

CURRICULUM VITA

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Web of Science ID: <https://publons.com/researcher/4098321/veeravalli-ramakoteswara-rao/>
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PROFILE

- Graduated (B.E, Production) from Adhiyamaan College of Engineering (Madras University), Hosur, in 2001.
- Master of Technology (production) from V.R. Siddhartha Engineering College (Nagarjuna University), Vijayawada, in 2006.
- Ph.D (Aluminium Metal Matrix Composites) from Andhra University, Visakhapatnam, June 2017.
- Working as Associate Professor in the Department of Mechanical Engineering, R.V.R. & J.C. College of Engineering, Chowdavaram since 2018.
- Worked as Assistant Professor in the Department of Mechanical Engineering, R.V.R. & J.C. College of Engineering, Chowdavaram, in 2008-2018.
- Worked as a lecturer in the Department of Production Engineering, V.R. Siddhartha Engineering College, Kanuru, in 2007-2008
- Worked as Assistant Professor in the Department of Mechanical Engineering, Vignan's Engineering College, Vadlamudi, in 2001-2007.

PROFESSIONAL SOCIETIES

- ☞ Senior Member of IRED
- ☞ Life Member of IAENG
- ☞ Life Member of IEINDIA
- ☞ Life Member of SCIEI

ADMINISTRATIVE EXPERIENCE

- Worked as a member of Examination cell in Vignan's Engineering College, Vadlamudi.
- Worked as a In-charge of Time Tables in Vignan's Engineering College, Vadlamudi
- Worked as a Class In-Charge at V.R. Siddhartha Engineering College, Vijayawada.
- Worked as a Class In-Charge at R.V.R & J.C College of Engineering, Guntur.
- Worked as a internal examination member at R.V.R & J.C College of Engineering, Guntur.
- Working as member of literary & cultural committee at R.V.R & J.C College of Engineering, Guntur.
- Working as member of ISTE student chapter committee at R.V.R & J.C College of Engineering, Guntur.
- Working as member of innovation and incubation centre at R.V.R & J.C College of Engineering, Guntur.

PH.D THESIS TITLE, GUIDE'S NAMES, INSTITUTE/ORGANIZATION/UNIVERSITY, YEAR OF AWARD:

Title of Ph.D thesis: Evaluation of Mechanical and Tribological properties of Aluminum Metal matrix composites (AA7075/TiC) through Stir casting Method.
Guide's Names: 1) Dr. Ramanaiah N., Professor, Dept. of Mechanical Engineering, Andhra University, Visakhapatnam
2) Dr. Sarcar M.M.M., Professor, Dept. of Mechanical Engineering, Andhra University, Visakhapatnam.
Year of award: 2017

