

Dr. Sadineni Rama Rao

Principal,
MAM Women's Engineering College,
Narasaraopet, Palnadu(Dt).
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Academic Background

- **Ph.D.** on “Studies on electrochemical machining of Al/B₄C composites” in **S.V. University, Tirupati**, under the guidance of Prof. G. Padmanabhan in April 2016.
- **M. Tech**, Design and Production Engineering (Machine Tools) full time, at **National Institute of Technology (formerly known as REC) Warangal** and obtained 71.9% in the year March 2003.
- **A.M.I.E** from Institute of Mechanical Engineers (India) and obtained 62.5% in the year 1999.
- **Diploma** in Mechanical Engineering from S.B.T.E.T. Andhra Pradesh at M.B.T.S. Government Polytechnic, Guntur and obtained 82.9% in the year 1995.
- **S.S.C.** from Board of Secondary Education, Andhra Pradesh at N.B.H.S., Ravipadu and obtained 75% in the year 1992.

Total Work Experience (23 yrs)

- Working as a **Principal** in MAM Women's Engineering College, Narasaraopet, since 1st June 2023.
- Professor and Head of Mechanical Engineering Department in Tirumala Engineering College, Narasaraopet, from 09-06-2018 to 06-06-2023. (**Ratified by JNTUK Kakinada**).
- Professor and Head of Mechanical Engineering Department in Sai Tirumala NVR Engineering College, Narasaraopet, from 02-05-2016 to 05-05-2018.
- Associate Professor in Narasaraopeta Engineering College, Narasaraopet, from 01-05-2015 to 30-04-2016.
- Associate Professor in Sri Venkateswara College of Engineering & Technology (Autonomous), Chittoor, from 5-05-2013 to 30-04-2015.
- Associate Professor and Head of Mechanical Engineering Department in VISIT Engineering College, Tadeplligudem, from 01-06- 2012 to 30-04-2013.

- Associate Professor in Narasaraopeta Engineering College, Narasaraopet, from 01-11- 2007 to 31-05-2012 (**Ratified by JNTUK Kakinada**).
- Senior Lecturer in S.V.V.S.N. Engineering College, Ongole from 01-06-2004 to 31-10-2007.
- Teaching Assistant in S.V.U. College of Engineering, S.V. University, Tirupati, from 05-06-2003 to 31-05-2004.

Administrative/Additional Responsibilities

- **Principal**, MAM Women's Engineering College, Narasaraopet, since 14th June 2023
- **Vice-Principal**, Sai Tirumala NVR Engineering College, Narasaraopet, from 2nd May 2016 to 5th May 2018.
- **Head**, Department of Mechanical Engineering, Tirumala Engineering College, Narasaraopet, since 9th June 2018.
- **Head**, Department of Mechanical Engineering, VISIT Engineering College, Tadepalligudem, from 01-06- 2012 to 30-04-2013.
- **Head**, Sai Tirumala NVR Engineering College, Narasaraopet, from 2nd May 2016 to 5th May 2018.
- College **Governing Body Member** in Sai Tirumala NVR Engineering College.
- College **Governing Body Member** in Tirumala Engineering College.
- College **Governing Body Member** in Krishnaveni Engineering College for Women.
- **Admissions in-charge** in Tirumala Engineering College from 2021 to 2023 and also responsible for advertising and promotion of the College.
- **Admissions in-charge** for Academic years 2016-17 & 2017-18 in Sai Tirumala NVR Engineering College, Narasaraopet.
- **Coordinator**, Entrepreneurship Development Cell, SVCET (Autonomous), Chittoor, for the academic years 2013-14 and 2014-15.
- **Coordinator**, SAEINDIA Students Chapter, SVCET (Autonomous), Chittoor, for the academic year 2013-14.
- **Coordinator**, Anti-Ragging committee, SVCET (Autonomous), Chittoor, for the academic year 2014-15.
- **Co-coordinator**, NBA & NAAC, Tirumala Engineering College, Narasaraopet.
- **Member**, Central Purchase Committee, SVCET (Autonomous), Chittoor, for the academic years 2013-14 and 2014-15.

- **Co-coordinator**, IQAC, Tirumala Engineering College, Narasaraopet.
- **Coordinator**- API scrutiny committee in Tirumala Engineering College, Narasaraopet.
- **Member** - R&D cell and Anti-Ragging committee, Tirumala Engineering College, Narasaraopet.

