

Faculty Profile

1. Name : Vijayakumar .C
2. Designation : Associate Professor
3. Date of Joining : 05.06.2008
4. Nature of Association : Regular
5. E mail :
vijayakumarc@ksrct.ac.in
6. Mobile no. : +91 9994141857
7. **Academic Qualifications:**



Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D (Alternate Fuels)	K.S.Rangasamy College of Technology, KSR Kalvinagar, Tiruchengode, Namakkal	Dec 2016	-	-
M.E (Engineering Design)	K.S.Rangasamy College of Technology, KSR Kalvinagar, Tiruchengode, Namakkal	May 2008	77	First With Distinction
B.E. (Mech)	K.S.Rangasamy College of Technology, KSR Kalvinagar, Tiruchengode, Namakkal	April 2006	75	First With Distinction
D.M.E(Mech)	Aarathi Polytechnic, KSR Kalvinagar, Tiruchengode, Namakkal	April 2003	86	First
H.S.C.	Government Higher Secondary School, Kalappanaickenpatty, Namakkal.	April 2000	61.0	First
S.S.L.C.	Government Higher Secondary School, Kalappanaickenpatty, Namakkal.	March 1998	61.0	First

8. Teaching Experience

- **Associate Professor**, , K.S. Rangasamy College of Technology, Tiruchengode, from 02.01.2019 to Till date.
 - **Assistant Professor**, K.S. Rangasamy College of Technology, Tiruchengode, from 01.06.2010 to 01.01.2019.
 - **Lecturer**, K.S. Rangasamy College of Technology, Tiruchengode, from 05.06.2008 to 31.05.2010.
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9. Projects

Under Graduate

- **Title:** “Solar Power Two wheeler”

Post Graduate

- **Title:** “Heat Transfer Analysis of Grooved pipes”

Ph. D

Thesis title: “Experimental and Theoretical Investigation On Compression Ignition Engine Characteristics Fuelled with Diesel – Biodiesel Blends Doped with Copper Oxide Nano Particles”

10. Publications

International Journals

- 1 Murugesan A, Subramaniam D, **Vijayakumar C**, Avinash A. and Nedunchezian N ‘Analysis On Performance Emission And Combustion Characteristics Of Diesel Engine Fueled With Methyl- Ethyl Esters’(2012) *International Journal of Renewable and Sustainable Energy*; RE 019206 RSE,Vol.4,No.6,pp 63-116.**Impact Factor: 1.511**
- 2 Murugesan A, **Vijayakumar C**, Vignesha T, Bavana N, “Effect Of Erroneous In Ergonomics And Its Remedies To Workers In Industries – A Literature Survey” (2015), *International Journal of Recent and Innovation trends in computing and communication*, ISSN: 2321-8169, Vol. 3, No. 1, pp: 368 – 377.
- 3 Murugesan A, **Vijayakumar C**, Vignesha T, Bavana N, “Water Supply And Demand Management System: A Case Study Of Chennai Metropolitan City, Tamilnadu, India” (2015), *International Journal of Social Relevance & Concern (IJSRC)*, ISSN: 2347-9698, Vol. 3, No 5, pp: 20 – 33.
- 4 Murugesan A, Panneerselvam N, **Vijayakumar C**, Kumaravel A, Subramaniam, Avinash A, “ Effects Of Injection Timing On Bio-Diesel Fuelled Engine Characteristics-An Overview” (2015) *Renewable and Sustainable Energy Reviews*, pp: 17 – 31. **Impact Factor:10.556**
- 5 Murugesan A, **Vijayakumar C**, Aishwarya B, Jeyaram A, Godul G, Abinash Nayak P “Experimental Investigation Of Mahua Methyl Ester As An Alternative Fuel For Diesel Engine” (2015), *International journal of pharm Tech Research* , coden (USA):IJPRIF, ISSN:0974-4304,Vol.8, No.2, pp193-199.
- 6 Murugesan A, Panneer selvam N, **Vijayakumar C** & Subramaniam D “Performance, Emissions And Combustion Characteristics Of Ci Engine Fuel Withwatermelon (Citrullusvulgaris)Methyl Esters” (2015) *International Journal of Ambient Energy*. ISSN: 0143-0750 (Print) 2162-8246,Vol.38,No.3,pp.308-313.
- 7 Murugesan A , Panneer selvama N, Porkodi, K P, Terefe Jima, **Vijayakumar C**& Subramaniamc D “Computational Engine Performance And Emission Analysis Using Ceiba Pentandra Biodiesel” (2016) *International Journal of BIOFUELS*, Taylor&Francis, <http://dx.doi.org/10.1080/17597269.2015.1123985>, ISSN: 1759-7269 (Print) 1759-7277
- 8 **Vijayakumar Chandrasekaran**, Murugesan Arthanarisamy, Panneerselvam Nachiappan, Subramaniam Dhanakotti, Bharathiraja Moorthy, ‘The Role Of Nano

