



Profile:

Contact

PHONE:6380459761

EMAIL:ssstsrk@gmail.com

CONTRIBUTIONS.

Served as,

- Head of the Department
- NAAC Coordinator
- NBA Coordinator
- Chief Superintendent
- Recruitment Head
- Alumni coordinator
- Organized national conference
- One Patent published on Circular Axis four Stroke (CA4S) Engines.

RESEARCH AREA

- Thermal
- Refrigeration and air conditioning,
- Alternate refrigerants.
- Alternate fuels.

PUBLICATIONS: 44

Ph.D.PRODUCED: 4

Currently Pursuing a Course on
Master of Data Science – Deakin University

Professor

EDUCATION

College of Engineering, Anna University, Guindy. Chennai

College of Engineering, Anna University, Guindy. Chennai

B.E. (1989)

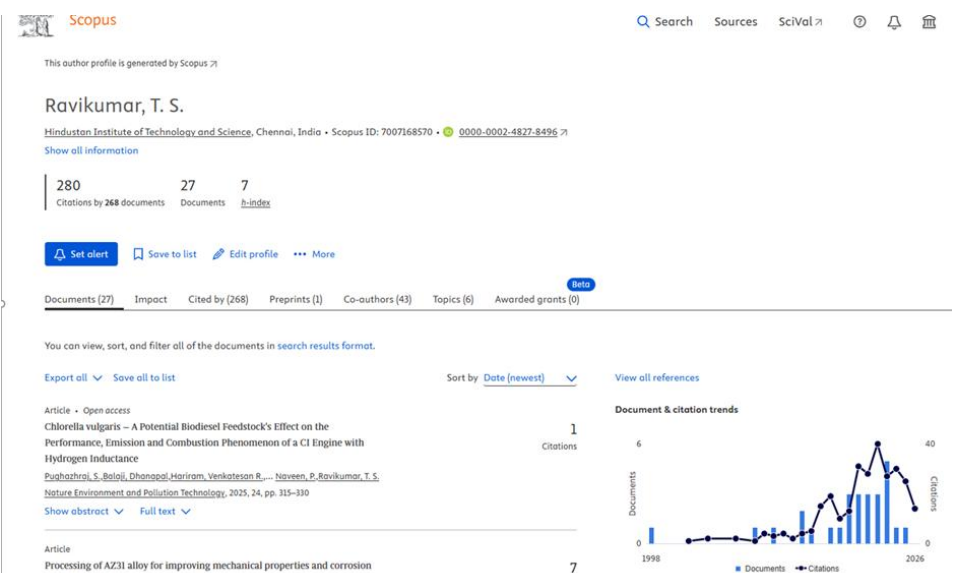
Mechanical Engineering.
University of Madras

Master of Data Science (AI&ML) – Deakin

University

- 1997

Scopus Publications



1. BIOGRAPHY

Dr. T.S. Ravikumar had his graduation in Mechanical Engineering in the year 1989, from Hindustan College of Engineering under Madras University. He obtained his postgraduation in the field of Refrigeration and Air conditioning in the year 1991 from college of Engineering, Anna University, Guindy. He completed his Doctoral degree in the year 2010 from College of Engineering, Anna University. His area of interest is Alternate refrigerants, Automobile air conditioning, Alternate fuels and composites.

He is a member in Indian Society of Technical Education, Institution of Engineers, and Indian Society of Heating, Refrigeration and Air conditioning Engineers.

He has guided more than 80 UG projects and 30 PG projects and produced 4 Ph.Ds.

COMPUTER SCIENCE RELATED COMPETENCY

SUBJECTS THAT I CAN HANDLE

1. Computer Animation and Simulation
2. Computer Networks
3. Programming for Problem Solving
4. Computer Organization and Architecture
5. Data Structures and Algorithms
6. Operating Systems
7. Business Intelligence and Analytics
8. Virtual Reality and Augmented Reality
9. Programming in C
10. Python for DataScience
11. Artificial Intelligence
12. Machine Learning
13. Neural Networks
14. Natural Language processing

Now pursuing a Course on Master of Data Science (AI & ML) – Deakin University

EDUCATION:

Ph.D., in the area of Air Conditioning. Topic: *An HFC/HC Blend for automobile air conditioning systems*, College of Engineering, Anna University, 2010

M.E., Thermal Science with Specialization in Refrigeration and Air conditioning, College of Engineering, Anna University, 1992.

B.E., Mechanical Engineering, Hindustan College of Engineering, University of Madras, 1989.

SCHEDULED TEACHING

- Engineering Thermodynamics
- Thermal Engineering
- Heat and Mass Transfer
- Gas Dynamics and Jet propulsion
- Power Plant Engineering
- Metrology and Measurements
- Electronic cooling for thermal systems
- Air Handling System Design
- Refrigeration system Design
- Air conditioning system Design
- Refrigeration and air conditioning
- Applied Hydraulics and Pneumatics
- Design of Machine Elements
- Machine Elements and Assembly Drawing
- Engineering Graphics
- Computer Aided Engineering Drawing

PROFESSIONAL MEMBERSHIPS

- **ASHRAE** – American Society of Heating Refrigeration and Air conditioning Engineers.
- **ISHRAE** - Indian Society of Heating Refrigeration and Air conditioning Engineers.
- **ISTE** – Indian Society of Technical Education.

INTELLECTUAL CONTRIBUTIONS

- 41 Journal papers in reputed peer reviewed International journals.
- 15 papers in National and International conferences.