Awards/Achievements

- Completed NPTEL Online Certification course on **“Problem Solving through Programming in C”** in Jul-Oct. 2022.
- **Best Senior Faculty Award** from Novel Research Academy in the year 2021.
- Received **Certificate from Ministry of Education** as Primary Evaluator for exceptional contribution as a primary evaluator in Toycathon in 2021.
- **Resource person** for online faculty development program on Application of Design, Modeling & Optimization Techniques in Mechanical Engineering, on 2nd July, 2021, at Tirumala Engineering College, Narasaraopet, Guntur, India.
- **Topper** in NPTEL online course **“Engineering Drawing and Computer Graphics”** and obtained **gold medal with 97%**.
- Acted as a **“Session Chair”** for the **“International Conference on Mathematical Sciences in Engineering Applications”** on 22-24th December 2017, Organized by Baba Institute of Technology and Sciences, Visakhapatnam.
- 100% pass in Engineering Drawing subject by I B. Tech I Sem Civil students in SVCET, Chittoor, for the academic year 2014-15.
- 100% pass in FMHM subject by II B. Tech I Sem EEE students in Narasaraopeta Engineering college, Narasaraopet, for the academic year 2010-11.
- Secured 98.13 percentile in GATE-2000 (Mechanical)
- Secured 97.54 percentile in GATE-1999 (Mechanical)

Publications (30)

Google scholar citations: **555**; h-index: **12**; i10-index: **14**

Journals: 21

1. **S. Rama Rao**, M. Ravi Kumar, V. Rama Koteswara Rao, Multi-objective optimization in turning of Al 7075-SiC composites using desirability analysis, Materials Today: Proceedings, Volume 56, Part 3, 2022, 1281-1289. (**Scopus Indexed**)

2. C. V. Subba Rao, R. Sabitha, P. Murugan, **S. Rama Rao**, K. Anitha and Y. Sesha Rao, A Novel Study of Synthesis and Experimental Investigation on Hybrid Biocomposites for Biomedical Orthopedic Application, *International Journal of Polymer Science*, Vol. 2021, Article ID 7549048, 1-10, <https://doi.org/10.1155/2021/7549048>. **(SCI Expanded)**
3. **S. Rama Rao**, SAK. Jilani, V. Swamulu, Multi-objective optimization using TOPSIS in turning of Al6351 alloy, *IOP Conference series, Material science Engineering*, Vol. 1112, 012010, 2021. <https://doi.org/10.1088/1757-899x/1112/1/012010>. **(Scopus Indexed)**
4. **S. Rama Rao**, K. Murali Krishna and K. Vijayalakshmi, "Development of Expert System for an Unconventional Machining Process" *International Journal of Engineering Science Innovation*, Vol. 7, Issue 1, Pp: 40-49, 2018.
5. **S. Rama Rao** and G. Padmanabhan, "Parametric optimization in electrochemical machining using utility based Taguchi method", *Journal of Engineering Science & Technology*, Vol. 10, Pp: 87-111, 2015. [WOS:000214304000008](https://doi.org/10.1088/1757-899x/10/1/012010). **(Scopus Indexed)**
6. **S. Rama Rao**, G. Padmanabhan, K. Mahesh Naidu and A. Rukesh Reddy, "Parametric Study for Radial Over Cut in Electrochemical Drilling of Al-5%B₄C_pComposites, *Procedia Engineering*, Vol. 97, Pp: 1004-1011, 2014. **(Scopus Indexed)**
7. **S. Rama Rao** and G. Padmanabhan, "Fabrication and Tribological Properties of Al-Si/B₄C Metal Matrix Composites" *International Journal of Surface Engineering and Interdisciplinary Materials Science*, Vol. 2, No. 1, Pp: 74-84, 2014. **(Scopus Indexed)** <http://doi.org/10.4018/ijseims.2014010105>
8. **S. Rama Rao** and G. Padmanabhan, "Optimization of multiple-machining criteria in electrochemical machining of aluminum composites using design of experiments", *Journal of Scientific & Industrial Research*, Vol. 73, No. 4, Pp: 251-257, 2014. <http://nopr.niscair.res.in/handle/123456789/27737> **(SCI Expanded)**
9. A. Giribabu, **S. Rama Rao** and G. Padmanabhan "Optimization of machining parameters in ECM of Al/B₄C composites using genetic algorithms" *International Journal of Mechanical Engineering & Robotics Research*, Vol. 3, No. 3, Pp: 32-38, 2014. **(Scopus Indexed)**
10. **S. Rama Rao** and G. Padmanabhan, "Optimization of Machining Parameters in ECM of Al/B₄C Composites Using Taguchi Method", *International Journal of Applied Science and Engineering*. Vol. 12, No. 2, Pp: 87-97, 2014. **(Scopus Indexed)**
11. P. Kumar, B. J. Naik, Ch.V. Rao and **S. Rama Rao**, "Optimization of casting parameters for casting of Al/RHA/RM hybrid composites using Taguchi method" *International Journal of Engineering Trends and Technology*, Vol. 4, No. 8, Pp: 3284-3288, 2014. **(Scopus Indexed)**
12. Konanki M. Naidu and **S. Rama Rao**, "ANN Based Surface Roughness Prediction in Turning of AA6351", *International Journal of Engineering Research and Applications*, Vol. 3, No. 4, Pp: 1455-1459, 2013.