- Additives For Biodiesel And Diesel Blended Transportationfuels’(2016), *TransportationResearch Part D*, vol.46,pp.145–156. **Impact Factor:1.448**
- 9 Panneerselvam, N, Murugesan, A, **Vijayakumar, C**& Subramaniam, D, ‘Production And Characterization Of Biodiesel From Ceiba Pentandra Seed Oil’(2016). *Internation Journal of Advanced Engineering Technology*, vol. VII, pp. 445-450. ISSN: 0976-3945.
 - 10 Panneerselvam, N, Murugesan, A, **Vijayakumar, C** & Subramaniam, D, ‘Optimization Of Biodiesel Produced From Watermelon (Citrullus Vulgaris) By Using Batch Type Production Unit’(2016), *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, vol. 38, no. 16, pp. 2343-2348. ISSN: 1556-7230.
 - 11 Panneerselvam, N, Ramesh.M, Murugesan, A, **Vijayakumar, C**& Subramaniam, D, ‘Effect Of Direct Injection Naturally Aspirated Diesel Engine Characteristics Fuelled By Pine Oil ,Ceiba Pentandra Methyl Ester Compared With Diesel’(2016), *TransportationResearch Part D*, vol.48 pp.225–234, **Impact Factor:1.448**
 - 12 **C.Vijayakumar**, M.Ramesh, A.Murugesan, N.Panneerselvam,D.Subramaniam & M.Bharathiraja,“Biodiesel From Plant Seed Oils As An Alternate Fuel For Compression Ignition Engine- A Review” (2016),*Environmental science and pollution research*, DOI:10.1007/s11356-016-7754-2.vol.23,no.24,pp. 24711-24730. **Impact Factor:2.914.**

International Conferences

1. Murugesan, A, **Vijayakumar, C**, Panneer Selvam, N & Subramaniam, D, ‘Experimental Studies on Performance and Emission and Combustion Characteristics of B40 Bio Diesel – Diesel Blends at Advanced Injection Timings’, **23rd National conference on IC Engine and combustion NCICEC-2013**, Organized by *Department Of Mechanical Engineering Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, INDIA*. Under the Auspices of The Combustion Institute-Indian section (CIIS). 2013NCICEC0304. 13th to 16th December 2013
2. Murugesan A., **Vijayakumar C.**, Panneerselvam N., Subramaniam D., “ Effect of engine characteristics using Nano Additives and esters blended with diesel”. **International Conference of Nano materials and Nanotechnology (Nano-2015)** Organized by *Department of Nano Technology K S Rangasamy college of Technology*.Date:07.12.2015-20.12.2015, Pages 346.

National Conferences

1. Murugesan A., **Vijayakumar C.**, Subramaniam D. and Nedunchezhian N. “Experimental Investigation Of Performance Emission And Combustion Characteristics Of Diesel Engine Fueled With Methyl-Ethyl Esters” organized by The Institution of Engineers(India) Coimbatore and Department of Mechanical Engineering, PSG College of Technology, Proceedings of the *Xxviii National*

Convention Of Mechanical Engineers And National Seminar On “Emerging Technologies In Product Development For Safe And Sustainable Mobility”, Date: September 03 -05, 2012, pp.E36-B42.