INTELLECTUAL PROPERTY

- Patent: An novel design of environmental benign CA4S Engine [Provisional]*Patent no: 5738/CHE/2014.*

PRESENTATIONS as Resource person

- **Chief Guest and Key note speaker on Throttles 2015**, National conference, Dhanalakshmi College of Engineering, Anna University.
- **HVAC in Green Buildings– B.Arch.**, Green Building workshop – Hindustan University,
- **Automobile air conditioning** – ISHRAE, SRM University,
- **Automobile air conditioning** – Alpha college of Engineering, Anna University.
- **Steam power cycles**: Hindustan Institute of Technology & Science. Padur.
- **Refrigeration and Air conditioning**: KCG College of Engineering, Faculty Development program.

ACADEMIC RESEARCH

- 4 Doctoral Research scholars completed their research in the area of Alternate refrigerant, alternate fuels and composites.
- In house research in the field of Alternate Refrigerants for Automobile air conditioning, Bottle coolers (ISHRAE GRANT) and Refrigerators.

DEPARTMENT

- Head of the Department from June 2012 to August 2015.
- Board of Studies Chairman 2012 to 2015
- Board of Studies member
- Curriculum Review committee member
- NAAC Coordinator
- NBA Coordinator
- Revised Curriculum and Syllabus (2013 and 2018)

UNIVERSITY

- Board of Studies Chairman (June 2012 – August 2015),
- Board of Studies member (September 2015 – 2022)
- Academic council Member (June 2008 – August 2015)
- Chief superintendent for semester examination
- Overall Alumni Coordinator (2 years)
- PALS Coordinator (2 years)
- University Central Library Head (1 year)

2. ACADEMIC DETAILS

2.1 Qualifications

Degree	Class / Grade	University	Year of completion	Field of Specialization
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Ph.D.	-	Anna University	Dec 2010	Alternate Refrigerants
M.E.	First	Anna University	1991	Thermal Sciences (R&AC)
B.E.	First	Madras University	1989	Mechanical Engineering

2.2 Employment Record

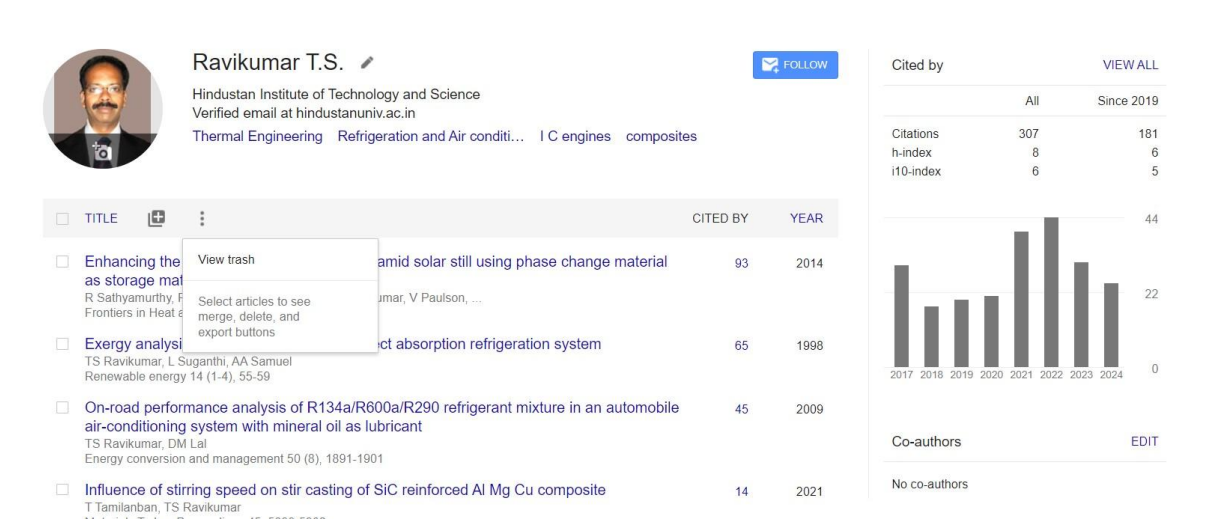
Institution / Organization	Designation	Service Period		Service period
		From	To	
Indian Maritime University	Visiting Faculty	August 2024	Till date	1 year
Hindustan University	Professor	Aug 2015	July 2024	9years
Hindustan University	Professor & Head	Jun 2012	Aug 2015	2 Years
Hindustan University	Professor	Dec 2010	21.06.12	2 Years
Hindustan University	Assoc. Prof.	June 2010	Dec 2010	2.5 years
Hindustan University	Asst. Professor.	June 2003	Dec 2010	5 years
Thangavelu Engg. College	A.P and HOD I/C	July 2000	May 2003	3 years
Tamil Nadu Electricity Board	Assistant Engineer	Dec 1996	June 2000	3 years 3 months
S.R.M. Engg. College	Lecturer	July 1993	Nov 1996	3 years 5 months
IRTT- Erode	Lecturer	July 1992	June 1993	1 year
Vijay Fire protection systems ltd.,	Erection Engineer	Aug 1989	Aug 1990	1 year 1 month

3 PUBLICATIONS

3.1 SCOPUS METRICS



3.2 GOOGLE SCHOLAR METRICS



3.3 JOURNAL PUBLICATIONS

1. Pughazhraj S.; Balaji D.; Hariram V.; Kumaraswamy R.; John J.G.; Naveen P.; Ravikumar T.S., (2025) Chlorella vulgaris – A Potential Biodiesel Feedstock's Effect on the Performance, Emission and Combustion Phenomenon of a CI Engine with