13. **S. Rama Rao** and G. Padmanabhan, “Multi-Response Optimization of Electrochemical Machining of Al-Si/B₄C Composites Using RSM”, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, Vol. 3, No. 3, Pp: 42-56, 2013. DOI: [10.4018/ijmmme.2013070103](https://doi.org/10.4018/ijmmme.2013070103) (**Scopus Indexed**)
14. **S. Rama Rao** and G. Padmanabhan, “Optimization of Machining Parameters in ECM of Al/B₄C Composites”, *Journal of Manufacturing science and Production*, Vol. 13 No. 3, Pp: 145-153, 2013. <https://doi.org/10.1515/jmsp-2012-0039>.
15. **S. Rama Rao** and G. Padmanabhan, “Linear Modeling of the Electrochemical Machining Process Using Full Factorial Design of Experiments”, *Journal of Advanced Mechanical Engineering*, Vol. 1, Pp: 13-23, 2013.
16. **S. Rama Rao** and G. Padmanabhan, “Modeling of radial over cut in electrochemical machining of Al/B₄C MMC using response surface methodology”, *Journal of Manufacturing science and Production*, Vol. 13, No. 1-2, Pp: 31-38, 2013. <https://doi.org/10.1515/jmsp-2012-0026>
17. **S. Rama Rao**, G. Padmanabhan and K. Charan Kumar, “Multi Response Optimization of Electrochemical Machining of Al-B₄C Composites Using Grey Relational Analysis” *The IUP Journal of Mechanical Engineering*, Vol. 5, No. 2, Pp: 58-67, 2012.
18. **S. Rama Rao** and G. Padmanabhan, “Application of Taguchi methods and ANOVA in optimization of process parameters for metal removal rate in electrochemical machining of Al/5%SiC composites” *International Journal of Engineering Research and Applications* Vol. 2, No. 3, Pp: 192-197, 2012.
19. **S. Rama Rao** and G. Padmanabhan, “Effect of process variables on metal removal rate in electrochemical machining of Al-B₄C composites” *Archives of Applied Science Research*, Vol. 4, No. 4, Pp: 1844-1849, 2012.
20. **S. Rama Rao** and G. Padmanabhan, “Fabrication and mechanical properties of aluminium-boron carbide composites”, *International Journal of Materials and Biomaterials Applications*, Vol. 2, No.3, Pp: 15-18, 2012.
21. **S. Rama Rao**, G. Padmanabhan, B. Surekha and Pandu R. Vundavilli, “Optimization of Electrochemical Machining Process Using Evolutionary Algorithms” *Journal of Machining and Forming Technologies*, Vol. 1, No. ¾, Pp: 265-278, 2009.

