

Faculty Profile

Name : Dr. A.MURUGESAN, B.E, M.E, Ph.D, FISME, FIARA.FSIESRP, FISRD (UK),

Designation : Professor.

Date of Birth : 15.04.1970
Bank A/c No. (LVB) : 0751301000001738
PAN No. : AGLPM9212H
Passport No. : N1197612
PF No. : TN/21788/A/62.
Aadhaar NO : 808794773196
DOJ : 10.05.1996



E-mail ID : murugesanhema2000@yahoo.co.in
: dramksr@gmail.com
: murugesana@ksrct.ac.in

Contact Address & Phone No.:

1. Residential Address	2/214 M, K.S. R KALVI NAGAR, VARAPALLAYAM, THOKKAVADI (POST) TIRUCHENGODE. 637215
2. Land line No. (Home)	NIL
3. Mobile	+ 91 94430 90331

Contact No. (Office) : 04288 – 274741 – 744

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Name of the Institution : K.S.Rangasamy College of Technology,
Tiruchengode – 637215.

Department : Mechanical Engineering

Field of Specialization : I.C. Engines, Emission Control, Alternative Fuel. Nano fuel additives.

Google Scholar link : <https://scholar.google.com/citations?user=Pb6MHvEAAAAJ&hl=en>

Scopus link : <https://www.scopus.com/authid/detail.uri?authorId=6602648343>

Academic Qualifications:

S. No	Diploma/ Degree	University / Board	Year	Field of Specialization
1	DME	Technical Education	April 1988	Mechanical Engineering
2	B.E.	Annamalai University	May 1994	Mechanical Engineering
3	M.E.	Annamalai University	Dec 1995	Thermal Power

4	Ph.D.	Anna Chennai	University-	July 2009	I.C Engines Alternative Fuels
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Teaching Experience : (Engineering College only)

S. No	Name of the Institution	Designation	From	To	Total Experience	
					Year(s)	Month(s)
1	K S Rangasamy College of Technology	Lecturer/Mechanical Engg	10.5.96	30.6.03	7y	-
2	K S Rangasamy College of Technology	Senior Lecturer /Mechanical Engg	1.7.03	30.6.04	1y	-
3	K S Rangasamy College of Technology	Assistant Professor /Mechanical Engg	1.7.04	30.6.08	4y	-
4	K S Rangasamy College of Technology	Professor/ Mechanical Engg	1.7.08	12.09.10	2y	1m
5	K S Rangasamy College of Technology	Professor & Head Dept of Mechatronics Engineering	13.9.10	31.05.15	4y	8m
6	K S Rangasamy College of Technology	Professor/ Mechanical Engg	01.06.15	Till date		

Total Teaching Experience: 23years 3 month

Industrial Experience :

S. No	Name of the Industry	Designation	From	To	Total Experience	
					Year(s)	Month(s)
1	V.T.A Mobiles and Spray painting	Supervisor	1.5.88	31.12.90	2y	7m

Membership in Professional Bodies:

Life Member, Indian Society for Technical Education (LM 27190)

Life Member, Indian Society Mechanical Engineering (LM 454)

Life Member, Combustion Institution Indian Section (LMC 541)

Life Member, Indian Red Cross society (LM 314/1999)

Life Member, Instrument Society of India (LM 2253)

Fellow Membership in Professional Bodies:

International society of research and development (F3140900229) (UK)

Indian Society of Mechanical Engineers (FISME20160915001)

Indian Academic Researchers Association (FIARA 09/2016)

The Society of Innovative Educationalist & Scientific Research Professional (FSIESRP/03/2018/914846-M),

Details of Projects Undertaken:

S. No	Title of Project	Duration	Funding Agency	Funds Granted	Whether completed or in progress
1	Improved Air Pressure Cooker	One Year	Sustainable Agriculture Environment voluntary Action (SEVA), Madurai-625010.	Rs.10,000	Completed during the year 2004-2005
2	Energy Club	One Year	Tamil Nadu Energy Development Agency (TEDA), Chennai.	Rs.25,000	Completed during the year 2006-2007
3	Experimental Investigation of Controlling Exhaust Emission from Diesel Engine by Using Alternative Fuel from Rural Based Non-Edible Oil Seeds	Six Months	L-RAMP, Gandhigram Rural University, Dindigul-624 302	Rs.15,000	Completed during the year 2008-2009
4	Enhancement of PLC Automation Laboratory	One Year	AICTE, New Delhi (MODROP)	Rs.8,00,000	completed during the year 2012-2013
5	Investigation On Emission Control In Direct Injection LHR Diesel Engine Attached With Electronically Controlled EGR Operated On Oxygenated Fuel Blends Doped With Nano Particles	Three years	AICTE, New Delhi (RPS)	Rs.12,11,765	On going
6	Experimental Investigation on Reducing the Emission from LHR Diesel Engine using Bio Fuels Doped with Nano Particales	One Year	TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY. (TNSCST) - 2019	Rs.7,500.	completed during the year; 2018-2019.

LIST OF PUBLICATIONS

NATIONAL JOURNALS

1.	Murugesan A., Srinivasan P.S.S., Subramanaiam R. and Nedunchezian N. 'TECHNICAL ASPECTS OF BIO DIESEL PRODUCTION' Indian Journal for Technology Spectrum published by Jawaharlal Technological University, and Hyderabad. March 2008, Vol. 12, No.1, pp. 93-102.
2.	Murugesan A., Srinivasan P.S.S., Subramanaiam R. and NedunchezianN., 'KOH-CATALYST 'PRODUCTION OF MAXIMUM YIELD BIO DIESEL FUEL FROM PUNGAMIA OIL', Indian Journal of Engineering, Science and Technology, Bannari Amman Institute of Technology, ISSN: 0973-6255, Vol.2 No. 1, January-June 2008, pp. 22-26.
3.	Murugesan A., Chinnusamy T.R., Subramanaiam R. and Nedunchezian N. 'EFFECT OF ENGINE PERFORMANCE AND EMISSION CHARACTERISTICS OF PSZ COATED ENGINE ETHANOL BIO-DIESEL DIESEL BLEND AS FUEL', Indian Journal of Engineering, Science and Technology, Bannari Amman Institute of Technology ISSN: 0973-6255, Vol.2 No. 2 July-December 2008, PP. 34-38.
4.	Rajasekar .E, Balamurugan .K and Murugesan A., 'METHANOL-JATROPHA BIODIESEL-DIESEL TRI-COMPOUND BLENDS: ENVIRONMENT FRIENDLY OXYGENATED BIOMASS FUEL FOR DIESEL ENGINES', Indian Journal of Engineering, Science and Technology, Bannari Amman Institute of Technology ISSN: 0973-6255, Vol.5 No. 1 January-June 2011, PP. 19-25.