2. Murugesan.A, Subraminayam.D, **C.Vijayakumar**, N.Panneer selvam, A.Avinash “Performance And Emission Charaterstics Of Al₂O₃ –ZrO₂ Coated Engine Fuelled With Punnai Methyl Ester” organized by the department of mechatronics engineering *National Conference On “Recent Trends In Mechatronics and Industrial Safety Engineering”* Date:10th April 2013.
3. Subraminayam.D, A.Murugesan, C.Vijayakumar, N.Panneer selvam,“Production Of Biodiesel From Palmyra Oil By Using Calcium Oxide As Catalyst Methanol As A Solvent” organized by the department of mechatronics engineering *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering”* Date:10th April 2013.
4. Murugesan.A, Subraminayam.D, **C.Vijayakumar**, N.Panneer selvam, A.Avinash “A comparative Evaluation of CI engine fuelled with ethyl esters of punnai. Neem and waste cooking oil” organized by the Department of Mechatronics engineering *National Conference On “Recent Trends In Mechatronics and Industrial Safety Engineering”* Date:10th April 2013.
5. Murugesan.A, Subraminayam.D, , **C.Vijayakumar**, N.Panneer selvam” Control Of Environmental Pollution From Diesel Engine Using Renewable Eco Friendly Fuel” organized by the department of mechatronics engineering *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering”* Date:10th April 2013.
6. Murugesan.A, Subraminayam.D **C.Vijayakumar**, N.Panneer selvam “ Experimental Investigations On The Effects Of Mgo Nano Particle Fuel Additives On Diesel In Diesel Engine” organized by the department of mechatronics engineering *National Conference On “Recent Trends In Mechatronics and Industrial Safety Engineering ”*Date:10th April 2013.
7. Murugesan.A, Subraminayam.D, **C.Vijayakumar**, N.Panneerselvam “Fire Detection Systems And Emergency Plan In Automotive Industry” organized by the department of Mechatronics Engineering Second *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering ”*Date: 25th March 2014.
8. A.Murugesan **C.Vijayakumar** “Exhaust Gas After Treatment System Using Waster Scrubbing In A Diesel Engine” organized by the department of Mechatronics Engineering Second *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering”*Date: 25th March 2014.
9. A.Murugesan, **C.Vijayakumar** “Performance And Emission Characteristics Of Diesel Engine Fuelled With Nano Additive Biodiesel” organized by the department of Mechatronics Engineering Second *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering ”*Date: 25th March 2014.
10. A.Murugesan, **C.Vijayakumar**, B.Aishwarya, A.Jeyaram, G.Gokul, P.Abinash Nayak, “Performance And Emission Characteristics Of Mahuna Methyl Ester Used As An Alternate Fuel In Diesel Engine”, organized by the department of Mechatronics Engineering Third *National Conference On “Recent Trends In Mechatronics And Industrial Safety Engineering ”*Date: 24th March 2015.

11. Fellowships

Nil

12. Summer Training Programmes

- Short Term Training Programme Through Ict Mode On Nba Accreditation At National Institute Of Technical Teacher's Training And Research Kolkata From 22 To 24 Mar 2019.
- Staff Development Programme on Engine Electronics And Alternate Fuels at Annamalai University from 16 to 29 May 2011
- National Conference on technological advances in mechanical engineering at AMS Engineering college, Namakkal, on 16 Mar 2011
- CSIR sponsored seminar on Emerging Application of nano fluid in mechanical engineering at KSRCT, Tiruchengode from 15 to 16 Mar 2011.
- ISTE Annual Convention on Emerging Trends in Engineering Education-Indian Perspection at KSRCT, Tiruchengode from 29 to 30 Oct 2010
- Staff Development Programme on Emerging Trends in Alternative Fuels and Emission Control Techniques for IC Engines at Dept. of Automobile Engineering, IRTT, Erode, from 24 Nov 2010 to 07 Dec 2010
- DRDO Sponsored seminar on Smart Sensors in Underwater Autonomous Robots at KSRCT, Tiruchengode, from 05 to 06 March 2010
- AICTE Sponsored Seminar on Computational Intelligent Techniques of Machine Vision System at Low Cost Automation for Manufacturing Industries at KSRCT, Tiruchengode, from 22 to 23 June 2010
- CSIR Sponsored Seminar on Bio-Telematics at KSRCT, Tiruchengode from 29 to 30 June 2010
- Industrial Visit of Best manufacturing practices mission to wheels India ltd and DELL India pvt ltd Chennai on 27 Nov 2009
- CSIR sponsored seminar on Recent Advancement In Industrial Automation at KSRCT, Tiruchengode from 25 to 26 Nov 2009
- CSIR sponsored seminar on Mechatronics Based Instrumentation for Manufacturing Automation, at KSRCT, Tiruchengode, from 12 to 13 Nov 2009
- DST sponsored National Seminar on Smart Materials in Industrial Automation, at KSRCT, Tiruchengode from 24 to 25 March 2009
- Faculty Development Programme Teaching with Joy at KSRCT, Tiruchengode on 12 Feb 2009
- AICTE sponsored national seminar on Emphasis on Fluid Power System at Low Cost Automation for Textile Industries at KSRCT, Tiruchengode from 30 to 31 Jan 2009

