

Resume

Dr. Ravi Kumar Puli

Member Secretary, TSCOST &
Professor, Mechanical Engineering
Department

Professor I/c Innovation &
Incubation

National Institute of Technology, Warangal
Warangal – 506004
Telangana, India.

Mobile No: +91-9490378088

E-mail: ravikumar.puli@gmail.com

Web: <http://www.drravikumpuli.com>



Skills:

Actively participated as a negotiator in typical Government setup and help the bureaucratic minded employees to realize their potential, using simple motivation strategy for the better tomorrow of Telangana State.

1. Acting as a transforming agent to introduce new concepts in Government such as Air Car, Solar Energy utilization, Renewable sources which were performed by me.
2. Design of new ideas and concepts are leads to build a good state.
3. I can take the oath to encourage the un-employed Engineering graduates and make them as good citizens of Telangana state.
4. I would like to renovate the Technical Education System as powerful System than any other States in India.

Educational Qualifications (Reverse Chronological order)

Degree	Specialization	University/Institute	Year
E.E.M	Engine Emission Measurement	Leeds(UK)	2008
Ph. D.	Heat Transfer studies in Diesel engine	NITW	2007
M. Tech.	I.C.E & G.T	R.E.C.W	1995
B.E.	Mechanical Engineering	O.U	1991

1 Professional Experience: Teaching (From latest position)

Designation	Organization	Period	
		From	To
Professor	NITW	01-07-2010	Till Date (5 Years 9 Months)
Associate Professor	NITW	01-04-2006	30-06-2010
Selection Grade Lecturer/ Assistant Professor	R.E.C.W	01-04-2003	31-03-2006
Senior Lecturer	R.E.C.W	18-05-1999	31-03-2003
Lecturer	R.E.C.W	25-03-1992	17-05-1999

Total Experience in years: 24

Memberships in Professional Bodies:

- a. MISTE-LM
- b. SAE INDIA-7007410280
- c. Combustion Institute LME-1079

2 Additional Responsibilities shouldered on:

At Department Level: In-charge Thermal Engineering Laboratory, Course Coordinator for M.Tech (Automobile Engineering), Staff Advisor Mechanical Engineering Association, SAE

At Institute Level: President of NIT Teachers welfare Association, Public Relations Officer (P.R.O)

3. Distinctions/Awards and other information:

- I/C M.T Section 01-04-1997 to 30-06-2004
- R.E.C Hostels Warden 2004 to 2006
- Co-coordinator of SC/ST Cell 1995 to 2007
- R.E.C. Teachers welfare association (Joint Sectary) 1998
- Confidential team member for EAMCET 1997
- R.E.C/N.I.T SC/ST Employees welfare association (President) 1995 to 2010
- Teachers welfare association (President) N.I.T 2010 to Till Date
- Mechanical engineering association staff advisor 2009 to 2011
- Staff Advisor of Society of Automotive Engineers Students Club 2007 to till date
- Member in the admissions committee of AIEEE 2007,2008,2009,2010
- PhD examiner for the JNTUH, JNTUK, JNTUA, OU, AU.
- Board of Studies member for the JNTUH, JNTUK, JNTUA, OU, AU.
- Public Relations Officer (P.R.O)
- Training and Placements Officer (TPO) from Mar-2014 to till date

- Review member for NIT Manipur

4 Countries visited and presented the papers

- 2015- Malaysia to present the paper in International conference.
- 2014-Bangkok, Thailand to present a paper in International conference.
- 2010-Romania, Germany (BMW) & UK to present the paper in International conference in the month of 25th Oct to Nov 25th.
- 2008-United Kingdom (UK) for the project work for leads and Hertfordshire University.
- 2000-Singapore, Hong Kong & Indonesia to present the paper in International conference.
- 1997-Malaysia to present the paper in International conference (young scientist).

Areas of Research: I.C. Engines, Alternate Fuels, Design of Air Car, Fuel Cell car (Solar/Hydrogen), Engine Simulation.

