

## BIO-DATA

1. **Name** : Mr.R.Prakash  
**Full correspondence address** Assistant Professor,  
Department of Mechanical Engineering,  
K.S.Rangasamy College of Technology,  
Tiruchengode, Namakkal, - 637215
2. **Email(s) and** : [prakashr@ksrct.ac.in](mailto:prakashr@ksrct.ac.in),  
[velprakashr@gmail.com](mailto:velprakashr@gmail.com)  
**Contact number(s)** 9788309406
3. **Institution** : K.S.Rangasamy College of Technology
4. **Date of Birth** : 06 October 1989
5. **Gender (M/F/T)** : Male
6. **Category Gen/SC/ST/OBC** : OBC



### 7. Academic Qualification

S. No.	Degree	Year	Subject	University/Institution	% of marks
1	Ph. D (Pursuing)	2019 onwards	IC Engines & Nano additives	Anna University, Chennai	-
2	M.E.	2013-2015	Thermal Engineering	Government College of Engineering, Salem	8.61
3	B.E.	2007-2011	Mechanical Engineering	Dr.Mahalingam College of Engineering and Technology, Pollachi	8.78
4	HSC	March, 2007	State Board	Tagore Matric Higher Secondary School, Deviakurichy	87.58
5	SSLC	April, 2005	Matriculation	BharathiVidyaMandir Matriculation School, Sitheri	79.55

**8. Ph. D thesis title :** Experimental Investigation on DI - CI LHR Engine Operated with Electronically Controlled Hot and Cold EGR Integrated with Port Fuel Injection

**Guide's Name :** Dr.A.Murugesan, Professor & Head, Department of Mechanical Engg.

**Institute :** K.S.Rangasamy College of Technology

**9. Work experience**

S. No.	Positions held	Name of the Institute	From	To
1	Assistant Professor	K.S.Rangasamy College of Technology	01.06.2015	Till Date

**10. Professional Recognition/ Award / Certificate received**

S. No.	Name of Award	Awarding Agency	Year
1.	Elite Category in NPTEL Online Certification Course on "Thermal Engineering: Basic and Applied"	NPTEL, IIT, Guwahati	2023
2.	Elite + Silver Medal Category in NPTEL Online Certification Course on "Power Plant Engineering"	NPTEL, IIT, Roorkee	2022
3.	Best Faculty Award	K.S.Rangasamy College of Technology	2022
4.	Elite Category in NPTEL Online Certification Course on "Fundamentals of Automotive Systems"	NPTEL, IIT, Madras	2022
5.	An Award of Honor & Recognition for Maximum Author s Contributing for a Book on Covid 19 and its impact.	ESN Publications	2021
6.	Certificate of Energy Literacy	Energy Swaraj Foundation	2020
7.	The Best Faculty Performer in ISTE Coordinator	K.S.Rangasamy College of Technology	2019
8.	Elite Category in NPTEL Online Certification Course on "Steam and Gas Power System"	NPTEL, IIT, Kharagpur	2018
9.	The Best Faculty Performer in NPTEL	K.S.Rangasamy College of Technology	2018
10.	The Best Faculty Performer in QEEE	K.S.Rangasamy College of Technology	2018
11.	Elite + Gold Medal Category in NPTEL Online Certification Course on "Laws of Thermodynamics"	NPTEL, IIT, Kharagpur	2017
12.	Honour Code Certificate for the Course on "Thermodynamics"	IIT, Bombay	2016

## 11. Membership in Professional Bodies:

1. Fellow Member (M4150901221), International Society for Research and Development (ISRDR).
2. Life Member (LM - 135098), Indian Society for Technical Education (ISTE).