Conferences - 9

- 1) **S. Rama Rao**, M. Ravi Kumar, V. Rama Koteswara Rao, Mechanical properties and machining of Al-7075-SiC Composites, Virtual International Conference on Emerging Trends in Mechanical Engineering & Industrial Automation, 30th & 31st July 2021, Narasaraopeta Engineering College, Narasaraopet.
- 2) **S. Rama Rao**, N. Suresh, V. Swamulu. “Multi-response optimization of ECM processing using PCA” Online International Conference on Recent Innovation in Science,

Engineering, Humanities and Management, 25th and 26th September 2020, at Tirumala Engineering College, Narasaropet, Guntur, India.

- 3) **S. Rama Rao**, Parametric Optimization of Friction Stir Welding using Utility Based Taguchi Method, International Conference on Recent trends in Engineering, Applied Science and Humanities (EAH-19), 28.09.2019, Conference world.
- 4) **S. Rama Rao** and SAK Jeelani, Enhancing the performance of EDM –an overview, International Conference on Technological Emerging Challenges (ICTEC-19), at Tirumala Engineering College, Narasaraopet.
- 5) K vijay, S AK Jeelani, **S. Rama Rao** and A yeswanth, Experimental enhancement of the steam quality using water based nanofluid (Al_2O_3), International Conference on Technological Emerging Challenges (ICTEC-19), at Tirumala Engineering College, Narasaraopet.
- 6) Raja Vamsi and **S. Rama Rao**, “Additive manufacturing systems”, International Conference on Recent Trends in Mechanical Engineering (NECICRTME-2k15), November 20-21, 2015, at Narasaraopeta Engineering College, Narasaraopet, Guntur, India.
- 7) **S. Rama Rao**, G. Padmanabhan and K. Charan Kumar, “Effect of percentage of reinforcement on MRR and ROC for Al/B4C composites in Electrochemical Machining: A Practical Approach” *Proceedings of NCRTIME’12*, Volume 11 March’22, 2012, Chennai, India.
- 8) **S. Rama Rao**, C.R.M Sravan, G. Padmanabhan and Pandu R. V “Fuzzy logic based forward modeling of electrochemical machining process” *Proc. of 2009 World Congress on Nature & Biologically Inspired Computing (NaBIC 2009)*, Coimbatore, India, 2009, Pp:1431-1435. (IEEE Xplore)
- 9) **S. Rama Rao**, G. Padmanabhan and C.S.P. Rao, “Optimal selection of process plans and scheduling using Genetic Algorithms and simulated Annealing approach” *All India seminar on Emerging Trends in Mechatronics & Instrumentation*, June 29 – 30, 2007, at S.V.U. College of Engineering, Tirupati.

Books/Book Chapters Published/Accepted (1)

- 1) Book chapter “Performance Evaluation of Ti_6Al_4V during High-Speed Turning Using Carbide Coated Insert” published in book entitled “Advances in Mechanical and Industrial Engineering” Published by Taylor and Francis Books India Pvt. Ltd. 1st edition, 2022, CRC Press.
- 2) SLK. Bharathi, SM. Sanjay Kumar, **S. Rama Rao**, K. Arvind, **Mechatronics**, Scientific International Publishing House, Tamilnadu, India, 2025. (ISBN- 978-93-6674-549-7)

FDPs/Workshops/Seminars/Conferences Attended

- A Five-day Online National FDP on **“NLP, Computer Vision and Artificial Intelligence”** organized by APSSDC in Collaboration with ExcelR Edtech Pvt. Ltd. from 04-12-2023 to 08-12-2023.
- NPTEL-AICTE FDP on **“Problem Solving through Programming in C”** in Jul-Oct. 2022.
- A Five-day online FDP on the theme **“Inculcating Universal Human Values in Technical Education”** Organized by AICTE from 11-04-2022 to 15-04-2022.
- A Five-day ATAL Online Elementary FDP on **“Design of Experiments and Artificial Neural Network”** from 16-08-2021 to 20-08-2021, at M.J.P. Rohilkhand University.
- A Five-day ATAL Online Elementary FDP on **"Additive Manufacturing in Industry 4.0 Strategy"** from 05-07-2021 to 09-07-2021 at National Institute of Technology, Andhra Pradesh.
- A Five-day ATAL Online Elementary FDP on **"NBA Accreditation Process"** from 28-06-2021 to 02-07-2021 at JNTUA, Anantapur.
- A Five-day ATAL Online Elementary FDP on **"Life Skills Management- ROAD - Leadership & Excellence"** from 21-06-2021 to 25-06-2021 at GITAM Deemed to be University.
- **Attended more than 50 online FDPs/Seminars/webinars in COVID-19 Pandemic conditions.**
- Three-day international conference on **“Mathematical Science and Engineering Applications”** organized by Baba Institute of Technology and Sciences, Visakhapatnam during 23rd -25th, December 2016.
- One-day workshop on **“Entrepreneurship Development”** organized by AP Government at Startup Village, Maddurawada IT Lay Out, Visakhapatnam, on 29th January 2015.
- One-day workshop on **“Startup Bootcamp Inauguration at Sunrise Startups Incubation Center”** organized by JNTUA, Anantapur, 23rd January 2015.
- Three-day conference on **“12th Global Congress on Manufacturing and Management”** organized by VIT University, Vellore, during 8th-10th December 2014.
- Two-day workshop on **“Initiatives for Quality Improvement in Engineering Education”** organized by SVU college of Engineering, SV University, Tirupati, during 15th-16th November 2014.