5. Patents

Patent	Title	Reference
Global	Design and Development of Air Car	1090/CHE/2009
Indian	Solar Power Operated car with tracking unit	4423/CHE/2012
Indian	A Car Driven by Fuel Cell	4424/CHE/2012
Indian	Design and development of E-Car	4425/CHE/2012
Indian	Flying Car (A Prototype)	4426/CHE/2012
Indian	Solar Power Operated Tricycle And Bicycle	1562/CHE/2010 A

6. Guidance

B. Tech.: 60

M. Tech.: 44

Ph. D.: 06 (Awarded), 03 (In progress).

7. Research Publications

Journals	International Journals	32
Conferences	International (Annexure 15)	20
	National (Annexure 16)	07

8. Projects Executed

Sponsored Research Projects: 06

Consultancy Projects: 06.

9. Community Development Program

S.No	Program	Place	Duration
1	Finishing School For un-Employment Under Graduates from Andhra Pradesh state	NIT Warangal	2 Months
2	Design and Development of Solar try cycle for physically challenged peoples.	Warangal	Project submitted to Govt. of India for
3	Design and Development of Air Car for Zero emissions to control the environmental effects.	Warangal	2007-2009
4	Design and Development of Flying Car to help the needy people for emergency purpose like Ambulances, Fire engines.	Warangal	2009-2010

10. Conferences/STTP/ Seminars/Workshops/Training Programs Attended

S.No	Topic	Institute	Period
1	Certificate of Appreciation for Initiation of Collegiate Club Chapter NITW by SAE INDIA Southern Section	NITW	2011
2	Session Chair for 8 th Asia Pacific Conference on Combustion	NITW	Dec 10 th -13 th 2010
3	Faculty Advisor NITW, VIRTUAL BAJA SAE INDIA 2010-2011	NITW	Feb 15 th -16 th 2008
4	Faculty Advisor NITW, JK TYRE BAJA SAE INDIA 2009	NITW	Jan 30 th - Feb1 st , 2009
5	National Workshop on “Intellectual Property Rights”	NITW	Feb 15 th -16 th 2008
6	International Conference on I.C. Engines and Combustion	NITW	Dec 6 th - 9 th 2007
7	A Short Term Program on “Management In- Sight for Faculty Members”	Hyderabad	July 9 th -13 th 2007
8	A Training Program by Autodesk India Private Limited	Hyderabad	May 2 nd - 4 th 2007
9	Advanced Computational Methods in Thermal Engineering	NITW	Dec 15 th -27 th 2003
10	Analysis of Bio-Energy Technologies in India	NITW	Nov 3 rd - 7 th 2003,
11	Renewable Energy Sources for Environmental	NITW	Jan 28 th - 29 th

	Protection and Sustainable Development		2000
12	Design of manufacturability	REC Warangal	Dec 27 th 1999 - Jan 2000
13	System Approach to Computer Integrated Manufacturing	REC Warangal	Dec 28 th 1998 Jan 8 th 1999
14	Management Skills for Engineering Teachers	Hyderabad	Dec 18 th -19 th 1998
15	National Seminar on Technology Development: Trends and Challenges	NITW	Oct 3 rd - 4 th 1997
16	Short Term Course on Physics and Technology for Energy Conversion and Refrigeration using Thermo Electrics	NITW	Feb 24 th - March 1 st 1997
17	Total Quality Management	REC Warangal	May 29 th - June 9 th 1995
18	Summer School on Motor Vehicle Emission Regulations Test Cycles and Control Methods	IIT Madras	May 15 th - 26 th 1995
19	National Work Shop on Industrial Ergonomics and Safety	NITW	17 th 18 th February 1995
20	Implant Training at Defense Research and Development Laboratory	Hyderabad	May 12 th - July 12 th , 1994
21	Urban Mass Transit Systems Planning	REC Warangal	23 rd May -3 rd June, 1994

11. Continuing Education Programs/ Training Etc. attended:

Continuing Education / QIP Short Term Lectures / Special Lectures:

S.No	Program	Place	Dates	Sponsored by
1	Special Lecture on Design and Development of Air Car	CJIT, Jangoan	16 th July 2009	CJIT
2	Chief Guest TECHNO ZEAL – 2008	CJIT, Jangoan	7 th -8 th March 2008	CJIT
3	Special Lecture on Renewable Energy Sources	BEC, Bapatla	20 th August 2008	NED
4	Special Lecture on Design and Development of SBIT mini car (using unserviceable AutoParts)	SBIT, Khammam	9 th February 2008	SBIT
5	Chief Guest TECHNOVISTA - 2008	SVEC, Suryapet Nalgonda	30 th - 31 st January 2008	SVEC

