

Department : Mechanical Engineering
College : Seshadri Rao Gudlavalleru Engineering College
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RESIDENTIAL ADDRESS:

H. No: 5-8-48, Billa Vari street, Date of birth: 01 July 1983 Ithanagar, Tenali-522201

ACADEMIC QUALIFICATIONS:

❖ Ph. D	- Doctoral Degree (Mechanical Engineering) Andhra University, Visakhapatnam, Andhra Pradesh, India.
❖ M.Tech	- Master's Degree (Machine Design) NIT Rourkela, Orissa, India
❖ B. Tech	- Bachelor's Degree (Mechanical Engineering) GITAM College of Engineering, Visakhapatnam, Andhra Pradesh, India

ACADEMIC REWARDS / ACHIEVEMENTS:

- A certification course on “**Robotics**” organized by National Programme on Technology Enhanced Learning, during Jul-Sep 2023 (12weeks) and secured **Elite plus Gold** with 94% with TOP 1%
- A certification course on “**Engineering Drawing and Computer Graphics**” organized by National Programme on Technology Enhanced Learning, during August 2021- October 2021 (12weeks) and secured **Elite plus Gold** with 91% with TOP 5%
- A certification course on “**Introduction to Mechanical Vibration**” organized by National Programme on Technology Enhanced Learning, during 5 Feb 2018- 30 March 2018(8 weeks) and secured **Elite plus Gold** with 92% with TOP 1%
- Got GATE rank of 2200 in 2006 in GATE Engineering sciences

PROFESSIONAL EXPERIENCE

Designation	University/College	Period
Assistant Professor	Gudlavalleru Engineering College	June 2014 - Present
Assistant Professor	K L University, Krishna District, A.P, India.	Nov 2012 – Jun 2014
Assistant Professor	Laki Reddy Bali Reddy Engineering College, Krishna District, A.P, India	Sep 2010 – Nov 2012
Assistant Professor	Sasi Engineering College, Tadeppalligudem, W.G District, A.P,	Sep 2008 – Aug 2010

	India.	
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PROJECTS GUIDED

PhD	Post Graduation	Under Graduation
Nil	4	26

SPECIALIZATION:

- ❖ Machine Design

RESEARCH PAPERS / BOOKS

BOOKS PUBLISHED IN PUBLICATIONS: Nil

PAPERS PUBLISHED IN JOURNALS:

- ❖ **Journals:**
 - National :** Nil
 - International:** 7
- ❖ **Conferences:**
 - National :** Nil
 - International:** 08

Journals:

a) **National:** Nil

b) **International:**

- **Dr L Ramesh:** *Modal analysis of composite plate by using ANSYS:* International Journal of Research In Aeronautical and Mechanical Engineering, Volume 12(7), Pages 1-11, July 2024, ISSN No. 2321-3051
- **Lanka Ramesh,** and Putti Srinivasa Rao: **Vibration Based Damage Detection in Plate-like Structure Using Square of Mode Shape Curvature,** European Journal of Computational Mechanics, Volume 28, Issue 4, 03 September 2019,1-34. (ESCI)
- **Mr. L. Ramesh: Accurate Characterization of Crack in Beam-Like Structures Using Square of Curvature Mode Shape: Without Baseline Data,** Journal of Mechanical Engineering Research & Developments (JMERRD), Volume 42, Issue 2, 20 March 2019,58-66. (Scopus Indexed journal)
- **Mr. L. Ramesh: Vibration-Based Damage Detection of Beam-Like Structures Using Discrete Wavelet Transform,** Applied Engineering Letters, Vol.3, No.4, 115-123(2018), e-ISSN: 2466-4847 (Scopus Indexed journal)
- **Mr. L. Ramesh: Damage Detection in Structural Beams Using Model Strain Energy Method and Wavelet Transform Approach,** Elsevier Materials today: proceedings 5(9):19565-19575. (Scopus Indexed journal)

- **Mr. L. Ramesh: Vibration Analysis of an Un-cracked & Cracked Fixed Beam by using analytical and FEM**, SSRG International Journal of Mechanical Engineering (SSRG-IJME) –Special Issue May -2017, SSN: 2348 –8360.
- **Mr. L. Ramesh: Crack Detection in Structural Beams by using Curvature Mode Shape**, International Journal of Advance Research and Innovative Ideas In Education, July 2016, 03(02):2349-6010.
- **Mr. L. Ramesh: Experimental and Finite Element Model Analysis of an un-cracked and cracked Cantilever beam**, International Journal of Advanced Technology and Engineering Exploration, January 2016,3(1):1266-1274.

