

**Dr.R.VIJAYAPRAKASH B.Tech, M.Tech, Ph.D.**

**Assistant Professor**

**Department of Mechanical Engineering**

**Dr YSR ANU College of Engineering & Technology**

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**Academic Qualifications:**

**Ph.D**–Mechanical Engineering, “**Characterization of Hybrid Metal Matrix Composite (AL 7075/B 4 C/ZrO<sub>2</sub>) and Optimization of EDM Machining parameters using RSM Method**”, Acharya Nagarjuna University, 2021.

**M. Tech**- Computer Integrated Manufacturing,First Class with Distinction(9.04 CGPA),KL University,Vaddeswaram ,2009-2011.

**B.Tech** -Mechanical Engineering, First Class with Distinction(73%), Vignan’s Engineering College, Vadlamudi, India,2004-2008.

**Previous Experience:**

1. Assistant Professor, Department of Mechanical Engineering, KL University,Vaddeswaram.10/05/2011 to 11/08/2012
2. Assistant Professor, Department of Mechanical Engineering, ANU College of Engineering and Technology, Acharya Nagarjuna University, Guntur, 13/08/2012 to till date.

**Subjects Handled in the Department:**

- Engineering Mechanics
- Engineering Drawing
- Kinematics of Machines
- Metallurgy and Material Science
- Design of Machine Elements

- Mechatronics
- Theory of Elasticity and Plasticity
- Mechanics of Fracture and Fatigue

#### **Research Interests:**

- Composite Materials
- Manufacturing
- Advanced Machining
- Optimization Techniques

#### **Research Activities:**

1. No of journal papers published	:12
2. No of conference papers presented	:04
3. No. of workshops, FDP's Organized	:10
4. No of Patents	: 02

#### **Journals:**

1. R.Vijaya prakash, "Mechanical Characterization of Hybrid Reinforcement of Boron Carbide and Zirconium Dioxide in Aluminium 7075Metal Matrix" **LINO Journal**, volume 11, Issue 2, February 2021, ISSN No: 0211-2574 (SCOPUS Indexed).
2. R.Vijaya prakash, "EDM investigation of Al 7075 /B4C/ZrO2 Hybrid metal matrix composite by applying Response Surface Method" , **International Journal Of Advanced Research In Engineering and Technology (IJARET)** ,Volume 12, Issue 3, March 2021, pp. 152-164 , ISSN No: 0976-6499 ( Scopus Indexed)
3. R.Vijaya prakash, "Electrical Discharge Machining Investigation of Al7075 Alloy Reinforced with Boron Carbide and Zirconium Dioxide" **TEST Engineering and Management** , volume 83,March-April 2020,ISSN No: 0193-4120 (SCOPUS Indexed)
4. R.Vijaya prakash, "Experimental Optimization Of Hybrid Reinforcement of Boron Carbide and Zirconium Dioxide in AL7075 Using Ant Colony Optimization", **Journal of Critical Reviews**, Volume 7,Issue 12,ISSN No: 2394-5125 (SCOPUS Indexed).

5. R.Vijaya prakash “Preparation and Characterization of ZA27-Alumina-Graphite Reinforced Hybrid Composites”, **Materials Today: Proceedings 18 (2019) 57–65,ISSN NO: 2214-7853 (SCOPUS Indexed).**
6. R.Vijaya prakash,” Taguchi Method & Fuzzy Logic Parametric Augmenting & Supplementing of MIG Welding On 304 AISI Stainless Steel”, **International Journal of Engineering Development and Research, 2018 | Volume 6, Issue 2 | ISSN: 2321-9939 (UGC APPROVED).**
7. R.Vijaya prakash, “Static analysis of mono leaf spring with different composite materials”,**Journal of Mechanical Engineering Research Vol. 5(2), pp. 32-37, February 2013 (UGC APPROVED).**
8. R.Vijaya prakash, “EXPERIMENTAL INVESTIGATION AND TRIBOLOGICAL PROPERTIES OF METAL MATRIX MATERIAL USING WEAR TEST”**International Journal of Research Sciences and Advanced Engineering, Thomson Reuters Research ID: D-1153- 2018, Volume 2, Issue 27, PP: 47 - 58, JUL - SEP’ 2019. (UGC APPROVED).**
9. R.Vijaya prakash “STRUCTURAL ANALYSIS OF STAR ANKLE JOINT IMPLANT ON DIFFERENT LOAD CONDITIONS AND MATERIALS”. **International Journal of Research Sciences and Advanced Engineering, Thomson Reuters Research ID: D-1153- 2018, Volume 2, Issue 27, PP: 59 - 64, JUL - SEP’ 2019. (UGC APPROVED).**
10. R.Vijaya prakash, “STRUCTURAL ANALYSIS OF CONNECTING ROD USING ANSYS WITH DIFFERENT MATERIALS”, **Journal of Applied Science and Computations, ISSN NO: 1076-5131, Page No: 196-204,Volume IX, Issue IX, September/2022.**

**11. R.Vijaya prakash, “SHAPE OPTIMIZATION OF OFF-HIGHWAY HEAVY TRUCK CHASSIS”, International Journal of Current Science (IJCSPUB), ISSN NO: 2250-1770, Page No: 507-520, Volume 12, Issue 03, and September/2022.**

**12. R.Vijaya prakash, “Fatigue Analysis of An Off-Highway Vehicle Chassis Rear Rail Structure Using Finite Element Approach”, International Journal of Current Science (IJCSPUB), ISSN NO: 2250-1770, Page No: 416-427, Volume 12, Issue 03, September/2022.**

**Conferences:**

- 1. R.Vijaya prakash “Static analysis of Composite mono leaf spring” NCRAME 2011,July 2011,Page no:417-421.**
- 2. R.Vijaya prakash “Design and Analysis of Mono Composite leaf Spring With and Without Bonded End Joints for Light Weight vehicles” FTME-2011.**
- 3. R.Vijaya Prakash “Static and Modal Analysis of Skyscrapers Roller Bearing Using Finite Element Analysis” NCRAME-2017.**
- 4. R.Vijaya Prakash “Static and Fracture Analysis of Disc brake Using Finite Element Analysis” NCRAME-2017**