## 12. Patent

S. No.	Title	Author's Name	Reference Number	Status
1	Design of Smart Primary Safety Setup with Jackey for Heavy Vehicles to reduce Accidents	Biju P., Prakash V., Srinivash S., Prakash R., Rithik Roshan S, Raja K., Sri Vidhya D.	382175-001 Dated 24.03.2023	Applied

## 13. Publications

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	C. Ramesh, M. Premnath, S.V. Rakshan, N. Sai Sudharshan, <b>R. Prakash</b>	Synthesis and Characterization of Biodegradable Plastic from Potato Starch and Gelatin	European Chemical Bulletin	12	2327-2336	2023
2.	<b>Prakash R</b> , Arunkumar S, Basith A & Kavin R	Development of Automatic Speed Control Device in Speed Limit Zone	GIS Science Journal	9	1714-1718	2022
3.	<b>Prakash R</b> , Murugesan A, Kavin P, Gowtham G, Nandha Kumar M	Investigation on DI-CI Engine using Nano additives	GIS Science Journal	9	1728-1737	2022
4.	Ramesh C., Prakash P., Sankar P., <b>Prakash R.</b>	FEM and Execution Analysis of Hardfaced Aluminium Alloy Impeller	Advances in Material Research	4	1047 - 1057	2021
5.	Murugesan A., <b>Prakash R.</b> , Srinithi S	Preparation and characterization of green synthesized cerium oxide nano particle doped with biodiesel blends	Materials Science and Engineering	912	1-7	2020

6.	Murugesan A., <b>Prakash R.</b> , Srinithi S., Eswaramoorthi K., and Avinash A.	Experimental investigation on vegetable oil and diesel blends in premixed charge DI CI engine	AIP Conference Proceedings	2225	030005- 1-5	2020
7.	<b>Prakash R.</b> , Murugesan A., Kumaravel A.	Influence of Nano Fuel Additives to Control Environmental Pollution from Naturally Aspirated DI-CI Engine	Bulletin of Scientific Research	1	45-54	2019
8.	<b>Prakash.R.</b> , Prakash.E, Jamuna.R and Jassim Ahamed.S.J	Experimental Analysis of Heat Transfer Augmentation in Heat Exchanger Using Alternate Clockwise And Counter Clockwise Twisted Tape with Delta Cut Insert	International Journal of Applied Engineering Research (IJAER)	50	662-667	2016
9.	Martin, A., <b>Prakash R.</b> , and Raja, K.	A Talking Bike	SAE Technical Paper	28	-	2011

#### 14. Books /Chapters/General articles etc.

S. No.	Title	Author's Name	Publisher	Year of Publication
1	Controlling the environmental pollution from transport vehicle using green fuel technology - An expatiate view	Murugesan A, <b>Prakash R</b> & Ramesh C	ESN Publications	2021
2	An Experimental Investigation on DI-CI Engine Characteristics Fueled with Green Synthesized Nanoparticle Doped with Biodiesel Blends	Murugesan A., <b>Prakash R.</b> , and Kumaravel A.	Springer Nature Singapore PTE. Ltd	2020

#### 15. National/International Conference

1. **Prakash R.**, Biju P., Prakash V., Srinivash S. (2023), "Performance and emission characteristics of DI - CI engine using waste oil as a fuel blend" National Conference on Recent Advancements in Materials, Manufacturing, Design and Thermal Sciences