- Hydrogen Inductance (2025), Nature Environment and Pollution Technology, 24, 315-330
2. Kanthasamy S.; Ravikumar T.S. (2023), Processing of AZ31 alloy for improving mechanical properties and corrosion resistance using powder metallurgy (2024) Australian Journal of Mechanical Engineering, 22, 4, 652-665
 3. Riyami H.A.; Solomon G.R.; Ravikumar T.S.; Balaji D.; Hariram V. (2023) Performance Analysis of R1234yf and R134a in a Multi-Evaporator with Individual Expansion Valve in a Single Compression System, International Journal of Vehicle Structures and Systems, 15,4, 534-539
 4. Kanthasamy, S, Ravikumar, T S, *Synthesis of AZ31 alloy by magnesia packed sintering*, Australian Journal of Mechanical Engineering, 21, 4, 1198-1217, 2023, Taylor & Francis
 5. Kanthasamy, S, Ravikumar, T S, *Influence of Groundnut Shell Ash Particle (GSAp) Addition on Mechanical and Corrosion Behaviour of AZ31 Magnesium Alloy*, International Journal of Vehicle Structures & Systems (IJVSS), 15, 1, 2023
 6. Abdulla, Shaik , Ravikumar, T S, Dhanapal, Balaji, *Effect of variation in condenser inlet air temperature on actual COP in automobile air conditioning system*, AIP Conference Proceedings, 2779, 1, 2023
 7. Kanthasamy, S, Ravikumar, T S, Tamilanban, T, *Addition of Coconut Shell Ash Particle with AZ31 Magnesium Alloy-Assessment of Tribological and Mechanical Behaviour*, International Journal of Vehicle Structures & Systems, 15, 3, 305-308, 2023.
 8. Al Riyami, Hussain , Solomon, G Ravikumar , Ravikumar, TS, Balaji, D, *Performance Analysis of R1234yf and R134a in a Multi-Evaporator with Individual Expansion Valve in a Single Compression System*, International Journal of Vehicle Structures & Systems, 15, 4, 534-539, 2023.
 9. Kanthasamy, S, Ravikumar, T S, *Processing of AZ31 alloy for improving mechanical properties and corrosion resistance using powder metallurgy*, Australian Journal of Mechanical Engineering, Jan-14, 2022, Taylor & Francis
 10. Abdulla, Shaik , Ravikumar, TS, *Review on pragmatic refrigerants deployed in refrigeration and air conditioning system*, Recent Advances in Manufacturing, Automation, Design and Energy Technologies, Proceedings from ICoFT, 2020 , 795801, 2022, Springer Singapore

11. Abdulla, S, Ravikumar, TS, Balaji, D , Hariram, V, *Effect of Variation in Evaporator Inlet Air Temperature on Coefficient of Performance in an Automotive Air Conditioning System*, *International Journal of Vehicle Structures & Systems*, 14, 5, 559-562, 2022.
12. Abdulla, Shaik , Ravikumar, T S, Balaji, D , Hariram, V , *Influence of Evaporator Inlet Air Velocity on the Thermodynamic Properties in an Automotive Air Conditioner*, *International Journal of Vehicle Structures & Systems*, 14, 5, 563-566, 2022.
13. Thangaraju, Tamilanban , Ravikumar, T S, Kanthasamy, S, *Influence of Pouring Temperature on Stir Casting of Al/SiC/Mg/Cu Composite*, *Materials Science and Engineering*, 988 (1), 2021,
14. Thangaraju, Tamilanban , Ravikumar, Thirupandiyur Selvanambi , Kanthasamy, Sivaraman , *Microstructure and Mechanical Behaviour of Stir Casting Al/SiCp/Mg/Cu Composite with Varying Pouring Temperatures*, *Iranian Journal of Materials Science & Engineering*, 18, 4, 2021.
15. Tamilanban, T , Ravikumar, TS, Gopinath, C , Senthilrajan, S, *Taguchi GRA optimization of stir casting parameters in Al-SiC composite*, *Journal of Ceramic Processing Research*, 22, 6, 629-635, 2021,
16. Tamilanban, T , Ravikumar, TS, Kanthasamy, S, *Wear Behaviour Analysis of SiC/Mg/Cu Added Aa 6061 Alloy through Taguchi Technique*, *Journal of the Balkan Tribological Association*, 27, 5, 2021,
17. Ravikumar, T. TamilanbanT. S. ,*Influence of stirring speed on stir casting of SiC reinforced Al Mg Cu composite*, *Materials Today proceedings*, 2020, Science Direct, Elsevier.
18. Tamilanban, T , Ravikumar, T S, Kanthasamy, S, *Influence of stirrer blade design on stir casting of Al Mg Cu/12% SiC composite*, *IOP Conference Series: Materials Science and Engineering*, 1988, 1, 2020.
19. Kanthasamy, S, Ravikumar, T S, Tamilanban, T, *Mechanical and corrosion behavior of Groundnut Shell ash particle (GSAp) reinforced AZ31 magnesium composite*, 2020, Elsevier.
20. Kanthasamy, S, Ravikumar, T S, Tamilanban, T ,*Influence of Coconut Shell ash particle (CSAp) as reinforcement on mechanical and wear behavior of AZ31 magnesium alloy*, 2020, Elsevier.