Ph.D GUIDANCE

No. of Students working: 1

RESEARCH PAPERS PUBLISHED

1. C.TaraSasanka ,V.RamaKoteswara Rao, K.Ravindra, Ch. Tirumalarao “ *Prediction of transient response of isotropic and laminated cylindrical shells using ANN* ”, International Journal of Technological synthesis and Analysis, Vol 1 Issue 1 December 2012, Pp:1-6. ISSN: 2320-2386 (2011-2012)
2. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar, “Fabrication and Investigation on properties TiC Reinforced AL7075 Metal Matrix Composites”, journal of applied Mechanics and Materials, vols.592-594(2014), pp 349-353, in Trans Tech Publications, Switzerland [[web of science & scopus](#)]
3. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar, “Tribological properties of Aluminium Metal Matrix Composites (AA7075 Reinforced with Titanium Carbide (TiC) Particles)”, International Journal of Advanced Science and Technology, Vol.88 (2016), pp.13-26.
4. V.Ramakoteswara Rao, J.RangarayaChowdary et.al.,”A Review on Properties of Aluminium Based Metal Matrix Composites via Stir Casting”,International Journal of Scientific & Engineering Research, Vol. 7, Issue 2, February-2016,pp.742-749.
5. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar ,”Dry sliding wear behavior of TiC -AA7075 Metal Matrix Composites”,International Journal of Applied Science and Engineerig,2016. [[Scopus](#)]
6. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar,”A Review on Mechanical and Tribological Properties of Metal matrix Composites”,Journal of Polymer & Composites, 2016. [[web of science & scopus](#)]
7. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar, “Mechanical and tribological properties of AA7075-TiC metal matrix composites under heat treated (T6) and cast conditions”, Journal of Materials Research and Technology, vol.5 (4), pp 377-383, 2016. [[web of science & scopus](#)]
8. V.Ramakoteswara Rao, N.Ramanaiah and M.M.M.Sarcar, “Optimization of volumetric wear rate of AA7075-TiC metal matrix composite by using taguchi technique” Jordan Journal of Mechanical and Industrial Engineering, Vol.10(3), PP 189-198, September.2016 ISSN 1995-6665. [[web of science & scopus](#)]
9. V.RamakoteswaraRao, M. Srinivasa Rao, N.RamanaiahM.M.M.Sarcar, and G.Kartheek, “Optimization of Process Parameters for Minimum Volumetric Wear Rate on AA7075-TiC Metal Matrix Composite” International Journal of Automotive and Mechanical Engineering,Vol.13(3),pp.3669-3680,2016. Materials today proceedings, volume 62, issue-12,2022.[[web of science](#)]
10. V.Ramakoteswara Rao, J.RangarayaChowdary and S.P. Kumar Gudapati, “Fabrication and Investigation on Mechanical Properties of (AA7075/ Cr3C2) Metal Matrix Composites”, Material Today Proceedings, 2019, [10.1016/j.matpr.2019.05.397](https://doi.org/10.1016/j.matpr.2019.05.397). [[web of science & scopus](#)]
11. VajaralaVenkata Reddy , Ravi Kumar Mandava , Deepak Kumar , Vijay Pachore , Vikas Kumar and V. RamaKoteswara Rao, “Optimization of wear and frictional parameters using IWO and PSO algorithms”,IOP Conference Series: Materials Science and Engineering, 2021, 1136,doi:10.1088/1757-899X/1136/1/012075.
12. Ravi Kumar Mandava,VajrjalaVenkata Reddy, Veeravalli RamaKoteswara Rao and K. Srinivasulu Reddy, “Wear and Frictional Behaviour of Al 7075/FA/SiC Hybrid MMC’s Using Response Surface Methodology”,Silicon,2021,<https://doi.org/10.1007/s12633-021-01300-3>. [[SCI, web of science & scopus](#)]
13. K. V. S. L. Dathathreya , RavindraAndukuri , T. Lakshmi Prathyusha , V. Ramakoteswara Rao and T. VenkataRatnam, “An Experimental Study of the TiB₂-Reinforced AA7075 Manufactured by the Stir Casting Technique”, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) ,Volume 11, Issue 01, 2022.
14. Sadineni Rama Rao, Mandava Ravi Kumar, Veeravalli Rama Koteswara Rao, “Multi-objective optimization in turning of Al 7075-SiC composites using desirability analysis”, Materials today proceedings, volume 56, issue-3,2022.[[web of science](#)]

15. Vajrala Venkata reddy, Mandava Ravi Kumar, Veeravalli Ramakoteswara Rao, Mandava, Sunitha, "Optimization of dry sliding wear parameters of Al 7075 MMC's using Taguchi method", *Materials today proceedings*, volume 62, issue-12,2022. [web of science & scopus]
16. Tomar, M., Mandava, S., Hemalatha, N., Veeravalli Ramakoteswara Rao, & Mandava, R. K, "Design of PID, FLC and Sliding Mode Controller for 2-DOF Robotic Manipulator: A Comparative Study", *International Journal of Mathematical, Engineering and Management Sciences*,8(1),94-104,2023. <https://doi.org/10.33889/IJMEMS.2023.8.1.006>. [web of science & Scopus]

Papers Published/Presented:

