

Mr. THEAN MANI RAJAN KANAGARAJ



Designation Assistant Professor

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Joining Date 12-09-2024

Educational Qualifications

- AMAeSI., Aeronautical Engineering - Aerodynamics, The Aeronautical Society of India - 2001
- M. Tech., Aerospace Engineering, Indian Institute of Technology Madras - 2003

Past Experience

Field	Positions held	Name of the institution	From	To
Industrial Experience	Analysis Engineer	TATA Consultancy Services, Bangalore	11.02.2008	06.04.2018
	CFD Consultant	ACO Technologies, Bangalore	01.07.2019	30.09.2019
	Senior Engineer	Modelon Engineering Pvt. Ltd, Trichy	27.12.2021	22.01.2024
Academic Experience	Project Officer	Indian Institute of Technology Madras, Chennai	01.01.2004	31.01.2008
	CFD, Honorarium	IIT Hyderabad	02.01.2021	31.07.2021
	JRF	IIT Hyderabad	01.04.2024	07.06.2024
	Assistant Professor	Gopalan College of Engineering & Management	12-09-2024	Till date

Areas of Interest

- Aerodynamics, CFD
- ThermoFluid
- High Performance Computing - HPC
- Systems Modeling

Professional Memberships

- Graduate Member, The Aeronautical Society of India G-10808

Subjects Handled

UG Programme:

- Aerodynamics
- Aerodynamics Design and Testing
- CFD Workshops
- Fluid Mechanics
- Aircraft Maintenance, Repair and Overhaul
- Aircraft Performance and Stability

B.E., M. Tech, PhD Projects guided

- **B. E:**
- **M.Tech:**
- **PhD: Guided:**

Conference/Journal publications

USPTO Patents:

1. Ajay Patel, Deep Bandyopadhyay, **Thean Mani Rajan Kanagaraj**, Raghavendra Tantry, "Large diesel engine aftertreatment system", US IP/Patent number 10,648,392; publication number US 2018-0100420 A1; Patent issued date May-2020, filed date Oct-2016
2. Xiao Fu, Mahesh M, D Bandyopadhyay, Raghavendra Tantry, **Thean Mani Rajan Kanagaraj** "Engine system having mixing mechanism for exhaust and injected fluid and engine exhaust treatment strategy", US IP/Patent publication # US 2017-0362987 A1; Notice of allowance Oct-2019, filed date June 2016

International Conferences:

1. T Sreenivasulu, **K Thean Mani Rajan**, BVSSS Prasad, "Convective Heat Transfer Characteristics in an Annulus Wrapped with a Helical Wire", Proc. Of Indian Soc. of Heat & Mass Transfer – American Soc. of Mech. Engg., International Conference, JNTU, Hyderabad, ISHMT-ASME 2008
2. M. Rajendrakumar, **K. Thean Mani Rajan** and BVSSS Prasad, "CFD modeling of Fluid flow in an annulus wrapped with a helical wire", Proc. Of Int. Conf. on Fluid Mech and Fluid Power, FMFP, International Conf., IIT Bombay, 2006

National Conferences:

1. **Thean Mani Rajan Kanagaraj**, AjayKumar MST, Anand Pitchaikani, Erik Durling and John Batteh, "High fidelity systems modeling of thermo-fluid cold plate and electro-thermal battery pack", Proc. Of National conference on Multidisciplinary design, analysis and optimization (NCMDAO), IIT Guwahati, Dec 2023 Proceedings **Springer** To Be Edited
2. **Thean Mani Rajan Kanagaraj**, Anand Pitchaikani and Erik Durling, "Thermal analysis of battery pack for varying configurational choices in hybrid powertrain system", NCMDAO, IIT Bombay, Sep 2022.
3. K Bhadraiah, T HariKrishna, **Thean Mani Rajan K**, "PBS Professional Job Scheduler at TCS: Six Sigma - Level Delivery Process and Its Features", in India HyperWorks Technology Conference, Altair India, Bangalore, 2012

Achievements/Awards

1. Service and Commitment awards-TCS Bangalore, after completion of 3, 5 and 10 years respectively.
2. Second prize, Hyperworks HTC Conference by Altair, July, 2012, Bangalore
3. Half time teaching assistantship award (HTTA), IIT Madras, Chennai, India -2002
4. Secured Graduate Aptitude Test for Engineering (GATE) All India Rank of 52 in GATE 2001
5. Secured Graduate Aptitude Test for Engineering (GATE) All India Rank of 34 in GATE 1999
6. First prize – Essay competition, The Aeronautical society of India-Chennai branch, Golden Jubilee Celebration of Aeronautical Society of India, MIT Chrompet Chennai, Nov 1998