



Sri SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
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DEPARTMENT OF MECHANICAL ENGINEERING PERSONAL ATTENTION PARENTAL CARE

Name : Dr.J.KAMALAKANNAN
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Qualification : B.E, M.E, PhD.
Specialization : Mechanical Engineering
Research Interest : Bio Fuels, Alternative Fuels



Experience in years : **Teaching** UG : PG : **Industry** :
No. of Workshop/Conferences/
FDP / Webinar attended : Workshop & Webinar : 16 Conferences :04 FDP :8
No. of Workshop/Conferences/
FDP/ Webinar Organized :Workshop & Webinar Nil Conferences:03 FDP:01

Professional Membership	IEEE, IEEE (Robotics Society)
Publications	National : 02
	International: 06
	Book : Nil
Research Funded Projects	Nil
Consultancy	Nil
Patents	4- patent published
Academic Achievements	The Following Subjects Produced Above 95% Result <ol style="list-style-type: none"> 1. Process Planning & Cost Estimation – 95% 2. Dynamics of Machinery-100% 3. Thermal Engineering-96% 4. Gas Dynamics and Jet Propulsion-100% 5. Heat and Mass Transfer-98% 6. Automobile Engineering-100% 7. Engineering Thermodynamics -95%

	8. Alternative Fuels-100% 9. Spark Ignition Engines-100% 10. Compression Ignition Engines-100% 11. Engineering Mechanics-95% 12. Power Plant Engineering-100% 13. Engineering Graphics-100%
Recognitions & Honors	Best Senior Faculty Award Received by Novel Research Academy
Any Other Information	Nil

List of Publications:

1. **Experimental Investigations To Study the Characteristics of Rubber-Seed-Oil-Fueled Diesel Engine Supplemented with Diethyl Ether**, B. Nagalingam V. Edwin Geo,G. J. Kamalakannan, Nagarajan, 2009/1/2, Energy & fuels
2. **Effect of hydrogen addition on performance, emission, and combustion characteristics of Deccan hemp oil and its methyl ester–fuelled CI engine**, Kamalakannan Jayaraman, Edwin Geo Varuvel Geetha Narayanasamy Babu, Gopinath Dhandapani Environmental Science and Pollution Research-2019, 26 (9), 8685-8695
3. **Designing and testing of renewable energy based electric vehicle with GSM technology**, B Senthil Kumaran, JP Sridhar, J Kamalakannan, KV Malini, S Monesh, A Venkata Narayana,2023/3/24,AIP Conference Proceedings, Volume.2690,Issue.1, Page no.020044
4. **Comparative study of sintered and composite brake pad for wind turbine applications**, J. Kamalakannan and A. Baskar MA. Sai Balaji , Jitendra Kumar Katiyar , A. Eakambaram , P. Baskara Sethupathi, Proc IMechE Part J: J Engineering Tribology. DOI: 10.1177/13506501231159188
5. **Improving thermal performance of the CI engine using a bio-diesel with nano-additives**, B. Vijayakumar N. Ahalya V. Venkatesan J. Kamalakannan Shubhajit Halder Kumar Pratyush, 2022/8/23, Material Today Proceeding
6. **Influence of Nano-additive on the Performance of Diesel with Rape Seed Oil as Bio-diesel**, M Rajeshwaran. Satyanarayana Tirlangi, Naga Sudha , J. Kamalakannan, S.K.Narendranathan, J. Madhusudhanan, Journal of Physics: Conference Series

Books / Book Chapters : Nil

Patents Details:

1. Lemon Grass oil Composition- Diesel blend as alternative fuels for diesel engine. Application No: 201941048053, Publication Date: 06/12/2019
2. Geared Electric Bike, Official journal of pattern office, Issue No: 48/20,

Application No: 202041049411, Publication Date: 27.11.2020

3. Compressed Air Production and Energy Generation using Vehicle Suspension
Application No: 202241040206A, Publication Date: 22/07/2022
4. A control System for IC Engine Fuel Injection Assembly and Working.
Application No: 202241066594A, Publication Date: 23/12/2022

Awards / Recognitions:

