

RAJESH ANGIREKULA

Department : Mechanical Engineering
College : Seshadri Rao Gudlavalleru Engineering College
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ACADEMIC QUALIFICATIONS

- ❖ Ph.D. - Manufacturing Engineering (Pursuing, registered in Oct, 2019)
- ❖ M. Tech. - Machine Design
- ❖ B. Tech. - Mechanical Engineering

SPECIALIZATION:

- ❖ Manufacturing Engineering (Ph.D.)
- ❖ Machine Design (M.Tech. – P.G.)

PROFESSIONAL EXPERIENCE:

Designation	University/College	Period
Asst. Professor	Seshadri Rao Gudlavalleru Engineering College	15-07-2016 to till date
Asst. Professor	R.V.R&J.C College of Engineering and Technology	09-07-2015 to 14-07-2016

TECHNICAL SKILLS:

Design Software Tools : PROGE CAD, CATIA
Analysis Software Tools : ANSYS, Hyper Mesh
Utility Software Tools : MS Word, Excel, PowerPoint

SUBJECTS HANDLED:

- ❖ Engineering Drawing
- ❖ Computer Aided Engineering Drawing
- ❖ Engineering Mechanics
- ❖ Mechanics of Solids
- ❖ Materials Engineering
- ❖ Kinematics of machines

LABORATORIES HANDLED:

- ❖ Mechanics of Solids Lab
- ❖ Engineering mechanics Lab
- ❖ Engineering Workshop
- ❖ Computer Aided Engineering Drawing

AREAS OF INTERESTS:

- ❖ Composite Materials
- ❖ Additive Manufacturing

PROJECTS GUIDED:

Ph.D.	Post-Graduation	Under Graduation
Nil	Nil	11 + 1* (Guiding)

GRANTS FETCHED:

- ❖ Received a grant of **Rs. 30,000/-** for the project titled “**Investigation of Mechanical and Metallurgical Properties of Agro Waste Reinforced Aluminum Metal Matrix Composite**” under In – House R & D Scheme, Gudlavalleru Engineering College, Gudlavalleru in the academic year 2021 - 22.

PUBLICATIONS

JOURNALS: 05

- ❖ Published a paper on “**Optimizing process parameters for enhancing mechanical properties of aa6061 composites reinforced with walnut shell ash and silicon carbide**”, Applied Engineering Letters, Vol. 9, No. 4, 16th December 2024, pp. 232 – 246, DoI: <https://doi.org/10.46793/aeletters.2024.9.4.5> (Scopus)
- ❖ Published a paper on “**An Investigation on the Influence of Sic-Particulates Reinforcement On the Mechanical Behaviour of Al 6061/Sic Composites**”, Journal of Advancements in Material Engineering, Vol. 10, Issue 1, 2025, <https://doi.org/10.46610/joame.2025.v10i01.001>
- ❖ Published a paper on “**Study on mechanical properties of Al-6061/ZrO₂ reinforced metal matrix composites**”, Materials Today: Proceedings, Vol. 47, part 14, 2021, pp. 4552 – 4557, doi: <https://doi.org/10.1016/j.matpr.2021.05.424>. (Scopus)
- ❖ Published a paper on “**wear and electrochemical corrosion behaviour of nano ZRO₂**”

reinforced AA7075 metal matrix composites", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 9, Issue 03 (2019), ISSN: 2249-6890, pp: 793 – 802.

- ❖ Published a paper on **“Comprehensive Review on the AA356 Composite: Mechanical Properties, Fatigue, Wear, and Physical and Chemical Properties”**, in International Journal of Innovative Science and Research Technology (IJISRT), Vol. 9, Issue 7 (2024), ISSN: 2456 – 2165, doi: <https://doi.org/10.38124/ijisrt/IJISRT24JUL396>

CONFERENCES: 02

- ❖ Presented a research paper on **“Design and Analysis of Composite Leaf Spring”** for Conference ICRAMMES-2019 on Jan-2019 at V R Siddhartha Institute, Vijayawada
- ❖ Attended International conference on **“Materials for Energy and Environmental Protection”** on Feb 2018 at Sir C R Reddy College, Eluru

LIST OF PATENTS: 02

- ❖ Published a patent on title **“Sustainable Co-Pyrolysis Process for Converting Plastic waste And Wood Biomass into Energy Products”** on 10.01.2025.
- ❖ Published a patent on title **“An Automotive Alloy Wheel Rim”** on 04.11.2024.

LIST OF WORKSHOPS ORGANIZED: 04

- ❖ Organized a 2-week hands on training on **“Product Design and Drafting by CATIA”** for IV-year Mechanical Engineering students in the academic year 2023-24.
- ❖ Two Week Skill Development Program for faculty on **“CATIA”** during 18th to 30th July 2022 organized by Department of Mechanical Engineering in Seshadri Rao Gudlavalleru Engineering College.
- ❖ Organized a Two Weeks Value Added Course on **"CATIA"** for II-year Mechanical Engineering students in academic year 2022-23.
- ❖ Organized a 1 Week Summer Training Programme on **"Autodesk Inventor"** for III-year Mechanical Engineering students in academic year 2017-18.

