

Dr. M.R.Ch. SASTRY

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ACADEMIC QUALIFICATIONS:

- ❖ Ph.D (2016) : Impingement Heat Transfer.(JNTUH , Hyderabad)
- ❖ M.Tech (1998) : Industrial Metallurgy (REC Warangal)
- ❖ B.Tech (1996) : Mechanical Engineering (Krishnadevaraya University,Ananthapur)

AREAS OF INTEREST:

Thermodynamics, Fluid Mechanics, Heat transfer and CFD

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Professor & Vice-Principal (Academics)	Gudlavalleru Engineering College, Gudlavalleru.	December 2020 to till date
Professor & Head	Gudlavalleru Engineering College, Gudlavalleru.	July 2017 to Nov.2020
Professor	Gudlavalleru Engineering College, Gudlavalleru.	July 2016 to June 2017
Associate Professor	Gudlavalleru Engineering College, Gudlavalleru.	August, 2005 to June 2016
Assistant Professor	Gudlavalleru Engineering College, Gudlavalleru.	October,1998 to August, 2005

PAPERS PUBLISHED IN JOURNALS:

- ❖ A paper published on “Experimental Investigation on the performance of Vortex Tube”, Advanced Materials Research, Vol. 1148, June 2018.
- ❖ A paper published on “Experimental Investigation on VCR DI Diesel Engine Fuelled with Dual Bio – diesel Blends of Palm and Jatropa”, International Journal of Modern Trends in Engineering and Research (IJMTER), Vol. 4, Issue. 8, August 2017.

- ❖ A paper published on “Vortex Flow over the flat plate and backward facing step”, IOSR Journal of Engineering (OSRJEN), Vol. 7, Issue 4, April 2017.
- ❖ A paper published on “Experimental and computational study of fluid flow on a flat plate with three rectangular impinging slot jets”, Indian Journal of Engineering & Materials Sciences, Vol. 22, Dec 2015.
- ❖ A paper published on “Study of fluid flow on a flat Plate with Multiple Rectangular impinging slot Jets” International Journal of Engineering trends and Technology (IJETT), Volume 13 Number 2 ISSN: 2231-5381 pp86-92.
- ❖ A paper published on “Simulation Studies on Two- Dimensional Electronic Board with Multiple non identical Heat Sources” Applied Mechanics and Material Vols. 592-594(2014) pp 17769-1783.
- ❖ A paper published on “Fluid Flow and Heat Transfer Analysis of Laminar Multiple Square Jets impinging on a Flat Plate”, International Journal of Engineering Research & Applications, ISSN: 2248-9622, Vol. 2, Issue 6. 2012
- ❖ A paper published on “Fluid Flow and Heat Transfer Analysis of Turbulent Multiple Circular Jets Impinging on a Flat Plate”, International Journal of Engineering Research & Applications, ISSN: 2248-9622, Vol. 2, Issue 5, pp. 1976-1985. 2012.
- ❖ A paper published on “Comparative Analysis of Performance and Emissions of an Engine with Palm Oil Biodiesel Blends with Diesel”, International Journal of Engineering Science and Technology, Vol. 3, Issue 3, 2011.

PAPERS PUBLISHED IN CONFERENCES/WORKSHOPS:

- ❖ A paper presented on “Experimental Investigation of Flow Over Different Geometrical Objects in an Open Channel”, in National Conference on Emerging Trends in Mechanical Engineering (ETME 2019) conducted by Department of Mechanical Engineering, National Institute of Technology, Warangal, Telangana State, Sponsored by TEQIP – III during 9th – 10th January 2019.
- ❖ A paper presented on “Study of Fluid Flow on a Flat Plate with Rectangular Impinging Slot Jet” at 7th International and 45th National Fluid Mechanics and Fluid Power Conference (FMFP – 2018) organized by IIT Bombay, Mumbai during 10th – 12th December 2018.
- ❖ A paper presented on “Vortex Flow over the Flat Plate and Backward Facing Steop”, is presented in International Conference on Emerging Multidisciplinary Research and Computational Intelligence – 2016 organized by Dhumra Mahate Information and Communications Technology Associates and S.R.K.R. Engineering College, Bhimavaram on 15th – 16th December 2016.
- ❖ A paper presented on “Thermodynamic Modeling of Rice Husk Gasification” In International Conference on Energy and Sustainability in Engineering Systems (ICESSES2014) at department of mechanical engineering, Coimbatore Institute of Technology, Coimbatore during 16th to 18th December, 2013