Best Senior Faculty Award Received by Novel Research Academy

National & International Conference (s) :

1. **Combustion , Performance and Emission of Compression Ignition Engine using Deccan Hemp Biodiesel and Ethanol** on 19th and 20th September 2019 at 3rd National Conference on technological Advances in Mechanical Engineering, Conducted by Department of Mechanical Engineering, AMET University.
2. **Experimental Investigation on the use of rubber seed oil with DEE in a DI Diesel Engine** on 13th and 14th March 2008, Organized by Department of Automobile Engineering , Sri Venkateswara College of Engineering
3. **Experimental Investigation of Deccan Hemp oil Biodiesel (B60) with n-Butanol port Injection.** March 2019 at 3rd Internal Conference on recent Trends in Science and Technology Organized by GKM College of Engineering and Technology
4. **Experimental Investigation of Deccan Hemp oil Biodiesel (B60) with Nano Additives in Direct Injection Diesel engine.** March 2019 at 3rd Internal Conference on recent Trends in Science and Technology Organized by GKM College of Engineering and Technology
5. **Experimental Investigation of Deccan Hemp Oil Biodiesel blends Direct Injection Diesel engine.** March 2018 at 2nd Internal Conference on recent Trends in Science and Technology, GKM College of Engineering and Technology.
6. **Experimental Investigation of synthetic fiber reinforced composite,** International Conference on Material and Manufacturing for sustainable developments 2022.15-16th Sep 2022.
7. **Performance, Emission and Combustion characteristics of higher blends Deccan hemp oil methyl ester in a single cylinder diesel engine.** Conference Proceedings, 26-27 Novemeber 2022,Cairo, Egypt.

Programs Organized:

1. **National seminar on Solid waste management a programme Sponsored by CSIR and Organized by GKM College Of Engineering And Technology during 21st August 2013.**
2. **International workshop on Energy ,Environment and Efficiency programme Sponsored by DST and Organized by GKM College Of Engineering And Technology during 12th and 13th September 2013.**

3. **International Conference on Solar and Biomass Energy Sponsored by AICTE** and Organized by GKM College of Engineering And Technology during 7th and 8th January 2014.
4. **International workshop on Energy Efficient Green building Sponsored by MNRE** and Organized by GKM College of Engineering And Technology during 19th and 20th September 2014.
5. **2nd International Conference on Recent trends in Science and Tcehmology** Organized by GKM College of Engineering And Technology during 20th March 2019.

Programs Attended:

Name Of The Programme	Duration	Organization/Institution
CAD /CAM using CNC	06 Days	College of Engineering, Guindy
Diesel Engines – Basic and Emission control	One Day	College of Engineering, Guindy
Electronic Engine Management Systems for reduction of emissions	5 days	Velammal Engineering College, Chennai.
Gas Dynamics and jet propulsion	7 days FDP	College of Engineering, Guindy
Kinematics Engineering	6 days FDP	GKM College of Engineering and Technology
Engineering Mechanics	12 days FDP	GKM College of Engineering and Technology
NAAC Awareness on Quality System in Higher Education	2 days	AnnaUniveristy –Internal Quality Assurance Cell
Diesel Engine Exhaust gas Treatment	1 day	St Joseph Institute of Technology
Recent innovations and futuristic Scope for research in internal combustion engines	7 days FDP	St. Joseph Engineering College
Modern Martials and Industrial Automation	6 days FDP	Sairam Institute of technology
Battery Operated Electric Vehicle – Research Perspective	1 day	Crescent Institute of Science and Technology
Energy management systems	One Week FDP	RMD Engineering College
Advanced Engineering Materials	One Week FDP	Vel tech High Tech
Innovation & Entrepreneurship Development Program	Three Days	Entrepreneurship Development Institute

		Guindy, AnnaUniveristy.
Recent Development in Automotives	Two Days	Dr.M.G.R Educational and Research Institute University
EDUMEET	One Day	MIT, AnnaUniveristy, Chennai
ISO- EOMS Internal Auditor Course	Five Day	Sri Sai Ram Institute of Technology

Funds Received from AICTE,/ UGC / DST/ TNSCST, etc: Nil