

## Curriculum Vitae

1. Name : **Dr.M.VIJAYA**
2. Date of Birth : 02-08-1979
3. Designation : Assistant Professor
4. Department : Mechanical Engineering
5. Name of Institution : R.V.R. & J.C. College of Engineering
6. Field of Specialization : Hybrid Composites
7. Academic Qualifications :

Degree	University/ Institution	Division/ Equivalent	Year of Passing	Specialization
PhD	Acharya Nagarjuna University	Ph.D Awarded	2021	Hybrid Metal Matrix Composites
M.Tech	RVR&JCCE/ ANU	First Class Distinction	2010	CAD/CAM
B.Tech	A.S.R College of Engineering , JNTU Tanuku	First Class	2002	Mechanical Engineering
Intermediate	B.S.S.B Junior College , Tadikonda	First Class	1998	M.P.C

8. Teaching Experience : 14Years

S. No.	Universities/College	Designation	Period
1	RVR&JCCE, Guntur	Asst. Professor	12-08-2010 onwards
2	MALINENI LAKSHMIAH Engineering college, pulladigunta	Asst. Professor	12/06/2009 to 11/08/2010

9. Areas of Interest:

1. Composites : Materials , Manufacturing and Mechanics
2. Optimization
3. Design

## 10. Subjects Taught :

- Engineering Graphics
- Engineerin Mechanics
- Operations Research
- Machine Drawing
- Applied Mechanics and Mechanical Engineering
- Basic Civil and Mechanical Engineering

<https://scholar.google.com/citations?pli=1&user=FTYSyq8AAAAJ>

<https://www.scopus.com/authid/detail.uri?authorId=57209463925>

<https://scholar.google.com/citations?pli=1&user=FTYSyq8AAAAJ>

## 11. International Journals: 14

Papabathina Mastan RAO , **Murkonda VIJAYA\*** , Kolla SRINIVAS, Deva Raj CHILAKALA, K. Lakshmi CHAITANYA, J. Rangaraya CHOWDARY , Bolleddu James VADAN “Optimization of wear parameters & coefficient of friction of SiC and graphite reinforced hybrid aluminium composites” **Sigma Journal of Engineering and Natural Sciences** Web page info: <https://sigma.yildiz.edu.tr> DOI: 10.14744/sigma.2022.00046 Vol. 41, No. 5, pp. 1–10, October, 2023. [**SCOPUS INDEXD & WEB OF SCIENCE JOURNAL**]

P. Mastan Rao ,Ch. Deva Raj, Sneha H. Dhoria, **M. Vijaya**, J. Ranga Raya Chowdary”Multi-Objective Optimization of Turning for Nickel-Based Alloys Using Taguchi-GRA and TOPSIS Approaches” J. Inst. Eng. India Ser. D **Springer** September 2023. <https://doi.org/10.1007/s40033-023-00554-y> [**SCOPUS INDEXD**]

Papabathina Mastan Rao , Sneha Haresh Dhoria , S Gopal Krishna Patro ,Radha Krishna Gopidesi , Meshel Q. Alkahtani , Saiful Islam **Murkonda Vijaya** , Juturi Lakshmi Jayanthi , Mohammad Amir Khan , Abdul Razak , Raman Kumar , Achmad Rizal ”Muhammad Imam Ammarullah k,l Artificial intelligence based modelling and hybrid optimization of linseed oil biodiesel with graphene nanoparticles to stringent biomedical safety and environmental standards” **Elsevier** Case Studies in Thermal Engineering vol51(2023). <https://doi.org/10.1016/j.csite.2023>. [**SCOPUS INDEXD**]

P. Mastan Rao, Ch. Siva Sankar Babu, P. Nageswara Rao, Ch. Deva Raj, **M. Vijaya**, Sneha. H. Dhoria, K. Praveen Kumar, J. Rangaraya Chowdary "Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composite" *Annales de Chimie - Science des Matériaux* Vol.47 No.2 (2023), 125-132 [**SCOPUS INDEXD & WEB OF SCIENCE JOURNAL**]

K.L. Chaitanya, K. Srinivas and **M. Vijaya** "Optimization of Wear Behaviour of LM26-Gr Composite Using Taguchi Based Grey Relational Analysis" *Turkish Journal of Computer and Mathematics Education* Vol.12 No. 7 (2021), 3148-3156 [**SCOPUS INDEXD JOURNAL**]

**M. Vijaya**, K. Srinivas "Investigation on Mechanical Properties of AA6351/SiC and AA6351/SiC/Gr Composites Fabricated by Stir Casting Method" *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, Volume-8, Issue-1, May 2019.

**M. Vijaya**, K. Srinivas, Ch. Deva Raj "Prediction of Force Convergence and Stresses on a Gear using Coefficient of Friction from Wear test developed in Finite Element Method" *International Journal of "Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-9 Issue-1, October 2019

**M. Vijaya**, K. Srinivas and N.B. Prakash Tiruveedul "Study of Tribological Behaviour of AA6351/SiC/Gr Hybrid Metal Matrix Composite using Taguchi Technique" *Vijaya et al. 2019. Int. J. Vehicle Structures & Systems*, 11(3), 325-329 *International Journal of Vehicle Structures & Systems* Available online at [www.maftree.org/eja](http://www.maftree.org/eja) ISSN: 0975-3060 (Print), 0975-3540 (Online) doi: 10.4273/ijvss.11.3.21

**M. Vijaya**, Dr. K. Srinivas "Development and Mechanical Properties of SiC Reinforced Aluminium Metal Matrix Composites" *Journal of Recent Activities in Production* Volume 3 Issue 1 Apr 2018.