INTERNATIONAL JOURNALS

1	Murugesan A., Umarani C., Subramanaiam R. and Nedunchezian N. 'BIO DIESEL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE - A REVIEW' International Journal of Renewable and Sustainable Energy Reviews13 (2009) 653-662
2	Murugesan A., Krishnan M., Chinnusamy T.R., Umarani C., Subramanaiam R. and Nedunchezian N. 'PRODUCTION AND ANALYSIS OF BIO DIESEL FROM NON – EDIBLE OILS – A REVIEW', International Journal of Renewable and Sustainable Energy Reviews 13 (2009) 825-834.
3	Murugesan A., Krishnan M., Chinnusamy T.R., Srinivasan P.S.S., Umarani C., Subramanaiam R. and Nedunchezian N. 'Bio diesel from Tree borne Non-Edible Oil as a Renewable and Alternative fuel for Diesel -A Review' International Journal of Agricultural Research 2007, 299 IJAR ISSN 1816 to 4897.
4	Rajasekar E, Murugesan A Subramanian R. and Nedunchezian N. "REVIEW OF NOX REDUCTION TECHNOLOGIES IN C I ENGINES FUELLED WITH OXYGENATED BIOMASS FUELS" International Journal of Renewable and Sustainable Energy Reviews September 2010. Volume 14, Issue 7, Pages 2113-2121.
5	Shanmugan p, Sivakumar V, Murugesan A and Ilangkumaran M 'PERFORMANCE AND EXHAUST EMISSIONS OF A DIESEL ENGINE USING HYBRID FUEL WITH AN

	ARTIFICIAL NEURAL NETWORK' International journal of Energy Sources,Part A: Recovery, Utilization, and Environmental Effects, 19 May 2011, 33:15.1440-1450.
6	Shanmugan p, Sivakumar V, Murugesan A and Umarani C ' EXPERIMENTAL STUDY ON DIESEL ENGINE USING HYBRID FUEL BLENDS' International journal of Green Energy, 2 September 2011, 8;6, 655-668.
7	Nagarani K., Mayilsamy K. and Murugesan A. , ' EXPERIMENTAL HEAT TRANSFER ANALYSIS ON ANNULAR ELLIPTICAL FINS AND COMPARISON WITH CIRCULAR FINS' , European Journal of Scientific Research, ISSN 1450-216X Vol.1.73, No.2(2012), pp.143-156.
8	Nagarani K., Mayilsamy K. and Murugesan A. , ' FIN EFFECTIVENESS OPTIMIZATION OF ELLIPTICAL ANNULAR FINS BY GENETIC ALGORITHM' , Procedia Engineering 38(2012) 2939-2948.
9	Murugesan A. , Subramanaim D., Vijayakumar C., Avinash A. and Nedunchezian N ' ANALYSIS ON PERFORMANCE EMISSION AND COMBUSTION CHARACTERISTICS OF DIESEL ENGINE FUELED WITH METHYL- ETHYL ESTERS' International Journal of Renewable and Sustainable Energy; NOVEMBER 2012; RE 019206 RSE.
10	Nagarani K., Mayilsamy K. and Murugesan A. , ' OPTIMIZATION OF AN ELLIPTICAL ANNULAR FIN WITH CONVECTION HEAT TRANSFER USING A GENETIC ALGORITHM AND COMPARED WITH EXPERIMENTAL INVESTIGATION' , International Review of Mechanical Engineering(I.R.E.M E) <i>volume</i> 6, N6, September 2012 ISSN 1970- 8734.
11	Subramanaim D, Murugesan A. , Avinash A. and Aravindan V ' A CHARACTERISTIC EVALUATION OF ALUMINA-ZIRCONIA-COATED ENGINE FUELLED WITH PUNNAI METHYL ESTER" International Journal of Ambient Energy; 10 March 2013.
12	Subramanaim D, Murugesan A. , Avinash A. and Kumaravel A " BIO-DIESEL PRODUCTION AND ITS ENGINE CHARACTERISTICS-AN EXPATIATE VIEW" International Journal of Renewable and Sustainable Energy Reviews 22 (2013) 361-370
13	Murugesan A , Subramaniam D., Avinash A. and N.Nedunchezian " A COMPREHENSIVE VIEW ON PERFORMANCE, EMISSION, AND COMBUSTION CHARACTERISTICS OF BIODIESEL-DIESEL BLENDS AT ADVANCED INJECTION TIMINGS" International Journal of Renewable Sustainable Energy 5, 033103 (2013); doi: 10.1063/1, 4803745
14	Subramanaim D, Murugesan A. , and Avinash A " AN INCLUSIVE VIEW ON BIODIESEL PRODUCTION BY HETEROGENEOUS CATALYST AND ITS ENGINE OPERATIONAL CHARACTERISTICS" International Journal of Renewable Sustainable Energy 5, 033135 (2013); doi: 10.1063/1.4811805
15	Subramanaim D, Murugesan A. , and Avinash A " PERFORMANCE AND EMISSION EVALUATION OF BIODIESEL FUELED DIESEL ENGINE ABETTED WITH EXHAUST GAS RECIRCULATION AND NI COATED CATALYTIC CONVERTER" International Journal of Renewable Sustainable Energy 5, 023138 (2013); doi: 10.1063/1.4802943.
16	Nagarani J, Mayilsamy K., and Murugesan A " THE USE OF COMPUTATIONAL FLUID DYNAMICS IN ANALYSING THE PERFORMANCE OF AN ELLIPTICAL ANNULAR FIN" International Journal of Renewable Sustainable Energy 5, 043108 (2013); doi: 10.1063/1.4812991.
17	Subramaniam D, Murugesan A , and Avinash A " A COMPARATIVE ESTIMATION OF C.I. ENGINE FUELLED WITH METHYL ESTERS OF PUNNAI, NEEM AND WASTE COOKING OIL" International Journal of Energy and Environment, Page No.869 – 870, Volume 4, Issue 5, 2013.
18	Murugesan A , Subramaniam D, Avinash A, and Neduchezhian N " QUANTITATIVE AND QUALITATIVE ANALYSIS OF BIODIESEL – AN IN-DEPTH STUDY" , International Journal of Ambient Energy (2013), doi: 10.1080/01430750.2013.820146.
19	Murugesan A , Subramaniam D, and Avinash A, " BIO-DIESEL – A GLOBAL SCENARIO" , Renewable and sustainable energy reviews 29 (2014), pp: 517 – 527.
20	Murugesan A , Nagarani N, Mayilsamy K, and Sathesh Kumar C, " REVIEW OF UTILIZATION OF EXTENDED SURFACES IN HEAT TRANSFER PROBLEMS" , Renewable and sustainable energy reviews 29 (2014), pp: 604 – 613.
21	Murugesan A , Krishnan N, Karthikeyan T, and Chinnusamy T R, " DYNAMIC SCHEDULING OF FLEXIBLE MANUFACTURING SYSTEM USING SCATTER SEARCH ALGORITHM" , International Journal of Emerging Technology and Advanced Engineering (2013), ISSN 2250-2459,

