


Sri Sai Ram Engineering College
Department of Mechanical Engineering

Name : Dr. L. SARAVANAKUMAR	
Designation:	Associate Professor
Qualification :	M.E., Ph.D.
Area of Specialization :	Thermal Plant Engg.
Experience :	Teaching : UG: 21yrs. PG : --
	Industry : 6 yrs
No. of workshop / Conferences / FDP attended :	National Conf. : 4 FDP :10
*** No. of workshop / Conferences / FDP organized:	International conf. : 2 Workshop : 4 FDP : 2
*** Funded Projects	2
Publication :	Journal National : - International : 11
	Conference National : 4 International : 3
Research Guidance :	-
General : -	Authored one book in Power Plant Engg.
Staff Achievements: -	<ul style="list-style-type: none"> Got one funded AICTE projects <ol style="list-style-type: none"> Under MODROB in I.C.Engines

ACADEMIC BACKGROUND

Course	Institution	Year of Passing	Board/University	Percentage of marks (%)
Ph.D Alternate Fuels	JNTU Anantapur	2017	Jawaharlal Nehru Technological University (JNTU)	---
M.E (Thermal Plant Engineering)	Shanmuga College of Engineering, Thanjavur	2000	Bharathidasan University, Tiruchirappalli	72.6%
B.E (Mechanical Engineering)	Govt. College of Engineering, Salem	1991	Madras University	59%
Higher Secondary	Govt. Boys Hr.Sec.School,	1987	State board	75
S.S.L.C	Khajamian Hr.Sec.School, Tiruchirappalli	1985	State board	60%

Experience: (Details)

Professional Experience:

Sl. No	College/Organization	Designation	From Period To	Total period	Nature of work
1.	Sri Sairam Engineering College, Chennai	Associate Professor	01.08.2010 to till date	15 Years 10 months	Teaching
		Sr. Lecturer	31.03.2006 to 31.07.2010	4 Years 4 months	
2.	P.G.P.College of Engineering and Tech., Namakkal	Senior Lecturer	December 2000 to March 2006	5 Years 3 months	Teaching
3.	Shanthi Machine Works, Trichy.	Manufacturing Engineer	April 1994 to May 1998	4 Years 1 months	Manufacturing the machine component, quality
4.	D.R.R.Auto Industries, Chennai	Production Engineer	December 1992 to April 1994	1 year 4 months	Production

Professional Membership

1. Life member in ISTE.
2. Member in SAE.
3. Member in IEEE
4. Member in ISHRAE

Workshop/Conferences/FDP attended :

1. Presented a paper titled “Heat Exchanger Analysis using twisted inserts” in National Conference held at Erode Sengunthar Engg. College, Erode in Jan’2006.
2. Presented a paper titled “Experimental Investigation of 4-Stroke C.I.Engine using Pongamia oil with EGR Techniques” in National Conference held at SJCS Engg. College, Mysore in Nov’2006.
3. Participated in Fifteen days faculty Development Programme on “Engineering Graphics” conducted during 11 – 23 June 2007 at Anand Institute of Higher Technology, Chennai.
4. Participated in Five days workshop on “Finite Element Analysis Concepts and Applications” conducted during 26 – 30 March 2008 at VIT University, Vellore.
5. Presented a paper titled “Preparation and performance study of cottonseed Biodiesel fuelled in greaves 4-stroke single cylinder Diesel engine” in International Conference held at Veltech Engg. College, Chennai in Jan’2010.
6. Participated in DRDO sponsored One day workshop on “Biofuel and its Applications in IC Engines” organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Annamalai University on 30th August 2010.
7. Participated in Two days workshop on “Virtual Instrumentation in Industrial Automation” conducted in association with Trident Techlabs during 24 – 25 June 2011 by Department of Instrumentation and Control Engineering at Sri Sairam Engineering College, Chennai.
8. Participated in 8 days Faculty Development Programme in ME 2041 Advanced I.C.Engines, organized by Anna University, Chennai-24, from 10th December 2012 to 17th December 2012.
9. Two days national workshop on “Computational Fluid Dynamics (NWCDFD 2015)” organized by the department of Mathematics, SSN College of Engineering, Chennai.