- Two-day faculty development program on **“Being an Effective Team Player and Effective Presentation Skills Required by Teachers”** organized by SVCET, Chittoor, during 2nd-3rd August 2014.
- One-day national workshop on **“Engineering Graphics (Perspective Projections)”** organized by SVCET, Chittoor, on 14th March 2014.
- One-day faculty development program on **“Leadership and Team Building”** organized by SVCET, Chittoor, on 1st August 2014.
- Short term training program on **“Digital Factory”** organized by NITW, Warangal, during 25th August – 6th September, 2008.
- One-day workshop on **“Applications of Mathematics in Engineering and Science”** organized by Narasaraopeta Institute of Technology, Narasaraopet, on 21st February, 2009.
- One-day workshop on **“Role of Mechatronics & Robotics in Industrial Sector”** organized by QIS College of Engineering & Technology, Ongole, on 14th July, 2008.
- Two-day National Seminar on **“Application of Soft Computing Tools in Mechanical Engineering”** organized by Siddhartha Engineering College, Vijayawada, during 28th& 29th January, 2008.
- One-day workshop on **“Mechatronics”** organized by Godavari Institute of Engineering & Technology, Rajahmundry, on 15th December 2007.
- All India seminar on **“Emerging Trends in Mechatronics& Instrumentation”**, organized by S.V.U. College of Engineering, SV University, Tirupati, during 29th& 30th June 2007.
- Two-day National Workshop on **“Computer Applications in Solids, Fluids and Thermal Sciences”** organized by Maharaj Vijayram Gajapathi Raj College of Engineering, Vizianagaram, during 23rd& 24th March, 2007.
- Three-day workshop on **“Genetic Algorithms for Mechanical Engineering”** organized by NITW, Warangal, during 3rd- 5th March, 2006.

Conferences/Seminars/workshops/FDPs Conducted

- **Convener**, online faculty development program on **“Application of Design, Modeling & Optimization Techniques in Mechanical Engineering”**, 28th June to 2nd July, 2021, at Tirumala Engineering College, Narasaraopet, Guntur, India.
- **Organizing committee member**, Online International Conference on Recent Innovation in Science, Engineering, Humanities and Management, 25th and 26th September 2020, at Tirumala Engineering College, Narasaraopet, Guntur, India.

- **Co-convenor**, International Conference on Recent Trends in Mechanical Engineering (NECICRTME-2k15), November 20-21, 2015, at Narasaraopeta Engineering College, Narasaraopet, Guntur.
- **Coordinator**, National level conference on Recent Advances in Mechanical Engineering 8th August 2014, SVCET, Chittoor.
- **Coordinator**, A one day national level workshop on Assembly of Machine Components Using Solid Works (MACHINE DRAWING), 26th March, 2014, SVCET, Chittoor.
- **Coordinator**, National level workshop on “Soft Computing Techniques” on 3rd March, 2012 in the Department of Mechanical Engineering, Narasaraopeta Engineering College, Narasaraopet.
- **Coordinator**, National level workshop on “Synthesis and Analysis of Nano-materials” during 3rd & 4th January 2011 in the Department of Mechanical Engineering, Narasaraopeta Engineering College, Narasaraopet.
- **Coordinator**, National workshop on “Modern Trends in Manufacturing” during 17th & 18th October 2008 in the Department of Mechanical Engineering, Narasaraopeta Engineering College, Narasaraopet.

