

Faculty Profile

Name: **D. V. Raghunatha Reddy**
Designation: Assistant Professor
Teaching Areas: Applied Thermodynamic, I.C Engines, Refrigeration & Air-conditioning, Heat & Mass Transfer, Engineering Graphics, Engineering Workshop Practice
Research Interests: Domestic Refrigeration System
Optimization with Neural Networks and Fuzzy Logic System
Education: (Ph.D.). (Mechanical Engineering), JNTU Aanathapuram
M.Tech. (Refrigeration and Air-conditioning), JNTU Aanathapuram, 2010
B.Tech. (Mechanical Engineering), JNTU Hyderabad, 2005



Professional Experience: (14 Years)

1. Sep 2013 to till date: Assistant Professor, FST, IFHE University Hyderabad.
2. June 2013 – Sep 2013: Assistant Professor, C.V.R College of Engineering, Hyderabad.
3. Sep 2010 – May 2013: Assistant Professor, Auroras Technological & Research Institute, (ATRI) Hyderabad.
4. July 2005 – Oct 2008: Assistant Professor, S.S. Institute of Technology, Dundigal Hyderabad.

Research / Selected Publications:

1. **D. V. Raghunatha Reddy**, P.Bhramara, K. Govindarajulu "A Comparative Study of Multiple Regression and Artificial Neural Network models for a domestic refrigeration system with a hydrocarbon refrigerant mixture" Materials today proceedings No. 22P4, Feb- 2020, 1545-1553 (SCOPUS Indexed) (SJRI:0.299)
2. **D. V. Raghunatha Reddy**, P.Bhramara, K. Govindarajulu "Performance analysis of Domestic Refrigerator using Hydrocarbon Refrigerant Mixtures with ANN and Fuzzy Logic System" Springer Lecture Notes on Mechanical Engineering, 2019. <https://www.springer.com/in/book/9789811319020> (Publisher: Springer; Index: SCI, Impact factor:0.13)
3. **D. V. Raghunatha Reddy**, P.Bhramara, K. Govindarajulu "Experimental Evaluation of the Effect of Refrigerant Charge and Capillary Tube Length on the Performance of Household Refrigerator with Different Configurations of R290 and R600a" Materials today proceedings 5, 2018, 11845–11852. <https://doi.org/10.1016/j.matpr.2018.02.155> (Publisher: Elsevier; Index: SCI, Impact factor:0.314)
4. **D. V. Raghunatha Reddy**, P.Bhramara, K. Govindarajulu "Hydrocarbon Refrigerant mixtures as an alternative to R134a in Domestic Refrigeration system: The state-of-the-art review ", IJSER ISSN 2229-5518, Volume NO:7, June-2016.
5. **D. V. Raghunatha Reddy**, P.Bhramara, K. Govindarajulu "Application of Soft Computing techniques for analysis of vapor compression refrigeration system," IJCET ISSN 2277-4106, P-ISSN 2347-5161 Issue-2 February 2014.