

CURRICULUM VITAE

Dr.R.ARULARASAN

Professor

Department of Mechanical Engineering

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➤ **Research Area:**

- Heat transfer
- Alternative fuels
- Renewable Energy

➤ **Educational Qualifications:**

Qualification	College /University	Year of completion	Percentage /Class
Ph.D. (Mechanical Engineering)	Anna University	2009	-
PG (Energy Technology)	Pondicherry University	1997	I
UG (Mechanical Engineering)	Madras University	1994	I

Experience: (26 Years 09 Months as on 31.03.2024)

Name of Company / Institutions	Designation of Post	From	To	Experience in Year
Srisiva Subramaniya Nadar College of Engg. - Chennai	Lecturer	02.07.1997	31.03.2003	12 Years
Srisiva Subramaniya Nadar College of Engg. - Chennai	Senior Lecturer	01.04.2003	30.09.2007	
Srisiva Subramaniya Nadar College of Engg. - Chennai	Assistant Professor	01.10.2007	05.9.2009	
University College of Engg. Arni	Assistant Professor	07.09.2009	23.07.2012	03 Years
University College of Engineering - Kanchipuram	Principal i/c / Assistant Professor	24.07.2012	31.07.2012	
University College of Engg. Arni	Assistant Professor	01.08.2012	06.09.2012	
University College of Engg. Arni	Associate Professor	07.9.2012	06.9.2015	03 Years
University College of Engg. Arni	Professor	07.9.2015	14.7.2023	7 years 10 months & 8 days
University College of Engineering – (BIT Campus) Tiruchirappalli	Professor	15.7.2023	Till - date	00 years 08 months & 17 Days

➤ **Awards / Honours Received:**

1. Certificate of Appreciation: Centum result achieved in Power Plant Engineering subject at University College of Engineering Arni - 2012
2. Certificate of Appreciation: Centum result achieved in subject: ME2026 Unconventional Machining Processes at University College of Engineering Arni -2013
3. Certificate of Appreciation: Centum result achieved in subject: ME2026 Unconventional Machining Processes at University College of Engineering Arni - 2014
4. Certificate of Appreciation: Centum result achieved in subject: ME2026T Unconventional Machining Processes at University College of Engineering Arni – 2014

➤ **Additional / Academic Responsibilities at University:**

1. HoD i/c : 01.11.2010 to 23.07.2012- (1 year 8 months 23 days)
2. Principal i/c: 24.07.2012 to 31.07.2012 - (0 year 0 months 08 days)
3. HoD i/c : 08.08.2012 to 20.10.2015 -(03 years 02 months 13 days)
4. Dean i/c : 28.08.2019 to 03.02.2022 -(02 years 05 months 07 days)
5. Dean : 04.02.2022 to 15.06.2023 - (01 year 04 months 12 days)
6. Zonal co-ordinator: 24.11.21 to 14.07.2023 - (01 year 07 months 21 days)

➤ **Membership of Scientific and Professional Societies:**

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

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: N/A
- b. Number of UG Project Completed: 18 batches

➤ **Research Guidance (M.S/Ph.D.) (Ongoing): 0 4**

Sl. No	Name of the scholar	Tentative Title of the thesis	Year of registration	Status
1.	Ganesan G	Study on thermal barrier materials for building applications	2015	Course Work
2.	Mani P	Investigation and optimization of process parameters in Abrasive water jet machining	2016	Confirmation completed
3.	Bharathkumar N	An investigation on the effect of briquetting process variables of algae Briquette for bio-energy applications	2017	Course Work
4.	Vinodraj S	Performance study on diesel engine parameters using optimization Technique	2018	Course Work

➤ **Publications:**

International Journals:

1. S. Vinodraj, R. Arularasan, D. Karthikeyan, N. Sethuraman, K. Suryavarman, Impact of non-edible biodiesel (Juliflora oil seed) on CI engine – Combustion, performance and emission features. Materials Today: Proceedings, ISSN 2214-7853, June-2023, <https://doi.org/10.1016/j.matpr.2023.05.306>
2. Arularasan R, Mani P, Edison chandraseelan R “A Review on Optimization of Process Parameters of Abrasive Water jet Machining of Natural Fiber Based Polymer Composites”, International Journal of Research in Advent Technology E-ISSN: 2321-9637, Vol.7, Issue No.5, May-2019, PP: 573-582
3. Arularasan R, Vinodraj S, Giridharan S, Gnanaselvan C, Gopinath S "Effects of combustion Nano particle catalyst on Cashew nut shell biodiesel (cardanol) oil and habitude in a compression ignition engine", International Journal of Advance Engineering and Research Development ISSN (O): 2348-4470 ISSN (P): 2348-6406, Volume 5, Issue 04, April -2018 PP: 382-397

