

Profile in Brief



Name : KADIRI SURESH KUMAR
Designation : Head of the Department,
Department of Mechanical Engineering,
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Date of Birth : 03-07-1969
Aadhaar No. : 999098918904
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Degrees Obtained:

Degree	University	Field of Specialization	Year of passing	Class
M.Tech	J.N.T.U., Hyderabad	Energy Systems	1993	First Class
B. Tech	S.V. University, Tirupati	Mechanical Engineering	1991	First Class

Years of Experience: 30 Years

S.No.	Name of the Institution	Designation	Period
1	K.S.R.M. College of Engineering, Kadapa	Adhoc Lecturer	1994-1997
2	K.S.R.M. College of Engineering, Kadapa	Lecture / Assistant Professor	1997 - 2005
3	K.S.R.M College of Engineering, Kadapa	Associate Professor	2005 – Till date

Projects Guided:

Name of the Degree	Total Number of students/batches
M.Tech.	3
B.Tech.	30

Memberships in Professional Bodies:

1. Life Member in the ISTE (LM 27634)
2. Life Member of IE(I) (M1254779)

PAPERS PUBLISHED:**INTERNATIONAL JOURNALS:**

1. "Enhancing Mechanical Properties by Parameter Optimization in Fibre and Particle Reinforced Composites", Journal of Polymers and Composites, ISSN: 2321-8525 Volume 13, Issue 2, 2025, pp 75 to 85.
2. "Experimental Investigations on the use of Bitter apple oil in a Low Heat Rejection Supercharged Engine "Industrial Engineering Journal, ISSN: 0970-2555, Vol:53, Issue 7, July 2024
3. "Effect of Heat Transfer in a Cylindrical Fin Body by Varying its Geometry & Material", IJIRAE Journal, Volume 1, Issue 8, September 2014, pp 286-291.
4. "Effect of Pilot Fuel Quantity on the Performance and Emission Characteristics of a Pre-Mixed CNG-Diesel Dual Fuel Mode Engine", IOSR Journal of Mechanical and Civil Engineering, Vol. , Issue 2, Sep-Oct, 2013, pp 01-09.
5. "An Effective and Efficient Analysis of the Thermal Barriers in the Diesel Engine Piston", IJESR, Vol., Issue 10/4903-4905, October 2013.
6. "Performance, Emissions and Combustion Characteristics of a Low Heat Rejection Supercharged Engine using Thumba Oil" in IJMERE, Vol. 3, Number 3, 2013, pp 239 - 248.
7. "Investigations on the use of CNG in a Compression Ignition Engine" Engineering Today, August 2006, pp 20-23.
8. "Three Zone Model to Predict the Performance of a Four Stroke Direct Injection Diesel Engine," Engineering Today, Vol. VII, October 2005, pp 20-23.

CONFERENCES:

1. Published a paper titled "An Experimental Investigation on Green House Emissions Reduction in Diesel Engine Fuelled with Moringa Oleifera Biodiesel – Diesel-Carbon Black Water Emulsion Blends" in Proceedings of ICASET 2021 organised by KSRM College of Engineering, Kadapa
2. Published a paper titled "Energy Conservation and Approaches to Energy auditing" in Proceedings of the All India Conference on Advances in Mechanical Engineering organised by S.V. University, Tirupati, A.P. August 20-21, 2004.
3. "Design of Curricula for Under Graduate Academic Programme in Non-Conventional Energy Systems" at national conference on Renewable Energy Sources and their Technologies for Rural Development during 9-10 March, 2002 at S.S.G.M. College of Engineering, shegaon.
4. "Design of a Stand Alone Photovoltaic System for a Rural Hospital" in the Proceedings of National Conference on Advanced Trends in Mechanical Engineering Research and Development (MINAC – 2001), organised by Department of Mechanical Engineering JNTU, Anantapur on 18 October, 2001.
5. "Numeric Solutions of developing Flow in a Vertical Channel" in the National Conference on Advanced Trends in Mechanical Engineering Research and Development organised by Department of Mechanical Engineering JNTU, Anantapur held during June 22 – 23, 2000 by JNTU, Anantapur.
6. "Implications of Information Technology in India" in the All India seminar on information Technology held on march 15, 2000 by Institution of Engineers – Kadapa Local Centre.