	Volume 3, Issue 10, pp: 329 – 332.
22	Murugesan A , Krishnan N, Karthikeyan T, and Chinnusamy T R, “ A COMPREHENSIVE SURVEY OF FLEXIBLE MANUFACTURING SYSTEM SCHEDULING USING PETRI NETS ”, Advanced Materials Research (2014), doi: 10.4028/www.scuebtufuc.net/AMR.984-985.111, Volume 984-985, pp: 111 – 117.
23	Murugesan A , Krishnan N, Karthikeyan T, and Chinnusamy T R, “ AN EVOLUTIONARY HYBRID ALGORITHM FOR LAYOUT PLANNING IN FLEXIBLE MANUFACTURING SYSTEM ”, Advanced Materials Research (2014),doi: 10.4028 /www. scuebtufuc. net / AMR .984-985.444, Volume 984-985, pp: 4444 – 451.
24	Murugesan A , Tiruvenkadam N, Thyla P.R., Senthilkumar M, Bharathiraja M, “ SYNTHESIS OF NEW ALUMINUM NANO HYBRID COMPOSITE LINER FOR ENERGY SAVING IN DIESEL ENGINES ”, Energy Conversion and Management (2015), pp: 440 – 448
25	Murugesan A , Vijayakumar C, Vignesha T, Bavana N, “ EFFECT OF ERRONEOUS IN ERGONOMICS AND ITS REMEDIES TO WORKERS IN INDUSTRIES – A LITERATURE SURVEY ”, International Journal of Recent and Innovation trends in computing and communication (2015), ISSN: 2321-8169, Volume 3, Issue : 1, pp: 368 – 377.
26	Murugesan A , Vijayakumar C, Vignesha T, Bavana N, “ WATER SUPPLY AND DEMAND MANAGEMENT SYSTEM: A CASE STUDY OF CHENNAI METROPOLITAN CITY, TAMILNADU, INDIA ”, International Journal of Social Relevance & Concern (IJSRC) (2015), ISSN: 2347-9698, Volume 3, Issue 5, pp: 20 – 33.
27	Murugesan A , Ashok Kumar R, Hemamalini R, Muthukumar P, “ ROAD SAFETY – IMPACT OF HUMAN LIFE AN OVER VIEW ”, International Journal of Software & Hardware Research in Engineering (2015), ISSN: 2347-4890, Volume 3, Issue 5, pp: 10 – 16.
28	Murugesan A , Ravi M, Vijayakumar K.C.K., “ CERTAIN INVESTIGATIONS ON THE PERFORMANCE OF EMISSION, VIBRATION AND NOISE CHARACTERISTICS OF C.I. ENGINE USING BIO GAS AND BIO DIESEL AS ALTERNATE FUEL ”, International Journal of Pharm Tech Research (2015), ISSN: 0974-4304, Volume 8, Issue 1, pp: 11 – 19.
29	Murugesan A , Panneerselvam N, Vijayakumar C, Kumaravel A, Subramaniam, Avinash A, “ EFFECTS OF INJECTION TIMING ON BIO-DIESEL FUELLED ENGINE CHARACTERISTICS-AN OVERVIEW ” Renewable and Sustainable Energy Reviews (2015), \ pp: 17 – 31.
30	Murugesan A , subramaniam D, Avinash A “ AN EMPIRICAL AND STATISTICAL ANALYSIS OF BIODIESEL PRODUCTION BY TRANSESTERIFICATION PROCESS ” Taylor&Francis 16 june 2015,17597269.2015.1050643.
31	Murugesan A , Prabhakar R, vijayan R ,” QUALITATIVE ANALYSIS OF DEGUMMED CALOPHYLLUM INOPHYLLUM OIL-AN IN DEPTH STUDY ”. International Journal of Applied Engineerng research,ISSN 0973-4562 Vol.10 No.50(2015)Research India Publications
32	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 ” International journal of pharm Tech Research , coden (USA):IJPRIF, ISSN:0974-4304,Vol.8, No.2, pp193-199,2015
33	Murugesana A , Subramaniam D, Avinash A and Sasikumar P “ EVALUATION OF BIO-DIESEL PROPERTIES: A STATISTICAL APPROACH ” INTERNATIONAL JOURNAL OF AMBIENT ENERGY, 2015 http://dx.doi.org/10.1080/01430750.2015.1086684 , ISSN: 0143-0750 (Print) 2162-8246
34	Murugesan A , Panneer selvama N, Vijayakumar C & Subramaniamc D “ PERFORMANCE, EMISSIONS AND COMBUSTION CHARACTERISTICS OF CI ENGINE FUEL WITH WATERMELON (CITRULLUSVULGARIS)METHYL ESTERS ” International Journal of Ambient Energy. 2015, ISSN: 0143-0750 (Print) 2162-8246, DOI:10.1080/01430750.2015.1087431
35	Murugesan A , Panneer selvama N, Porkodi, K P, Terefe Jima, Vijayakumar C & Subramaniamc D “ COMPUTATIONAL ENGINE PERFORMANCE AND EMISSION ANALYSIS USING CEIBA PENTANDRA BIODIESEL ” International Journal of BIOFUELS, Taylor&Francis-2016,

	http://dx.doi.org/10.1080/17597269.2015.1123985 , ISSN: 1759-7269 (Print) 1759-7277
36	Murugesan A , Ravi M, Vijayakumar K.C.K., Sivachalpathi.D, Rexanto.V “EFFECT OF ELECTRONIC FLOW ON PERFORMANCE EMISSION CHARACTERISTICS OF DUAL FUEL ENGINE RUN ON BIOGAS”. , International Journal on advanced engineering technology(2016), E-ISSN: 0976-3945, Volume 7, Issue 1, pp: 177– 181.
37	S.T.Kumaravel, A.Murugesan ,A.Kumaravel,” TYRE PYROLYSIS OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINES-A REVIEW”. , Renewable and Sustainable Energy Reviews (2016), pp: 1678 – 1685
38	Vijayakumar Chandrasekaran, Murugesan Arthanarisamy , Panneerselvam Nachiappan, Subramaniam Dhanakotti, Bharathiraja Moorthy ‘THE ROLE OF NANO ADDITIVES FOR BIODIESEL AND DIESEL BLENDED TRANSPORTATIONFUELS’ , TransportationResearch Part D, 2016, vol.46,pp.145–156.
39	Panneerselvam, N, Murugesan, A , Vijayakumar, C & Subramaniam, D, 2016, ‘PRODUCTION AND CHARACTERIZATION OF BIODIESEL FROM CEIBA PENTANDRA SEED OIL’ . Internation Journal of Advanced Engineering Technology, vol. VII, pp. 445-450. ISSN: 0976-3945 (Updated list:2016).
40	Murugesan, A , Subramaniam, D,Avinash.A, ‘HEATING VALUE OF BIODIESEL: AN EMPIRICAL AND THEORETICAL EXPLORATION’. , Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2016,vol. 30, no. 9, pp. 1293-1298.
41	Panneerselvam, N, Murugesan, A , Vijayakumar, C & Subramaniam, D, ‘OPTIMIZATION OF BIODIESEL PRODUCED FROM WATERMELON (CITRULLUS VULGARIS) BY USING BATCH TYPE PRODUCTION UNIT’ , Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2016, vol. 38, no. 16, pp. 2343-2348. ISSN: 1556-7230.
42	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’ , TransportationResearch Part D, 2016.vol.48 pp.225–234
43	Rajan Prabhakar, Raghavan Vijayan, Arthanarisamy Murugesan and Natesan Buvanewari, ‘EXPERIMENTAL INVESTIGATION OF DIESEL ENGINE FUELLED WITH CALOPHYLLUM INOPHYLLUM METHYL ESTER BLENDS’ , ADVANCES in NATURAL and APPLIED SCIENCES, 2016 Special10(7): pages 123-129.
44	C.Vijayakumar , M.Ramesh, A.Murugesan , N.Panneerselvam, D.Subramaniam and M.Bharathiraja ‘BIODIESEL FROM PLANT SEED OILS AS AN ALTERNATE FUEL FOR COMPRESSION IGNITION ENGINES- A REVIEW’ Environmental Science and Pollution Research,2016,DOI: 10.1007/s11356-016-7754-2.
45	M.Bharathiraja,R.Venkatachalam, A.Murugesan & N.Tiruvenkadam ‘EXPERIMENTAL INVESTIGATION OF NOVAL ALCOHOL FUMIGATION ON SINGLE CYLINDER CONSTANT SPEED DIESEL ENGINE’ International Journal of Ambient Energy,2016.
46	M.Ravi,KCK.Vijayakumar, A.Murugesan , ‘PERFORMANCE,EMISSION, NOISE AND VIBRATION CHARACTERISTICS OF BIOGAS- DIESEL DUAL FUEL COMPRESSION IGNITION ENGINE’ International of advances in chemistry, Vol 12 No.12 ISSN No.2321-807X,Oct 2016,Pages 4588-4592.
47	M.Ravi,KCK.Vijayakumar, A.Murugesan , ‘CERTAIN EXPLORATIONS ON THE EFFECT OF PERFORMANCE CHARACTERISTICS OF DUAL FUEL DIESEL ENGINE RUN ON LINE TREATED BIOGAS’ International Asian Journal of Research in Social Sciences and Humanities,Vol 6,No.10,ISSN 2249-7315,Oct 2016,Pages 226-238.
48	R.Prabhakar, R. Vijayan, A. Murugesan and N. Buvanewari, ‘QUANTITATIVE ANALYSIS OF DEGUMMED CALAPHYLLUM INOPHYLLUM OIL’ ,International journal of u- and e- service, Science and Technology, Vol 9,No.12, 2016,Pages 11-18.