21. Tamilanban, T , Ravikumar, T S, Kanthasamy, S, *Wear characterization of Aluminium composite reinforced with SiC/Mg/Cu through stir casting*, Solid State Technology, 63, 6, 17815-17823, 2020.
22. NS, Senthur , T S, Ravikumar, *Effects of various biodiesel blends on LHR engine*, *World Journal of Engineering*, 16, 1, 94-102, 2019, Emerald Publishing Limited
23. Senthur, NS, Ravikumar, T S, Imamulhasan, H , Ramganes, H, *Optimization of emulsified eucalyptus biodiesel and reduction of NOX in the IC engine*, AIP Conference Proceedings, 2128, 1, 2019, AIP Publishing.
24. Balaji, D , Pillai, T Mathevan , Gnanasekaran, K , Balachandar, M , Ravikumar, TS, Sathish, S, Sathiyamurthy, Ravishankar, *Dataset for compression ignition engine fuelled with corn oil methyl ester biodiesel*, Data in brief, 27, 104683, 2019, Elsevier.
25. N.S. Senthur, T.S. Ravikumar. ,*Comparative evaluation of performance and emission characteristics of Jatropha, pongamia, maua and eucalyptus oil-based biodiesel in diesel engine*, International journal of Mechanical and Production Engineering Research and Development, 8, 4, 813-822, 2018, Trans Stellar.
26. N.S. Senthur, T.S.Ravikumar. , *Performance and emission characteristics analysis of thermal barrier coated LHK engine fuelled with Eucalyptus water emulsion*, International journal of Ambient Energy. 2018, Taylor and Francis.
27. T. Mathevan Pillai, T. S. Ravikumar., *Renovation of boilers during life extension programme of power plants*, International Journal of Engineering Technology Science and Research, 5, 4, 236-239, 2018.
28. Senthur, NS, Ravikumar, TS, *Comparative evaluation of performance and emission characteristics of jatropha, pongamia, mahua and eucalyptus oil based biodiesel in diesel engine* Int J Mech Prod Eng Res Dev. 8, 845-854, 2018
29. Ravikumar, TS, Seralathan, Sivamani , Hariram, Venkatesan , Guntamadugu, Hemanth Kumar , *Numerical studies on heat transfer over a flat plate with triangular rib-groove geometry at laminar flow conditions*, Defect and Diffusion forum, 374, 121-130, 2017, Trans Tech Publications Ltd.
30. Senthur, N S, Ravikumar, T S, *An experimental investigation on performance, combustion and emission parameters biodiesel-water emulsion on a DI diesel engine* . International Journal of Engineering Sciences & Research Technology, 5, 8, 54-62, 2016.

31. Premkumar, T Micha , Seralathan, S, Ravikumar, T S, Jayagopal, J, *A Simulation Study of Flow and Pressure Distribution Patterns in a Two Stage Three Bucket Savonius Vertical Axis Wind Turbine*, Applied Mechanics and Materials 812, 03-Aug, 2015. Trans Tech Publications
32. Ravikumar, TS, Seralathan, S, Micha Premkumar, T ,Guntamadugu Hemanth, Kumar , *Numerical Study on Heat Transfer Enhancement in a Circular Dimpled Surface by Using Inline and Staggered Pattern at Laminar Flow Regimes*, Applied Mechanics and Materials, 813, 754-759, 2015, Trans Tech Publications Ltd.
33. Zaid md, T S Ravikumar ,*Air cooler by using Maisotsenkocycle*, International Journal of Applied Engineering Research, 10, 57, 306-311, 2015.
34. Senthur, NS, Ravikumar, TS, John, CijilB ,*Eucalyptus Biodiesel , an Environmental friendly fuel for Compression Ignition Engines*, American Journal of Engineering Research, 3, 3, 144-149, 2014.
35. Saravanana, S, *Design and Fabrication of Ultimate Chilling System*, International Journal of current Engineering and Technology, 535-538, 2014.
36. N.S. Senthur, T.S. Ravikumar, Cijil B john ,*Eucalyptus Oil - A promising biodiesel Fuel for Direct injection diesel engines*, Research Journals of Applied Sciences, 9,8, 538-542, 2014, MedWell Journals.
37. Senthur N, Ravikumar T S, Pradeepkumar A, Sasi Reka ,*Experimental investigation on performance, combustion, and emission characteristics of two different biodiesel fuels in a di diesel engine? A comparative analysis* Journal of Chemical and Pharmaceutical Sciences, 7, 232-235, 2014,
38. Sathyamurthy, Ravishankar , Nagarajan, PK , Kennady, Hyacinth , Ravikumar, TS, Paulson, V , Ahsan, Amimul, *Enhancing the heat transfer of triangular pyramid solar still using phase change material as storage material*, Frontiers in Heat and Mass Transfer (FHMT) 5, 1, 2014.
39. G.R.Solomon, T.S.Ravikumar, Raj V Antony Aroul, R.Velraj, *Performance analysis of thermal storage unit with possible nano enhanced phase change material in building cooling applications*, Energy Storage Science and Technology, 2, 2, 91-102, 2013.
40. Ravikumar, ThirupandiyurSelvanambi , Lal, Mohan D , *HFC/HC blend for car climate control with mineral oil as lubricant*, Thermal Science, 15, suppl. 2, 391-398, 2011.

