scopus) | 2019 | Materials Today Proceedings (Elsevier Publications) | 18 | 6 | 2123- 2131 |
| 13 | S. Madhavarao, Ravi Varma P, GSV S Kumar, Ch. Rama Bhadri Raju, K. Tarun Kumar | Investigation on Mechanical Properties of Friction Stir Welded Aa7075 & Aa6061 Joints | International (Scopus) | 2019 | Materials Today Proceedings (Elsevier Publications) | 18 | 7 | 2288- 2297 |

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|----|--|---|------------------------|------|---|------|----|-------------|
| 14 | M. I. Reddy, Ranjeet Kumar S, M. Anil Kumar, Ch. Rama Bhadri Raju | Study on Mechanical Properties of Jute/Pineapple Leaf Fiber Reinforced Polymer (FRP) Composite | International (Scopus) | 2019 | AIP Conference Proceedings | 2142 | 1 | 700301-05 |
| 15 | Rama Bhadri Raju Chekuri , Ramakotaiah K, Rajesh. S, Jamaleswara Kumar. P | Modelling and optimization of Machining High Performance Nickel Based Super Alloy Nimonic C-263 Using Die Sinking EDM | International (Scopus) | 2019 | International Journal of Mechanical Engineering and Robotics Research | 8 | 2 | 196-201 |
| 16 | Rama Bhadri Raju Chekuri , Ramakotaiah K, Rajesh. S, Jamaleswara Kumar P | Prediction and optimization of Process Parameters in Die Sinking EDM of Nimonic C 263 Super Alloy Using: Artificial Neural Networks | International (Scopus) | 2018 | International Journal of Mechanical and Production Engineering Research and Development | 2018 | | 53-60 |
| 17 | M. Indra Reddy, M. Anil Kumar, Ch. Rama Bhadri Raju | Tensile and Flexural Properties of Jute, Pineapple Leaf And Glass Fiber Reinforced Polymer Matrix Hybrid Composites | International (Scopus) | 2018 | Materials Today Proceedings (Elsevier Publications) | 5 | 1 | 458-462 |
| 18 | Rama Bhadri Raju Chekuri , Ramakotaiah K, Rajesh Siriyala, P. J.Kumar | A Study on Die Sinking EDM of Nimonic C-263 Super Alloy: An Intelligent Approach to Predict the Process Parameters Using ANN | International (Scopus) | 2018 | International Journal of Engineering and Technology | 7 | 1 | 651-654 |
| 19 | S.Madhava Rao, Ch. Rama Bhadri Raju , J Madhukiran, N Sudheer kumar Varma, P Ravi Varma | A Study of Tribological Behaviour of Aluminum -7075/Sic Metal Matrix Composite | International (Scopus) | 2018 | Materials Today Proceedings (Elsevier Publications) | 5 | 9 | 20013-20022 |
| 20 | S Madhava Rao, Ch. Rama Bhadri Raju , G S V Seshu kumar | Investigation of Friction Stir Welding of Metal Matrix Composites Using Coated Tool | International (Scopus) | 2018 | Materials Today Proceedings (Elsevier Publications) | 5 | 2 | 7735-7742 |
| 21 | Rama Bhadri Raju Chekuri , Ramakotaiah K, Rajesh Siriyala, Jamaleswara Kumar P | A Study on Die Sinking EDM Of Nimonic C-263 Super Alloy: Modelling and Optimization | International (Scopus) | 2017 | Journal of Advanced Research in Dynamical and Control Systems | 9 | 17 | 2120-2130 |
| 22 | K R. Sreedhar Ch. Rama Bhadri Raju , V. Kathyayani | Extracting of Density and Compression Strength Values of an Al-Wc MMC Produced by Sintering Furnace | International | 2017 | IJSDR | 2 | 5 | 2455-2631 |