7. “E- commerce An Overview” in the All India Seminar on information Technology held on March 15, 2000 by Institution of Engineers – Kadapa Local Centre.
8. “Energy Audit – a Case Study, A Polymer Industry Boiler House” in proceedings IX ISME Conference on Mechanical Engineering held during Nov 10 – 11, 1994 by Department of Mechanical Engineering, University of Rooree, Roorkee.

PATENTS PUBLISHED:

1. **“HYBRID 3D PRINTER WITH FLEXIBILITY IN ALL THE 3 AXES PRINTING”**

FDPs/ Workshops/ Webinars Attended/Participated:

1. Participated in the 9 Day National Level Online Faculty Development Program on “Foregrounding the Spectrum of Character Building in Modern Human Life” organizes by Department of Humanities & Sciences from 25 June to 03 July 2021 by Balaji Institute of Technology & Science Warangal Rural, Telangana
2. Participated in the One Week National Level Online Faculty Development Program on “Research Practices in Thermo-Fluid and Renewable Energy Systems” organized by Department of Mechanical Engineering from 28/06/2021 to 03/07/2021 by Sreenidhi Institute of Science & Technology - Hyderabad, Telangana
3. Participated in the Three day National Level Online Faculty Development Program on “Industry 4.0: Advanced Manufacturing” organized by Department of Mechanical Engineering from 18/06/2021 to 20/06/2021 by K.S.R.M. College of Engineering, Kadapa
4. Participated in One Day National Level Online Webinar on “Introduction to CFD and Numerical Techniques Based on the Scale Approaches” organized by Department of Mechanical Engineering, Annamacharya Institute of Technology & Sciences:: Rajampet, Andhra Pradesh on 7th June, 2021.
5. Participated in One Day National Level Online Workshop on “An Overview on Patents and Procedure for Protection” organized by Patent Information Center, Francis Xavier Engineering College, Tirunelveli, Tamilnadu, on 5th June, 2021.
6. Participated in National Level Online Workshop on “Fundamentals of Research Article Writing” organized by School of Engineering and Technology, Centurion University, , on 4th June, 2021.
7. Participated in Online Webinar on “Data Science Approach for Mechanical Engineers” organized by Department of Mechanical Engineering, Vignan Institute of Technology and Sciences, Deshmukhi on 4th June, 2021.
8. Participated in the Three day workshop on “CATIA” organized by Department of Mechanical Engineering in association with “Dassault Systems” from 20/03/2021 to 21 /03/2021 by K.S.R.M. College of Engineering, Kadapa
9. Participated in the APSSDC Online Faculty Development Program on “Vehicle Dynamics Setup using MBD” organized by APSSDC in association with Dassault Systems from 10/05/2021 to 14//05/2021 by APSSDC Andhra Pradesh.
10. Participated in the Two-Day National Workshop on “Computing software’s for Water Resource Engineering and Management” organized by Department of Civil Engineering, KSRMCE, Kadapa during 20th & 21st of March, 2021.

CERTIFICATIONS/ACHIEVEMENTS:

1. Awarded Top 2% certificate in the eight week (Jul- Sep 2021) course Power Plant Engineering conducted by NPTEL
2. Secured 2nd rank in MBA Entrance Test in the year 1995 conducted by Dr. B.R. Ambedkar Open University.

OTHER ACTIVITIES:

1. Worked as Additional Controller of Examinations from 10/4/2017 to 16/01/2025
2. BOS member for Mechanical Engineering Department from 2014 to till date
3. R&D Team Member from 2012 to 2016
4. General Warden for the Hostel Kandula from Aug. 2007 to Nov. 2012
5. Treasurer for ALUMINI Association from 2000 to 2006
6. Secretary for ALUMINI Association from 2006 to 2013
7. Acted as coordinator for Sports and Games Committee from 1997 to 2000
8. Acted as Department Time- table In Charge for 3 years
9. Member in Disciplinary Committee for two years