

**Dr. R.ARULARASAN**, B.E., M.Tech., Ph.D., MISTE, AMIE  
Associate Professor  
Dept. of Mechanical Engineering  
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Dr.R.Arularasan is Associate Professor (direct-recruitment) at the Dept. of Mechanical Engineering, University College of Engineering Arni (A Constituent College of Anna University Chennai). He graduated from University of Madras in Mechanical Engineering. He obtained his Master Degree from Pondicherry University specializing in the area of Energy Technology. He has received Ph.D in Mechanical Engineering from Anna University Chennai.

- ❖ Has around more than 20 years of Teaching experience and 6 years of Research experience.
- ❖ Teaches Heat Transfer, Thermal Engg. Thermodynamics, Power Plant Engg. Basic Mechanical Engg., Engg. Mechanics, Engineering Graphics, Metrology & Measurements, Total Quality Management, Unconventional Machining Process and Maintenance Engineering.

## Research:

### Supervisor:

- ❖ Recognized Research Supervisor of Anna University Chennai

### Areas:

- Heat transfer, Modeling & Simulation in Computational Fluid Dynamics (CFD).

## Other Major Areas of Research Interest:

- ✚ Alternative fuels, Heat exchangers, Energy Applications and Renewable & Non - Renewable Energy

## Publication Details:

### Journal Publications:

- ❖ Ganesan G, Arularasan R, Balaji S, 'Experimental Study on Plants Leaves to Identify Better Thermal Transmittence Properties', (2016), International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Special Issue 8, pp. 190-195, E-ISSN: 2319-8753, ISSN (Print): 2347-6710
- ❖ Arularasan R., K Sivasakthivel, M Alagesan, R Anand, K Arshad Ahmed, S Vimalan., 'Optimization of Process Parameter in Titanium Alloy by using Genetic Algorithm', (2015), International Journal of Research in Aeronautical and Mechanical Engineering, Vol.3 Issue.4,pp.1-6, E-ISSN: 2321-3051
- ❖ Arularasan R., Premkumar M., Sarathkumar M., Jagatheesan G. and Mubarak B., 'Micro Controller Based Alert System for Gas Flow in an Industrial Furnace',(2014), International Journal of Research in Advent Technology, Vol.2, No.2, pp. 155-158, E-ISSN: 2321-9637
- ❖ Arularasan R., Sivasakthivel K., Dinesh D., Jayakumar M., Vignesh P. and Yvaraj S., 'Effect of Machining Parameters on Titanium Alloy Wet and Dry Machining',(2014), International Journal of Research in Aeronautical and Mechanical Engineering, Vol. 2 No. 3, pp. 217-223, E-ISSN: 2321-3051
- ❖ Arularasan R., Hemanandhan P., Thamizhselvan T., Arunkumar B., Senthilnathan S. and Prathap S., 'Modeling and simulation of engine cylinder Fins by using FEA',(2014), International Journal for Research in Applied Science & Engineering Technology, Vol. 2 No. 4, pp. 403-408, E-ISSN: 2321-9653
- ❖ Arularasan R., Dhanushkodi G. and Velraj R., 'CFD simulation studies and experimental validation on a parallel plate heat sink' (2011), International Journal of Computer Aided Engineering and Technology, Vol. 3, Nos. 5/6, PP. 526-537, ISSN: 1757-2665 (online), 1757-2657 (print)
- ❖ Arularasan R. and Velraj R., 'Modeling and simulation of a parallel plate heat sink using computational fluid dynamics', (2010), International Journal of Advanced Manufacturing Technology, Vol. 51, Nos. 1-4, pp. 415-419.

- ❖ Arularasan R. and Velraj R., 'Effect of Fin Spacing on Heat Transfer Characteristics of a Parallel Plate Heat Sink', (2009), International Journal on Mechanical & Automobile Engineering, Vol.3 No.4 , pp. 01 – 04.
- ❖ Arularasan R. and Velraj R., 'Performance improvement and parametric optimization of a parallel plate heat sink', (2009), Journal of Cooperation among University, Research and Industrial Enterprises, Vol.1, No. 4, pp. 49-55.
- ❖ Arularasan R. and Velraj R., 'Fluid flow and heat transfer analysis in a parallel plate heat sink using a commercial CFD software', (2008), International Journal of Pure and Applied Physics, Vol. 4 No. 2, pp. 97-104. ISSN 0973-1776
- ❖ Arularasan R. and Velraj R., 'CFD Analysis in a Heat Sink for Cooling of Electronic Devices', (2008), International Journal of The Computer, The Internet And Management, Vol. 16 No. 3, pp. 1-11. ISSN: 0858-7027.

#### Conference Publications:

- ❖ Arularasan R. and Velraj R., 'Selection of significant geometric parameters for effective thermal management in a heat sink', (2008), Proceedings of International Conference on Frontiers in Design and Manufacturing Engineering, Karunya University, Coimbatore, India.
- ❖ Arularasan R. and Velraj R. 'Energy conservation by design optimization of industrial process equipment through CFD applications – A Review', (2008), Proceedings of the national conference on emerging trends in industrial automation, Velammal Engineering college, Chennai, India.
- ❖ Arularasan R. and Velraj R., 'Use of CFD simulation as a design optimization tool for the process equipments', (2005), Proceedings of Advances in Mechanical and Production Engineering in the era of Globalization (AMPEEG – 2005), Tagore Engineering College, Chennai, India.

#### Membership in Professional Bodies:

- ✚ Life Member of Indian Society for Technical Education – LM - 31030
- ✚ Life Member of Institution of Engineers (India) – AM 085451 /7

#### Software Skills:

- |                         |   |
|-------------------------|---|
| ✚ Modelling Packages    | : Auto CAD, SolidWorks                        |
| ✚ Analysis Packages     | : Fluent                                      |
| ✚ Programming Languages | : Fortran, Pascal & Diploma in Unix & C (DUC) |
| ✚ Operating Systems     | : Windows XP / Vista, Windows 7               |
| ✚ DTP Packages          | : MS Office                                   |

#### Programme Organized:

- Co - Organized a Workshop on "Flow Simulation Concepts and Applications" on March 13, 2009 at SSN College of Engineering, Chennai – 603 110.
- Organized Anna university sponsored FDTP on "GE6152 Engineering Graphics" from 14th - 20th May 2015 (seven days) at University College of Engineering Arni.

#### Contact Information:

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**Thank You**