- (RAMMDTS-23) Organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode on April 26, 2023,
2. C. Ramesh, M. Premnath, S.V. Rakshan, N. Sai Sudharshan, **R. Prakash** (2023), "Synthesis and Characterization of Biodegradable Plastic from Potato Starch and Gelatin" National Conference on Recent Advancements in Materials, Manufacturing, Design and Thermal Sciences (RAMMDTS-23) Organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode on April 26, 2023.
  3. **Prakash R.**, Murugesan A., Kavin P., Nandha Kumar M., Gowtham G. (2022), "A Review on Thermal Barrier Coating for Diesel Engine Application" International Conference on Recent Innovations in Robotics, Construction and Mechanical Sciences (ICRIRCMS- 2022) through Microsoft Teams from 10.06.2022 to 11.06.2022 organized by K.S.Rangasamy College of Technology, Department of Mechanical, Mechatronics and Civil Engineering, Tiruchengode - 637215
  4. **Prakash R.**, Balamurugan R., Arunkumar S., Basith A., Kavin R. (2022), "Development of Automatic Speed Control Device in Speed Limit Zone" International Conference on Recent Innovations in Robotics, Construction and Mechanical Sciences (ICRIRCMS- 2022) through Microsoft Teams from 10.06.2022 to 11.06.2022 organized by K.S.Rangasamy College of Technology, Department of Mechanical, Mechatronics and Civil Engineering, Tiruchengode - 637215
  5. Srinithi S., Murugesan A., **Prakash R.**, Kumaravel A. (2022), "Experimental Investigation on Reducing Exhaust Emission from Diesel Engine Using Nano Catalytic Converter" International Conference on Recent Innovations in Robotics, Construction and Mechanical Sciences (ICRIRCMS- 2022) through Microsoft Teams from 10.06.2022 to 11.06.2022 organized by K.S.Rangasamy College of Technology, Department of Mechanical, Mechatronics and Civil Engineering, Tiruchengode - 637215
  6. **Prakash R.**, Lokesh Kumar, Kavin S., Loganathan and Mathan (2020), "Experimental Investigation on DI-CI characteristics fueled with biodiesel from waste seed oil blended with nanoparticles" National Level Conference on Advances in Mechanical Sciences -AIMS 2020", Organized by Department of Mechanical Engineering, Mahendra Institute of Technology, Mahendhirapuri, Mallasamudram, Tiruchengode, Namakkal. Dated; 14 February 2020.

7. **Prakash R.**, Rithish Abinav, Manirathanam, Naveen Kumar, Sabreesh and Karthick (2020), "Experimental Investigation on effect of low heat rejection using nano-particles blended diesel fuel" National Level Conference on Advances in Mechanical Sciences –AIMS 2020", Organized by Department of Mechanical Engineering, Mahendra Institute of Technology, Mahendhirapuri, Mallasamudram, Tiruchengode, Namakkal. Dated; 14 February 2020.
8. Ramesh C., Prakash P., Sankar P., **Prakash R.** (2019), "Fem and Execution Analysis of Hardfaced Aluminium Alloy Impeller" in International Conference on Advances in Material Research (ICAMR 2019) at Bannari Amman Institute of Technology, Sathyamangalam.
9. Murugesan A., **Prakash R.**, Srinithi S., Eswaramoorthi K., and Avinash A. (2019), "Experimental Investigation on Oil and Diesel Blends in Premixed Charge DI CI Engine" National Conference on Energy and Chemicals from Biomass (NCECB), Organized by Department of Mechanical and Chemical Engineering, Pondicherry Engineering College, Puducherry. Dated; 11.10.2019. Page No; 20.
10. Murugesan A., **Prakash R.**, and Kumaravel A., (2019) "An Experimental Investigation on DI-CI Engine Characteristics Fueled with Green Synthesized Nanoparticle Doped with Biodiesel Blends" 26th National Conference on Internal Combustion Engines and Combustion (NCICEC-2019), Organized by Department of Mechanical Engineering, National Institute of Technology, Kurukshetra. Dated; 1-4 November 2019. Page No; 129.
11. **Prakash R.**, Murugesan A., and Swaminathan S (2019) "Performance and Emission Characteristics on DI-CI Engine Fuelled with Bio-Diesel Blends Doped Nanoparticles" Sixth National Conference on Advancements in Mechanical, Environmental, safety and Health Engineering – AMESHE – 2019, Organized by Department of Mechanical Engineering, Knowledge Institute of Technology, Salem. Dated; 11.05.2019. Page No; 63-68.
12. **Prakash R.**, Mohamed Aslam S., Mohammed Farook M., Mohammed Fuzal K., Mohammed Rahmatullah A., (2019), "Smart Two-Wheeler Driving with the help of Sensors", 8<sup>th</sup> International Conference on Advanced Science and Engineering Research (ASER-2019), Organized by Ai-Ameen Engineering College on 23.03.2019.
13. **Prakash R.**, Gokul K., Gowtham R., Jothibalaji S., Kathiresan P., (2018), "Power Generation using Railway Track", Second National level conference on Recent Advancements in

Mechanical Engineering, Organized by Department of Mechanical Engineering, Nandha College of Technology, Erode.