41. Lal, T.S. Ravikumar and D. Mohan , , *Modeling and Simulation of Evaporator Used in Automobile Air Conditioning System*, International Journal of Applied Engineering and Research, 5, 20, 3409-3417, 2010.
42. Ravikumar, TS, Lal, D Mohan ,*On-road performance analysis of R134a/R600a/R290 refrigerant mixture in an automobile air-conditioning system with mineral oil as lubricant*, Energy conversion and management, 50, 8, 1891-1901, 2009, Pergamon.
43. Ravikumar, TS, Suganthi, L , Samuel, Anand A , *Exergy analysis of solar assisted double effect absorption refrigeration system*, Renewable energy, 14, 01-Apr, 55-59, 1998, Pergamon.
44. Desai, Anil Ashok , Ravikumar, T S, *Experimental Analysis of Cooldown Characteristics of an Automobile Air Conditioner Using Alternative Refrigerant*.

3.4 CONFERENCE PAPERS

1. N S Senthur & T S Ravikumar, *Eucalyptus oil-A promising alternative fuel for variable compression ratio engine*, International conference on advances in mechanical engineering, ICAME-2015- 16, October 2015, Anna university College of engineering, Villupuram -
2. Zaid and T S Ravikumar, *Air cooler by using Maisotsenko Cycle*, Innovative trends in Mechanical and Civil Engineering, ICITMCE-2015, PET Engg. College, Vallioor, Tamilnadu.
3. N S Senthur & T S Ravikumar, *Experimental Investigation on Performance, Combustion, and Emission Characteristics of Two Different Biodiesel Fuels in a DI Diesel Engine – A Comparative Analysis*, National conference on recent trends and developments in sustainable green Technologies-2015, MIT Campus, Anna University
4. P. Baskar, T S Ravikumar, *Modelling, simulation and performance analysis of porous disc receiver for solar parabolic trough collector*, International Conference on Emerging Trends in Renewable Energy ICETRE-2013, C.V. Raman College of Engineering, Bhubaneswar, Odish, India
5. Saravanan, T S Ravikumar, *Design and fabrication of Ultimate Chilling system*, International conference on Advances in Energy Research, ICAER 2013, IIT-Bombay.
6. Arun Jose, T S Ravikumar, *Performance Simulation of Automobile Air conditioner Using Alternative Refrigerant*, National Conference on Materials and Mechanical

Engineering, (NCMME 2013), Dr. Mahalingam College of Engineering and Technology, Pollachi,

7. Eldho Raj, T S Ravikumar, *Experimental Analysis of Automobile Air conditioner Using Alternative Refrigerant*, National Conference on Materials and Mechanical Engineering, (NCMME 2013), Dr. Mahalingam College of Engineering and Technology, Pollachi.
8. P. Baskar, T S Ravikumar, *Performance analysis of hybrid solar photovoltaic / thermal (PV/T) air collectors*, International Conference on Design, Analysis, Manufacturing and Simulation, (ICDAMS-2013), Saveeetha University, Chennai-602105.
9. Shaik Abdulla & T S Ravikumar, *Computational Analysis of Alternate Refrigerants to replace R22 in Window Air Conditioner*, Dr. M.G.R. Educational and Research Institute University, Chennai 2012.
10. Shaik Abdulla & T S Ravikumar, *Alternate Refrigerant for Window Air Conditioner*, Emerging Trends in Mechanical Engg. ETME-2012, KLN Engg College
11. Shaik Abdulla, T S Ravikumar, *R600a – A promising substitute for window AC*, INFO institute of Tech, Coimbatore, 2012
12. S. Kumar & T S Ravikumar, *Energy consumption in Automobile AC*, Emerging Trends in Mech.Engg, Sathyabama university, 2010
13. S. Kumar & T S Ravikumar, *Power consumption test in Automobile AC*, Maria College of Engg, NagerKoil, 2010.
14. Shaik Abdulla, T S Ravikumar, *Hydro Carbon: and Intermediate solution for R22 phase out*, ARIME-2012, Easwari Engineering College.

3.5 Magazine Article:

- T.S. Ravikumar, D.M Lal, *Alternate refrigerants for automobile air conditioning*, Cooling India, 5, 4, 56-70, 2009 (Cover page article).

4. TEACHING ACCOMPLISHMENTS

4.1 ICT based Teaching Materials

4.1.1 Course delivery through Power point presentation for the following subjects,

- Engineering Thermodynamics

- Thermal Engineering
- Power Plant Engineering
- Metrology and Measurements
- Engineering Graphics

4.2 Design of Curriculum

- i. Co-ordinated and Designed Curriculum and syllabus for
 1. M.Tech. Refrigeration and Air conditioning (OBE Syllabus 2013 - 14)
 2. B.Tech. Mechanical Engineering (OBE Syllabus 2013 – 14)
- ii. Introduced new experiments in thermal and RAC labs in 2012-13.
- iii. Coordinated in Design of Curriculum for B.Tech. Mechatronics (OBE Syllabus 2013-14).
- iv. Coordinated in Design of Curriculum for introducing Specialization courses –Engineering Design & Material Science in Mechanical Engineering.
- v. Introduced Design project in the curriculum for M.Tech. R & AC since inception.
- vi. Introduced in-plant training in the curriculum for M.Tech. R & AC in 2013.

5. Events Organized

5.1 Seminars/Workshops/Guest Lectures/FDP Organised

5.1.1 Seminars / Conference

- Organized a seminar on Power Plant Engineering in coordination with NTPC Noida in 2010.
- Organized an International conference on New and Renewable Sources of Energy in HITS in 2011.
- Coordinated an interdisciplinary International conference on Robotics, Automation and embed systems- RACE 2015 in HITS from 18th – 20th February 2015.
- Coordinated an International conference on Design, Manufacturing, and Processes – ICDMP – 2016, in HITS.