49	C. Vijaya Kumar, A Murugesan, T. Rajasekaran N. Panneerselvam “ EXPERIMENTAL INVESTIGATION ON THE EFFECTS OF NANO ADDITIVES ON MAHUCA INDICA METHYL ESTER - DIESEL FUEL BLENDS IN DIESEL ENGINE ” International Asian Journal of Research in Social Sciences and Humanities, Vol 7, No.1, ISSN 2249-7315, Jan 2017, Pages 120-130
50	Murugesan A, & Avinash A. “OPTIMIZATION OF BIO DIESEL PRODUCTION FROM RAW AND PURIFIED BIO-OIL” International journal of Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, DOI;10.1080/15567036.207.1279243.
51	Murugesan A, & Avinash A.”CHEMOMETRIC ANALYSIS OF COW DUNG ASH AS AN ABSORBENT FOR PURIFYING BIO DIESEL FROM WASTE COOKING OIL” International magazine of nature.com/scientificreport. DOI; 10.1038/s41598-017-09881-z
52	Murugesan A, & Avinash A” ECONOMIC ANALYSIS OF BIODIESEL PRODUCTION FROM WASTE COOKING OIL” International journal of Energy Sources, Part B: Economics, Planning, And Policy, https://doi.org/10.1080/15567249.2017.1319438
53	Murugesan A, & Avinash A. “ Prediction Capabilities Of Mathematical Models In Producing A Renewable Fuel From Waste Cooking Oil For Sustainable Energy And Clean Environment” International journal of fuel. 216(2018) 322-329. DOI.org/10.1016/j.fuel.2017.12.029.
54	A.Murugesan.Panneerselvam N, Masresha Adasho, & Vijayakumar C “ PRODUCTION AND CHARACTERIZATION OF BIODIESEL FROM CEIBA PENTANDRA SEED OIL” International Journal of Advanced Research Methodology in Engineering & Technology, ISSN 2456-6446 Volume 2, Issue 2, March 2018. Pages; 74-79.
55	Murugesan A., Vijayakumar C , Kumaravel S.T.& Thenmozhi M “ A COMPARATIVE ANALYSIS OF WASTE TYRE PYROLYSIS, GASIFICATION AND LIQUIFICATION PROCESSES ” International Journal of Advanced Research Methodology in Engineering & Technology, ISSN 2456-6446 Volume 2, Issue 2, March 2018 .pages; 95-98
56	Murugesan A., Sathish D, Moorthi M , Kumaravel A. “COMBUSTION SYSTEM IN GAS TURBINE ENGINE AND ITS APPLICATIONS- AN EXPATITATE VIEW” International Journal of Advanced Research Methodology in Engineering & Technology, ISSN 2456-6446 Special Issue - March 2018.Pages;66-73
57	Murugesan A., Ramesh C , Kumaravel A. “EXPERIMENTAL INVESTIGATION ON REDUCING NOX EMISSION IN DIESEL ENGINE FUELLED WITH NON EDIBLE PUNGAMIA OIL USING EGR SYSTEM” International Journal of Advanced Research Methodology in Engineering & Technology, ISSN 2456-6446 Special Issue - March 2018.Pages; 182-189.
58	. Murugesan A, Sasikuma P & Avinash A.” UNDERSTANDING THE INTERACTION AMONG THE BARRIERS OF BIODIESEL PRODUCTION FROM WASTE COOKING OIL IN INDIA- AN INTERPRETIVE STRUCTURAL MODELING APPROACH” International journal Renewable Energy 127 (2018) 678-684.
59	Murugesan A, & Avinash A “JUDICIOUS RECYCLING OF BIOBASED ADSORBENTS FORBIODIESEL PURIFICATION: A CRITICAL REVIEW” International journal of Environmental Progress & Sustainable Energy DOI 10.1002/ep- 2018
60	Murugesan A, Sudhir R.Y, Senthil Kumar A.P& Sadesh K “INVESTIGATION ON EMISSION CHARACTERISTICS OF VARIABLE COMPRESSION RATIO ENGINE USING NANO PARTICALE BLENDED DIESEL FUEL” International journal of Engineering and Advanced Technology.(IJEAT) . ISSN 2249-8959, Volume-8, Issue-5, June 2019. Pages: 243-245
61	Murugesan A Kumaravel S.T.” EXPERIMENTAL INVESTIGATION ON ENGINE PERFORMANCE, EMISSION AND COMBUSTION CHARACTERISTICS OF A DI CI ENGINE USING TYRE PYROLYSIS OIL AND DIESEL BLENDS DOPED WITH NANOPARTICLES” International journal of Environmental Progress & Sustainable Energy; 19 /07/ 2019; https://doi.org/10.1002/ep.13321

62	<p>Murugesan A., Avinash A & Kumaravel A. " AN EXPERIMENTAL INSIGHT INTO OPTIMIZED BIODIESEL PRODUCTION AND EXTERNAL REBREATHING OF BURNED GASES ON BIODIESEL COMBUSTION" International Journal of Thermal Analysis and Calorimetry. https://doi.org/10.1007/s10973-019-08620-y ISSN 1388-6150 29.7.2019.</p>
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NATIONAL CONFERENCES

1	<p>Murugesan A. and Balamurugan K.R., 'Multi – Point Fuel Injection', National Conference on: "EMERGING TRENDS IN ENGINEERING AND IMPACT AND INNOVERSION" during 1.09.2003 to 02.09.2003 organized by Kaparagam Polytechnic, Coimbatore, Tamil Nadu. pp. 56-68</p>
2	<p>Murugesan A., and Balamurugan K.R., 'EMERGING TRENDS IN IC ENGINES IN MULTI POINT FUEL INJECTION SYSTEM', National level conference on mechanical Engineering organized by Department of Mechanical Engineering M.S. Ramaiah Institute of Technology Bangalore Dated on (12.03.2004 – 13.03.2004), pp. 145-148.</p>
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19.	Murugesan A., Sathish D, Moorthi M , Kumaravel A “EXPERIMENTAL INVESTIGATION ON

	BIO DIESEL PRODUCTION FROM OXYGENATED FUEL AND ITS ECONOMIC ANALYSIS” 2nd International Conference on Advances in Science, Engineering and Management (ICASEM 2K18) Organized by; JAY SHRIRAM GROUP OF INSTITUTION. Date; 6.04.2018 to 7.04.2018.
20.	Murugesan A., Ramesh C , Kumaravel A. “PERFORMANCE, COMBUSTION AND EMISSION CHARACTERISTICS OF DIESEL ENGINE FUELED WITH NON EDIBLE PUNGAMIA OIL BIO- DIESEL –DIESEL BLENDS” 2nd International Conference on Advances in Science, Engineering and Management (ICASEM 2K18) Organized by; JAY SHRIRAM GROUP OF INSTITUTION. Date; 6.04.2018 to 7.04.2018.

PATENT APPLIED

1	Murugesan A. and Nedunchezian N. ‘Production Unit for Bio diesel from Non-Edible Oils’ submitted to the Controller of Patent Office Branch Chennai (Ref. K.S.R.CT/RD/2007-08/300) Dated 1.11.2007.
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PATENT GRANTED

1	Murugesan A, Shanmugam P and Vijayakumar C “INNOVATIVE AND EFFICIENT TECHNOLOGY FOR BIODIESEL PRODUCTION FROM NON-EDIBLE OILS” granted the Controller of Patent Chennai (Ref; SL NO; 044103852,Application No:1103/che/2011) Dated:18 /01/2018. Patent number.291877
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1	Murugesan A, Avinash A and Vijayakumar C . “VEGETABLE OIL PRETREATMENT BY BUBBLE WASHING”. Diary Number : 6255/2018-CO/L. Dated :23/07/2018. Registration Number :L-76790/2018.
2	Murugesan A& Avinash A “ ADVANTAGES AND DISADVANTAGES OF BIO DIESEL” Diary Number :6527/2018-CO/L. Dated :25/07/2018. Registration Number :L-76839/2018
3	Murugesan A& Avinash A “ BIO DIESEL PURIFICATION BY COW DUNG ASH” Diary Number :4548/2018-CO/L. Dated :08/09/2018. Registration Number :L-77720/2018
4	Murugesan A& Avinash A “ BARRIERS IN PROMOTION OF SUSTAINABLE AGRICULTURE” Diary Number :3733/2018-CO/L. Dated :27/11/2018. Registration Number :L-79033/2018.
5	Murugesan A& Avinash A “ BARRIERS OF BIO DIESEL PRODUCTION FROM WASTE COOKING OIL” Diary Number :4007/2018-CO/L. Dated :27/11/2018. Registration Number :L-79032/2018
6	Murugesan A& Avinash A “POTENTIAL BIO DIESEL FEED STOCKS” Diary Number :12527/2018-CO/L. Dated :04/12/2018. Registration Number :L-79307/2018