- CSIR sponsored seminar on Auto – Telematics at KSRCT, Tiruchengode from 10 to 11 Oct 2008
- Workshop on Communicative English by Col's caliber Coimbatore from 06 Sep 2008 to 27 Nov 2008
- Faculty Development Programme of Organizational Effectiveness at HRD, KSRCT, from 14 to 15 Nov 2008
- Teachers Training Programme of Instructional Design and Delivery at National Institute Of Technical Teacher's Training And Research, Mumbai from 08 to 13 Sep 2008

13. **Funds Received to Organize the Seminar**

Nil

14. **Invited Lecture Delivered**

- Delivered an invited lecture on “**Doping of Nano Additives in Diesel, Biodiesel and its Emission Control Technology**” seminar on “Emission Control In Automobile Using Renewable fuel Technology” on organized by Department of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode, Dated on 23th sep 2016

15. **Membership in Professional Bodies**

- **Life Member**, Indian Society of Technical Education (ISTE) – LM 51517.
- **Fellow Member (Life Member)**, International Society for Research and Development (ISRD) –SR4150900453.
- **Life Member**, Combustion Institution Indian Section (CIIS).

16. **Awards and Recognitions**

- Received **Best Achievement Award** from top engineers educational trust chennai, dated on 01 oct 2016.
- I received “**Young Scientist Award**” from “2nd aufau international award ceremony”, to be held in hotel silver palace, salem on 4th december 2016.
- The society of engineers & technicians, kuala lumpur- malaysia honoured the “**Excellent Remarkable Professional Development Faculty Award 2017**” at kuala lumpur –malaysia in the year march 2017.
- Indian academic researchers association- given the “**Best Researcher Award- 2017**” on 22.04.2017, at tiruchirappalli

17. Research Activities

- Recognized supervisor by Anna University, Chennai
- Total **Citations: 142, h – Index: 6, i10 Index: 4**
- **Area of Expertise/Research Interests**
 - Alternate fuels
 - IC Engines
 - Nano Additives
- Book published on the title of **Bio diesel Blends doped with Copper oxide Nano Particles- An experimental and Theoretical Analysis**. LAP LAMBERT, Academic publishing- Germany In the year 2017 ISBN .No; 978-620-2- 00698-9.
- **Patented Granted for the title of “Innovative And Efficient Technology For Biodiesel Production From Non-Edible Oils” Government Of India, Department Of Intellectual Property Rights** granted the patent (Ref; SL NO; 044103852, Application No:1103/che/2011) Dated:18 /01/2018.Patent number.291877
- Copy right granted for the title of **vegetable oil pretreatment by bubble washing**.diary number :6255/2018-co/1. Dated :23/07/2018. Registration number : 1-76790/2018.

18. Abroad Visit

- Visited to present a Research paper at **International Convention on Dissemination of Innovative Research in Science Engineering Technology & Management Applications** Kuala Lumpur, *Malaysia* 11th - 12th March 2017.

19. Personal Details

Fathers Name : P.Chandrasekaran

Date of Birth & Age : 10.06.1983 & 36 Years

Gender : Male

Marital Status : Married

Permanent Address : 3/229 A, Mithikundu,
Naducombai [Po], Namakkal- [Tk]&[Dt].
Tamil Nadu.