

CURRICULUM VITAE

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PROFILE

- Graduated (B.Tech, ME) from RVR & JC College of Engineering, Guntur, in 2008.
- Master of Engineering (Machine Design) GITAM University, Vizag, in 2011.
- Pursuing Ph.D from Annamalai University (Hybrid Metal Matrix Composites).
- Worked as lecturer, Assistant Professor at the department of ME, RVR & JC College of Engineering, since 2011.

FACULTY DEVELOPMENT PROGRAMMES/WORKSHOPS/SEMINARS/WEBINARS:

- ✓ “Induction Training for Young Engineers” organized by ISTE Chapter, R.V.R.& J.C College of Engineering, Guntur on 6th & 7th September 2011.
- ✓ 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.
- ✓ DST sponsored National seminar on “Futuristic Trends of Nano Composites and their Fabrication”, at R.V.R.& J.C College of Engineering, Guntur on 6th & 7th September 2013.
- ✓ “Induction Training for Young Engineers” organized by ISTE Chapter, R.V.R.& J.C College of Engineering, Guntur on 1-2 May 2015.
- ✓ TEQIP-II sponsored STTP on “Supply chain Management and E- Business”, organized by Mechanical Engineering Department, SVNIT, Surat during 22-26 June 2015.
- ✓ FDP on AUTODESK in NASTRON at MADANAPALLI Institute of Technology, Chittoor.
- ✓ AICTE sponsored short term course (QIP) “ULTRA HIGH PRECISION MACHINE TOOLS – Design and characterization” organized by the Dept. of mechanical engineering from 5th March to 10th March, 2018 at IIT MADRAS.
- ✓ QIP sponsored Short term Course on “Technological Advancement of Polymer Nano Composites”, Organized by Department of Mechanical Engineering, IIT Kanpur, from 4th April -8th April.
- ✓ AICTE sponsored two week Faculty Development Programme on “Emerging Technologies and Challenges in Mechanical Engineering”, organized by Department of Mechanical Engineering, from 21st Oct – 2nd Nov, 2019 at R.V.R & J.C College of Engineering, Guntur.
- ✓ Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Emerging Technologies (IOT, Robotics & UAV)" from 2020-10-12 to 2020-10-16 at Centre for Development of Advanced Computing.
- ✓ Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Mechatronics" from 2020-10-19 to 2020-10-23 at G H Patel College of Engineering and Technology.
- ✓ Participated in 5 day FDP on the theme “ Pedagogical Practices of New India Under National Education Policy, 2020, jointly organized by Tripura University, Manipur University and Assam University during October 7 to October 11, 2020.
- ✓ Attended a National Webinar on “ FUEL CELL HYBRID VEHICLE “ held on 07 OCT, 2020, organized by school of mechanical engineering, Galgotias University, Greater Noida, Uttar Pradesh.
- ✓ Participated in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Elements of FEM**" from 26/07/2021 to 30/07/2021 at Government Engineering College, Bharuch.
- ✓ Participated in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Novel Materials, Fabrication, Design & Optimization**" from 20/09/2021 to 24/09/2021 at Veer Surendra Sai University of Technology, Burla.
- ✓ Participated in One week National level Intercollegiate Online Faculty Development Program on **Outcome Based Education & Bloom’s Taxonomy** organized by the Internal Quality Assurance Cell of Ramakrishna Mission Vivekananda Centenary College (Autonomous), Kolkata in association with IPSR solutions limited 08 November 2021 to 15 November 2021.
- ✓ Attended 5-day faculty development program on “Thermal Science and Materials Engineering” organized by Srinivasa Ramanujan College, Ananthapuramu from 07-11 November, 2022.

- ✓ J.Rangaraya Chowdary, and A.Muddu , five day FDP, ‘Vehicular vibrations control with modern suspension system’, Dept. of ME, NIT Karnataka, Aug.21- 25, 2023.

ONLINE COURSES

- Foundation Programme in ICT for Education (FDP 101X, 201X)Conducted by IIT, BOMBAY -2018.

