



Dr. SURENDAR ELUMAGANDLA

Phd, M.Tech(Thermal) , MS(Mech), MISTE

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. Associate Professor , Mechanical Engineering

Areas of Interest: Heat Transfer, Thermodynamics, I.C. Engines

Specialized in Thermal Engineering.

Research interests include Heat Transfer, I C Engines & Thermodynamics

Profile :

- 9+ years of Teaching Experience in handling various academic subjects and responsibilities of engineering students.
- 4+ years of Experience as an Assistant section Manager.
- Ratified as an Associate Professor under Kakatiya University.
- Good Hand in undertaking the live Academic Projects of B.Tech and M.Tech students.
- Goal-oriented individual with strong leadership capabilities.
- Chairman for SAMYOJANA' 2017.
- A life member in Indian Society of Technical Education and training.
- Proven ability to work in union with multiple disciplines.
- Effective communication, good analytical and decision-making ability, Superior motivational skills.

Educational Qualification :

- **"Doctor of Philosophy"** in Mechanical Engineering (Thermal) awarded from **University of Allahabad** in March,2016. on a Title **"Experimental Investigation of Heat transfer Enhancement in a double pipe heat exchanger using Nano Fluids"**.
- **Master of Science** in Mechanical Engineering from University of Norway, United Kingdom with 73.25% in April 2008.
- **Master of Technology** in Thermal Engineering from JNTU College of Engineering, Hyderabad with 75.71%.
- **Bachelor of Technology** in Mechanical Engineering from Kakatiya Institute of Technology and Science, Warangal with First class in July,2001.
- **Diploma** in Mechanical Engineering from Government of Polytechnic, Warangal with First class in June 1996.

Professional Experience :

Warangal Institute of Technology and Science, warangal.

June 2012- Till Date

Designation : Associate Professor &Head Of The Department

working profile:

- Appointed as an **Assistant Professor** in mechanical engineering department in june 2012.
- Taken the Additional charge as **Head of the Department for Civil Engineering Department** in October,2013.
- In April 2014 , taken the charge as **Head of the Department for Mechanical Engineering**.
- Ratified as an **Associate Professor** under Kakatiya University.
- Actively provided valuable guidance for the students to plan their career growth as a **Project Convener**.
- Actively handled different academic Engineering subjects for B.Tech and M.Tech.

- Actively taken initiation in conducting and attending the national level workshops for career development.
- Taken initiation and worked for the Establishment of different laboratories.
- Taken initiation in conducting college annual day, fresher's, farewell and graduation day celebrations. Chairman for SAMYOJANA' 2017.
- worked as **staff club President** as a social responsibility and to build a strong relation among staff to create a good working environment from 2013 to 2015.

Jhon Lewis Partnership uk.Ltd.

June 2008- May 2012.

Designation : Assistant section Manager

working profile :

- Rolling stock counts and other action plans
- Follow up on maintenance actions.
- Preparation of staff rota.
- Preparation of weekly health and safety checklist.
- Waste administration.
- Organizing KPI conference meeting.
- Compliance team meeting with territory compliance manager.

Balaji Institute Of Technology and Science, Warangal.

October 2005- september 2006.

Designation: Assistant Professor

Working profile :

- Taught different engineering subjects such as Engineering Drawing, Hydraulics and hydraulic machinery, Operation Research ,Thermal engineering-I, etc..
- Departmental Co-Ordinator for the SHRESHTAH-2006 (A National level technical symposium)
- Placements Co-Ordinator from the department of college.
- Actively provided valuable guidance for the students to plan their career growth.

Sree Kavitha Engineering College, Khammam.

December 2001- september 2005

Designation: Assistant Professor

Working profile :

- Taught different engineering subjects such as Engineering Drawing, Hydraulics and hydraulic machinery, Thermal engineering-I, mathematical modeling and simulation, heat transfer, non- conventional energy sources..etc.
- Taken initiative to start local ISTE chapter for staff and students.
- Member in college ISO 9001: 2000 Committee.
- Established machines lab, Instrumentation lab with high state of art equipments.
- Worked as In-Charge of the Examination Branch in college.
- Actively provided valuable guidance for the students to plan their career growth.

RESEARCH

► PUBLICATIONS

S.NO	NAME OF THE JOURNAL	ISSN. No		Month & Year of Publications	TITLE of PUBLICATION
		Online Version	Printed Version		
1	International Research Journal of Engineering and Technology (IRJET)	2395-0056	2395-0072	October,2015	Performance Evaluation of Four Dtroke Single Cylinder C.I Engine Using Diesel and Methanol- Diesel Blended Fuel as Alternate Fuels
2	International Journal of Latest Trends in Engineering and Technology (IJTET)	2278-627X	2319-3778	Nov,2015	Evaluating the Performance of solar water Heating System
3	International Research Journal of Engineering and Technology (IRJET)	2395-0056	23950072	Nov,2015	EFFECTS OF NANOFUID ON HEAT TRANSFER CHARACTERISTICS OF SHELL AND TUBE HEAT EXCHANGERS: EFFECT OF ALUMINIUM OXIDE (Al ₂ O ₃) NANOFUID.
4	INTERNATIONAL JOURNAL OF TECHNOLOGY ENHANCEMENTS AND EMERGING ENGINEERING RESEARCH (IJTEEE)	2347-4289		Dec,2015	ADVANCED DIGITAL FUEL METER AND ELECTRONICALLY CONTROLLED DEVICES
5	International Journal of Latest Trends in Engineering and Technology (IJTET)	2278-621X		JUNE,2016	DESIGN AND FABRICATION OF SPHERICAL S-TURBINE
6	International Journal of Latest Trends in Engineering and Technology (IJTET)	2278-621X		JUNE,2016	DESIGN AND FABRICATION OF CONCENTRIC TUBE HEAT EXCHANGER
7	International journalof Mechanical And production engineering	2320-2092		October,2016	DESIGN AND OPTIMIZATIONOF VANE ROTARY PUMP IMPELLER WITHVARYING LOADS AND MATERIALS
8	International journalof Mechanical And production engineering	2320-2092		October,2016	PROCESS PARAMETERS OPTIMIZATION FOR BETTER SURFACE ROUGHNESS AND MATERIAL REMOVAL RATE OF ALUMINUM ALLOYS
9	International journalof Mechanical And production engineering	2320-2092		October,2016	ANALYTICAL INVESTIGATION OF PROPELLANT FLOW OF WALL STRUCTURE FOR A BI-PROPELLANT THRUSTER

