

Resume

Dr. R. KATHIRAVAN. M.E., Ph.D (IIT Roorkee)

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PERSONAL PROFILE

Date of Birth : 25 – 05 – 1972
Native Address : 15, Narayanan Street,
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Tamil Nadu state.
India.
Contact Mobile Number : **+91- 9629162013**
Marital status : Married
Language Known : Tamil, English, Hindi (speak and write)

EDUCATIONAL PROFILE

Sl. No	Qualification	Discipline	Year of Passing	Class Obtained	College/University
1.	Doctor of Philosophy	Mechanical Engineering, Area of Research: Pool Boiling of Nanofluids	September 2010	Course work: 1. Advanced fluid Mechanics A (9/10). 2. Mechanical Measurement and Instrumentation B+(8/10) In thesis both examiners gave B grade.	Indian Institute of Technology, Roorkee. Utharkhand state. India.
2.	Master of Engineering	Thermal Power Engineering	November 2001	First	Annamalai University, Chidambaram, Tamil nadu state, India.
3.	Bachelor of Engineering	Mechanical Engineering	April, 1994	First	Md.Sathak Engineering college/ M K university. Kilakarai. TamilNadu state. India.

Certificate training On Automation Technology given by M/s BOSCH REXROTH INDIA Ltd (A group of M/s BOSCH, GERMANY)

- Graduated with highest honor and a Certificate obtained from Bosch Rexroth, India limited, Bengaluru, India (A Bosch group, Germany), “trainer the trainee” programme on **Industrial Automation**, during the period June 01st 2012 to June 30th 2012 at VTU – BR centre of competence in Automation technology, Mysore.
- Certified faculty to take Marine related subjects such as **thermodynamics thermal, IC engines and Fluid Mechanics** Certified by the Directorate General of Shipping, Government of India

EXPERIENCE

1. Collegiate Experience

Sl. No	Name of the Concern	Position	Period	Nature of Work
1.	Bahir Dar Institute of Technology, Bahir Dar University, Ethiopia	Professor	15.11.2017 to till date	<p>1.Subject handled: Thermodynamics, thermal engineering, Fluid Mechanic, Renewable energy, Refrigeration and Air-conditioning, Instrumentation and control processes for UG and PG level students. Guiding Ph.D students.</p> <p>2. Syllabus and curriculum framed for Mechanical Subjects in the outcome based education system.</p>
2.	Periyar maniammai University, Vallam, Thanjavur	Professor & Head and Director for Automation Center	20.11.2011 to 13.11.2017	<p>1.Subject handled: Thermodynamics, thermal engineering, Fluid Mechanic and automation subjects for UG and PG level students. Guiding Ph.D students.</p> <p>2. Syllabus and curriculum framed for Mechanical Subjects in the outcome based education system.</p> <p>3. Responsibilities holding:</p> <ol style="list-style-type: none"> 1. Academic council member 2. Board of studies member 3. Chief superintendent for University examination from 2013 to 2015 4. Research committee member etc.,
3.	SAMS College of Engineering and Technology, Chennai	Principal. And Professor	20.11.2010 to 19.11.2011	Gas dynamics and jet propulsion
4.	Annai College of Engineering and Technology,	Professor Cum Head of the	05.05.2010 to 13.11.2010	Thermodynamics, Kinematics of Machine. LAB Handled

	Kumbakonam. Tamilnadu state, India	Department		Fluid Mechanics and Machinery Lab
5.	Edayathangudi G S Pillay Engineering college, Nagapattinam, Tamilnadu State, India	Professor Assistant Professor Lecturer	19.10.2009 to 04.05.2010 19.09.2003 to 25.07.2006 20.08.2001 to 18.09.2003	Solid Mechanics, Thermal Engineering, Thermodynamics, Fluid and Engineering Mechanics, Theory of Machines, Engineering Drawing LAB Handled: Thermal, HT & FM.
6.	A.V.C. College of Engineering, Mannampandal, Mayiladuthurai, Tamilnadu state, India	Lecturer	16.07.1997 to 23.06.1999	Engineering Mechanics, Thermal Engineering, Thermodynamics, Fluid and Engineering Mechanics, Theory of Machines, Engineering Drawing. LAB Handled: Thermal, HT & FM.

