

Faculty Profile



Name:N.S.Srikanth

Designation:Assistant Professor

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Research Interests:Electronic cooling, two phase flow boiling in Micro channel, Heat transfer, CFD, Micro-Heat exchangers, Data centre cooling, Electronic Cooling

About Me: Mr Srikanth N S working as Assistant professor in the Department of Mechanical Engineering NIE since 2010 His expertise is in the field of **Thermodynamics, Heat transfer, Computational Fluid dynamics, Two Phase flow systems, Electronic Cooling & Data Centre Cooling** .He has got a total of 4 International journal publications and 5 International conference proceedings.

He is teaching CFD as an elective course in the department of Mechanical Engineering, NIE since 2012 and has organized and completed more than **25 hands on training sessions in Ansys –Fluent CFD** software. He is responsible for Developing a Multicylinder Engine Test Rig –**Bosch Bay @ NIE** in coordination with Bosch India Pvt.Ltd.

Apart from his Academic Experience he is also responsible for setting up of “**Robotics Club @ NIE**” which has grabbed more attention among the students across all branches by organizing many Project based workshops and technical competitions like “Roborikishi” <https://www.roboticsclubnie.in/>

Also believes in experimenting new innovative practices in Teaching/Learning and inspiring students to become a good human being.

Education

- **Ph.D–Thermal Engineering**
Currently Pursuing @ **IITMadras**
- **M.Tech by Research. - Thermal Engineering**
NITK, Surathkal,
Year of Graduation :2014
- **B.E., - Mechanical Engineering**
NIE, Mysuru
Year of Graduation : 2010

Professional Experiences:

Teaching: 2010-2012 (FTC), 2015(Permanent) –till Now

Total Teaching Experience: 13Years

Courses Taught (UG)

- 1) **Thermodynamics**
- 2) **Heat Transfer**
- 3) **Computational Fluid Dynamics(CFD)**
- 4) Control Engineering
- 5) Computer integrated Manufacturing
- 6) Robotics& Automation
- 7) Manufacturing process
- 8) Mechanics of materials

Research: 8 Years (2 years @ NITK Surathkal, & 6 years @ IITMadras)

Publications:

- 1.) Conjugate heat transfer analysis of hexagonal shaped micro channel as an application for chip cooling” (paper number 110), by **Srikanth N S**, ArunMahalingam, Prasad Krishna and Nagaraj M K Presented Paper at 5th International and 41st National Conference on Fluid Mechanics and Fluid Power to be held at the Indian Institute of Technology Kanpur during December 12-14, 2014
- 2.) “Numerical investigation of heat transfer and fluid flow in hexagonal shaped micro channel for various hydraulic diameters “by **Srikanth N S**,Prasad Krishna, Nagaraj M K presented paper for International conference on science and technology at VIT, Tamil Nadu on May 6-7,2014.
- 3.) RajathMallya P1, Rajath Alva K2, N Seshaprakash*, M Vijayakumara4, **N S Srikanth**⁵, N V Raghavendra6 ” Combustion Noise Reduction of a Compression Ignition Direct Injection Engine by Optimizing the Fuel Injection Equipment” International Journal of Engineering Trends and Technology , ISSN: 2231-5381, 2016.
- 4.) Harsha B T1, G S Mayur2, Indresh D R3 , N Seshaprakash4 ,Tajmul Pasha5, **N S Srikanth**⁶ “Noise Reduction by Optimization of HPP configuration and Injection Timing in a Direct Injection CI Engine” International Journal of Engineering Trends and Technology, ISSN: 2231-5381,2016.
- 5.) Aditya S S1, Karthik M Prabhakar2, Girinath S Bhatt3 ,Manjunatha H V#4, N Seshaprakash5*, **N S Srikanth**⁶ ” Study of the effect of nozzle configuration on Noise

level in CI engines, International Journal of Engineering Trends and Technology,ISSN: 2231-5381, 2016.

- 6.) R PrajwalAthreya, J Tejasb, MascarenhasVensonc **N S Srikanth**^d “Numerical Investigation of Single-Phase Heat Transfer in Converging and Diverging Microchannel” IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1189/1/012035.
- 7.) PrajwalAthreya R1, Tejas J1, Venson Mascarenhas1, **Srikanth N.S**² “Numerical Investigation of Single-Phase Heat Transfer in Converging and Diverging Microchannel” Proceedings of the 8th International and 47th National Conference on Fluid Mechanics and Fluid Power (FMFP) December 09-11, 2020, IIT Guwahati, Guwahati-781039, Assam, India, FMFP2020–014
- 8.) M Lal, NG Surabhi, **NS Srikanth** “Numerical Investigation of Heat Transfer Characteristics for Various CPU Designs “ Journal of Physics: Conference Series 2844 (1), 012008

Other Information:

Workshops/FDP attended as Resource person:

Sl No	Title	Date/Duration	Organised by
1	A short term course on Hydraulic and Hydrological Modeling	17-19 July 2023	Department of Civil Engineering, NIE
2	Training programme on MATLAB	18-5-2020 to 22-5-2020	Department of Mathematics, NIE
3	CFD in Hydraulics Engineering	21-11-2022 to 26-11-2022	Department of Civil Engineering, NIE
4	Innovative Teaching strategies	2-06-2023	MITE, Moodbidre
5	Basics of Robotics	1-5-2023 to 12-5-2023	The learning curve, International School Mysuru-570017