5.1.2 Guest Lectures:

- Invited Mr. Balakrishnan, Managing Director, S.G. Engineering, Chennai, to deliver a guest lecture on “Recent advancements in refrigeration and air conditioning”
- Invited Mr. Pradeep Samuel, Manager sales, Desiccant rotors international, to deliver a guest lecture on “Human comfort by conditioning air”
- Invited Dr. Antony Arulraj, ISHRAE Student Chair, to deliver a lecture on Cooling Loads for ISHRAE student members (65 students attended)
- Presented a Guest lecture on Refrigeration and Air conditioning essentials and Applications for ISHRAE student members
- Invited Managing Director of MYGMAT – Mr. Santhosh Karunandha to deliver a lecture on ‘How to think about Career’.
- Invited Managing Director of MYGMAT – Mr. Santhosh Karunandha to deliver a lecture on how to approach GMAT and GRE examinations and how to learn and remember 1000 words in six hours.

5.2 Industrial Visits Organized

- Arranged an Industrial visit for Mech 6B students to “Ennore Thermal Power Station”- Chennai 18.04.2016
- Arranged an Industrial visit to ETA Engineering Pvt ltd on 18.02.2016 for ISHRAE Students 24 + 1 faculty.
- Organized inplant training for 4 M.Tech. students in Comfair Systems, Nanthanam, Janatha Road, Vytilla, Ernakulam – 682019 (May 2015)
- Organized ISHRAE Chapter students to visit international Exhibition ACREX-2015 for R&AC at Bangalore during 26-28 Feb 2015
- Students attended the ISHRAE student chapters orientation program July 2015 at ISHRAE Chennai chapter office, Porur, Chennai.
- Students attended the ISHRAE student chapters orientation program on 26.07.14 at ISHRAE Chennai chapter office, Porur, Chennai.
- Industrial visit to Grundfos Company Chennai through ISHRAE student chapter- Hindustan University on 16.10.14.

5.3 Special Lectures Delivered

S.No	Name of the Course / Title	Remarks
1	OBE – Writing Learning outcomes (<i>and Filling 4 forms</i>)	Mechanical Faculty
2	OBE – an overview	Mechanical Faculty
3	RACE – 2015, International Conference	Mech, EIE, Auto
4	Chaired – Technical Session Inter. Conf on Recent Trends in Mech & Automotive Engineers	Alpha College of Engineering
5	Refrigeration and air conditioning and automobile AC	For ISHRAE students
6	Refrigeration and air conditioning	For ISHRAE students
7	Co-coordinator for YANTRA 2013	Mechanical Students Symposium
8	Refrigeration and air conditioning and Automobile Air conditioning	Alpha college of Engineering
9	Automobile air conditioning	SRM Engineering College
10	Chief Guest, Throttlez 2013, Technical symposium	Dhanalakshmi college of Engineering Tambaram
11	Delivered Lecture on Refrigeration and air conditioning	For ISHRAE students
12	ISO requirements	-
13	International Conference on Recent Trends in Renewable Energy Systems -2011, coordinator	HITS, Hindustan University
14	Seminar on Green Buildings (B.Arch) HVAC	HITS, Hindustan University
15	National Conference on Recent trends in Mechanical Engg. – Yantra- 2010, Convener.	HITS, Hindustan University

6. RESEARCH PROJECTS

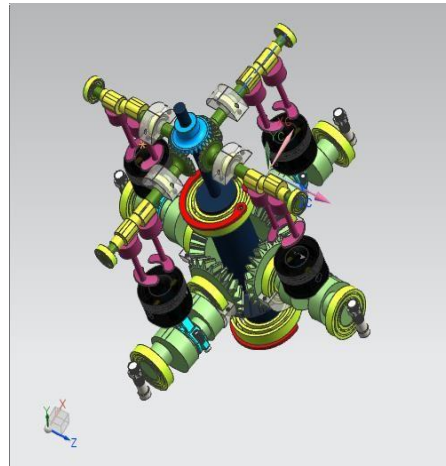
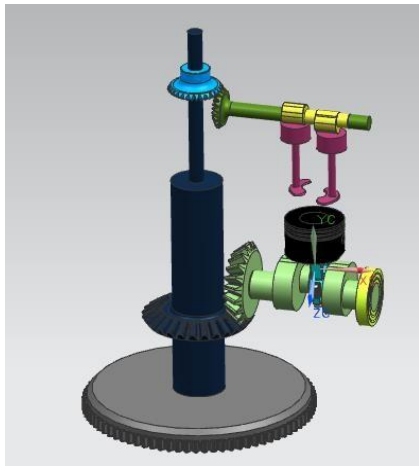
6.1 Funded Projects

Internal Funded Project “ Automobile air conditioning test rig”, 3.4 Lakhs

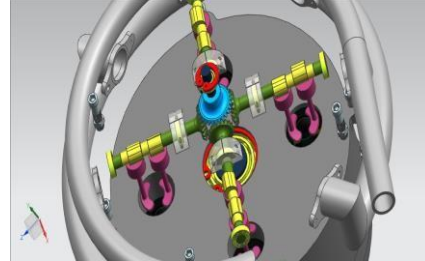
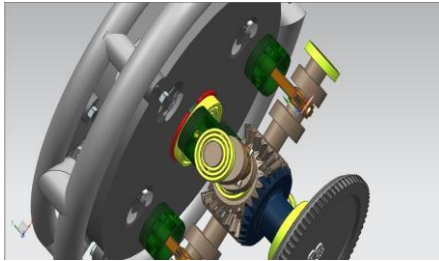
6.2 Consultancy Projects