12. M. Tech. Theses guided

S.No	Name of the Student	Title of Thesis	Academic Year
1	B.Ravi Kumar	Performance and Emission Characteristics of An SI Engine Using Gasoline Methanol Blends at different Ignition Timing	2013
2	T. Raju	Experimental studies on the effect of multi gap spark plug and ignition timing on SI engine fueled with methanol and gasoline blends.	2013
3	Rana Ranjit Singh	Experimental Investigations of the performance and emission of the modified CI Engine operating in HCCI mode by using biodiesel as fuel	2013
4	Namala Prem Kumar	Lean burn technology	2012
5	Ravi Kumar Nimmalapati	Conversion of bolted joint steel plate to a separate back plate of Gen-2 turbo for optimization of cost	2012
6	Nandini Bonam	Performance and emission characteristics of diesel engine using diesel vapors	2012
7	Sulabh Kawde	Comparative studies on diesel engine with different thermal barrier coatings	2012
8	K.Srujana	Experimental and computational studies on combustion performance of a compression ignition engine with diesel water emulsions	2009
9	Mohan Rao	Modeling of main carrier panel for Indian trucks	2009
10	Atul Katti	Effect of change in geometrical parameters of a water pump impeller on its efficiency	2009
11	D.Krishna Mohan	Modeling of cluster finish panel for Indian truck	2009
12	V.Venkateswarlu	Modeling of driver side panel for Indian trucks	2009
13	E.Krishna Deepak	Experimental investigations of a single cylinder D.I. Diesel engine with water Injection	2009

13. Ph.D.s guided

S.No	Name of the Candidate	Thesis Title	Status of Project
1	D.Jagadish	Experimental and theoretical studies on C.I. engine Performance and emissions using bio-fuels	Completed 2011
2	D.Vinay Kumar	Experimental Studies on a Biodiesel Fueled Diesel Engine Using Thermal Barrier Coatings	Completed 2013
3	Danaiah Puli	Experimental studies on the Effect of Oxygenated Additives on Performance of Spark ignition engine	Completed 2013
4	H.M.Dharmadhikari	Experimental Evaluation and Mathematical Modeling of Performance of Compression Ignition Engine Fueled with Blends of Diesel and Biodiesel	Completed 2013
5	A.T.Autee	Experimental investigation on pressure drop for Adiabatic air - water two phase flow in small diameter tubes and blends	Completed 2013
6	Pasha	Experimental Investigation on Combustion, Performance and Emissions Analysis on a Dual Fuel VCR Diesel Fueled Engine Enriched with Hydrogen, CNG and HCNG	Thesis submitted 2015
7	M. Vijay Kumar	Applications of additives in Biodiesel	Ongoing
8	K. Vijay Kumar	Performance and emission characteristics of IC engines with Plastic oil and Tyre oil blends	Ongoing
9	D. Ravichandra	Experimental analysis of the effects of Turbocharger on the performance and exhaust emissions of 4 cylinder 4 stroke diesel engine fueled with diesel and biodiesel.	Ongoing

14. International Journals

S.No	Author(s)	Title	Name of the Journal	Vol.	Page	Year
1.	Ravi Kumar P Quadri S.A.P, Masood M	Effect of pilot fuel injection operating pressure in hydrogen blended compression ignition engine: an experimental analysis	Elsevier, Fuel	157	279-284	2015
2.	Ravi Kumar P, A Veeresh Babu, M Vijay Kumar	Experimental investigation on the effects of diesel and mahua biodiesel blended fuel in direct injection diesel engine modified by nozzle orifice	Elsevier, Renewable Energy,	Accepted		2017
3.	Ravi Kumar P, K Vijaya Kumar	An effect of Alcohol-Plastic Oil Petrol blends on SI engine performance and exhaust emissions	Journal of mechanical science and technology	Accepted		Jan 2018
4.	Ravi Kumar Puli Puli Danaiah, Y.V.H. Rao	Performance and emission prediction of a Tertiary Butyl Alcohol gasoline blends on a spark-ignition engine	Taylor & Francis Publisher. Biofuels,	06	71-78	2015
5.	Ravi Kumar P P Danaiah, D Vinay Kumar	The effect of ignition timing and methanol gasoline blends on the performance and emissions of the spark ignition engine.	Taylor & Francis Publisher. International Journal of Ambient Energy.	35(3)	132-135	2014
6.	Ravi Kumar Puli Arun Autee, S. Srinivasa Rao,	Experimental study on two-phase pressure drop of air-water in small diameter tubes at horizontal orientation.	THERMAL SCIENCE	18 No.20p p	521-532	2014
7.	Ravi Kumar Puli Puli Danaiah	Effect of Methanol Gasoline Blended Fuels on the Performance and Emissions of SI Engine.	Taylor & Francis Publisher. .		175-180	2013

