

Curriculum Vitae

Dr. Vijaykumar Bommala,
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Education Background

PhD: PhD in Metal Matrix composite Biomaterials (**June 2017 – May 2022**), in the Department of Mechanical Engineering, **Acharya Nagarjuna University, A.P,** and India.

Thesis Title: In-Vitro Characterization on AZ91D/TCP reinforced Magnesium matrix composite.

Supervisor: **Dr. M. Gopi Krishna.**

M.Tech: Master of Technology in Computer Aided Design & Manufacturing (CAD/CAM), Dec 2012 – Dec 2014 at **Chirala Engineering College, JNTU Kakinada,** A.P, and India.

Percentage Obtained: 76.5

Thesis Title: Characterization on Ply-Behavior of a GFRP laminated composite plates.

Supervisor: **Prof. Y Venu Babu.**

B.Tech: Bachelor of Technology in Mechanical Engineering, July 2008 – April 2011 at **Narasaraopeta Engineering College, JNTU Kakinada, A.P,** India.

Percentage Obtained: 65.4

Research Interests

- Metal Matrix composites
- Bio-materials
- Characterization
- In-vitro studies

Citations & H-Index

- Citations - 139
- H-Index - 01

Total Work Experience (7.5 years)

Teaching Experience: Two years and Five months (2.5 years)

- Worked as Assistant Professor in the Department of Mechanical Engineering, **Narasaraopeta Engineering College (Autonomous)**, Guntur, from 1st Jan 2015 to 31th May 2017.

Research Experience: Five years (5 years)

- Research Scholar (Ph. D) in the Department of Mechanical Engineering, **Acharya Nagarjuna University**, Guntur, from June 2017 to till date.

Academic Achievements

- Obtained **UGC-JRF Fellowship, Ragive Gandhi national fellowship** in the year **2015-2017**.
- Best paper award from “**Journal of Magnesium Alloys**”, **Elsevier**, 2019.
- Published Book Chapter in Taylor and Francis, 2020.
- **Published Indian patent**, Jan-2021.

Patent

- Patent application no: **202141001560 A** – A MAGNESIUM-BASED COMPOSITE BIOMATERIAL WITH IMPROVED CORROSION RESISTANCE, Published, 2021.

Book Chapter: (International)

- **Vk Bommala, M.Gopi Krishna**, “**Magnesium Metal Matrix composites for Biomedical applications**”, CRC Press, Taylor and Francis, pp 273-292, 2020

Publications

International Journals:

1. **Vijaykumar Bommala**, Dr.M.Gopi Krishna, Ch.TirumalaRao, “Magnesium matrix for biomedical applications: A review” Journal of Magnesium alloys, **Elsevier**, vol 7, 2019, 72-79, (SCIE).
2. **Vijaykumar B**, Y Venu Babu “An investigation on ply Behaviour in a GFRP composite Laminated plate”, IJRSET, Vol 3, Issue 11, 2014, 17341-17350.
3. **Vijaykumar Bommala**, Dr.M.Gopi Krishna, “Microstructure and Mechanical characterization of AZ91D/TCP reinforced composite fabricated by stir casting method”

Journal of Minerals, Metals & Material society, **Springer, (Communicating), (SCI)** .

4. **Vijaykumar Bommala, Dr.M.Gopi Krishna**, “Dry sliding wear behaviour of TCP reinforced AZ91D Mg alloy Metal Matrix Composite” Materials Today Communication, Elsevier, **(Communicating), (SCIE)** .

Workshops and Training Programs Attended

1. Attended a 05 Day Faculty development program on “Recent advances in Metal Matrix Composites & High Entropy alloys” at Acharya Nagarjuna University, Guntur, during 21st-25th January 2019.
2. Attended a 06 Days Research training program on “Research Methodology, Design and Analysis of Experiments” at RVR&JC College of Engineering, during 12th-17th November 2018.
3. Attended a 14 Days FDP on “New frontiers in multiscale modeling of Advanced Materials” at Narasaraopeta Engineering college, during 10th-25th November 2017

Subjects Taught

- Engineering Graphics
- Machine Drawing
- Metrology
- Robotics
- Industrial Automation
- Design of Machine Elements

CAD Software's

- * AutoCAD (Drafting)
- * Pro-E (Modeling)
- * Ansys (Analysis)

Permanent Address

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(Dr. Vijaykumar Bommala)