S.No.	Area of Consultancy	Project title	Organization	Duration	Amount Received
1	Design - Failure analysis	Analysis of cause of explosion of chemical centrifuge	Orchid Chemicals	2 weeks	-
2	Thermal Design	Design of oil cooler for diesel locomotives	Universal Radiations	3 Months	1.1 lakhs
3	Manufacturing	Development of Guiding System for Heat Sealing Machine	Goodrich /UTC Aerospace Ltd	3 Months	Goodwill

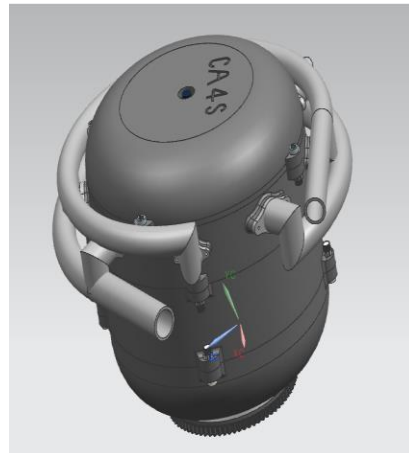
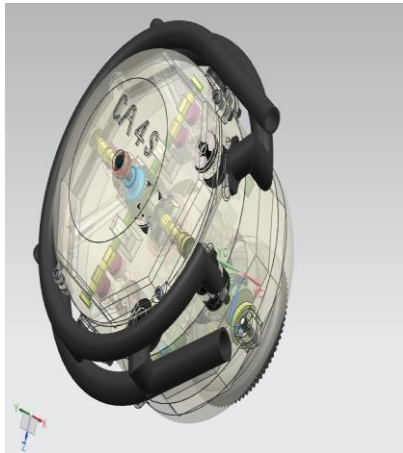
6.3 Patent: A NOVEL DESIGN OF CA4S ENGINE



Assembled view



Internal Assembly



Transparent & Full view of the CA4S engine

Dr. T S RAVIKUMAR



The Syndicate of the Anna University hereby makes known that
RAVIKUMAR T.S.
has been admitted to the Degree of Master of Engineering
in REFRIGERATION AND AIR CONDITIONING ENGINEERING *,*
he having satisfactorily completed the prescribed course of study
and having been certified by duly appointed Examiners to be
qualified to receive the same and having been placed by them in
the FIRST *Class at the Examination held in the*
month of FEBRUARY *in the year 1992.*



Given under the Seal of the University

*University Buildings,
Madras-600 025*

[Signature]

- H. Anandakrishnan



Ref: HITS/DHRD/P.T/VIII/21

24th August 2021

To

Dr. T.S. Ravikumar,

Professor,

Dept. of Mechanical Engineering.

It has been decided to convert your service from **Full Time Professor** to **Part Time Professor** in the Department of Mechanical Engineering with immediate effect. You are required to report for duty three days per week. You will be paid an honorarium of **Rs. 75,000/-** (Rupees Seventy-Five Thousand Only) per month for handling two subjects, course delivery, setting of question papers, evaluation and publishing of marks, etc.,

1. The above honorarium is subject to TDS as per IT norms.
2. You are required to handle subjects for students which will be allotted by your HOD (Mech) and to take part in all academic, research and consultancy activities.
3. You have to report to the HOD (Mech) for further assignments.
4. The other rules and regulations of the Institution that are in force from time to time will be applicable to you.
5. You will not be entitled for any leave / vacation of any other benefits as applicable to our regular staff.
6. You shall not leave the Institution during the course of the academic year.
7. Your services are terminable by three months notice on either side or salary in lieu thereof. However, the Management reserves the right to accept your resignation even before the expiry of the notice period.

We thank for your services as full time professor.


REGISTRAR

For the approval of

HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE

Ref: HITS/DHRD/O.O/VI/12

Dir. *VC*
15th June 2012

OFFICE ORDER

To
Dr. T.S. Ravikumar, Professor,
Department of Mechanical Engineering

From
Registrar's desk

Pl
15/6/12

The Management has decided to appoint you as **Head of the Department for Mechanical Engineering** with immediate effect. You are required to take charge from Dr. Hyacinth J. Kennedy, Professor & HOD, Mechanical Engineering immediately on receipt of this Office Order

Your duties and responsibilities as HOD are as follows:

1. Shall report to the Vice-Chancellor through Dean (M.S)
2. To handle two theory subjects.
3. Ensuring handling of classes as per time table and to make alternative arrangements in case of absence of staff.
4. To provide academic leadership in the field of specialization.
5. Monitoring and evaluation of the department.
6. Curriculum development and development of resource materials.
7. Students and staff assessment.
8. Providing / guiding in consultancy and R & D activities.
9. Design and Development of New Programmes.
10. To act as the Chairman, Board of Studies.
11. To have Industry Institution Interaction.
12. Counseling of students and staff.
13. Monitoring and reviewing the academic work and individual workload of the department.
14. Administration of the department, students and discipline.
15. Intimating the parents about the progress / studies of the students.
16. Organizing Conferences, Workshop, Seminars, Guest Lectures, Symposiums and other intra-departmental technical programmes, etc.,
17. Organizing Summer / Winter Schools

Please note that the above listed duties and responsibilities are only illustrative but not exhaustive.