8.	Ravi Kumar P, K Vijaya Kumar	Study of Plastic Oil blended with Ethanol-Gasoline on Three Cylinder Petrol Engine	World Journal of Engineering	Accepted	July 2017
9.	Ravi Kumar P, K Vijaya Kumar	Influence of Plastic Oil with Ethanol Gasoline Blending on Multi Cylinder Spark Ignition	Taylor & Francis Publisher.	Accepted	Aug 2017
10.	Ravi Kumar P, K Vijaya Kumar	Performance and emission characteristics of diesel engine operated on plastic pyrolysis oil with exhaust gas recirculation	Taylor & Francis Publisher.	Accepted	Jan 2018
11.	Ravi Kumar P, K Vijaya Kumar	Investigations on performance of diesel engine by varying injection timings with design modification on piston crown	World Journal of Engineering	Accepted	2017
12.	Ravi Kumar P, A Veeresh Babu, M Vijay Kumar	Production of biodiesel from crude mahua oil by two steps of transesterification	Taylor & Francis Publisher.	Accepted	2017
13.	Ravi Kumar P, A Veeresh Babu, M Vijay Kumar	The impacts on combustion, performance and emissions of biodiesel by using additives in direct injection diesel	Elsevier, Alexandria Engineering Journal.	Accepted	2017
14.	Ravi Kumar P, A Veeresh Babu, M Vijay Kumar	Experimental investigation on mahua methyl ester blended with diesel fuel in a compression ignition diesel engine	Taylor & Francis Publisher.	Accepted	2017
15.	Ravi Kumar P, A Veeresh Babu, M Vijay Kumar	Reduction of Nitrogen Oxides Emissions in a Single Cylinder Compression Ignition Engine Using Cool Exhaust Gas Recirculation System	Iranica Journal of Energy and Environment	7(3)	268-273 2016
16.	Ravi Kumar P, Chandramohan V.P., Ravichandra D	Experimental analysis of deccan hemp oil as a new energy feedstock for compression ignition engine	Taylor & Francis Publisher.		2018

17.	P Ravi Kumar, P N Srinivas, Dr J E B Nelson, Dr S S Rao,	Experimental Studies on Energy Appropriation in a Single Cylinder Diesel Engine.	Springer Institute of Engineers.	85	45-49	2004
18.	Ravi Kumar P Vinay Kumar	Prediction of Performance and Emissions of a Biodiesel Fueled Lanthanum Zirconate Coated Direct Injection Diesel engine using Artificial Neural Networks	Elsevier, Procedia Engineering,	64	993-1002	2013
19.	P Ravi Kumar A Veeresh Babu	Transesterification for the preparation of biodiesel from crude-oil of Pongamia pinnata	THERMAL SCIENCE	13 No.3	201-206	2009
20.	P Ravi Kumar Autee	An Experimental Study on Two-Phase pressure drop in Small Diameter Horizontal, Downward Inclined, and Vertical Tubes.	THERMAL SCIENCE	19 No.4	1791- 1804	2015
21.	P Ravi Kumar Autee	The Effect of Supercharging on Performance and Emission Characteristics of C.I. Engine with Diesel-Ethanol-Ester Fuel.	THERMAL SCIENCE	15 No.4	1165- 1174	2011
22.	Ravi Kumar P P Danaiah	Evaluation of Performance and Emissions Characteristics of Lean Combustion with High Energy Spark Ignition	Energy and Power.	01(1)	21-25	2011