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1	Murugesan A, KUMARAVEL A & Avinash A “SYNTHESIS OF SILICON DIOXIDE NANO PARTICALES USING SOL-GEL METHOD ” Diary Number :17393/2018-CO/L. Dated :15/12/2018.
---	--

WORKSHOP / SHORT TERM COURSES PARTICIPATED:

1	AICTE-ISTE Sponsored short term training Programme “EMERGING TRENDS IN TRANSPORT BUSES OF 21ST CENTURY” conducted by IRTT Erode from 29.05.2000 to 11.06.2000.
2	One day workshop on “LATEST TRENDS IN VEHICLE TECHNOLOGY” organized by Sri Ramakrishna Engineering College, Coimbatore dated 31.08.2000
3	“TEACHING TECHNOLOGY COUNSELING SKILL” conducted by Abirami Academy, Chennai, from 28.06.2002 to 29.06.2002.
4	“REFCON 2002” conducted by Banari Amman Institute of Technology, Sathyamangalam, from 21.11.2002 to 23.11.2002.
6	One day workshop on “AUTOMOTIVE ELECTRONICS AN ON VEHICLE DEMONSTRATION” conducted by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode, dated 28.07.2004.
7	One day workshop on “ENVIRONMENTAL AND POLLUTION AWARENESS” conducted by Annamalai University dated 22.12.2004.
8	One day workshop on “INSTRUMENTATION ON THERMAL ANALYSIS” conducted by National Institute of Technology ,Tiruchirappalli on 30.04.2005
9	One day workshop on “GREEN ENERGY FOR SUSTAINABLE LIVING” organized by Nirmala College for Women. Coimbatore on 05.08.2005.
10	One day workshop on “ALTERNATIVE FUELS FOR AUTOMOBILES” conducted by Thanthai Periyar Government Institute of Technology, Vellore on 23.09.2005.
11	19 th National Conference on “I.C. ENGINE AND COMBUSTION” conducted by Annamalai University from 21.12.2005 to 23.12.2005.
12	Two days refresher training programme on “HEAVY VEHICLE DRIVING” , sponsor by Government of India, Ministry of Shipping, Road Transport & Highways, Department of Road Transport & Highways, New Delhi organized by Ashok Leyland, Driver Training Centre, Namakkal, from 08.02.2006 to 09.02.2006.
13	Six days training program on “RECENT TRENDS IN IC ENGINE TESTING AND ANALYSIS” conducted by National Institute of Technology ,Tiruchirappalli on 09.02.2007 to 11.02.2007
14	Three days scientists training on “BIO-DIESEL CROP CULTIVATION TECHNIQUES AND PROCESSING” organized by center of excellence in bio fuels agriculture engineering college and research institute, in Tamil Nadu agricultural university. Coimbatore from 20.03.2007 to 22.03.2007.
15	Five days intensive training Programme on “LAB VIEW ADVANCED INCLUDING DAQ, VISION AND MOTION” Organized by NI systems (India) pvt ltd, Bangalore in Association with PSG-NI virtual Instrumentation center, PSG College of Technology, Coimbatore from 14.05.2007 to 18.05.2007.
16	National symposium on “ACOUSTICS” (NSA 2007) organized by Department of Mechanical & Mechatronics Engineering K.S.Rangasamy college of Technology with ACOUSTICAL SOCIETY OF INDIA at K.S.Rangasamy college of Technology from 5.12.2007 to 07.12.2007.
17	Two days workshop on “RECENT TRENDS IN ALTERNATIVE FUELS AND EMISSION CONTROL TECHNIQUES IN INTERNAL COMBUSTION ENGINES” sponsored by TEQIP, organized by Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli from 19.12.2007 to 20.12.2007.
18	National workshop on “FUTURE FUELS FOR LOW EMISSION ENGINES” organized by Department of Mechanical Engineering, Annamalai University, Chidambaram from 26.02.2008 to 27.02.2008.
19	Seven days Programme on “CURRENT TRENDS IN PLANT AUTOMATION” sponsored by AICTE ISTE , organized by Department of Mechanical Engineering, K.S.R.Polytechnic College, Tiruchengode from 28.04.2008 to 02.05.2008.
20	Two days seminar on “AUTO TELEMATICS” Sponsored by Council of Scientific and Industrial Research (CSIR), organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 10.10.2008 to 11.10.2008.

21	Three days Staff Development Program on” RECENT TRENDS IN RENEWABLE ENERGY SOURCES ”sponsored by TEQIP, organized by Department Of Mechanical Engineering, Government College Of Engineering,Salem from 27.01.2009 to 29.01.2009.
22	Two days National seminar on “ EMPHASIS ON FLUID POWER SYSTEM AT LOW COST AUTOMATION FOR TEXTILE INDUSTRIES ” sponsored by AICTE, organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 30.01.2009 to 31.01.2009.
23	National seminar on “ SMART MATERIALS IN INDUSTRIAL AUTOMATION ” sponsored by Department of science and Technology organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 24.03.2009 to 25.03.2009.
24	Staff development Programme on “ AUTOMOTIVE MATERIALS AND ELECTRONICS ” sponsored by AICTE, organized by Faculty of Engineering and Technology, Annamalai University, Chidambaram from 01.06.2009 to 13.06.2009.
25	National seminar on “ EMPHASIS ON FLUID POWER SYSTEM AT LOW COST AUTOMATION FOR TEXTILE INDUSTRIES ” sponsored by All India Council for Technical Education organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 30.01.2009 – 31.01.2009.
26	One week faculty health development program on “ Maha Sri Yogam ”, course held at K.S.Rangasamy College of Technology organized by Universal Peace Foundation, Thirumurthi Hills from 03.11.2009 – 10.11.2009.
27	National seminar on “ MECHATRONICS BASED INSTRUMENTATION FOR MANUFACTURING AUTOMATION ” sponsored by Council of Scientific and Industrial Research organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 12.11.2009 – 13.11.2009.
28	Residential In-plant Training Program on “ Sugar Mill Cogeneration ” in Southern / Western Regional Sates organized by Cogeneration Association of India at Hotel Iswariyaa, Erode from 07.01.2010 – 09.01.2010.
29	National seminar on “ BIO TELEMATICS ” sponsored by Council of Scientific and Industrial Research organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 29.01.2010 – 30.01.2010.
30	National seminar on “ SMART SENSORS IN UNDERWATER AUTONOMOUS ROBOTS ” sponsored by Defence Research & Development Organisation organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 05.03.2010 – 06.03.2010.
31	National Level Workshop on “ RESEARCH IN COPUTER SCIENCE – ISSUES AND CHALLENGES ” organized by Department of Computer Applications (MCA), K.S.Rangasamy College of Technology, Tiruchengode on 17.04.2010.
32	National seminar on “ COMPUTATIONAL INTELLIGENT TECHNIQUES OF MACHINE VISION SYSTEM AT LOW COST AUTOMATION FOR MANUFACTURING INDUSTRIES ” sponsored by All India Council for Technical Education organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode from 22.07.2010 – 23.07.2010
33	TWO DAYS WORKSHOP ON “BUILDING HIGH PERFORMANCE TEAMS FOR SENIOR FACULTY OF HIGHER EDUCATION INSTITUTIONS” , Sponsored by Confederation of Indian Industry, Organized by NALS Outdoors India Private Limited, Nilgiris, 31 st August & 01 st September 2012.
34	Two week ISTE Workshop on “ ENGINEERING THERMODYNAMICS ”, sponsored by Indian Institute of technology, Bombay, under the National Mission on Education through ICT (MHRD). Date 11 th to 21 st December 2012.
35	One day national workshop on “ EVALUATION OF REFUSE DERIVED FUEL FROM WASTE PLASTICS AS ENGINE FUEL SUBSTITUTE ” Sponsored by Government of India Ministry of Environment & Forests, New Delhi. Organized by Department of Mechanical Engineering, Annamalai University, 13 th July 2013.
36	Two days Seminar on “ NATIONAL HIGHER EDUCATION CONCLAVE ” Organized by Confederation of Indian Industry, Coimbatore Zone, 29 th to 30 th November 2013.

