

Dr. J A RANGA BABU

Department : Mechanical Engineering
College : Gudlavalleru engineering college
Phone No : 08672-250208
Mobile : 9441128584
E-Mail : rangababu.gec@gmail.com

RESIDENTIAL ADDRESS:

D.No: 19/622, Circar Thota, Machilipatnam, Andhra Pradesh -521002

ACADEMIC QUALIFICATIONS:

- ❖ PhD : Thermal Engineering.
- ❖ M.Tech : CAD/CAM
- ❖ B.Tech : Mechanical Engineering

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Associate Professor	Gudlavalleru Engineering College, Gudlavalleru	01.06.2018 to Till Date
Assistant Professor	Gudlavalleru Engineering College, Gudlavalleru	31.05.2012 to 31.05.2018
Head of the Department	AANM & VVRSR Polytechnic, Gudlavalleru	01.06.2010 to 30.05.2012
Sr. Lecturer	AANM & VVRSR Polytechnic, Gudlavalleru	01.07.2008 to 31.05.2010
Lecturer	AANM & VVRSR Polytechnic, Gudlavalleru	01.07.2003 to 30.06.2008

PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
Nil	Nil	2

SPECIALIZATION: Thermal Engineering

RESEARCH PAPERS / BOOKS:

BOOKS PUBLISHED IN PUBLICATIONS: Nil

PAPERS PUBLISHED IN JOURNALS:

Journals:	National	:	00
	International	:	05+2
Conferences:	National	:	03
	International:		08+1

Journals:

a) **National**

b) **International**

- J.A. Ranga Babu, K. Kiran Kumar, S. Srinivasa Rao, "State-of-art review on hybrid nanofluids" Renewable and Sustainable Energy Reviews, 77 (2017) 551-565.
- [Ranga Babu J.A.](#), [Kiran Kumar K.](#), [Srinivasa Rao S.](#), (2018) "Thermodynamic analysis of hybrid nanofluid based solar flat plate collector", World Journal of Engineering, Vol. 15 Issue: 1, pp.27-39, <https://doi.org/10.1108/WJE-03-2017-0048>
- J.A. Ranga Babu, K. Kiran Kumar, S. Srinivasa Rao, "Numerical Anlysis And Validation Of Heat Transfer Mechanism Of Flat Plate Collectors" Proceedia Engineering, 127 (2015) 63-70.
- K Vijaya Kumar, P Shailesh, K. Srinivasa Raghavan, J A Ranga Babu & P Ravi Kumar, "Performance and Emission analysis of Diesel Engine with Design Modifications on Piston Crown" International Journal of Ambient Energy, DOI: 10.1080/01430750.2018.1517664.
- Pereddy Nageswara Reddy, J A Ranga Babu, "Solar Organic Cogeneration Plant for Electrification and Air-conditioning of Residential Buildings and Domestic Hot Water" Journal of The Institute of Engineers (India) Series C.

PAPERS PUBLISHED IN CONFERENCES:

a) National

- J.A.Ranga babu, K.Kiran kumar, D.Mohan Krishna, “An Over View On Preparation And Estimation Of Nanofluid Properties” Proceedings of National Conference NCIET 2013, GEC - Gudlavalleru, 27-28th December 2013, ISBN: 978-4275-5484-7.
- J A Ranga babua, K. Kiran Kumar, S.Srinivasa Rao, “Nanofluids in Solar Flat Plate Collectors- A Review” National Symposium of Mechanical Engineering Research Scholars NSMERS-2016, NIT Warangal 7th Oct, 2016.
- “Performance and Emission Characterization of CI Engine with Design Modifications in Piston: Inducing Turbulence by Swirl” National Symposium of Mechanical Engineering Research Scholars NSMERS-2016, NIT Warangal 7th Oct, 2016.

