



## **Dr.P.Rathnakumar**

**(Professor & HOD of Mechanical Dept)**

**Email-Id: hodmech.nit@navodaya.edu.in**

### **Educational Qualification:**

- **Ph.D.** in Heat transfer Enhancement Techniques Anna university, Chennai 2015
- **M.E.** in Refrigeration & Air Conditioning, Coimbatore Institute of Technology Coimbatore 1996
- **B.E** in Mechanical Engineering Government College of Engineering, Salem-11 Madras University 1994

### **Teaching Experience 22 years:**

- **Professor** in Navodaya Engineering collage Raichur, from 2016 to till date
- **Associate Professor** in Er.Perumal Manimekalai College of Engineering, Hosur from 2015-16
- **Vice Principal cum HOD** in Shree Sathyam college of Engineering & Technology, Sankari, Erode 2012-15
- **Vice Principal cum HOD** in Jkk Munirajah College of Techonology, Erode 2008-12
- **HOD** in Nandha Engineering College, Erode 2006-08
- **Assistant Professor** in V.M.K.V. Engineering College, Salem 1998-2006
- **Service Engineer** in Salem Boss Air Conditioners, Salem 1996-98
- **Service Engineer** in Salem Boss Air Conditioners, Salem 1994-95

### **Publications (International /National):**

- **P.Rathnakumar**, K.Mayilsamy, S.Suresh and P.Murugesan (2013),“Comparison of Heat Transfer and Friction Factor Characteristics of CNT based Nanofluids in a Circular Tube fitted With Helical Screw Inserts with Spacers”, Journal of Nanofluids 2 (4), 274-282.
- **P.Rathnakumar**, K.Mayilsamy, S.Suresh and P.Murugesan (2014), “Laminar heat transfer and friction factor characteristics of CNT/water nanofluids”, Journal of Nanoscience and Nanotechnology 14(3), 2400-2407.

- **P.Rathnakumar**, K.Mayilsamy, S.Suresh and P.Murugesan (2013), “Experiments on turbulent heat transfer and friction factor in reaction with carbon nanotube based nanofluids”, International Journal of mechanical and materials Engineering 8 (2), 116-126.
- **P.Rathnakumar**, K.Mayilsamy, S.Suresh, & P.Murugesan, 2014, ‘Laminar heat transfer and pressure drop in tube fitted with helical louvered rod inserts using CNT/water nanofluids’, Journal of Bionanoscience, vol. 8, no.3, pp. 160- 170.
- **Rathnakumar, P**, Mayilsamy, K. and Suresh S. 2015, ‘Heat transfer Enhancements in turbulent flow through a tube with helical screw louvered rod inserts’ Frontiers in energy, (under review process)
- S Vigneshwaran, **P Rathnakumar**, and P Rajasekaran 2016, ‘Study of sliding wear rate of hot rolled steel specimen subjected to Zirconia coating of various thickness’ International Journal of Engineering Research and Applications, vol. 6, no.2, pp. 87-92.  
[https://scholar.google.co.in/citations?hl=en&user=1xH\\_VMwAAAAJ](https://scholar.google.co.in/citations?hl=en&user=1xH_VMwAAAAJ)

#### **Seminars/Conference Attended/Organized:**

- National level workshop on “Cryogenics Technology and Low Temperature Application 2008
- Two weeks Faculty Development Program on “Heat and Mass Transfer”2007
- National Workshop on “Future fuels for low emission engines 2007
- National Workshop on “Recent developments in Composite materials” 2008
- International Workshop on “Art of Journal Articles and Thesis writing” 12th August, 2013
- One-day Seminar on “Recent trends in Refrigeration and Air conditioning”
- National Seminar on “Applications of Tribological Nanofluids for current and future” 2012
- National level Workshop on “Blue print reading for Engineering and Manufacturing Technology 2014
- Two – week ISTE workshop on “Fluid Mechanics”, 20th to 30th May 2014 at Indian Institute of Technology, Kharagpur
- National level workshop on “National Programme on Technology Enhanced Learning (NPTEL)”, 2015
- Organized & Participated in a three days Faculty Development Program on “Finite Element Analysis from concept to applications” 2016

- National Seminar on “Heat exchanger and its applications 2012
- 7th National Conference on Advances and Challenges in Mechanical Engineering 2014

#### **IX. National Conference**

- Presented a paper **in the National Conference on “Efficient air cooling system using Adsorptive Dehumidification** “held at Bannari Amman Institute of Technology, Sathiyamangalam, Tamilnadu.
- Presented a paper **in the National Conference on “Advances in Computing, Control, Communication, Automation and Structural Engineering”** held at Al-Ameen Engineering College, Erode, and Tamilnadu.
- **Rathnakumar, P**, Mayilsamy, K, Suresh, S & Murugesan, P 2014, ‘Experimental studies on heat transfer and friction factor characteristics in circular tube for laminar flow fitted with louvered rod inserts’, **7<sup>th</sup> National Conference on Advances and Challenges in Mechanical Engineering**, ESEC, Erode, Tamilnadu.

#### **X. International conference**

- **P. Rathnakumar**, S. Suresh, & Manjunath Basude 2016, ‘Heat transfer enhancements in turbulent flow through a tube fitted with helical screw louvered rod inserts’, **International Conference on Advanced Materials, Manufacturing, Management & Thermal Sciences (AMMMT-2016)**, Siddaganga Institute of Technology Tumkur- 572 103, Karnataka, INDIA.

#### **Membership in professional Bodies:**

- Life member LM50842 Indian Society for Technical Education, New Delhi (MISTE)
- Fellow membership F/2504/11 Indian Society of Mechanical Engineers. Chennai (ISME)
- MIE –Membership M-144177-3 Institution of Engineers (India), Kolkata
- Membership 171372 International Association of Engineers, (IAENG) Hong Kong
- Senior Member category.ID is SNM10100056865 Universal Association of Mechanical and Aeronautical Engineers – (UAMAE)
- Life Fellow member - ID is F3140900269 International Society for Research and Development, London (ISRDR)

## **Other Information:**

### **REVIEWER & EDITORIAL BOARD FOR INTERNATIONAL JOURNALS**

- Heat transfer– An International Journal
- Journal of Nanofluids – An International Journal
- International Journal of Mechanical Engineering ISSN(Print): 2319-2240 –An International journal
- 4.International Journal of Research in Engineering & Technology, ISSN(Print): 2347-4599 –An International journal
- Global Research and Development Journals (GRD Journals)-An International journal
- International Academy of Science, Engineering and Technology (IASET) –An International Journal
- International Journal of advances in Production and Mechanical Engineering (IJAPME) – An International Journal
- International Journal of Engineering & Management Research (IJEMR)-An International Journal
- SSRG International Journal of Mechanical Engineering (SSRG-IJME)-An international Journal