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| 23 | S. Madhavarao, G.S.V. Seshu Kumar, Ch. Rama Bhadri Raju, M. Anil Kumar | Investigation of Thermal Analysis of Composite Slabs | International | 2016 | International Journal of Current Research (IJCR) | 8 | 9 | 38780- 38784 |
| 24 | S. Madhavarao, Ch. Rama Bhadri Raju, M. Satish Raja, M. Anil Kumar | Modeling and Simulation of Steam Generator by Using CFD Analysis | International | 2016 | International Journal of Innovative Research in Science, Engg & Technology | 5 | 8 | 15024 - 15030 |
| 25 | S. Madhavarao, Ch. Rama Bhadri Raju, P. Ravi Varma, M. Anil Kumar | Design and Fabrication of Automatic Ground Clearance Adjustment System | International | 2016 | Int. J. on Recent and Innovation Trends in Computing & Communicatio n | 4 | 7 | 156-159 |

(b) Research Papers Published in Conferences

| S No | Author (s) Name | Title of the Research Paper | International / National | Year of Publication | Name of the Conference | Pages (PP) |
|------|---|--|-----------------------------|------------------------|---|---------------|
| 1 | G. Sasidhar, Rama Bhadri Raju Chekuri, Ravi Varma Penmetsa | Experimental investigation and optimization of turning process of EN8 steel using Taguchi L9 orthogonal array | International | 2022 | International Conference on Artificial Intelligence and Energy Systems | - |
| 2 | Sasidhar G, Vinod Babu Ch, Rama Bhadri Raju Chekuri | Comparative Experimental Investigation on Mechanical Properties of Fabricated Aluminium 5000 Series Using Finite Element And Artificial Intelligence Methods | International | 2022 | 1 st International Virtual Conference on “Advances in Automobile, Manufacturing and Mechanical Engineering” | 30 |
| 3 | M S S Kiran Varma, Rama Bhadri Raju Chekuri, Tarun Kumar K, Hema T. Raju G, B. Durga Prasad | "Machining Parameter Optimization for Face Milling Operating in A Vertical CNC Milling Machine using Taguchi Design Approach | International | 2021 | 4th International Congress on Advances in Mechanical Sciences | - |
| 4 | S. Madhavarao, Ravi Varma P, Ch. Rama Bhadri Raju, Hema T. Raju G | Optimization of Process Variables in Abrasive Water Jet Machining of Nimonic C-263 Super Alloy Using Taguchi Method | International | 2021 | Proceedings of Fourth International Conference on Inventive Material Science Applications | 167-177 |

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|----|---|--|---------------|------|---|-----------|
| 5 | Ravi Varma Penmetsa, S. Madhavarao, Ch. Rama Bhadri Raju , G. S. V. Seshu Kumar | A Study of Tribological Behaviour of AL2014, AL2024 and AL7075 Alloys | International | 2019 | Int Conference on latest Innovations in Materials Engineering & Technology (Springer) | 123-137 |
| 6 | V Narendra Varma, K Sita Rama Raju, Ch. Rama Bhadri Raju , S Sai Deepu | Prediction and Modelling of Machining Parameters Through Water Jet Machining of Super Alloy | International | 2018 | International conference on Engineering, Science & Technology and Management | 154-162 |
| 7 | J. Madhukiran, Ch. Rama Bhadri Raju , S. Madhusudan, R. Uma maheswara Rao | Mechanical and Morphological Properties of Epoxy Based Hybrid Composites Reinforced with Banana-Pineapple Fiber | International | 2018 | International Conference on Advanced Materials and Manufacturing Processes | 3-11 |
| 8 | S. Madhusudan, J. Madhukiran, D. Phanindra Varma, Ch. Rama Bhadri Raju | Hygric Strain Estimation for Jute-Pineapple Hybrid Composites Through Curved Specimens | International | 2017 | National Conference on Recent Advances in Mechanical Engineering | 245-250 |
| 9 | S. Madhusudan, J. Madhukiran, D. Phanindra Varma, Ch. Rama Bhadri Raju | Experimental Studies on Hygric Strain Behaviour of Jute-Pineapple Hybrid Composites | International | 2016 | International Conference on Electrical, Electronics, and Optimization Techniques | 4387-4391 |
| 10 | Sasidhar.G, Ch. Rama Bhadri Raju , H. Mallesam Dora | Multi-Objective Optimization of Fiber Reinforced Cylindrical Skirt Using A Non-Dominated Sorting Genetic Algorithm (NSGA-II) | International | 2014 | ICAST-2014 | 132-137 |