National Conferences Attended:

- Participated in International conference on “Next Generation Education for Entrepreneurial Engineers (ICNGE³)” held on 10th, 11th, March’2014, Organized by S.R Engineering College, Warangal

Workshops Attended:

1. Participated in the ONE DAY Work Shop on “**How to Foster Entrepreneurship Among engineering students**” held on 29th July’2004, Organized by JNTU, Hyd.
2. Participated in a TWO DAYS Work shop on “**Mathematical modeling and simulation**” held on 29th, 30th July’2006, Organized by Vagdevi College of Engineering, Warangal.
3. Participated in a TWO DAYS Work shop on “**Challenges and advances in renewable energy sources**” held on 20th, 21st Sept ’2013, Organized by KITS, Huzrabad .
4. Participated in a FOUR DAYS Training Program on “**Engineering college faculty on Upgradation of skills**” held on 16th, Nov’2013 to 07th, Dec’2013, organized by “Office of the District Collector”, Warangal.
5. Participated in a TWO WEEKS Work shop on “**Engineering Mechanics**” held on 26th, Nov’2013 to 06th, Dec’2013, organized by IIT, Mumbai under MHRD.
6. Participated in a TWO WEEKS ISTE Work shop on “**Fluid Mechanics**” held on 20th, 30th, May’2014, organized by IIT, Kharagpur under MHRD.
7. Participated in a TWO DAYS Work shop on “**Advances in sustainable Energy Studies (ASES)**” Sponsored by TEQIP Phase –II held on 1st, 2nd, Nov ’2014, Organized by NIT, Warangal.
8. Participated in a ONE DAY Work shop on “**CNC programming and machining**” held on 13th, Dec’2014, Organized by KITS, Warangal.
9. Participated in a TWO WEEKS FDP on “**FEM and its Applications**” held on 22nd, Dec’2014 to 03rd, Jan’2015. Organized by Jayamukhi institute of technology, Warangal.

10. Participated in a ONE WEEK Workshop on “**Design of experiments and optimization methods**” held on 14th Dec’2016 to 20th Dec 2016, Organized by Jayamukhi institute of technology, Warangal.

11. Participated in a ONE WEEK FUP on “**Product Design and Manufacturing**” held on 02nd, Jan’2017 to 06th, Jan’2017. Organized by C-DAC, Hyderabad in association with Telangana Academy for Skill and Knowledge (TASK).

12. Participated in a ONE DAY workshop on “**Industrial Tribology and Vibrations**” held on 07th Jan’2017, Organized by Vignana Bharathi institute of technology, Ghatkesar, R.R Dist.

National Level Workshop Conducted :

- Taken initiation as advisory committee incharge from mechanical department in conducting the national level technical symposium (**MECHANOVA**) was conducted on 24th, 25th, April’2014 organized by Department of Mechanical Engineering in the Campus.
- Taken initiation as program **chairman** in conducting the first national level workshop (**MEREMONT’15**) was conducted on 24th, 25th, July ‘2015 Titled on “**VEHICLE OVERHAULING**”, organized by Department of Mechanical Engineering in the Campus.

External Duties Attended:

- In-Charge for **B.Tech** ,third year students in Dec-2016, Visted “Kakathiya Thermal Power Plant KTHPP”, Chelpur from WITS, Warangal as part of Industrial visit.
- In-Charge for **Diploma** ,final year students in Nov-2016, Visted “Kakathiya Thermal Power Plant KTHPP”, Chelpur from WITS, Warangal as part of Industrial visit.
- Attended as a **Guest Faculty** to teach Engineering Subjects in different colleges viz. KU College of Engineering and Govt. Polytechnic, parkal.
- Attended KU College of Engineering and Govt. Polytechnic, warangal for **Spot Evaluation**.
- Attended as **route officer and observer** for the TSPSC constable examination held on 31st, July’2016 in Warangal.
- Attended as a **surveyor** for “TELANGANA INTENSIVE HOUSE HOLD SURVEY” held on 19th, Aug’2014 in Warangal.
- Attended as a external Examiner for conducting Heat Transfer Lab For III-B.Tech II-sem in Vizier Sultan Engineering College in April’2014
- Attended as a external Examiner for conducting IC Engines LAB For III-B.Tech I-sem in Chaithanya College of Engineering in Nov’2014.
- Attended as a Internal Examiner for conducting different labs like(IC Engines, R&AC, Heat transfer LAB) For B.Tech with respective Academic semester.
- Attended as an Internal Examiner for conducting different labs like (Automation & robotics, Vibrations, CAD LAB) For M.Tech with respective Academic semester.
- In-Charge for Final year students in 2004-2005, Visted “Kothagudem Thermal Power Plant KTHPP”, palvancha from Sree Kavitha Engineering College as part of Industrial visit.
- Attended as a **Guest Faculty** to teach Engineering Subjects in different colleges viz. KU College of Engineering and Govt. Polytechnic, parkal.