14. Sankar P. and **Prakash R.** (2017), "A Comprehensive Review on Gas Turbine Fuels", National workshop-cum-conference on Small Gas Turbine Engines, Organized by Department of Mechanical Engineering, K. S. Rangasamy College of Technology, Tiruchengode.
15. **Prakash R.**, Prakash E., Jamuna R., and Jassim Ahamed S.J.(2015), "Experimental Analysis of Heat Transfer Augmentation in Heat Exchanger Using Alternate Clockwise and Counter Clockwise Twisted Tape with Delta Cut Insert", Second National Conference on Advancements in Mechanical, Environmental, safety and Health Engineering - AMESHE - 2015, Organized by Department of Mechanical Engineering, Knowledge Institute of Technology, Salem. Dated; 09.05.2019. Page No; 63-68.
16. **Prakash R.** (2015) "Experimental Investigation of Heat Transfer with alternate clockwise and counter clockwise twisted tape using delta cut inserts", A National level conference on Emerging Technologies and Advances in Mechanical Engineering, Organized by Department of Mechanical Engineering, VSA School of Engineering, Salem.
17. Daniel Martin A., **Prakash R.**, Thiruppathi Raja K. (2011), "A Talking Bike," SAE Technical Paper 2011-28-0005, 16th Asia Pacific Automotive Engineering Conference, ISSN: 0148-7191, e-ISSN: 2688-3627, <https://doi.org/10.4271/2011-28-0005>.

#### 16. FDP /STTP/Refresher Course/Workshop/Seminar Participated

S. No.	Title	Organization / Institution Conducted by	Sponsored by	Period
1.	NPTEL-AICTE FDP on Thermal Engineering: Basic and Applied	IIT Guwahati, NPTEL	All India Council for Technical Education (AICTE)	Jan - Apr 2023
2.	Workshop on NBA Accreditation Process	Kongu Engineering College, Perundurai	MARGDARSHAN SCHEME, AICTE	12.10.2022 to 14.10.2022
3.	FDTP on ME8595 - Thermal Engineering II	University College of Engineering, Villupuram	Centre for Faculty Development, Anna University, Chennai	18.07.2022 to 23.07.2022
4.	NPTEL-AICTE FDP on Fundamentals of Automobile Systems	IIT Madras, NPTEL	All India Council for Technical Education (AICTE)	Jan - Apr 2022