37	National Workshop on “INTELLECTUAL PROPERTY RIGHTS IN BIOTECHNOLOGY-PROMOTING POSITIVE MINDS” , Organized by department of Biotechnology, K.S.Rangasamy College of Technology, Date 19 th December 2013.
38	28TH INDIAN ENGINEERING CONGRESS organized by the institution of engineers (India) Tamilnadu State Centre, Date 20 th to 22 nd December 2013.Chennai.
39	FIRST AID TRAINING PROGRAMME organized by St.John Ambulance (India), Erode, Tamilnadu. Date 11 th August 2014.
40	National seminar on ‘ CURRENT TRENDS IN BIOMATERIALS AND APPLICATION OF FEM IN DENTISTRY , organized by department of mechanical engineering, K.S.Rangasamy College of Technology, Date 9&10 sep 2016.
41	AICTE sponsored two weeks faculty development programme ”RAPID CASTING TECHNIQUE” conducted by Department of mechanical engineering , Guru Nanak Institute of Technology –Hyderabad. From 27.11.2017 to 09.12.2017
42	One day seminar on “HOW TO WRITE A SUCCESSFUL PROJECT PROPOSAL TO FUNDING AGENCIES” organized by : Library & Readers club, K.S.Rangasamy College of Technology, Date 21.07.2018.
43	Two week Faculty Development Training Programme on “ME 8493 – THERMAL ENGINEERING -I” , sponsored by Center for Faculty Development , Anna University, CHENNAI. Organized by Department of Mechanical Engineering, Mahendra Engineering College .. Date 10-12-2018-to 22-12-2018.
44	One week Short Term Training Programme through ICT Mode on ” NBA Accreditation” Organized by National Institute of Technical Teachers Training And Research, Kolkata. Dated; 22.04.2019 to 26.04.2019.

PROGRAM ORGANISED

1.	One day work shop on “RENEWABLE ENERGY. ENERGY OF THE FUTURE” during 19.08.05 organized by K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Sponsored by Tamil Nadu energy development agencies, Chennai.
2.	Six days faculty development programme on “HEAT AND MASS TRANSFER” from 07.11.2005 to 12.11.2005, sponsored by Anna University Chennai (Co-organizer).
3.	One day work shop on “RENEWABLE ENERGY TODAY AND TOMORROW” during 06.10.2006 organized by K.S.R. College of Technology, Tiruchengode, and Tamil Nadu. Sponsored by Tamil Nadu energy development agencies, Chennai
4.	National level technical symposium MECHNOCIES 2006 . Organized by K.S.Rangasamy College of technology, Tiruchengode. Dated 20.02.2006.
5.	National Level Conference “RECENT ADVANCEMENT IN MECHANICAL ENGINEERING (RAME 2007)” , 21 st -22 nd February 2007,organized by Department Of Mechanical Engineering,K.S.R. College of Technology, Tiruchengode, Tamil Nadu.
6.	National level technical symposium “MECHNOCIES 2007” . organized by K.S.Rangasamy College of technology, Tiruchengode. Dated 07.09.2007.
7.	One day workshop on “ENGINEERING GRAPHICS” sponsored by Anna University Coimbatore. Organised by Department Of Mechanical Engineering, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu. Dated 06.01.2008.
8.	National level technical symposium “MECHSMITH-2k8” organized by K.S.Rangasamy College of technology, Tiruchengode. Dated 18.09.2008.
9.	National level technical symposium “MECHSMITH-2k9” organized by K.S.Rangasamy College of technology, Tiruchengode. Dated 17.09.2009.
10.	National Seminar on “RECENT ADVANCEMENT IN INDUSTRIAL AUTOMATION” Sponsored by Council of Scientific and Industrial Research organized by Department of Mechanical

	Engineering K.S.Rangasamy College of technology, Tiruchengode. Dated 25.11.2009 – 26.11.2009.
11.	National Seminar on “MODERN MANUFACTURING PRACTICES” Sponsored by Council of Scientific and Industrial Research organized by Department of Mechanical Engineering K.S.Rangasamy College of technology, Tiruchengode. Dated 25-11-2010 to 26-11-2010.
12.	National Seminar on “EMERGING APPLICATION OF NANO FLUID IN MECHANICAL ENGINEERING” Sponsored by Council of Scientific and Industrial Research organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode. Dated 15.03.2011– 16.03.2011.
13.	National Seminar on “INTELLIGENT UNDER WATER AUTONOMOUS ROBOTS FOR OCEAN MONITORING” Sponsored by Ministry of earth sciences organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode. Dated 03-05-2011 to 04-05-2011.
14.	SAE INDIA STUDENT CONVENTION 2011 , Date 30.09.2011 to 01.10.2011, Organized by SAE Collegiate Club and Department of Mechanical and Mechatronics Engineering.
15.	National Seminar on “ADVANCED APPLICATIONS OF POLIMER NANOCOMPOSITES IN AEROSPACE AND DEFENCE INDUSTRY” Sponsored by Council of Scientific and Industrial Research Organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode, Dated 20.01.2012 to 21.01.2012.
16.	National Seminar on “SENSITIZING FACULTIES OF ENGINEERING AND POLYTECHNIC COLLEGES ON SAFETY HEALTH AND ENVIRONMENT” Sponsored by Govt. of India Ministry of Labour & Employment, Directorate General Factory Advice Service & Labour Institutes, Regional Labour Institute Chennai Organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode, Dated 27.08.2012.
17.	National Seminar on “MECHOTRONICS FOR DUAL FUEL TECHNOLOGY IN AUTOMOBILE” Sponsored by Council of Scientific and Industrial Research Organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode, Dated 20.02.2013 to 21.02.2013.
18.	National Seminar on “SAFETY IN ENGINEERING INDUSTRIES” ch Organized by Department of Mechatronics Engineering K.S.Rangasamy College of technology, Tiruchengode, Dated 3.03.2013.
19.	National Level Conference “RECENT TRENDS IN MECHATRONICS AND INDUSTRIAL SAFETY ENGINEERING (RTMISE 2013)” , 10.4.2013. organized by Department Of Mechatronics Engineering,K.S.R. College of Technology, Tiruchengode, Tamil Nadu.
20.	One-day National seminar on “RECENT TRENDS IN AUTO MECHATRONICS” organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, From 18.02.2014.
21.	National Level Two day Workshop on “GRAPHICAL SYSTEM DESIGN USING LABVIEW” , organized by Department Of Mechatronics Engineering,K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated 25 th & 26 th Feb 2014.
22.	Second National Level Conference “RECENT TRENDS IN MECHATRONICS AND INDUSTRIAL SAFETY ENGINEERING (RTMISE 2014)” , 25.3.2014. organized by Department Of Mechatronics Engineering,K.S.R. College of Technology, Tiruchengode, Tamil Nadu
23.	One-day Workshop on “SMART SENSORS IN AUTOMOBILES” organized by Department Of Mechatronics Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated 30 th Sep 2014.
24.	Third National Level Conference “RECENT TRENDS IN MECHATRONICS AND INDUSTRIAL SAFETY ENGINEERING (RTMISE 2015)” , 24.3.2015. organized by Department Of Mechatronics Engineering,K.S.R. College of Technology, Tiruchengode, Tamil Nadu.
25.	National Level Two day Workshop on “VIRTUAL INSTRUMENTATION USING LAB VIEW” , organized by Department Of Mechatronics Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated 30 th & 31 st Mar 2015.
26.	One-day Workshop on “STATUTORY RECORDS FOR SAFETY, HEALTH AND ENVIRONMENT” organized by Department Of Mechatronics Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated 21 st Apr 2015.
27.	One-day Workshop on “AERODYNAMIC ANALYSIS AND EMISSION CONTROL TECHNIQUES IN AUTOMOBILES” organized by Department Of Mechanical Engineering, K.S.R.