1. "A Numerical Simulation and Turbulence of a Butterfly valve", Proceedings of National Conference of Recent Advances in Mechanical Engineering (NCRAME-2011) organized by R.V.R & J.C College of Engineering, Guntur during 7-8 July 2011. Pp: 512-519.
2. Presented a paper entitled "Fabrication and characterization of Stir casting TiC Reinforced Aluminum (AL7075) Metal Matrix Composites" during National conference on "latest innovations in mechanical engineering (LIME-2013) at Andhra University, vizag on 28th April, 2013.
3. Presented a paper entitled "Fabrication and Investigation of Reinforced AL7075 Metal Matrix Composites" in the International Mechanical Engineering Congress-2014 Organized by National Institute of Technology, Tiruchirappalli, Tamilnadu, during 13-15, June 2014.
4. Presented a paper entitled "Dry Sliding Wear Behavior of Al7075 Reinforced with Titanium Carbide (TiC) Particulate Composites" in the International conference on Advances in Materials, Manufacturing and Applications (AMMA-2015), Organized by National Institute of Technology, Tiruchirappalli, Tamilnadu, during 9-11, April 2015.
5. Presented a paper entitled "Application of Grey-Taguchi Technique for Optimization of Process Parameters for wear behavior on AA7075-TiC metal matrix composites" in the 6th International and 27th All India manufacturing technology, Design and Research conference (AIMTDR-2016), Organized by Pune College of Engineering, Pune, Maharashtra , during 16-18, December 2016.
6. Presented a paper entitled "Fabrication and Investigation on Mechanical Properties of (AA7075/Cr₃C₂) Metal Matrix Composites" in the International conference on recent advances in materials, manufacturing and energy systems. Organized by V. R. Siddhartha Engineering College, Kanuru, Vijayawada, during 3-4, January 2019.
7. Presented a scientific paper "Review on Recent Developments in Mechanical and Tribological Properties of AMMCs" in the 4th International Conference on "Nanotechnology for Better Living ICNBL-2019 IIT Kanpur", jointly organized by IIT Kanpur, NIT Srinagar, CSJM University, and HBTU, Kanpur, during April 06-07 2019.
8. Presented a paper entitled "Mechanical behavior of TiB₂ particle reinforced AA7075 Metal Matrix Composites" in the 2nd Virtual national Conference on "Advancement in Materials Processing Technology- AMPT-2020", organized by NIT Jamshedpur, during 31st October to 2nd November 2020.
9. Presented a paper entitled " Microstructure, Mechanical and Tribological properties of AA7075-Al₂O₃-SiC Metal Matrix Composite" in the 3rd International Conference on IC4M-Advances in Materials, Mechanics, Mechatronics and Manufacturing , during April 15-16,2023.

Workshops/Seminars/Conferences attended:

1. AICTE Sponsored National Seminar on "MICRO MACHINING" organized by R.V.R & J.C College of Engineering, Guntur during 19-20 December 2008.
2. Short Term Course on "COMPUTATIONAL MECHANICS" organized by P.V.P Siddhartha Institute of Technology, Vijayawada during 18-22 May, 2009.