10. Participated in Two days FDP on “Outcome Based Education” conducted by IQAC of Sri Sairam Engineering College held on 5th and 6th April 2019.
11. Participated in Two days workshop on “Design of solar PV and Thermal Energy Systems” organized by Department of Mechanical Engineering during 19th and 20th July 2019 at Kongu Engineering College, Erode.
12. Participated in Five days ATAL FDP on “3D Printing & Design” from 23rd to 27th November 2020 at Maharshi Dayanand University.
13. Participated in Five days ATAL FDP on “Soft Computing Techniques” from 2nd to 6th November 2020 at Dr. S. & S. S. Ghandhy Government Engineering College.
14. Participated in in Five days ATAL FDP on “Bioconversion Technologies and Start-up Opportunities in Biofuels Production” from 14th to 18th June 2021 at Silver Jubilee Govt College.

Workshop/Conferences/FDP organized :

1. Coordinator for International Conference on Emerging Trends in Energy and Environment at Sri Sai Ram Engg. College, Jan’2010.
2. Coordinator for International Conference on Emerging Trends in Energy and Environment at Sri Sai Ram Engg. College, Jan’2014.
3. Two day workshop on Computational Fluid Dynamics on 14/09/2016 and 15/09/2016 at Sri Sairam Engineering College, Chennai-44.
4. One day workshop on Renewable Energy on 28/02/2017 at Sri Sairam Engg. College, Chennai-44.
5. One day workshop on Energy Conservation and Management on 5th October 2018 at Sri Sairam Engg. College, Chennai-44.
6. One day Training Program on Energy Conservation and Management on 14th February 2020 at Sri Sairam Engg. College, Chennai-44.
7. Two weeks refresher course on Advancements in Mechanical, Production & Civil Engineering and ICT in Teaching – Learning Process organized by the IQAC & HRD Centre of Sri Sairam Engineering College in association with the Department of Mechanical, Production & Civil Engineering on 13th May 2020 to 26th May 2020.

8. One day Skill Enhancement workshop on Artificial Intelligence and Machine Learning Applications at Sri Sairam Engineering College in association with Automobile Club on 20th May 2021.

Funded projects

1. Received an amount of Rs.5,50,000 (Rs. Five lakhs Fifty Thousand) under MODROB Scheme from AICTE.

Resource Person in FDP: 2

Journal Publications:

International Journal

1. Abhinav Kumar, Utkarsh Chaudhary, Amit Kumar Dinday, C. G. Mohan, R. Prakash, L. Saravanakumar & S. Prabhakar, Assessment of performance and emission characteristics of an off-highway vehicle engine fuelled with renewable fuel blends, **International Journal of Ambient Energy**, <https://doi.org/10.1080/01430750.2021.2003241>
2. J.S. Adhiseshan, S. Abirama Sundaram, L. Saravanakumar, Experimental investigations of a single cylinder four stroke diesel engine using modified piston bowl fuelled with Jojoba biodiesel blend, **Materials Today: Proceedings**, Volume 46, Part 19, 2021, p9844 – 9849. <https://doi.org/10.1016/j.matpr.2020.11.414>.
3. N. Gunasekar, C.G. Mohan, R. Prakash, L. Saravanakumar, Utilization of coconut shell pyrolysis oil diesel blends in a direct injection diesel engine, **Materials Today: Proceedings**, Volume 45, Part 2, 2021, p 713 – 717. <https://doi.org/10.1016/j.matpr.2020.02.744>.
4. L. Saravanakumar and R. Prakash, Validation of performance and emissions of a CI engine fueled with calophyllum inophyllum methyl esters using soft computing technique, **Fuel** 266 (2020) 117070.