	College of Technology, Tiruchengode, Tamil Nadu. Dated; 15 st October 2015
28.	One-day Workshop on “ EMISSION CONTROL IN AUTOMOBILES USING RENEWABLE FUEL TECHNOLOGY ” organized by Department Of Mechanical Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated ; 23 rd September 2016
29.	Invited talk for students “ YOUth CAN ” from Chinmaya Mission, Tiruchengode. 8.02.2019
30.	Invited talk for faculty and staff “ LEADer ” from Chinmaya Mission, Tiruchengode. 8.02.2019

ACADEMIC ACTIVITIES

1. Designed and developed lab equipment in the thermal engineering lab.
2. Prepared study material for Engineering Drawing and handouts and instructional material for thermal lab.

BOOKS PUBLISHED

1.	Bio diesel as an Alternate Transportation Fuel for Diesel Engine. An –in deep study on biodiesel performance. LAP LAMBERT, Academic publishing- Germany In the year 2016 ISBN .No; 978-3-330-01535-7
2.	Bio mass Derived Bio fuels. An- insight in to Bio diesel performance. LAP LAMBERT, Academic publishing- Germany In the year 2016 ISBN .No; 978-3-330-01848-8
3.	Alternative fuel from rural based non-edible oil seeds. An –in deep study on biodiesel performance. LAP LAMBERT, Academic publishing- Germany In the year 2016 ISBN .No; 978-3-659-56475-8
4.	The interest of combining an additive with fuel blends . The role of fuel additives. LAP LAMBERT, Academic publishing- Germany In the year 2016 ISBN .No; 978-3-330-07070-7
5.	Bio –diesel derived from Neem oil. An –in deep study on biodiesel performance.and emission characteristics. LAP LAMBERT, Academic publishing- Germany In the year 2017 ISBN .No; 978-620-2- 00694-1
6.	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
7.	Experimental & CFD Heat Transfer Analysis of Elliptical Annular fin. A deep study on Nano coating. LAP LAMBERT, Academic publishing- Germany In the year 2018 ISBN No; 978-613-9- 85609-1.

AWARDS AND ACHIEVEMENTS:

1	BEST PAPER AWARD from Indian Society of Technical Education 13th ISTE Annual Convention (Tamilnadu & Pondicherry Section) Organized by K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE
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	Dated: 29-10-2010 to 30-10-2010. Entitled “ JOB STRESS AND ITS IMPACT ON WORK LIFE BALANCE AMONG ENGG COLLEGE TEACHERS ”
2	BEST PAPER AWARD from National conference on COMPUTATIONAL FLUID DYNAMICS APPLICATIONS IN BIO TECHNOLOGY PROCESSES sponsored by Department of Bio Technology (DBT) & Science and Engineering Research Board(SERB) New -Delhi. Dated: 18-08-2015 to 19-08-2015. Entitled “ CFD MODELING AND SIMULATION OF TRANSESTRIFICATION REACTION OF WASTE TYRE OIL WITH AN ALCOHOL IN BAFFLED STIRRED TANK REACTORS ”
3	Dr APJ ABDUL KALAM AWARD FOR SCIENTIFIC EXCELLENCE-2015 . From MARINA LABS Research and development- Chennai ; DATE; 27.10,2015
4	EXCELLENT PROFESSIONAL ACHIEVEMENT AWARD CLASS “1” From Society of Professional Engineers- Chennai- DATE; 28.08,2016
5	OUTSTANDING RESEARCHER AWARD from Top Engineers Educational Trust Chennai, Dated on 01. 10. 2016
6	THE BEST FACULTY PERFORMER IN GOOGLE SCHOLAR CITATIONS AWARD for the academic years; 2016-2017 , 2017-2018, 2018-2019 from K.S. Rangasamy college of Technology, Tiruchengode.
7	INNOVATIVE TECHNOLOGICAL RESEARCH & DEDICATED PROFESSOR AWARD from Society of Engineers & Technicians, Kuala Lumpur- Malaysia. Dated ; 12.03.2017
8	“ BEST SCIENTIST AWARD-2017 ” from Indian Academic Researchers Association- given the On 22.04.2017, at Tiruchirappalli
9	ALL INDIA BEST PUBLICATION AWARD- 2017 for the academic year 2017-2018 from SOCIETY FOR ADVANCEMENT OF HUMAN AND NATURE (SADHNA). DR YS PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY NAUNI, SOLAN 173230 - HIMACHAL PRADESH, INDIA. Dated: 28.02.2018
10	INNOVATIVE RESEARCHER (MECHANICAL ENGINEERING) & EXCELLENT ACADEMICIAN AWARD for the year 2018 . From The Society of Innovative Educationalist & Scientific Research Professional- Chennai joint with Innovative Scientific Research Professional Malaysia-Sdn-Bhd, on 25.03.2018 at Coimbatore.
11	NSF MOST INFLUENTIAL PAPER AWARD for the year 2018 . From Nature Science Foundation, Coimbatore. Dated ; 30.09.2018
12	PERASIRIYAR RATHINA VIRUTHU-2018 . From Kaviyarasar kalai tamil sangam- Paramathi Vellor. Dated; 30.09.2018
13	INNOVATIVE RESEARCH PROFESSIONAL & DEDICATED BEST ACADEMICIAN AWARD for the year 2018 . From The Society of Innovative Educationalist & Scientific Research Professional Malaysia. At Convention Hall, Campus “UNIVERSITY TEKNOLOGI MARA” (UiTM) Puncak Alam , Malaysia. Dated; 21.10.2018
14	OUT STANDING FACULTY AWARD – 2018 , From Aruni International Research Foundation, Tiruvannamalai. Dated; 2.12.2018
15	THE BEST FACULTY PERFORMER IN INTELLECTUAL PROPERTY RIGHT (IPR) for the academic years; , 2018-2019 from K.S. Rangasamy college of Technology, Tiruchengode. Dated ; 22.02.2019


CITATION OF RESEARCH PAPER DETAILS AS ON 14.08.2019

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Dr.A.Murugesan,B.E,M.E,Ph.D.,FISME,FIARA,FISRD(UK),, FOLLOW

Professor, Dept of Mechanical Engineering, [K.S.Rangasamy College of Technology](#), Tiruchengode,Namakkal
Verified email at ksrtc.ac.in

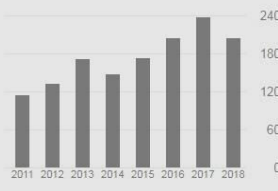
IC Engines Automobile Alternative Fuels Catalytic convertors Nano fuel additives