Invited Talks

- Guest lecture on “Engineering Graphics” on 31.12.2021, at Chalapathi Institute of Engineering & Technology, Guntur
- Guest lecture on “Modern Machining Processes” on 08.05.2021, at Narasaraopeta Institute of Technology, Narasaraopet.
- Guest lecture on “Engineering Mechanics” on 19.12.2020, at ESWAR Engineering College, Narasaraopet.
- Guest lecture on “Fluid Mechanics” on 06.11.2019, at Narasaraopeta Institute of Technology, Narasaraopet.
- Guest lecture on “Boundary Layer Theory” on 16.10.2019, at ESWAR Engineering College, Narasaraopet.
- Guest lecture on “Unconventional Machining” on 06.04.2019, at ESWAR Engineering College, Narasaraopet.
- Guest lecture on “Orthographic Projections” on 08.10.2018, at Narasaraopeta Institute of Technology, Narasaraopet.

- Guest lecture on “Computer Aided Engineering Drawing” 08.09.2018, at Narasaraopeta Institute of Technology, Narasaraopet.

Co-Curricular and Extra-Curricular Activities

- **Question Paper Setter** for some Autonomous Engineering Colleges.
- **Associate Editor in Chief** for International Journal of Manufacturing and Production Engineering
- **Associate Editor in Chief** for Trends in Mechanical Engineering & Technology
- **Editorial Board Member** of International Journal of Mechanical Engineering and Applications.
- **Editorial Board Member** of International Journal of Engineering and Advanced Technology (IJEAT).
- **Editorial Board Member** of International Journal of Engineering Sciences and Modern Management of IIARDPUB Publications
- **Reviewer** for International Journal of Surface Science and Engineering, International Journal of Applied Science and Engineering, Jordon Journal of Mechanical and Industrial Engineering, International Journal of Machining and Machinability of Materials, Journal of Critical Reviews, Journal of Materials Research and Technology, Computational Intelligence, Machining Science and Technology, etc.
- **Member** in the sports committee for annual day celebrations in Narasaraopeta Engineering College, Narasaraopet, in 2010.
- **Coordinator** for the annual sports celebrations in 2006 in S.V.V.S.N Engineering College, Ongole.
- Won prizes in annual day sports celebrations in Narasaraopeta Engineering College, Narasaraopet and S.V.V.S.N Engineering College, Ongole.

M. Tech Projects Guided (3)

1. Modelling and Analysis of Propeller Blade for A Marine Engine (2014)
2. Value Analysis on Butterfly Valve Through Analytical Hierarchy Process and Value Stream Mapping of Purchasing Process (2014)
3. Modeling and Analysis of Cylinder Block for V8 Engine (2014)

B. Tech Projects Guided (12)

1. Microcontroller Firefighting Robot ((2007)
2. Design, Modeling and Analysis of Helical Gear ((2007)
3. Design of Turbo-System for Volkswagen Golf 2.0L DI (2008)
4. Air Brakes for Railway Wagons (2008)
5. Automatic Railway Gate Controller (2009)
6. Prototype of an Earth Mover with Microcontroller Operated DTMF Technology (2009)
7. Modelling of Electrochemical Machining Process Using Fuzzy Logics (2010)
8. Fabrication and Investigation of Aluminium Boron Carbide Composites (2011)
9. PC Based Wire Controlled Pick and Place Robot (2011)
10. ECM of Aluminium Silicon Carbide Composite Materials (2012)
11. Design and Fabrication of Remote Controlled Motorized Scissor Jack (2018)
12. Fabrication of Solar Power Operated Pesticide Drizzle (2019)
13. Fabrication of Steering System for Solar Vehicle (2019)
14. Design and Fabrication of Semi-Automatic Black Board Cleaner (2020)
15. Design and Fabrication of Pedal Power Generator (2020)

Professional Body Memberships

- ISTE: LM130183
- SAISE: 20210430001
- IRED: SM10100059467
- IAENG: 215121

Strengths

- Strong fundamentals in all subjects
- Handled more than 15 different subjects for UG/PG students
- Familiar with NBA and NAAC works
- Good administrative & motivation skills
- Good in Admissions & Promotional works