2. Industrial Experience

Sl. No	Name of the Concern	Position	Period	Nature of Work
1.	M/S Sri Rengaraja Engineering Works, (Govt. Recognized Steam Boiler Manufacturers, Fabricators, Erectors and Repairers) 15, venugopal Pillai street, Chidambaram, TamilNadu state, India	Supervisor and Maintenance Engineer	30.05.94 to 01.07.97	All types Boiler Fabrication supervisor and Boiler Maintenance Engineer for various Customers.

Academic Achievements

Award and Fellowship received

- AICTE research fellowship for pursuing Ph.D at IIT Roorkee during 2006 -2009 through grant No.782 - 42 – 79

Projects Undertaken as a principal Investigator

Sl.No.	Name of the work	Name of the Organization	Amount	Grant Number	Status
1.	Design and Testing of Solar Driven Grain (Wheat/Rice) Separator Machine	Bahir Dar University, Ethiopia	8,94, 084 ETB	School of Research and graduate study	On going
2.	Grains Cleaning Machine, Solar Dryer, sieving machine, and husk separator	Office of University Industry Linkage and Community Service, Bahir Dar University,	4,09,300 ETB	School of Research and graduate study	On going
3.	Defense sensitive project	Air force Station, Thanjavur	Rs.64, 00,000/-	MoU signed between PMU and IAF on 10May 2016	Completed
4.	Defense sensitive project	Air force Station, Thanjavur	Rs.29,900/-	42309F/24543-H/ Per/ DO, dated 21Jan 14	Completed
5.	Defense sensitive project	Air force Station,	Rs.30,000/-	42309F/24543-H/ Per/ DO,	Completed

		Thanjavur		dated 21Jan 14	
6.	Defense sensitive project	Air force Station, Thanjavur	Rs.25, 000/-	47W/1521/2/ATG dated 13 Mar15	Completed
7.	Defense sensitive project	Air force Station, Thanjavur.	Rs.95,000/-	47WG/1521/2/ATG dated 30 Jul 15	Completed

***Note: Myself is one of the Inventors of the funded projects serial no 3 of the above table is published in the journal of patent on 10th July 2018 in the patent filed application no.201741024300 with patent office Chennai, India.**

Invited Lectures Given - 4 highlighted one is the following

1. Guest Speaker for the one day technical workshop organized by Edu Studio Singapore
Title: Engineering Research for the Developing World
Date: 4 July 2014
Time: 9:00am to 5:00pm
Venue: Nanyang Technological University, Singapore

Paper published in international Journal - 14 and national journal -02-

1. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, “Characterization and pool boiling heat transfer studies of nanofluids”, **ASME Journal of Heat transfer**. Available in online from 5th June2009, issue-August 2009, Vol.131 (08) / 081901.
2. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, P.K Jain, “Pool boiling characteristics of carbon nanotube based nanofluids over a horizontal tube heater”, **ASME Journal of Thermal Science and Engineering Applications**. Vol. 1, issue (2), pp 1-7, June 2009.
3. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, “Preparation and pool boiling characteristics of copper nanofluids over a flat plate heater”, **International Journal of Heat and Mass transfer**. Vol.53, issue 9-10, pp. 1673-1681, Feb 2010.
4. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, P.K Jain, “Pool boiling characteristics of multi walled carbon nanotube (CNT) based nanofluids over a flat plate heater”, **International Journal of Heat and mass transfer**. International Journal of Heat and Mass Transfer, Volume 54, Issues 5-6, Pages 1289-1296, February 2011.
5. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, “Preparation and pool boiling characteristics of Silver nanofluids over a flat plate heater”, **Heat transfer Engineering an international journal**. Available in online from 17th June 2011. Vol.33 issue 2, pp 69-78, 2012.
6. Lenin singaravelu, vinod, R.Kathiravan, “Evaluation of Azadirachta indica seed/Spent Camellia sythesis bio-filler based jute-epoxy composites for potential applications: Experimental and Numerical Studies” Journal of Industrial Textile, accepted for publication.
7. B. Manikandaprabu, S. Mohan Kumar, **R. Kathiravan**, “*Pool boiling of water over a stainless steel flat plate heater*” **International Journal of Instrumentation, control and Automation (IJICA)** ISSN 2231-1890, volume 1 issue 3-4, pp, 81-86, 2013.
8. R. Muruganantham, G. Vignesh, R.Vignesh, P. Madhan, **R. Kathiravan**, “*pool boiling characteristics of water over a horizontal stainless steel tube heater*”,