You will be paid **Rs. 2,000/-** (Rupees Two Thousand Only) per month towards HOD allowance.

Wishing you all the best.

Pl
15/6/12
REGISTRAR

C.C: Chancellor / Pro-Chancellor / Director (AS) / Director (AV) / J.D (Admin.) / V.C for kind information
Copy to: Dir (A) / Dean(M.S)/D.D /HOD-Mech/Accounts / DHRD – File.

Yes
16/6

Received
18/06/12

UNIVERSITY CAMPUS :

P.O. Box No 1, Rajiv Gandhi Salai (OMR),
Padur, (Via) Kelambakkam,
Chennai - 603 103, India
Phone : +91-44-2747 4262, 2747 4395
Fax : +91-44-2747 4208



HINDUSTAN
UNIVERSITY

REGD. OFFICE :

40, G.S.T. Road,
St. Thomas Mount, Chennai - 600 016, India.
Ph : +91-44-2234 1389 / 2234 2508
Fax : +91-44-2234 2170
Email : hets@vsnl.com
www.hindustanuniv.ac.in

HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE

Established under Section 3 of the UGC Act, 1956

Ref: HITS/DHRD/PO/II/11

7th February 2011

To
Dr. T.S. Ravikumar,
Associate Professor,
Department of Mechanical Engineering.

"CONGRATULATIONS"

Sub: Promotion to the post of Professor – Orders issued.

The Management appreciates your services and is pleased to promote you to the post of Professor in the Department of Mechanical Engineering in our institution with effect from 21st December 2010.

You will be governed by the rules and regulations of the Institution as applicable from time to time. The duties and responsibilities mentioned in the appointment order and subsequent orders remain unchanged.

The Management wishes you all the best in your endeavours.


REGISTRAR

CAMPUS :

P.C. Bag number 01
Old Mahabalipuram Road
Padur, (Via) Kelambakkam,
Kancheepuram District 603 103.
Phone : 04114-274262, 274395
Fax : 04114-274208



REGD OFFICE :

40, G.S.T. Road, St. Thomas Mount,
Chennai - 600 016
Tel : (044) 22341389 / 22342508
Fax : (044) 22342170
E-mail : hetc@vsnl.com

HINDUSTAN COLLEGE OF ENGINEERING

Ref: HCE/DHRD/AO/VI/03

13th June 2003

Mr. T. S. RAVIKUMAR,
A2, Ramarajya Colony,
Sathan Kuppam Village,
Kelambakkam,
Chennai - 603 103.

Sub: Appointment as Assistant Professor in the Department of Mechanical Engineering – reg.

Dear Mr. Ravikumar,

With reference to your application and subsequent interview, the Management is pleased to appoint you as **Assistant Professor** in the **Department of Mechanical Engineering** in our institution as per the terms and conditions mentioned below:

1. SALARY

You will be paid a Basic Salary of Rs. **12,840/-** (Rupees Twelve Thousand Eight Hundred and Forty only) per month. You will also be paid a D.A of **Rs. 4,109/-**, HRA of Rs. **1,500/-** and CCA of Rs. **300/-** per month.

2. PROBATIONARY PERIOD

You will be on probation for a period of one year.

3. JOB DUTIES & RESPONSIBILITIES

- a) Teaching.
- b) Instruction in laboratories.
- c) Students assessment and evaluation.
- d) Assisting in consulting and R & D services
- e) Developing resources material and laboratory development.
- f) Co-Curricular and extra curricular activities.
- g) Assisting in departmental Administration.
- h) Conduct of examinations.
- i) Any other duties assigned by your superiors.

Please note that this list of duties and responsibilities is only illustrative but not exhaustive.

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(Affiliated to Anna University and Approved by
Government of Tamilnadu & AICTE - New Delhi)





S.R.M. Engineering College

S.R.M. NAGAR, KATTANKULATHUR - 603 203.
CHENGALPATTU M.G.R. DISTRICT

STD CODE 04114
TEL 52270
FAX 04114-52343
Email Srmec @Srmec.ernet.in

(APPROVED BY THE ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI)
AFFILIATED TO UNIVERSITY OF MADRAS

Prof. R. VENKATARAMANI, M.Tech., F.I.E.
Principal.

DATE:

30 NOV 1996

SERVICE CERTIFICATE

Certified that Mr. T.S. RAVIKUMAR, was working as LECTURER in the department of MECHANICAL ENGINEERING from 13.07.93 to 30.11.96 A.N. During this period his conduct and character are good.



R. Venkataramani
PRINCIPAL



Phone : (044) 450 1377, 450 1045
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E-mail : thangavelucollege@usa.net
tcc1@rediff.com

THANGAVELU ENGINEERING COLLEGE

(Approved by All India Council of Technical Education New Delhi and Affiliated to University of Madras)

I.T.Highway (Old Mahabalipuram Road), Karapakkam, Chennai - 600 096.

5.7.2003

SERVICE CERTIFICATE

This is to certify that **Mr.T.S.Ravikumar** has been working as Assistant Professor in the Department of Mechanical Engineering at this College from 4.7.2000 to 6.6.2003.

His character and conduct were GOOD during his tenure at this Institution.




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THANGAVELU ENGINEERING
COLLEGE, KARAPAKKAM
CHENNAI - 600 096