5. L.Saravana Kumar^{*1}, B.R.Ramesh Bapu² and R.Prakash³, Consequences of exhaust gas temperature on emissions in CI engine fueled with Calophyllum Inophyllum methyl ester blends with diesel, **Progress in Industrial Ecology – An International Journal**, Vo. 13, No.3, 2019.
6. B.R.Ramesh Bapu¹, L.Saravanakumar^{*2} and B.Durga Prasad³, Effects of combustion chamber geometry on combustion characteristics of a DI Diesel engine fueled with CalophyllumInophyllum Methyl Ester, **Journal of the Energy Institute**, 90(1) (2017) 82 – 100.
7. L.Saravanakumar^{*1}, B.R.Ramesh Bapu² and B.Durga Prasad³, Effect of injection pressure and combustion chamber geometry on diesel engine fueled with Calophyllum Inophyllum Methyl Ester, **International Journal of Applied Engineering Research**, Vol. 10 No.50 (2015) 679 – 684.
8. L.Saravanakumar^{1,a*}, B.R.Ramesh Bapu^{2,b} and B.Durga Prasad^{3,c}, Effect of Combustion Chamber Geometry on Performance and Emission Characteristics of a Diesel Engine Fueled with Mahua Biodiesel Blends, **Advanced Materials Research**, Vol. 984-985 (2014) pp 900-906.
9. L. Saravanakumar^{*1}, B.R. Ramesh Bapu⁺ and B. Durga Prasad[#], Performance and Emission Characteristics of a CI Engine Operating on Methyl Esters blended Diesel with Di-Methyl Carbonate Additives, **International Energy Journal**, 14 (2014) 121-132.
10. L.Saravanakumar^{*1}, B.R.Ramesh Bapu² and B.Durga Prasad³, Analysis and Effect of Squish Generation using CFD on Variable Compression Ratio C.I.Engine, **IJERT**, Volume 2, Issue 9 (September 2013).
11. L.Saravanakumar^{*1}, B.R.Ramesh Bapu² and B.Durga Prasad³, Preparation and performance study of cottonseed biodiesel fuelled in greaves 4-stroke single cylinder Diesel engine, **CiiT International Journal of Automation and Autonomous Systems**, 3(3) (2011) 139 – 146.

Conference Publications:

National Conference

1. L.Saravana kumar^{a*}, B.R.RameshBapu^b, B.DurgaPrasad^c, Biodiesel Synthesis and Analysis : A Review – 2nd National Conference on Technological Advancements in Mechancial Engineering (TAME – 2013)
2. L.Saravanakumar^{*1}, B.R.Ramesh Bapu² and B.Durga Prasad³,Effect of injection pressure and combustion chamber geometry on diesel engine fueled with Calophyllum Inophyllum Methyl Ester, in the National Conference on Advancements in Mechanical, Environment, Safety and Health Engineering (AMESHE-2015) held on 9th May 2015 at Knowledge Institute of Technology, Salem.
3. L.Saravana kumar^{a*}, B.R.RameshBapu^b, B.DurgaPrasad^c, Effect of Combustion Chamber Geometry and Compression Ratio on Performance and Emission parameters, 24thNational Conference on I.C.Engines and Combustion (24th NCICEC 2015)
4. Dr.L. SaravanaKumar^{*1}, Dr. B. R. Ramesh Bapu², Dr. B. Durga Prasad³ and Dr. A. Rajendra Prasad⁴, Effects of Piston Bowl Geometry and Injection Pressure on Performance and Emissions of a Diesel Engine Fueled with Calophyllum Inophyllum Methyl Ester” 25th National Conferences on IC Engines and Combustion (25thNCICEC), NITK, Surathkal, Mangalore, 15th to 17th December 2017.

International Conference

1. L.Saravanakumar^{*1}, B.R.Ramesh Bapu² and B.Durga Prasad³, Preparation and performance study of cottonseed biodiesel fuelled in greaves 4-stroke single cylinder Diesel engine, **International Conference on Smart Technologies** on 30th Oct’11 to 1st Nov’11 at Veltech Technical University, Chennai.
2. L.Saravana kumar^{a*}, B.R.RameshBapu^b, B.DurgaPrasad^c, Experimental Investigations and Comparative Study of Calophyllum Inophyllum Methyl Ester and Mahua Methyl Ester with Diesel inVariable Compression Ratio C.I.Engine - **International Conference on Engineering (NUiCONE 2013)** during 28th to 30th November 2013.

3. L.Saravanakumar^{1,a*}, B.R.Ramesh Babu^{2,b} and B.Durga Prasad^{3,c}, Effect of Combustion Chamber Geometry on Performance and Emission Characteristics of a Diesel Engine Fueled with Mahua Biodiesel Blends, **International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments** on 7th & 8th March 2014 at Ponjesly College of Engineering, Nagercoil.