b) International

- J A Ranga babua, K. Kiran Kumar, S.Srinivasa Rao, Shivam Shukla, “Numerical Analysis of Flat Plate Collectors thermal performances and validation of heat transfer mechanism” International Conference on New Frontiers in Chemical, Energy and Environmental Engineering INCEEE-2015, NIT Warangal 23rd - 24th Nov 2015.
- J A Ranga babua, K. Kiran Kumar, S.Srinivasa Rao, “CFD Analysis of hybrid nanofluid based Solar Flat Plate Collector” International Conference on Recent Trends in Engineering, Science and Technology, ICRTEST-2016, Hyderabad, India.
- Kareddula Vijaya Kumara, P Shailesh, J A Ranga babu, Ravi Kumar Puli “Preparation and Characterization of GFRPC Material” 5th International Conference of Materials Processing and Characterization, ICMPC 2016. Hyderabad, India.
- J A Ranga Babu, D.MohanKrishna, P.Satyanarayana “Evaluation of Mechanical Properties of Slag Reinforced Polymer Composite” International Conference on Energy and Engineering-2014, ICEE-2014, Hyderabad, India.
- Kareddula Vijaya Kumar, Ravi Kumar Puli, A Veeresh Babu, J.A. Ranga Babu, “Performance and Emission Evaluation of Plastic Oil blended with Diesel Fuel in Compression Ignition Engine” International Conference on Energy and Engineering-2014, ICEE-2014, Hyderabad, India.
- K. Srinivasa Raghavan, K Vijaya Kumar, J A Ranga babu, P Shailesh, “Experimentation and Characterization of CI Engine Performance with Design Modifications in Piston: By

Inducing Turbulence” International Conference on Paradigms in Engineering & Technology - ICPET-2016.

- P Shailesh, Kareddula Vijaya Kumar, K Srinivasa Raghavan, Ravi Kumar Puli, J A Ranga Babu, “Experimental Investigation of Diesel Engine with Design Modifications in Piston: Inducing Turbulence by Swirl” International Conference on Recent Trends in Engineering, Science and Technology, ICRTEST-2016, Hyderabad, India.
- J A Ranga Babu, K Kumara Swamy, M. Kamal Tej, N. Prem Das, P Satyanarayana, “Evaluation of Heat Transfer Characteristics of a Minichannel with Nanofluids” International conference on materials for energy and environmental protection- ICMEEP-2018, CR Reddy College of Engineering, Eluru, India.

LIST OF WORKSHOPS / CONFERENCES /SEMINARS ATTENDED:

- Attended Two Day Faculty Development Program on “Advances in Manufacturing”, organized by the Department of Mechanical, Gudlavalleru Engineering College, Gudlavalleru during 16th – 17th November 2018.
- Attended One Refresher Course on “Computational Fluid Dynamics”, organized by AICTE – ISTE, and Department of Mechanical, Gudlavalleru Engineering College, Gudlavalleru during 18th – 23rd June 2018.
- Attended Two Day Training Program on “MATLAB, Simulink and Related Tool Boxes”, organized by Capricot Technologies Pvt. Ltd. in Gudlavalleru Engineering College, Gudlavalleru during 8th – 9th February 2018.
- Attended 5 Day GIAN course on Thermal Management of Electronics” organized by department of Mechanical Engineering, NITW, Warangal during 30th October to 3rd November -2017.
- Attended Two day national workshop on “Advances in Sustainable Energy Studies” organized by department of mechanical Engineering, NITW, Warangal during 1st and 2nd November 2014.
- Participated in one Day Workshop on “Thermodynamics Solution and Practice using MATLAB”, organised by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 18th February 2013

- Attended One Week Workshop on “Training Teachers for Excellence”, organised by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 29th April to 4th May 2013.
- Participated in one Day Workshop on “DFX Product Design Excellence”, organised by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 17th September 2012.
- Participated in Two Day Workshop on “best practices in production”, organised by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 20th and 21st July 2012.
- Participated in two Day National Seminar of “Applications of Finite Element Methods in Engineering” organised by GEC, Gudlavalleru during 8th and 9th 2011.
- Two day national seminar on “Role of natural fibre composites as future materials” Organised by Dept of Mechanical Engineering, VR Siddhartha Engineering college during 11th and 12th March 2010.

GUEST LECTURES DELIVERED: 01

Delivered a guest lecture on “**Nanofluids and its Engineering Applications**” at Eluru college of Engineering and Technology, Eluru, West Godavary, Andhra Pradesh.

MEMBERSHIP IN PROFESSIONAL BODIES:

- MIE(I) – M – 163706-6.

Declaration

I hereby declare that the details furnished above are true to my knowledge.

GUDLAVALLERU.

Yours Faithfully,

Date

Dr. J.A. Ranga babu.