LIST OF WORKSHOPS / SEMINARS ATTENDED: 21

- ❖ Attended ATAL One Week Faculty Development Program on **“Machine Learning and its Prospects in Manufacturing & Industry 4.0”** organized by Department of Mechanical Engineering, SRGEC, Gudlavalleru, during 10-02-2025 to 15-02-2025
- ❖ Attended Two Week Online Faculty Development Program on **“Advances in Mechanical**

Engineering” organized by Department of Mechanical Engineering, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, during 02-12-2024 to 13-12-2024.

- ❖ Attended One Week Faculty Development Program on “**Robotics and Industrial Automation**” organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, during 04-11-2024 to 09-11-2024.
- ❖ Attended One Week Faculty Development Program on “**Smart Materials and Research Opportunities**” organized by Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Nambur, during 27th may 2024 to 31st may 2024.
- ❖ Attended One Week Virtual Faculty Development Program on “**Current trends in Mechanical Engineering-Case Studies from Industries & Acadamia to promote Innovation, Design Thinking and Startups**” organized by Department of Mechanical Engineering, SVECW, Bhimavaram, during 20th may 2024 to 25th may 2024.
- ❖ One week Faculty Development Programme on “**Recent Advances in Mechanical Engineering**” organized by Department of Mechanical Engineering, In Association with NSRIT-SAE India and ASME Students Chapters (05.06.2023 to 09.06.2023).
- ❖ Two weeks Faculty Skill Development Programe on “**CATIA**” organized by Department of Mechanical Engineering, SRGEC, Gudlavalleru (18.07.2022 to 30.07.2022).
- ❖ One week Faculty Development Programe on “**APPLICATIONS OF AI , ML AND DATA SCIENCE**” organized by Department of Artificial Intelligence, KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES, Guntur (12.12.2022 to 17.12.2022).
- ❖ One week Faculty Development Programe on “**Emerging Trends in Mechanical Engineering**” organized by Department of Mechanical Engineering, SRGEC, Gudlavalleru (20.06.2022 to 25.06.2022).
- ❖ One week Faculty Development Programe on “**Progressive Trends in Mechanical Engineering**” organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada (28.03.2022 to 01.04.2022).
- ❖ One week Faculty Development Programe on “**Recent Trends in Thermal Engineering**” organized by Department of Mechanical Engineering, SRGEC, Gudlavalleru (06.09.2021 to 10.09.2021).
- ❖ One week Faculty Development Programe on “**Additive Manufacturing: The Research Scopes & Future Trends**” organized by Department of Mechanical Engineering, Santhiram Engineering College, Nandyal (22.05.2020 to 28.05.2020).
- ❖ National seminar on “**Advances in Bio materials for Medical Applications (ABMA-2014)**” organized by Department of Mechanical Engineering, R.V.R & J.C college of

Engineering.

- ❖ National seminar on “**Ethics and Human Values in Engineering**” organized by Department of Mechanical Engineering, R.V.R & J.C college of Engineering.
- ❖ National seminar on “**Development of tools using Biomaterials for Medical applications**” organized by Department of Mechanical Engineering, R.V.R & J.C college of Engineering.
- ❖ Participated in AICTE-ISTE sponsored one week refresher course in “**Computational Fluid Dynamics**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College on 18th -23rd June 2018
- ❖ Participated in Two-day Faculty Development Program on “**MATLAB and its applications**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College on 8th -9th February 2018
- ❖ Participated in One day workshop on “**Outcome Based Education**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College on 9th December 2017
- ❖ Participated in Two-day Faculty Development Program on “**Training on ProgeCAD**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College on 6th – 7th December 2017
- ❖ Participated in One-Week Refresher course on “**Finite Element Analysis**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College on 19th – 24th June 2017.
- ❖ Attended One Day workshop on "**Characterization of Metal Matrix Composites**" Organized by Department of Mechanical Engineering, Gudlavalleru Engineering College, Gudlavalleru, sponsored by IE(I) on 11th August, 2018.

CERTIFICATIONS: 04

- ❖ A 12-week online certification course on "**Mechanics of Solids**" organized by NPTEL (National Programme on Technology Enhanced Learning).
- ❖ A 8 week online certification course on "**Engineering Mechanics**" organized by NPTEL (National Programme on Technology Enhanced Learning).
- ❖ A 12-week online certification course on "**Computer Aided Engineering Drawing**" organized by NPTEL (National Programme on Technology Enhanced Learning).

- ❖ Completed a certificate course on “**FUNDAMENTAL DESIGN USING CATIA(CAD)**” conducted by CIPET, Vijayawada during 18.05.2022 to 10.06.2022.

GUEST LECTURES DELIVERED: 01

- ❖ Two Week Skill Development Program for faculty on “**CATIA**” during 18th to 30th July 2022 organized by Department of Mechanical Engineering in Seshadri Rao Gudlavalleru Engineering College.

MEMBERSHIP IN PROFESSIONAL BODIES: 02

- ❖ Associate member (AM1843233) in The Institution of Engineers (India).

Departmental Responsibilities Handled (Past Years):

- ❖ Co-Coordinator – Department Exams
- ❖ Coordinator – NBA Criteria 8
- ❖ Member – NBA Criteria 4
- ❖ Member – NBA Criteria 3

Departmental Responsibilities Handling (Present Academic Year):

- ❖ Coordinator – NBA Criteria 3
- ❖ Co-Coordinator – Department Exams
- ❖ Dassault Lab Faculty In-charge
- ❖ CAD/CAM Lab Faculty In-charge

(A.Rajesh)

Assistant Professor