(c) Patents published

| S No | Author (s) Name | Title of the Patent | International / National | Year of Publication | Application No |
|------|---|---|--------------------------|---------------------|----------------|
| 1 | Rama Bhadri Raju Chekuri , K. Rama Kotaiah, D. Eshwar , R.S.S Varma, K. Sandeep Varma, K. Sunil Kumar ,K P. Raju, Tarun Kumar K | Design and Manufacturing of Spur Gear using 3D Printing | National | 2022 | 202241010151 |

(d) Workshops/STTP Attended

| S No | Name of the workshop/ STTP | Place | Period | |
|------|---|-------------|------------------------|-----------------------------|
| | | | From | To |
| 1 | Machine Learning in Engineering | Kolkata | 17 th Jan | 21 st Jan 2022 |
| 2 | Digital Additive Manufacturing (3D Printing) | Hyderabad | 6 th Sep | 10 th Sep 2021 |
| 3 | Modern Industrial Technology in Mechanical Engineering | Surampalem | 2 nd July | 8 th July 2021 |
| 4 | Outcome Based Education | Guntur | 21 st June | 25 th June 2021 |
| 5 | Outcome Based Education and NBA Accreditation for Tier-II Colleges | Bhimavaram | 29 th March | 3 rd April 2021 |
| 6 | Strategic Methods and Tools for Product Development | Bhimavaram | 22 nd March | 26 th March 2021 |
| 7 | Failure and Damage Mechanics of High-Performance Engineering Materials | Sangivalasa | 13 th July | 18 th July 2020 |
| 8 | A Hands-on Practice of Software Tools in Mechanical Engineering | Karimnagar | 29 th June | 4 th July 2020 |
| 9 | Recent Trends in Mechanical Engineering | Anantapuram | 13 th June | 17 th June 2020 |
| 10 | Advancements in Phase Change Material Based Thermal and Renewable Energy Techniques | Mylavaram | 1 st June | 5 th June 2020 |
| 11 | Advanced Manufacturing Enterprise in Digital Era | Tekkali | 1 st June | 5 th June 2020 |
| 12 | Modeling and Optimization Techniques for Materials and Manufacturing Processes | Mylavaram | 18 th May | 22 nd May 2020 |
| 13 | A Two-Week Workshop on Applied Industrial Robotics | Rajahmundry | 27 th Jan | 2 nd Feb 2020 |
| 14 | Research Problems in Materials and Manufacturing with Hands on Experience | Bhimavaram | 17 th Sep | 21 st Sep 2019 |
| 15 | Research Methodology | Bhimavaram | 8 th July | 12 th July 2019 |
| 16 | Additive Manufacturing | Bhimavaram | 13 th July | 14 th July 2018 |
| 17 | Computational Fluid Dynamics | Guntur | 28 th Apr | 3 rd May 2018 |
| 18 | Research Techniques for Mechanical Engineering with Hands on Experience | Bhimavaram | 23 rd Aug | 27 th Aug 2018 |
| 19 | Recent Trends in Thermal engineering | Bhimavaram | 28 th July | 30 th July 2016 |
| 20 | Advances in Materials & Manufacturing Technologies | Bhimavaram | 23 rd April | 23 rd April 2016 |
| 21 | 3D Printing | Bhimavaram | 22 nd Feb | 27 th Feb 2016 |
| 22 | Autodesk Inventor and Fusion 360 | Bhimavaram | 9 th Dec | 13 th Dec 2015 |
| 23 | ANSYS Work Bench | Bhimavaram | 14 th Dec | 18 th Dec 2015 |
| 24 | Research Methodology | Vijayawada | 8 th July | 11 th July 2014 |

13. Achievements: Achieved “Sports person” of year for 2 consecutive years in the college.

14. Strengths:

- Hard work
- Workaholic
- Team work
- Good time manager
- Adaptable to any environment

15. Other Details if any:

- MEMBER of Institution of Engineers (India).
- Acting as a Deputy Warden for SRKREC Association Boys Hostel.
- Acting as Sports Coordinator from Mechanical Engineering Department.

16. Personal Details:

- (a) Name of the Father : CH V SATYANARAYANA RAJU
(b) Name of the Mother : K SRIDEVI
(c) Gender : Male
(d) Marital Status : Married
(e) Nationality : Indian

Date:

Place: Bhimavaram

Signature of the Candidate

(Dr.Ch. Rama Bhadri Raju)