Note: more papers published

15. International Conferences (INDIA/ABROAD)

S. No.	Author (s) in the same sequence as it appears in proceedings	Title of paper	Name of Conference and held at	Year
1	Dr. Ravi Kumar Puli , K. Vijaya Kumar, D. Ravichandra, K. Abhishek	Investigation on a CI Engine Fuelled with blends of Waste Tyre oil	“Third International Conference On Advances in Mechanical, Aeronautical and Production Techniques - MAPT 2015. ” The conference will be held at Malaysia.	2015
2	Dr. P. Ravi Kumar , M. Vijay Kumar, Dr. A. Veeresh Babu	Investigation on a Direct Injection Diesel Engine Fuelled with blends of Waste Plastic oil with a Three hole Fuel Injection Nozzle	“The International Conference on Advances in Applied science and Environmental Technology - ASET 2015. ” The conference will be held at Bangkok, Thailand.	2015
3	P. Ravi Kumar S.A.P Quadri,	Consequences of CNG substitution on the exhaust emissions of diesel engine at different injection pressures.	International Conference on Emerging Technologies in Mechanical Sciences, ICEMS-2014, pp-95-99, ISBN-7789383038282.	2014
4	Ravi Kumar Puli , D. Ravichandra, Chandramohan V.P, K. Vijaya Kumar	An Experimental Study on Utilisation of Esterified Deccan Hemp Oil in Diesel Engine.	JNTU HYD, ICEE-2014 during Dec 15 th -17 th .	2014
5	Ravi Kumar Puli , Kareddula Vijaya Kumar, A Veeresh Babu, J.A. Ranga Babu	Performance and Emission Evaluation of Plastic Oil blended with Diesel Fuel in Compression Ignition Engine.	JNTU HYD, ICEE-2014 during Dec 15 th -17 th .	2014
6	Ravi Kumar Puli , Kareddula Vijaya Kumar, Monika Dixit, D Ravichandra,	Performance and Emission Evaluation of Tyre Oil blended with Diesel Fuel in Compression Ignition Engine.	JNTU HYD, ICEE-2014 during Dec 15 th -17 th .	2014
7	Ravi Kumar P , P. Danaiah,	Experimental Evaluation of Oxygenated Additive on the Performance And Emissions on SI	2nd International Conference on Advancements in Engineering and Management RITS-IC02703, ICAEM-2013 during 27th and 28th February, 2013	2013
8	Puli Ravi Kumar Donepudi Jagadish K. Madhu Murthy	Biodiesel Preparation by Transesterification and Testing in a Diesel Engine	International Conference on Recent Innovations in Technology, 10th-12th February, Rajiv Gandhi Institute of	2011

9	Puli Ravi Kumar	Combustion and Performance Analysis of CI modified SI engine using Lean Combustion Technology	Asia Pacific Conference on combustion (ASPACC-10), February in Hyderabad, India.	2011
10	Puli Ravi Kumar	Design and development of hybrid prototype car	International Conference on (CONAT)", October in Bucharest ,Romania	2010
11	P.Ravi Kumar A.Veeresh Babu, D.Vinay Kumar	Effect of injection pressure on the performance and smoke formation of low heat rejection engine using	International conference on frontiers in mechanical engineering, 20th – 23rd June N I T Surathkal, Karnataka.	2010
12	Puli Ravi Kumar, Donepudi Jagadish K.Madhu Murthy	The Effect of Injection Pressure on the Performance of Direct Injection Diesel Engine Fuelled with Biofuels	Proceedings of 8th Asia Pacific Conference on Combustion, 10th-13th December, Hyderabad, pp.731-738	2010
13	P.Ravi Kumar N.Rao	Comparison of performance characteristics of Direct injection diesel engine using blends of cottonseed oil, karanja,	4th International conference on advances in mechanical engineering, September 23rd – 25th, SVNIT, Gujarat, India	2010
14	P.Ravi Kumar, D.Jagadish, K.Madhu Murthy	Performance Characteristics of C.I.Engine Using Vegetable Oils – An Overview	International Conference on “Issues and challenges in Energy Conversion and Management”, ICEM, 18th-20th December, ITBHU, Varanasi, pp.34-45.	2009
15	P.Ravi Kumar	Performance Characteristics of C.I.Engine using Diesel-Vegetable Oils–	20th International Conference on I.C.Engines and Combustion, December 6th – 9th, JNTUH, India	2007
16	P.Ravi Kumar	Experimental Studies on Energy Appropriation in a Single Cylinder C.I Engine using Jatropha	20th International Conference on I.C.Engines and Combustion, December 6th – 9th, JNTUH, India	2007
17	P.Ravi kumar	Quasi-Dimensional Simulation and Heat Transfer Analysis of a 4-Stroke D.I Diesel Engine	20th International Conference on I.C.Engines and Combustion, December 6th – 9th, JNTUH, India.	2007
18	P.Ravi Kumar	Performance Evaluation of Wood Gasifier and Wood Gas Diesel Genset	International Symposium on Advances in Alternateive and Renewable Energy, July, Johor Bahru, Malaysia.	1997
19	P.Ravi Kumar Sardar Singh.M	Performance characteristics of diesel engine using fish oil diesel blends	International conference on advances in mechanical and building sciences”, December 14th – 16th , Vellore Institute of Technology, Vellore.	