3. Participated in “INDUCTION TRAINING FOR YOUNG FACULTY”, sponsored by ISTE Chapter of R.V.R & J.C College of Engineering, Guntur during 7-8 September 2009.
4. AICTE Sponsored National Seminar on “INTERACTIVE WORKSHOP & TECHNOLOGY APPRECIATION SEMINAR ON MECHATRONICS APPLICATIONS” organized by V.R. Siddhartha Engineering College, Vijayawada during 5-6 August 2010.
5. AICTE Sponsored Two week staff development programme on “MACHINE CONDITION MONITORING AND FAULT DIAGNOSTICS” during 25th June-7th July,2012 at V.R. Siddhartha Engineering College, Vijayawada.
6. AICTE Sponsored short term course on “ROBOTICS:MECHANICS,CONTROL,SENSING,VISION AND INTELLIGENCE” ORGANIZED BY PRECISION ENGINEERING AND INSTRUMENTATION LABORATORY, Department of Mechanical Engineering, at I.I.T.Madras, from 14th to 18th January,2013.
7. Training programme on “CNC MILLING (XLMILL), FMS&AGV” at MTAB Technology Centre, Chennai, from 18/03/2013 to 20/03/2013.
8. National conference Supported by TEQIP-11, on “LATEST INNOVATIONS IN MECHANICAL ENGINEERING (LIME2013), at Andhra University, Vizag on 28th April, 2013.
9. Two day National workshop on “RECENT ADVANCES IN WELDING METALS (RAWM-2013), at Andhra University, Vizag, on 29th -30th April, 2013.
10. AICTE Sponsored two week faculty development programme on “MODELING AND OPTIMIZATION OF MANUFACTURING SYSTEM USING INTELLIGENT TECHNIQUES” at Bannari Amman Institute of Technology, Satyamangalam, Tamilnadu, during 6th May-18th May 2013.
11. DST Sponsored “INTERNATIONAL WORKSHOP ON ADVANCED & INTEGRATED ENERGY SYSTEMS AND ENERGY CONSERVATION (AIESEC)” held at Vignan University on 29th&30th July, 2013.
12. Dst sponsored National Seminar on “FUTURISTIC TRENDS OF NANOCOMPOSITES AND THEIR FABRICATION (FTNCF-2013)” organized by R.V.R & J.C College of Engineering, Guntur during 6-7th September, 2013.
13. AICTE Sponsored two day national seminar on “ADVANCES IN BIOMATERIALS FOR MEDICAL APPLICATIONS(ABMA-2014)” organized by R.V.R & J.C College of Engineering, Guntur during 14-15th March 2014.
14. TEQIP short term course on “Advances in welding and Joining Technologies” organized by Department of Mechanical Engineering & Knowledge Incubation cell, held during 29-31,2014 at Indian Institute of Technology, Guwahati, Assam, India.
15. A 6-day Faculty Improvement Program on “Autodesk Nstran In-CAD Pre Training” organized by EDS Technologies in association with Andhra Pradesh State Skilled Development Corporation (APSSDC), held during 28th Nov to 03rd Dec 2016 at Madanepalle Institute of Technology & Science, Madanepalle, Andhra Pradesh, India.
16. AICTE approved Four-Week Faculty Development Programme (FDP) on “Use of ICT in Education for Online and Blended Learning” conducted by Indian Institute of Technology Bombay from May 2nd, 2016 to July 10th, 2016 and is conferred an “Award of Excellence” sponsored by SAP India Pvt.Ltd.
17. Participated in “Orientation workshop for Associate faculty”, conducted at IIT Bombay on 25th and 26th March 2017.
18. AICTE Sponsored two weeks faculty development programme on “Innovations in Renewable Energy Harvesting and Environment Friendly Process Technologies for Sustainable Development” organized by R. V. R & J. C College of Engineering, Guntur during 23-10-17 to 04-11-17.
19. Certificate of Appreciation was a ‘Mentor’ in the AICTE approved faculty development programme (FDP101x) on Pedagogy for online and blended teaching-learning process conducted by IIT Bombay August 3, 2017 to September 7,2017.