Conferences:

a) International:

Participated in 8th International conference on material processing and Characterization (ICMPC2018) “**Damage detection in structural beams using model strain energy method and wavelet transform approach**” conducted by the Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad, Telangana in Collaboration with Maulana Azad National Institute of Technology (MANIT), Bhopal, M.P, during 16-18 March, 2018.

PATENTS:

- **Dr L Ramesh** published a patent entitled *Design and Fabrication of Bluetooth Controlled Robotic Arm for Automated Food Handling* with application no. 20244110153B, in official journal of patent on 03 January, 2025
- **Dr L Ramesh** published a patent entitled *Design and Fabrication of Hybrid Dryer* with application no. 202441048345A, in official journal of patent on 5 July, 2024.
- **Dr L Ramesh** published a patent entitled *Garbage Detection Model using Yolo* with application no. 202441045226A, in official journal of patent on 21 June, 2024.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Organized a one-week workshop on **Simulation Using Multi-Physics** during 3-9 May 2023.
- ❖ Organized 4 day hands on **Training Program on Geometric Modelling, Dimensioning And Tolerances** by using CATIA in oct 2024
- ❖ Organized one day guest lecture on **HVAC Design And Applications** in Sep 2024.
- ❖ Organized one day Guest Lecture on **Outcome based Education** , in July 2017.

LIST OF WORKSHOPS / SEMINARS ATTENDED:

External

- **Dr L Ramesh:** A one week Online Faculty Development Program on Smart Diagnostics: AI and *Machine Learning for Vibration Analysis in Machinery and Structures* organized by Gayatri Vidya Parishad College of Engineering, Visakhapatnam, during 11-15 November 2024.
- **Dr L Ramesh:** A one week Online Faculty Development Program on *Machine Learning Algorithms and Exploratory Analysis* organized by Gayatri Vidya Parishad College of Engineering, Visakhapatnam, during 11-15 November 2024.
- Two Day Faculty Development Programme on “**Advances in Manufacturing**” with the resource persons Dr. A. Krishnaiah, Professor, College of Engineering, Osmania University, Hyderabad, Dr. K. Siva Prasad, Associate Professor, NIT-Trichy, Dr. C. Sathyanarayanan, Associate Professor, NIT-Trichy, Dr. P. Vamsi Krishna, Associate Professor, NIT-Warangal and Dr. G. Venkatesh, Assistant Professor, NIT-Warangal during 16 - 17 November 2018.
- Five-day faculty development program on “**Industrial Robotics**” conducted by APSSDC-SIEMENS Projects at APSSDC-SIEMENS Centre of Excellence, V.R Siddhartha Engineering College, Vijayawada, during 23-27 April 2018.
- Two-day National workshop on “**Recent advances in structural health monitoring (RASHM-2016)**” organized by Department of Mechanical Engineering, Andhra University, Visakhapatnam, 25-26 October 2016.
- Two-day workshop on “**Finite Element Analysis of structures (FEAST) Software**” jointly organized by PVP Siddhartha Institute of Technology, Vijayawada and Indian Society of Systems for Science and Engineering (ISSE)-Amaravati Chapter and India Space Research Organization (ISRO) on 3-4 August 2017.
- One-week faculty development programme on “**MATLAB applications in mechanical Engineering**” gudlavalleru engineering college during 7-11 September 2015.
- Participated in the two-day National Seminar on “**Metallurgy for Non-Metallurgists**” organized by TRA Education & Research Foundation, Hyderabad and Department of Metallurgical, Hyderabad and Materials at Mahatma Gandhi Institute of Technology Hyderabad during 29-30 of January, 2015.
- A one Day National workshop on “**Alternative Energies-A Thrust on Solar Thermal & photo Voltaic**”, in K L University, Vadeswaram, on 28 December 2012.
- One Week workshop on “**Advanced Mission 10X faculty empowerment workshop**” sponsored by Wipro Mission, LBRCE, Mylavaram during 19-20, Jan 2012.
- Two-week staff development program on “**Imparting Soft Skills and Modern Teaching Methods to the Engineering College Faculty Members**” organized by the SASI Engineering College, Tadepalligudem, Andhra Pradesh, during 5-16 April 2010.

