



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

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FACULTY PROFILE

Name of the faculty

Neelapu Satish

Designation

Associate Professor

Email & Phone No

neelapu.sateesh@gmail.com
9701974953

Department

Mechanical Engineering



Educational Background: 1. Bachelor of Engineering in Mechanical engineering with 78.34%, AITAM, Srikakulam, Andhrapradesh.

2. Master of Technology in Thermo fluids with 8.32/10 CGPA (Mechanical and Aerospace Engineering Dept), Indian Institute of Technology Hyderabad, July 2012-July 2014

3. Doctor of Philosophy in Fluids and energy systems (Mechanical and Aerospace Engineering Dept), Indian Institute of Technology Hyderabad, July 2014-Feb 2020.

Research Areas CFD, Thermal management of batteries in electric vehicles, Heat pipes, Thermal design and Packaging, thermal modelling of storage systems, Fluid mechanics, Numerical Heat transfer in electronics packaging, cooling system of Nuclear reactors, Vibrational body's effect on enhancement of heat transfer in channel flows, Atmospheric turbulence, Design of Thermal storage systems, jet impingement studies, LES laden particle flows, Bubble column flows, Water evaporation from free surface, ANN.

Experience

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Date of Joining

18-09-2020

Sl. No	Institute	Designation	Period
1	Dhanekula Institute of Engineering and Technology	Associate Professor	2020 - till date

List of Publications (International)

- N.Satish., K.Venkatasubbaiah., Conjugate heat transfer analysis of turbulent forced convection of moving plate in a channel flow, “Applied Thermal Engineering”.100, 987-998 (2016).
- N.Satish., K.Venkatasubbaiah., Numerical investigation of flow and heat transfer characteristics between turbulent double jet impingement and a moving plate, “ ASME Thermal Science and Engineering Applications ”, Vol. 11(5), pp: 051001:1-12, 2019.
- N. Satish, K Venkatasubbaiah, Numerical investigations of turbulent multiple jet impingement on a heated square block in a confined channel, Journal of Thermal Science and Engineering Progress, 100415, 2019.
- N. Satish, K Venkatasubbaiah, Conjugate heat transfer analysis of liquid metal turbulent flow through a horizontal channel by LES, Numerical Heat Transfer, Part A: Applications, June 2020, Taylor & Francis publisher.
- N. Satish, K Venkatasubbaiah, Effect of pulsation and acceleration of liquid metal turbulent flow through a horizontal channel by LES, ASME Journal of Nuclear Engineering and Radiation Science, 6(4), 041301:1-13, Oct 2020.
- N.Satish., K.Venkatasubbaiah., R.Harish., Effect of buoyancy on turbulent mixed convection flow through vertical and horizontal channel. Proceedings of IUTAM Symposium on Advances in Computation, Modeling and Control of Transitional and Turbulent flows, Dec15-18, 2014, Goa, India.
- N.Satish., K.Venkatasubbaiah., Effect of Prandtl number and Jet inclination on Flow and Heat Transfer of Double Jet impingement on Stationary and Moving Plate. Proceedings of 7th international and 45th national conference on Fluid Mechanics and Fluid powers, Dec10-12, 2018, IIT Bombay, Mumbai, India.

Achievements/ Awards etc.,

- Silver medal in 2nd year engineering
- Gold medal in 3rd year engineering
- Topper in academics during 4th year engineering
- 1st prize for making car, for physically challenged people, in symposium conducted by AITAM in 2011.
- Awarded Scholarship from MHRD Government of India to pursue Master of technology during 2012-2014.
- Awarded Scholarship from MHRD Government of India to pursue PhD during 2014- 2019.
- Research excellence award in the year 2019 for the year 2018 in the dept. MAE, IIT Hyderabad.

Neelapu Satish