**M. Vijaya**, Dr. K. Srinivas "Brief Review on AL6351" *International journal of trends in scientific Research* Volume 2 | Issue 3 Issn No: 2456 - 6470 Apr 2018 Page: 835 647

Sneha. H. Dhoria, **M. Vijaya**, Y. Yamini A research paper on "Investigation of Mechanical Properties of Al356 Metal Matrix Composites" and was published in the *International Journal of Engineering Trends and Technology - IJETT* Oct, 2016.

**M. Vijaya**, Dr. Kollasrinivas A Research paper on "Synthesis, Characterization and Deformation Studies of Blast Furnace Slag Particles Reinforced Aa2024 Composite was published in *Journal of Thin Films, Coating Science Technology and Application*, Vol.3, Issue 3, pp 31-43, ISSN: 2455- 3344, 2016.

**M. Vijaya**, Dr. Kollasrinivas, "Investigating Mechanical Properties of Borassus Flabellifer Fibre Reinforced Polymer Composites". Published in the proceedings of *JETIR-DEC-2015*, volume 2, Issue 12. ISSN-2349-5162.

S.Radhika, Ch. Srinivasa Rao, K. Lakshmi Chaitanya, **M.Vijaya** “Evolutionary Optimization in MPS: A Brief Review”, Journal of Production Research and Management, Vol.4, No.1 (2014), pp 13 – 21. ISSN: 2249 – 4766.

## 12. Work Shops/Conferences:

- Dr.M.Vijaya,Attend one week national level faculty development program on cloud infrastructure(AWS) organized by RVRJCCE during 21st-25th August ,2023.
- Ms. Dr.M.Vijaya for successfully completing all the modules of the three week online Women Entrepreneurship Development Program (WEDP) sponsored by the Department of Science & Technology, Govt.of India during 21st- August - 8th September, 2023.
- Dr.M.Vijaya, attended one day in the program” Aspire a self-programming into redefining Efficacy” Organised by Alumni Cell & NSS units on 10.03.2023.
- Dr.M.Vijaya, participated in SEBI & NISM sponsored Investor Awareness Program - Financial Literacy for You (FLY) Organized by Department of Mechanical Engineering, R.V.R. & J.C. College of Engineering (Autonomous),Guntur, A.P. from 7th October 2021 to 7th July, 2022
- Dr.M.Vijaya, attended one day in the program” WOMEN PROFESSIONAL MEET UP-2022” Organized by IEEE Hyderabad Section& Guntur subsection with RVRJCCE, Guntur on 23 rd December, 2022.
- This is to certify that Dr.M.Vijaya has completed One week National level Intercollegiate Online Faculty Development Program on Outcome Based Education & Bloom’s Taxonomy organised 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
- Participated in an AICTE Recognized Short term course on “Product Design and Development Through ICT conducted by NIT, Chandigarh From November 6<sup>th</sup>-10<sup>th</sup>
- Participated in an AICTE Recognized Short term course on “ OPTIMISATION USING MATLAB THROUGH ICT conducted by NIT, Chandigarh.

- Participated in an AICTE approved FDP, on Foundation Program in ICT For Education at IIT Bombay Remote Center, during August 3-September 17 2017.
- Participated in an AICTE approved FDP, on Pedogogy For Online and Blended teaching learing process at IIT Bombay Remote Center, during September 14-October 12, 2017.
- National Semior on “Tribology in Design” organized by department of mechanical Engineering by IIT Madras from 7<sup>th</sup> November to 12<sup>th</sup> November,2016.
- National Seminar on “Recent Advances in Mechanical Engineering” by Department of Mechanical Engineering at Lakireddy balireddy college of Engineering during 26-30<sup>th</sup> December 2015.
- Two Day workshop on “Engineering Drawing ”, Under TEQIP-II organized by Department of Mechanical Engineering , Malla Reddy Engineering College (A) , Secunderabad on 12th & 13th September 2014.
- National level conference on “Advances in Mechanical Engineering” 5 – 6 April,2013, NCAME organized by school of mechanical engineering, Vignan University, Vadlamudi, Guntur.
- Attended in National Seminar on “FINETE ELEMENT FORMULATION FOR NANO STRUCTURES” organized by V.R. Siddhartha Engineering College Kanuru, Vijayawada during 19th, 20th August 2011.
- “Induction Training For Young Faculty” organized by ISTE Chapter, R.V.R.& J.C College of Engineering ,Guntur on 7th & 8th September 2009.
- “A National level seminar on “Micro Machining” organized by AICTE & R.V.R.& J.C College of Engineering ,Guntur during Dec19th - 20th, 2008
- Attended in National Seminar on MICROMACHINIG conducted in RVR&JC College of Engineering, Chowdavaram during 19th, 20th Dec.,2008

### 13. Other Responsibilities Handled

- Working as a **Co-Convener** to N.E.S Girls hostel S.V.N Colony.
- **Class In-charge** for UG Students

14. Professional skill set:

- Design Softwares : AUTO CAD
- Manufacturing softwares : MASTER CAM
- Analysis softwares : ANSYS

15. Memberships:

PROFESSIONAL SOCIETIES	MEMBERSHIP NUMBER
Member of International Association of Engineers (IAENG)	138965

[M.Vijaya]