- International journal of Mechanical and Production Engineering (IJMPE)**, ISSN: 2320-2092, volume 1, issue 2, pp, 23-29, 2013.
9. M.Hariharan, **R.Kathiravan** S.Senthil Kumar and M.Arun Prasad Technical Paper presented entitled on” Heat Transfer Analysis of Pool Boiling Stainless Steel Flat Plate Heater with Water” **International Journal of Scientific & Engineering Research**, Volume 5, Issue 5, May-2014 695 ISSN 2229-5518
 10. Boominathan. N, Dr. Vijayaraghavan.GK, **Dr. Kathiravan. R**, “ *Analysis the Effect of Impact on Mild steel shafts through Response Surface Methodology for Safety Consideration*”, **International Journal of Advance Research in Computer Science and Management Studies**, ISSN: 232 7782, Volume 3, Issue 2, February 2015
 11. N. Boominathan, **R. Kathiravan** G. K. Vijayaragavan., “*Analysis of noise impact on various parameters by response surface methodology for optimum safe working area and occupational health improvement*”. **Advances in Natural and Applied Sciences**. Published on 15-04-2016, Vol 10 issue 4 pp 133-138.
 12. Boominathan, **R. Kathiravan** G. K. Vijayaragavan., “*Modelling and analysing the Torsional and noise effects on round mild steel shafts by response surface methodology*”, **Advances in Materials Science and Engineering**, Published on Sep 2016, Vol 3, Number3 pp 17-26
 13. Boominathan, G. K. Vijayaragavan **R. Kathiravan**. Modelling and analyzing the Torsional and noise effects on round mild steel shafts by response surface methodology, *International Journal of Applied Environmental Science*. Paper code 56258, Accepted for publication through email on 14-06-2017.
 14. **R. Kathiravan**, N. Ramasamy., “*Effect of welding heat input on through thickness properties of TMCP steel plate*”, **IRACST – Engineering Science and Technology: An International Journal (ESTIJ)**,2017
 15. Boominathan, G. K. Vijayaragavan **R. Kathiravan** “*An experiment on noise and emission control in a modified exhaust system*” **International Journal of Applied Environmental Science**. Paper code 56258. Accepted for publication through email on July 18th 2018.
 16. N. Ramasamy, **R. Kathiravan**, N. Raju, “*Effect of Flame Straightening on Through Thickness Properties of TMCP Steel Plate*” **IJSRD - International Journal for Scientific Research & Development**| Vol. 5, Issue 04, 2017 | ISSN (online): 2321-0613
 17. Dr.V.Prasannamoorthy, P.Sundaramoorthi, **Dr. R. Kathiravan** “*Design and development of sag & swell hybrid compensator for voltage flickering in grid loads*” **Journal of Web Engineering**, Vol. 17, No.6 (2018) 2333-2340.
 18. R Vijay, A Vinod, **R Kathiravan**, S Siengchin and D Lenin Singaravelu, “*Evaluation of Azadirachta indica seed/spent Camellia sinensis bio-filler based jute fabrics–epoxy composites: Experimental and numerical studies*”, **Journal of Industrial Textile**, 0(00) 1–26, DOI: 10.1177/1528083718811086, (2018)

Papers presented in international conference - 6 and National Conferences – 5

1. Parthasarathy Saravanan, **Raja Kathiravan**, Million Asfaw, Muluwork Kashay, “Enhancement of Heat transfer using nanofluids” Accepted for ICAST 2018, Oct 5-7, 2018. And to be published in Springer journal.