Internal

- ❖ Participated in one-week AICTE sponsored ATAL FDP on “**Machine Learning and its prospects in Manufacturing & Industry 4.0**” from 10-02-2025 to 15-02-2025, Organized

by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleru.

- ❖ Participated in Online Faculty Development Programm on "**Machine Learning Applications in Mechanical Engineering**" from 03-02-2025 to 14-02-2025, Organized by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleruin collaboration with ICT NIT Warangal.
- ❖ Participated in one-week online Faculty Development Programme on "**Applications of Artificial Intelligence and Machine Learning in Mechanical Engineering**" from 06-2023 to 10-03-2023, Organized by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in Two-week Skill Development Programme on "**CATIA**", from 18-07-2022 to 30-07-2022, Organized by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in one week Virtual Faculty Development program on "**Emerging trends in Mechanical Engineering**", from 20-06-2022 to 26-06-2022, Organized by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in One Week Faculty Development Programme on "**Recent Trends in Thermal Engineering**", from 06-09-2021 to 10-09-2021, Organized by Department of Mechanical engineering,Seshadri Rao Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in three-day Online Faculty development program on "**Recent trends in Electric Vehicles-Phase-I**" from 17th to 19th March,2021, Organized by Department of Mechanical engineering, Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in two-dayFaculty development program on "**Design and Analysis of Experiments**" on 30th August, 2019 at Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in two-dayFaculty development program on "**Advances in Manufacturing**" on 16th and 17th November 2018 at Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in one-dayworkshop on "**Characterisation of metal matrix Composites**" on 11th Aug 2018 at Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in one-week Refresher course on "**Computational Fluid Dynamics**" from 18th to 23rd June 2018 at Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in two-dayfaculty development program on "**Matlab and its Applications**" on 8th and 9th Feb 2018, at Gudlavalleru Engineering college, Gudlavalleru.
- ❖ Participated in one-dayworkshop on "**Outcome based Education**" on 9th Dec 2017, at Gudlavalleru Engineering College,Gudlavalleru.
- ❖ Participated in two-dayFaculty Development Program on "**Training on Progecad**" on 6th

and 7th DEC 2017 at Gudlavalleru Engineering college,Gudlavalleru.

- ❖ Participated in one-week refresher course on "**Finite Element Analysis**" from 19th to 24th June 2017 at Gudlavalleru Engineering College,Gudlavalleru.

CERTIFICATIONS:

- ❖ A certification course on "**Robotics**" organized by National Programme on Technology Enhanced Learning, during Jul-Sep 2023 (12weeks) and secured **Elite plus Gold** with 94% with TOP 1%
- ❖ A certification course on "**Engineering Drawing and Computer Graphics**" organized by National Programme on Technology Enhanced Learning, during August 2021- October 2021 (12weeks) and secured **Elite plus Gold** with 91% with TOP 5%
- ❖ A certification course on "**Introduction to Mechanical Vibration**" organized by National Programme on Technology Enhanced Learning, during 5 Feb 2018- 30 March 2018(8 weeks) and secured **Elite plus Gold** with 92% with TOP 1%
- ❖ A certification course on "**Strength of Materials**" organized by National Programme on Technology Enhanced Learning, during 30 July,2018- 28October,2018 (12 weeks) and secured Elite with 78%
- ❖ A certification course on "**Mechanics of solids**" organized by National Programme on Technology Enhanced Learning, during 24 July 2017- 13 October 2017 (12 weeks) and secured Elite with 75%
- ❖ A certification course on "**Engineering Mechanics: Statics And Dynamics**" organized by National Programme on Technology Enhanced Learning, during 28 January 2019- 31 March 2019(8 weeks) and secured Elite with 64%
- ❖ A certification course on "**Engineering Mechanics: Statics And Dynamics**" organized by National Programme on Technology Enhanced Learning, during 5 Feb 2018- 30 March 2018(8 weeks) and secured Elite with 65%

GUEST LECTURES DELIVERED: Nil

MEMBERSHIP IN PROFESSIONAL BODIES:

- ❖ Member in Institute of Engineers(**IE**) India
- ❖ Member in Society for Automotive Engineers(**SAE**) India

CONSULTANCY ACTIVITIES: Nil

GRANTS FETCHED: Nil