20. Certificate of Appreciation was a 'Mentor' in the AICTE approved faculty development programme (FDP201x) on Pedagogy for online and blended teaching-learning process conducted by IIT Bombay September 14, 2017 to October 12, 2017.
21. AICTE Sponsored one week short term course on "Ultra High Precision Machine Tools- Design and Characterization "at IIT Madras, during 5th March to 10th March, 2018.
22. A 3-day Workshop on "Digital Manufacturing" organized by Department of Mechanical Engineering, held during 19th to 21st July 2018 at V.R.S.E.C, Kanuru, Andhra Pradesh, India.
23. The two week faculty development programme on "Mentoring Educators in Educational Technology (FDP 301X) Conducted by IIT Bombay from May 17, 2018 to July 05, 2018 and secured 84% marks.
24. A 5-day National Workshop on "Basics in Robotics and Applications" organized by Department of Mechanical Engineering, held during 17th to 21st December 2018 at VFSTR (Deemed to be university), Vadlamudi, Guntur, Andhra Pradesh, India.
25. A 5- day short term QIP sponsored course on "Technological Advancement of Polymer Nanocomposites, in Honour of Prof. Anil K. Bhowmick's 65 Birth Day" organized by Department of Mechanical Engineering, held during April 04 to April 08, 2019 at IIT Kanpur, Kanpur.
26. AICTE sponsored two week faculty development programme on "Emerging technologies and challenges in Mechanical Engineering" conducted by R. V.R. & J.C. College of Engineering from 21st October to 2nd November 2019.
27. Attended the interaction session on 23 May 2020 and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work "Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop" organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.
28. Two week Faculty development Program on "AutoCAD" organized by Andhra Pradesh State Skilled Development Corporation (APSSDC), held during 18th May to 30th May 2020, Andhra Pradesh, India.
29. Two week Faculty development Program on "Solid Edge" organized by Andhra Pradesh State Skilled Development Corporation (APSSDC), held during 1st June to 13th June 2020, Andhra Pradesh, India.
30. Participated and completed successfully AICTE Training and Learning (ATAL) Academy online FDP on "Novel Materials" from 05-10-2020 to 09-10-2020 at Pillai College of Engineering.
31. Participated in the five day online Short Term Course on "Smart Manufacturing Technologies", Organized by Department of Mechanical Engineering at Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India-462003 during 23rd to 27th December, 2020.
32. Participated in the five day QIP Short Term Course on "Welding and fabrication of high strength steels for modern power plants", Organized by School of Mechanical Sciences at IIT BHUBANESWAR, **Odisha-752050, India** during 21st to 25th June, 2021.
33. Participated and completed successfully AICTE Training and Learning (ATAL) Academy online FDP on "Novel Materials for Next-Generation Applications" from 12-07-2021 to 16-07-2021 at Ramaiah Institute of Technology, Bengaluru.
34. Participated in the one-week faculty development program on "Investor Awareness Program - Financial Literacy for You (FLY) ", organized by **R.V.R. & J.C. College of Engineering (Autonomous), Guntur, A.P., India**, during 7th October 2021 to 7th July 2022.
35. Participated in a one week faculty development program on "Innovations in Mechanical Engineering" during 26-12-2022 to 30-12-2022, through online mode, organized by the Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Nambur.

36. Participated in a DST-SERB five day faculty development program on “Vehicular Vibrations control with modern suspension system” during 21-08-2023 to 25-08-2023, through online mode, organized by the Department of Mechanical Engineering, NIT Karnataka.
37. participated in Five days Online Faculty Development Program on the topic “RECENT ADVANCEMENT IN SUSTAINABLE ENERGY SOURCES: RESEARCH AND DEVELOPMENT ” Conducted from 26/02/2024 to 1/03/2024 and organized by Department of Physics, Karpagam Academy of Higher Education, Coimbatore, India - 641021

Patent Details:

S.No.	Patent Title	Name of Applicants	Patent No.	Award Date	Country	Status
1)	Advanced Regenerative Vehicle Suspension System With Artificial Intelligence For Energy Recovery	Dr. D. V. V. K. Prasad Dr. K. Praveen Kumar Dr. V. Ramakoteswara Rao Sri Ch. Deva Raj	202441002309 A	23/02/2024	India	Published
2)	Agricultural Robot	Dr.V.Ramakoteswara Rao , Dr.Md.HasheerShaik, Dr.A.Muddu, Sri P.Siddartha, Ms.SnehaH.Dhoria	354860-001	25/01/2023	India	Granted
3)	Humanoid Robot: Intelligent humanoid robot that includes a torso, a pair of arms, two hands, a neck, head, and logic	Dr.C. Tara sasanka Dr. V. Ramakoteswara Rao Dr. Reddy sreenivasulu G. Kishore chowdari Ch deva raj Dr v. Tara chand J. Rangarayachowdary J. Purushottamkarthik Sneha. H. Dhoria Y.n.v. Sairam Kilarisnehita D. Bharathprasanna	202041051209	December, 2020	India	Published