- ❖ A paper presented on “CFD Analysis of Heat Transfer on a Flat Plate with Semi - Confined Circular Impinging Jet” in National conference on Innovations in Engineering & Technology (NCIET 2013) at Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 27th-28th December, 2013.
- ❖ A paper presented on “CFD Analysis of Laminar Multiple Square Jets Impinging on a Flat Plate” International conference on Innovations and Emerging Trends in Mechanical Engineering at Dept. of Mechanical Engineering & Technology, Bangalore on 11th may, 2012
- ❖ A paper presented on “Study of fluid flow on a flat plate with five rectangular impinging jets” in national conference on Fluid Mechanics and Fluid Power (MCFMFP-2012) at National Institute of Technology, Surat on 15th-17th December, 2012.
- ❖ A paper presented on “Study of fluid flow on a flat plate with three rectangular impinging jets” in national conference on Fluid Mechanics and Fluid Power (MCFMFP-2011) at Maulana Azad National Institute of Technology, Bhopal on 15th-17th December, 2011.
- ❖ A paper presented on “Study of fluid flow on a flat plate with multiple rectangular impinging jets” Recent Advances in Mechanical Engineering (NCRAME) at R.V.R.&J.C College of Engineering, Guntur during 7th-8th July, 2011.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Coordinator for One Week AICTE-ISTE Sponsored Refresher Course in "Computational Fluid Dynamics" at Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 18th - 23rd June, 2018
- ❖ Coordinator for Two week ISTE Workshop on “Fluid Mechanics” hosted by Dept. of Mechanical Engineering in association with IIT Kharagpur at Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from May 20, 2014 to May 30, 2014.
- ❖ Coordinator for Two-Day Workshop on “Best Practices in Production” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 20th to 21st July, 2012.

LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:

- ❖ Participated in the NPTEL Workshop conducted by IIT Madras at Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 06.12.2018.
- ❖ Participated in Two - Day Faculty Development Program on “Advances in Manufacturing” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 16th – 17th November, 2018.

- ❖ Participated in IE(I), APSC sponsored One - Day Workshop on “Characterization of Metal Matrix Composites” organized by Dept. of Mechanical Engineering Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 11th August, 2018.
- ❖ Participated in AICTE-ISTE sponsored One - Week Refresher Course in “Computational Fluid Dynamics” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 18th – 23rd June, 2018.
- ❖ Participated in One – Week Faculty Development Program on “Computational Fluid Dynamics” organized by Dept. of Mechanical Engineering, VVIT, Pedakakani, Guntur Dist. from 29th April – 3rd May, 2018.
- ❖ Participated in Two - Day Training / Orientation on “MATLAB, Mimulink & Related Tool Boxes” organized by Capricot Technologies Pvt., Ltd., Authorized distributors of Math Works for the state of Andhra Pradesh at Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 8th – 9th February, 2018.
- ❖ Participated in Two - Day Faculty Development Program on “MATLAB and Its Applications” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 8th – 9th February, 2018.
- ❖ Participated in One - Day Workshop on “Out Come Based Education” organized by Dept. of Mechanical Engineering Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 9th December, 2017
- ❖ Participated in One – Week Faculty Development Program on “Advances in Mechanical Engineering” organized by Dept. of Mechanical Engineering, VVIT, Pedakakani, Guntur Dist., from 23rd – 27th October, 2017.
- ❖ Jury Member in District Level 44th Jawaharlal Nehru National Science, Mathematics and Environment Exhibition – 2016 held at Father Bianchi Girls High School, Gudivada from 30th November, to 1st December, 2016.
- ❖ Participated in One – Week Coordinators’ Workshop on “Fluid Mechanics” conducted by Indian Institute of Technology, Kharagpu from 11th – 15th March, 2014.
- ❖ Participated in Two – Week ISTE Workshop on “Engineering Mechanics” conducted by Indian Institute of Technology, Bombay from 26th November, – 6th December, 2013.
- ❖ Participated in One - Day Workshop on “Thermodynamic Solutions and Practice Using MATLAB” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 18th February, 2013.

- ❖ Participated in One - Day Workshop on “DFX – Product Design Excellence” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 17th September, 2012.
- ❖ Participated in the International Workshop on “Challenges and Prospects in Power Generation Systems Using Biomass” organized by CO₂ Research and Green Technologies Centre, School of Mechanical and Building Sciences, VIT University, Vellore from 27th – 28th July, 2012.
- ❖ Participated in Two-Day Workshop on “Best Practices in Production” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 20th to 21st July, 2012.
- ❖ Participated in a Two – Week ISTE Workshop on “Computational Fluid Dynamics” conducted by Indian Institute of Technology Bombay at PVPSIT, Vijayawada from 12th to 22nd June, 2012. This workshop was held under the National Mission on Education through ICT (MHRD)
- ❖ Participated a Three Day Internal Faculty Development Programme on “Engineering Drawing” conducted by Dept. of Mechanical Engineering and Civil Engineering from 22nd to 24th November, 2011.
- ❖ Participated in AICTE Sponsored Two - Day Seminar on “Applications of Finite Element Methods in Engineering” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 8th – 9th July, 2011.
- ❖ Participated in One Day Workshop on “Computational Fluid Dynamics” organized by the Dept. of Mechanical Engineering, LBRCE, Mylavaram on 18th March, 2011.
- ❖ Participated in One – Day Workshop on “Current Trends in Biofuels” ” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 23rd October, 2010.
- ❖ Participated in AICTE sponsored Faculty Development Program on “Integration of Computer based Methodologies in Mechanical Engineering Systems” (ICMMES 09) conducted by the Dept. of Mechanical Engineering MVGR College of Engineering, Vizianagaram from 25th May to 6th June, 2009.
- ❖ Participated in Two – Day Workshop on “Computational Fluid Dynamics: Basics & Applications” organized by the Dept. of Mechanical Engineering, BVC Engineering College, Odalarevu, Amalapuram from 5th – 6th April, 2008.
- ❖ Participated in AICTE Sponsored Three – Day National Seminar on “Applications of Optimization Techniques in Mechanical Engineering” organized by the Dept. of Mechanical

Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru from 18th – 20th January, 2008.

- ❖ Participated in the Short – Term Training Programme on “Computational Fluid Dynamics” conducted by Dept. of Mathematics and Humanities, NIT, Warangal from 15th – 19th January, 2007.
- ❖ Participated in the Workshop on “Computational Methods in Engineering” jointly organized by Dept. of Mechanical Engineering and Chemical Engineering, GMR Institute of Technology, Rajam from 7th – 8th October, 2006.
- ❖ Participated in the Short – term Course under Quality Improvement Programme on “Instructional Design and Delivery” conducted by National Institute of Technical Teachers Training & Research, Chennai Government of India Ministry of Human Resource Development from 3rd – 8th July, 2006.
- ❖ Participated in Two – Day Workshop on “Robotics & Automation” organized by Dept. of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, from 9th – 10th February, 2007.
- ❖ Participated in Short term refresher course under Quality Improvement Programme for Engineering Faculty on “Applied Thermodynamics” conducted by LBRCE, Mylavaram from 5th – 9th December, 2005.
- ❖ Participated in AICTE Sponsored One – Day National Level Workshop on “Biodiesel – The Future Fuel” organized by the Dept. of Mechanical Engineering, G. Pulla Reddy Engineering College, Kurnool on 20th November, 2004.
- ❖ Participated in the Short – term intensive course on “Finite Element Methods” conducted by the Dept. of Mechanical Engineering, Vignan’s Engineering College from 12th – 16th May, 2003.
- ❖ Participated in the Short Course on “Instructional Design and Delivery” conducted by Technical Teachers Training Institute, Chennai from 21st - 26th April, 2003
- ❖ Participated in the short course on “Compact Heat Exchangers” by Dr. Ramesh K. Shah, Sr. Staff Research Scientist, Delphi Harrison Thermal Systems, Lockport, NY 14094-1896, USA & Visiting Professor, College of Engineering, GITAM organized by College of Engineering GITAM, Visakhapatnam from 5th – 6th March, 2001.
- ❖ Participated in the short – Term Training Program under QIP on “Fatigue and Fracture Related Life Prediction Techniques” conducted by Dept. Applied Mechanics & Mechanical

Engineering, Indian Institute of Technology Madras, Chennai from 27th November, 2000 to 1st December, 2000.

- ❖ Participated in One – Day Workshop on “Flexible Automation in Manufacturing” organized by the Dept. of Mechanical Engineering, V.R. Siddhartha Engineering College, Vijayawada on 17th December, 1999.
- ❖ Participated in Refresher course on “Engineering Graphics & Engineering Mechanics” organized by ISTE, A.P. Section at JNTU Hyderabad from 21st – 31st October, 1998.

GUEST LECTURES DELIVERED:

- ❖ A Guest Lecture on “Computational Fluid Dynamics” at PBR Visvodaya Institute of Technology, Kavali on 4th October 2018.
- ❖ A Guest Lecture on “Computational Fluid Dynamics using ANSYS, MATLAB & C Programming” at Andhra Loyola Institute of Engineering and Technology, Vijayawada on 7th June 2018.

MEMBERSHIP IN PROFESSIONAL BODIES:

- ❖ MISTE
- ❖ MIE
- ❖ FMFP

GRANTS FETCHED:

- ❖ Received a grant of Rs. 3.00 Lakhs from AICTE – ISTE for One Week Refresher Course on “Computational Fluid Dynamics” during 18th - 23rd June, 2018
- ❖ Received In – House R & D grant of Rs. 0.18 Lakhs for the project titled “Studies on Flow Visualization of Jet Impingement” during Ac.Yr. 2013-2014.
- ❖ Received In – House R & D grant of Rs. 0.18 Lakhs for the project titled “Analysis of Cold Flow Fluidization Test Results for Various Biomass Fuels” during Ac.Yr. 2007-2008.