5.	Virtual FDP on Idea Generation Methods	ICT Academy, Chennai	ICT Academy, Chennai	24.01.2022 to 29.01.2022
6.	FDTP on ME8391 - Engineering Thermodynamics	Knowledge Institute of Technology, Salem	Centre for Faculty Development, Anna University, Chennai	12.07.2021 to 17.07.2021
7.	Virtual FDP on Central Air Conditioning of a House using Revit	ICT Academy, Chennai	ICT Academy, Chennai	28.06.2021 to 02.07.2021
8.	Workshop on Intellectual Property Rights & Entrepreneurship	PMO-IEDP, Sona College of Technology, Salem	Entrepreneurship Development and Innovation Institute (EDII - TN)	11.01.2021 to 12.01.2021
9.	FDP on Alternate Fuels	University College of Engineering, Anna University	AICTE Training and Learning (ATAL) Academy	08.12.2020 to 12.12.2020
10.	STTP on Automotive Technology for a Sustainable Future	Gokaraju Rangaraju Institute of Engineering and Technology	All India Council for Technical Education (AICTE)	07.09.2020 - 12.09.2020
11.	STTP on Innovative Techniques for Sustainable Energy Development through Modeling of Mechanical Processes	K.L.N. College of Engineering, Pottapalayam, Sivgangai	All India Council for Technical Education (AICTE)	03.08.2020 to 08.08.2020
12.	Short Term Training Program on Recent Trends in Hybrid and Electric Vehicle Technologies	Maharaj Vijayaram Gajapathi Raj College of Engineering (A) Vizianagaram	All India Council for Technical Education (AICTE)	06.07.2020 to 11.07.2020
13.	STTP on Smart Materials for Intelligent Future: Industry and Defence Perspective	K S Rangasamy College of Technology, Tiruchengode	All India Council for Technical Education (AICTE)	12.10.2020 to 17.10.2020
14.	STTP through ICT mode on Research Methodology and Intellectual Property Right (IPR)	National Institute of Technical Teachers and Research, Kolkata	Ministry of Human Resource and Development (MHRD)	18.05.2020 to 22.05.2020
15.	FDP on Managing Online Classes and Co-Creating MOOCS	Teaching Learning Centre, Ramanujan College, University of Delhi	MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)	20.04.2020 to 06.05.2020
16.	FDP on Computational Techniques in Heat & Fluid Flow	Sona College of Technology	All India Council for Technical Education (AICTE)	04.11.2019 to 15.11.2019
17.	FDP on Digital Manufacturing: Integrated Technology from Design to Manufacturing	K S Rangasamy College of Technology	All India Council for Technical Education (AICTE)	11.09.2019 to 25.09.2019



18.	FDP on Rural Immersion Camp	K S Rangasamy College of Technology	Mahatma Gandhi National Council of Rural Education, Hyderabad	19.08.2019 to 23.08.2019
19.	Refresher Course on "Refrigeration and Air Conditioning"	Indian Institute of Technology, Guwahati	Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) & All India Council for Technical Education (AICTE)	02.07.2018-06.07.2018
20.	Short Term Course on "Recent Developments in Conventional and Non-Conventional Energy Resources"	Department of Mechanical Engineering, Pondicherry Engineering College, Pondicherry	Quality Improvement Programme, AICTE, Govt. of India	06.11.2017-10.11.2017
21.	FDTP on "CE 6306 - Strength of Materials"	Department of Mechanical Engineering, K S Rangasamy College of Technology	Centre for Faculty Development, Anna University, Chennai	12.06.2017-19.06.2017
22.	FDP on "Research Scope in Thermal Engineering"	Department of Mechanical Engineering, Government College of Engineering, Salem	Technical Education Quality Improvement Programme (TEQIP) of Government of India -II	13.12.2016-19.12.2016
23.	Seminar on Current "Trends in Biomaterials and Application of FEM in Dentistry"	K.S.Rangasamy College of Technology	Indian Council of Medical Research (ICMR), New Delhi	09.09.2016 - 10.09.2016
24.	ISTE STTP on Thermodynamics (BMWME209X)	Indian Institute of Technology, Bombay	National Mission on Education through ICT, MHRD	16.07.2015-21.12.2015

### 17. FDP / STTP / Conference / Workshop Organized

S. No.	Title	Sponsored by	Period
1	8 <sup>th</sup> Annual ISTE TN Section Polytechnic Student Convention	Indian Society for Technical Education (ISTE)	30.04.2021
2	19 <sup>th</sup> Annual ISTE TN Section Engineering Student Convention	Indian Society for Technical Education (ISTE)	29.04.2021

### 18. ADDITIONAL IN-CHARGE (EXCEPT TEACHING)

1. Exam Cell - Incharge
2. ISTE Faculty Advisor

## 19. Subject Handled

1. Engineering Thermodynamics
2. Heat and Mass Transfer
3. Power Plant Engineering
4. Internal Combustion Engines
5. Thermal Engineering
6. Applied Hydraulics and Pneumatics
7. Gas Dynamics and Jet Propulsion
8. Automobile Engineering

## Declaration

I hereby declare that all the details given above are true to the best of my knowledge and belief.

Place : Tiruchengode

Date : 26.08.2023



(R. PRAKASH)