4. Arularasan R, Vinodraj S, Selvam K, "Influence of Nano Metallic Additive on Jamun Oil and Habitude in Compression Ignition Engine", International Journal for Research in Applied Science & Engineering Technology ISSN: 2321-9653, Volume 6 Issue IV, April 2018, PP: 2506-2519
5. Arularasan R, Vinothkumar N, Baranidharan S V, "Potential of Nannochloropsis sp. Algae oil to be used as Engine Fuel: a Review", International Journal of Latest Engineering Research and Applications, ISSN: 2455-7137, Vol.-02, Issue - 12, December - 2017, PP - 15-18
6. Arularasan R, Ganesan G, Sathishkumar P, "Investigations on Coir Fibre Powder for Building Thermal Comfort" International Journal of Advance Engineering and Research Development, ISSN (O): 2348-4470, Volume 4, Issue 11, November -2017, PP:973-975
7. Arularasan R, Abdul kadar U, Dinesh V, Govindhan I, Manikandan K, Ulaganathan S, "Design and fabrication of seed feeding attachment in power tiller for Agricultural purpose", International Journal of Advanced Research and Development, ISSN: 2455-4030, Volume 2; Issue 6; November 2017; Page No. 443-445
8. Arularasan R, Balaji N, Devaraj P, Jayakumar K, Sathish Kumar S, "Design and Fabrication of a Magnetic Prime Mover for Electric Power Generation", International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653; Volume 5 Issue XI November 2017 PP:4013-4016
9. Arularasan R, Pavankumar A H, Nazar R, Pradeep S, Rajkumar A, "Design and Development of a Multi-Function Machine" International Journal for Science and Advance Research In Technology, ISSN(O):2395-1052, Volume 3 Issue 11–November 2017, PP:987-990
10. Arularasan R, Ganesan G, Balaji S, "Experimental Study on Plants Leaves to Identify Better Thermal Transmittence Properties", International Journal of Innovative Research in Science, Engineering and Technology, ISSN(O) : 2319-8753 ISSN (P) : 2347-6710, Volume 5, Special Issue 8, May-2016, PP: 190-195
11. 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 ISSN (online): 2321-3051.
12. Arularasan R., Premkumar M., Sarathkumar M., Jagatheesan G, 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
13. Arularasan R., Sivasakthivel K., Dinesh D., Jayakumar M., Vignesh P, Yvaraj S., 'Effect of Machining Parameters on Titanium Alloy Wet and Dry Machining', (2014), International Journal of Research in Aeronautical & Mechanical Engineering, Vol.2 No.3, pp.217-223, E-ISSN:2321-3051

14. Arularasan R., Hemanandhan P., Thamizhselvan T., Arunkumar B., Senthilnathan S , Prathap S., 'Modeling and simulation of engine cylinder Fins by using FEA',(2014), International Journal for Research in Applied Science and Engineering Technology , Vol. 2 No. 4, pp. 403-408, E-ISSN: 2321-9653
15. Arularasan R.,Dhanushkodi G, 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 (O): 1757-2665, 1757-2657 (P)
16. Arularasan R, 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.
17. Arularasan R, Velraj R., 'Effect of Fin Spacing on Heat Transfer Characteristics of a Parallel Plate Heat Sink',(2009),International Journal on Mechanical and Automobile Engineering, Vol.3 No.4,pp.01– 04.

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

Coordinator of FDTP on Engineering Graphics during 14.05.2015 to 20.05.2015

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended:**

- Two weeks ISTE workshop on "Engineering Mechanics" 26-11-2013 to 06-12-2013
- Two weeks ISTE workshop on "Solar Photovoltaics: fundamentals, technologies and applications" 12-12-2011 to 22-12-2011
- FDP programme on "Latest and advanced technology in automobile engineering 18-12-2013 to 26-12-2013
- FDP programme on "Renewable and non - renewable energy sources 26-08-2013 to 01-09-2013

➤ **National / International Conferences organized / Participated:**

- International Conference on Frontiers in Design and Manufacturing Engineering, Karunya University, Coimbatore, India - 2008.
- National Conference on Advances in Mechanical and Production Engineering in the era of Globalization (AMPEEG – 2005), Tagore Engineering College, Chennai, India - 2005.

➤ **Professional recognitions:**

- BOS member (University Nominee) in Board of Studies (Mech) of autonomous Colleges affiliated to Anna University.
- Doctoral committee member for other scholars registered the Ph.D at the CFR – Anna University Chennai.
- Camp officer for Central valuation pertaining to November /December 2017, Anna University Examinations.
- Camp officer for Central valuation pertaining to January 2018, Anna University Examinations.
- Central valuation Board (Mech) chairman / Examiner, Practical Examiner, Inspection Squad Member, Chief Superintendent and AUR for Anna University Examinations.
- Programme Co-Convener for the “Priceless Laptop Distribution– Phase I” during Academic year 2012-2013
- Programme - Secretary for “Priceless Laptop Distribution – Phase II” during Academic year 2012-2013
- Anti- ragging Monitoring committee Chairman during Academic Year 2013 – 2014
- Co-Coordinator, combined Graduation Day Programme '2014, Successfully organized the Convocation programme held on 25.01.2014 at UCET.

(A) Chairperson for conferences / Seminar / Technical symposia:

Organizing Committee member for the International Conference on “Advances in Mechanical Engineering” held during 15-16 October 2015 organized by University college of Engineering Villupuram.

(B) Guest Lecture delivered:

- FDTP on Thermal Engineering 20-06-2013 to 20-06-2013 , University College of Engineering Villupuram.