20	P.Ravi Kumar Sardar Singh.M	Testing of methanol blended fuels as alternate fuels in S.I.engine	International conference on advances in mechanical and building sciences”, December 14th – 16th, Vellore Institute of Technology.	
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16. National Conferences

S. No.	Author (s) in the same sequence as it appears in proceedings	Title of paper	Name of Conference and held at	Year
1	P.Ravi Kumar, N.Rao	Experimental investigation of neem oil as a fuel in C.I.Engine”	National conference on advances and challenges in mechanical engineering, Erode Sengunathar Engineering College 25th to 26 th March, Erode, Tamilnadu, India.	2010
2	Puli Ravi Kumar Donepudi Jagadish K.Madhu Murthy	Performance Studies of Diesel Engine Operated on Biodiesel with Exhaust Gas	National Conference on Advances in Mechanical Engineering, 18th-19th November, Vasavi Engineering College, Hyderabad, pp.12-18	2010
3	Puli Ravi Kumar Donepudi Jagadish K.Madhu Murthy	Methods to Predict Equivalence Ratio and Particulate Matter From Diesel Engine	Proceedings of the National Conference on Advances in Mechanical Engineering, 18th-19th November, Vasavi Engineering College Hyderabad, pp.47-52.	2010
4	P.Ravi Kumar N.Rao	Experimental investigation of Karanja oil as fuel in C.I.Engine	National conference on futuristic trends in mechanical engineering, 29th-30th October, Gurunanak dev engineering college, Ludhiana, Punjab.	2010
5	P.Ravi Kumar,	Heat Transfer Characteristics of a Compression Ignition Engine	17th National Conference on I.C.Engines and Combustion, December 18th – 20th, KREC, Surathkal, India	2001
6	P.Ravi Kumar	Heat Transfer Characteristics of a Compression Ignition Engine	17th National Conference on I.C.Engines and Combustion, December 18th – 20th, KREC, Surathkal, India.	2001
7	P.Ravi Kumar	Catalytic Converter in I.C. Engine Pollution Control”	National Seminar on Renewable Energy Sources for Environmental Protection and Sustainable Development, January 28th – 2000.	2000

17. Sponsored Research Projects (From ongoing on top of the list)

S. No.	Project Title	Funding Agency	Amount (Rs. Lakh)	Status (Ongoing/Completed)	Investigator (s)
1	MINI CAR	SBIT College	3-5 lakhs	June, 2013 (ongoing)	Dr. Ravi Kumar Puli
2	Sports car (SAE-BAZA)	NIT W	5-7 Lakhs	2013 (Completed)	Dr. Ravi Kumar Puli

18. Consultancy Projects (From ongoing on top of the list)

S. No.	Project Title	Funding Agency	Amount (Rs. Lakh)	Status (Ongoing/Completed)	Investigator (s)
1	Dynamo car	REC W	1-2 Lakhs	June, 2013 (ongoing)	Dr. Ravi Kumar Puli
2	Solar Tri cycle	CJIT College	1 lakh	2013 (Completed)	Dr. Ravi Kumar Puli

Personnel Data: 47 years old happily married with two daughters living in Hyderabad