2. **R. Kathiravan**, paper presented on “*heat transfer analysis of pool boiling in stainless steel flat plate heater*” in **International conference on Trends in Technology Convergence “TITCON – 2014’** conducted by AVS Engineering college Salem in association with **University of OULU, Finland** held on 8th & 9th April 2014.
3. **R. Kathiravan**, Paper presented on Nanotechnology in **2nd National conference on science in Tamil** on science day 28.02.2013 conducted by Periyar Maniammai University, Vallam..
4. **R. Kathiravan**, Paper presented on “*Pool boiling characteristics of water over a horizontal stainless steel tube heater*” at the **International conference on Mechanocal and production Engineering (ICMPE)** conducted by **ITResearch** held at Tirupati on 15th Feb., 2013.
5. **R. Kathiravan**, Paper presented on “*Pool boiling of water over a stainless steel flat plate heater*” at the **International conference on advance in Mechanical and Industrial Engineering (ICAMIE)** conducted by **IRNet** held at Chennai on 30th Sep., 2012.
6. **R. Kathirvan**, “Pool boiling characteristics of nanofluids” **National level conference** conducted by Velammal Engineering College, Chennai. During Nov.2009
7. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, “ Pool boiling Characteristics of Nanofluids” **19th National and 8th International ISHMT-ASME conference on Heat and Mass transfer**, Paper no. NFF -1, Abstract page no. 175, JNTU Hyderabad, January 3-5, 2008
8. **R. Kathiravan**, Ravi Kumar, Akhilesh Gupta, Ramesh Chandra, “Preparation characterization of Copper nanoparticles and their effects on pool boiling” **35th National Conference of Fluid mechanics and Fluid power (FMFP-2008)**, Proceeding page from 455 to 462 , PES Institute of Technology, Bangalore during December 11-13, 2008.
9. **R. Kathiravan**, Technical paper presented entitled on “Effect of addition of polymer (PVA) for energy saving in pumping of water through pipe lines”, **National Conference** on Recent Advances in Mechanical Engineering- **RAME-05** scheduled on 24th March 2005 at Noorul Islam College of Engineering, Kanyakumari.
10. **R. Kathiravan**, Technical Paper presented entitled on “Opportunities and Challenges faced by Indian Pharma”, **ONGC sponsored National level seminar** on *Global competitiveness of Indian Industries* on 27th March, 2004 at EGS Pillay Engineering College, Nagapattinam.
11. **R. Kathiravan**, Technical Paper presented entitled on “Effect of addition of polymer (PVC) for energy saving in pumping of water through pipe lines”, **All India Conference** on *Energy Conservation and Policy options for small and medium scale Industries* during 23-24, July 2004 at PSG College of Technology, Coimbatore.

Workshops and Short term Programme attended

- Two days participated in **National seminar** on “Carbon reduction by sustained use of Renewable energy sources” Periyar Maninammai University, sponsored by **MNRE India** during 22nd & 23rd Feb 2013.
- Two days participated in **2nd National symposium** on *Shock waves (NSSW2)* conducted by society for Shock wave Research (India) IISc Bengaluru and Periyar Maniammai University, during 27th & 28th Feb 2012.

- **Short term training programme** on “Electron Microscopy and their usage for Nanotechnology related research work” Organised by Institute Instrumentation Centre, **IIT Roorkee** held during October 3-10. 2007.
- **AICTE-ISTE short term Training Programme** on “Energy Prospects for future-Global Perspective” Organized by department of Mechanical Engineering, SCSVMV (Deemed University) Enathur, Kancheepuram, during 15 to 27 December 2003
- **National conference** on Recent trends in flow measuring techniques organized by Sri Angalamman College of Engineering and Technology, Tiruchirappalli on July 05, 2003.
- One day workshop on *Scanning Electron Mycroscopy (SEM)* organized by Nanotechnology division, Periyar Maniammai Univeristy, Vallam on 20.04.2013.
- **Two week ISTE** workshop on *Engineering thermodynamics* conducted by **IIT Bombay** from 11th to 21st Dec 2012 under the national mission on Education through **ICT (MHRD)**
- **Two week ISTE** workshop on *Engineering Mechanics* conducted by **IIT Bombay** from 26th to 6th Dec 2013 under the national mission on Education through **ICT (MHRD)**
- One day workshop on *Environment and pollution Awareness* **Sponsored by AICTE**, conducted by Sri Angalamman College of Engineering and Technology, Tiruchirappalli, on July 10, 2004.
- One day workshop on “Renewable Energy-Energy of the future” sponsored by **TEDA** on 20th August 2005, conducted by EGS Pillay Engineering College Nagapattinam.
- **AICTE-ISTE short term Training Programme** on “ *Latest trends in Refrigeration with special emphasis on food and medical preservation* ” Organized by department of Mechanical Engineering, Dr. Mahalingam college of engineering and technology, Pollachi during 29.03.2004 to 02.04.2004.

Passport Details

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 Date of Expiry: 17.08.2026
 Place of issue: Thiruchirappalli

References:

1. Er. V. Srinivasan
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All the above data mentioned herewith by me are true and correct to the best of my knowledge

With best regards,

Dr. R.Kathiravan.