RESEARCH PAPERS PUBLISHED (JOURNAL/CONFERENCES):

1. V.Tarachand, B.RaviSankar, **J.Ranga Raya Chowdary**, “Exergy analysis of gas turbine power plant”, International Journal of engineering Trends and Technology, Vol4, issue 9, P P 3991- 3993, Sept2013.
2. J.PurushottamKarthik, D.M.Kumar, **J.RangarayaChowdary**, “ Assessment and comparison of fatigue life for heavy truck wheel rim under fully reversed loading for alluminium alloys”, International Journal of Applied Science and Engineering, Vol13, issue1, pp:69-79, June 2015.
3. V.Ramakoteswara Rao, **J.RangarayaChowdary**, A.Balaji, D.Sai Krishna, B.P.R.Bhavabhuthi, G.Sreevatsava, K.Abhiram, “A Review on Properties of Aluminium Based Metal Matrix Composites via Stir Casting”, International Journal of Scientific & Engineering Research, Volume 7, Issue 2, February-2016 742 ISSN 2229-5518
4. PurushottamKarthikJanaswamy , **J. RangarayaChowdary**, C.TaraSasanka , Sameer Kumar Devarakonda,"Life Prediction of Spur Gear Under Fully Reversed Loading Using Total Life Approach and Crack-Initiation Method in FEM", **Aksaray University Journal of Science and Engineering**, 2019, Volume 3 , Issue 2, Pages 82 – 98
5. V. Ramakoteswara Rao, **J. RangarayaChowdary**, S.P. Kumar Gudapati, Fabrication and investigation on mechanical properties of (AA7075/Cr3C2) metal matrix composites, Materials Today: Proceedings, 2019 SCOPUS
6. V. Ramakoteswara Rao, **J. RangarayaChowdary**, S.P. Kumar Gudapati, “Fabrication and investigation on mechanical properties of (AA7075/Cr3C2) metal matrix composites” – published in the proceedings of **ICRAMMES-2019 [International Conference on Recent Advances in Materials, Manufacturing E-Energy Systems]**, organized by V.R. Siddhartha Engineering College, during 3rd & 4th January, 2019.
7. Somayaji, A., Nagaral, M., Anjinappa, C., Alkahtani, M.Q., Billady, R.K., Kumar, N., Auradi, V., Islam, S., Chowdary, J.R.R., Razak, A. and Khan, M.A., 2023. Influence of Graphite Particles on the Mechanical and Wear Characterization of Al6082 Alloy Composites. ACS omega.
8. Papabathina, Mastan Rao, Siva Sankara Babu Chinka, Nageswara Rao Putta, Murkonda Vijaya, Sneha H. Dhoria, Deva Raj Chilakala, Ranga Raya Chowdary Jarubula, and Praveen Kumar Kancharla. "Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites." In *Annales de Chimie Science des Matériaux*, vol. 47, no. 3. 2023.
9. Rao, P.M.,Vijaya, M.,Srinivas, K.,Chowdary, J.R.Vadan, B.J., Optimization of wear parameters & coefficient of friction of SiC and graphite reinforced hybrid aluminium composites, Sigma Journal of Engineering and Natural Sciences, 2023, 41(5), pp. 1019–1028,**DOI:** 10.14744/sigma.2023.00119.
10. P.Mastan Rao, Ch.Deva Raj, Sneha.H. Dhoria, M. Vijaya, and J. Ranga Raya Chowdary, ‘Multi-Objective Optimization of Turning for Nickel-Based Alloys Using Taguchi-GRA and TOPSIS Approaches’, Journal of the Institution of Engineers: Series D, Oct, 2023: 1-12.(Scopus)

CONFERENCES (INTERNATIONAL/NATIONAL):

- “Mechanical Behaviour of TiB₂ Particle Reinforced AA7075 Metal Matrix Composites”, published in the proceedings of National Conference on Advancement in Material Processing Technology, organised by NIT, Jamshedpur during 31st October – 2nd November, 2020.

PATENTS:

- Published a patent on “HUMANOID ROBOT: INTELLIGENT HUMANOID ROBOT THAT INCLUDES A TORSO, A PAIR AN ARMS, TWO HANDS, A NECK, HEAD, AND LOGIC”, on 4-12-2020 at IPR INDIA.
- Published a patent on "ELECTRIC SCOOTER FOR HANDICAPPED".
- Published a patent on “MACHINE LEARNING BASED REAL-TIME ROBOTIC INSPECTION PLANNING AND MAINTENANCE SYSTEM FOR INDUSTRIAL EQUIPMENT” on 09.02.2024.

Guest Lecture delivered:

DST Sponsored 6-Week online Technical Entrepreneurship Development Program from 8th February 2021 to 20th March 2021.

Delivered a hands-on-session on DESIGN THINKING on 19th January, 2024.

Projects received:

Development and Characterization of Boron amp vanadium doped Fe 6.5 (wt%) Si soft magnetic alloy ribbon with TiO₂ coatings – Rs 4,50,000/-

Memberships:

PROFESSIONAL SOCIETIES	Membership Number
Member of International Association of Engineers (IAENG)	126070
Member of SAE	7190410312