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TITLE	CITED BY	YEAR
Bio-diesel as an alternative fuel for diesel engines—a review <small>A Murugesan, C Umarani, R Subramanian, N Nedunchezian Renewable and sustainable energy reviews 13 (3), 653-662</small>	593	2009
PRODUCTION AND ANALYSIS OF BIO DIESEL FROM NON – EDIBLE OILS – A REVIEW <small>NN Murugesan A, Krishnan M, Chinnusamy T.R., Umarani C., Subramaniam R. International Journal of Renewable and Sustainable Energy Reviews 13, 825-834</small>	369 *	2009
REVIEW OF NOX REDUCTION TECHNOLOGIES IN C I ENGINES FUELLED WITH OXYGENATED BIOMASS FUELS <small>NN Rajasekar E, Murugesan A Subramanian R. International Journal of Renewable and Sustainable Energy Reviews 14 (7 ...</small>	117 *	2010
BIO-DIESEL – A GLOBAL SCENARIO <small>AA Murugesan A, Subramaniam D Renewable and sustainable energy reviews 29, 517 – 527</small>	68 *	2014
REVIEW OF UTILIZATION OF EXTENDED SURFACES IN HEAT TRANSFER PROBLEMS <small>SKC Murugesan A, Nagarani N, Mayilsamy K Renewable and sustainable energy reviews 29, 604 – 613</small>	46	2014
BIO-DIESEL PRODUCTION AND ITS ENGINE CHARACTERISTICS-AN EXPATIAE VIEW <small>KA Subramaniam D, Murugesan A, Avinash A. International Journal of Renewable and Sustainable Energy Reviews 22, 361-370</small>	41 *	2013
EFFECTS OF INJECTION TIMING ON BIO-DIESEL FUELLED ENGINE	34	2015

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Ph.D DETAILS :-

Register Number : 2005259103
Topic : **EXPERIMENTAL AND THEORETICAL INVESTIGATION OF USING BIO DIESEL IN DIESEL ENGINES**
Date of Registration : 1.01 2005
Date of Viva-Voce Completed : 31.07.2009
Name of the Supervisor : Dr.N.Nedunchezhian
Department of Automobile Engineering
I R T T ,Erode.

Ph.D GUIDED

1.Topic : **EXPERIMENTAL AND THEORETICAL INVESTIGATION ON ESTERS OF NON EDIBLE OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE.**

Name of the Candidate : D.SUBRAMANIAM
Register Number : 100960321047
University : Anna University, Chennai,
Date of Viva-Voce : 20.03.2015

2. Topic : **DYNAMIC SCHEDULING AND LAYOUT PLANNING BY USING HYBRID EVOLUTIONARY METHOD IN THE FLEXIBLE MANUFACTURING SYSTEM**

Name of the Candidate : M.KRISHNAN
Register Number : 7076122111
University : Anna University, Chennai,
Date of Viva-Voce : 08.05.2015

3.Topic : **EXPERIMENTAL AND THEORETICAL INVESTIGATION ON COMPRESSION IGNITION ENGINE CHARACTERISTICS FUELLED WITH DIESEL – BIODIESEL BLENDS DOPED WITH COPPER OXIDE NANO PARTICLES**

Name of the Candidate : C.Vijayakumar
Register Number : 71010321109
University : Anna University, Chennai,
Date of Viva-Voce : 09.12.2016

4.Topic : **EXPERIMENTAL INVESTIGATION ON THE PERFORMANCE CHARACTERISTICS OF DI-CI ENGINE FUELLED WITH METHYL ESTERS AND PINE OIL BLENDS**

Name of the Candidate : **N.Panneerselvam**
Register Number : **71060321055**
University : **Anna University, Chennai,**
Date of Viva-Voce : **09.02.2018**

GUIDING Ph.D

- 1. Topic** : **POTENTIAL OF WASTE TYRE PYROLYSIS OIL
AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE**

Name of the Candidate : **S.T.Kumaravel**
Register Number : **1414269184**
University : **Anna University, Chennai**
- 2. Topic** : **EXPERIMENTAL INVESTIGATION ON DUAL
FUEL PREMIXED CHARGE COMPRESSION
IGNITION ENGINE**

Name of the Candidate : **A.Avinash**
Register Number : **1614269284**
University : **Anna University, Chennai, , (Thesis submitted)**
- 3. Topic** : **EXPERIMENTAL INVESTIGATION ON DI-CI LHR ENGINE
CHARACTERISTICS OPERATED WITH OXYGENATED
FUELS**

Name of the Candidate : **M.Moorthi**
Register Number : **18142697173**
University : **Anna University, Chennai,**
- 4. Topic** : **EXPERIMENTAL INVESTIGATION ON DI-CI LHR ENGINE
OPERATED WITH ELECTRONICALLY CONTROLLED
HOT AND COLD EGR INTEGRATED WITH PORT FUEL
INJECTION**

Name of the Candidate : **R. Prakash**
Register Number : **19142691131**
University : **Anna University, Chennai,**
- 5 Topic** : **INTEGRATED DESIGN AND EXPERIMENTAL
INVESTIGATION ON REDUCING EMISSION FROM DI-CI
LHR ENGINE PORT FUEL INJECTION**

Name of the Candidate : C.Ramesh
Register Number : 19132691139
University : Anna University, Chennai,

INVITED TALK / GUEST LECTURE

1. Murugesan A., '**BATTERY OPERATED VEHICLE**', One day work shop on "Renewable Energy. Energy of the future" during 19.08.05 organized by K.S.R. College of Technology, Tiruchengode, Tamil Nadu. pp. 16-24.
2. Murugesan A., '**BIO DIESEL AS THE ENVIRONMENTAL FRIENDLY RENEWABLE FUEL FOR FUTURE**', One day work shop on "Renewable Energy Today And Tomorrow" during 06.10.2006 organized by K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu. pp. 11-18.
3. Murugesan A "**BIO DIESEL AS A RENEWABLE ALTERNATIVE GREEN FUEL FOR DIESEL ENGINES**" AICTE – Sponsored National seminar on "THE GREEN ENGINES" Organized by Nandha Engineering College Erode 11.06 2010.
4. Murugesan A "**BIO - DIESEL PRODUCTION FROM NON-EDIBLE OIL** " DRDO– Sponsored one day workshop on "BIO – FUEL AND ITS APPLICATIONS IN IC ENGINES " Organized by Faculty of Engineering and Technology, Department of Mechanical Engineering, Annamali university, Chidambaram. 30. 08 2010.
5. Murugesan A "**BIO - DIESEL THROUGH TRANESTERIFICATION OF NON-EDIBLE OIL BY ETHONAL AS SOLVENT AND KOH AS A CATALYST**" AICTE– Sponsored two week Staff Development Programme on "EMERGING TRENDS IN ALTERNATIVE FUELS AND EMISSION CONTROL TECHNIQUES FOR I.C. ENGINES" Organized by Department of Automobile Engineering, IRTT, ERODE. From 24.11.2010 to 07.12.2010.
6. Murugesan A, "**ALTERNATIVE FUELS**", Organized by M.P.Nachimuthu M.Jaganathan Engineering College, Chennimalai Erode, Date: 01.03.2012.
7. Murugesan A, "**BIO-DIESEL AS THE ENVIRONMENTAL FRIENDLY RENEWABLE FUEL FOR FUTURE**" Faculty development programme on NANO TECHNOLOGY FOR SYSTAINABILITY ENERGY CONVERSION AND STORAGE organized by Department of Electrical & Electronics Engineering, K.S.Rangasamy College of Technology, From 06.05.2013 to 18.05.2013
8. Murugesan A, "**ENVIRONMENTAL FRIENDLY CLEAN AND GREEN FUELS**" Technical Education Quality Improvement Programme Phase – II, Sponsored Faculty Development Programme. Organized by Department of Mechanical Engineering Government College of Engineering, Salem. From 18.10.2013 to 24.10.2013.
9. Murugesan A, "**ALTERNATIVE FUELS AND RESEARCH OPPORTUNITY**" Technical Education Quality Improvement Programme Phase – II, Sponsored Faculty Development Programme. Organized by Department of Mechanical Engineering Government College of Engineering, Bargur. From 11.12.2013 to 17.12.2013.
10. Murugesan A, "**ENGINE ELECTRONICS AND EMISSION CONTROL**" One-day National seminar on "**RECENT TRENDS IN AUTO MECHATRONICS**" organized by Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, From 18.02.2014.
11. Murugesan A, "**HELMET AWARENESS PROGRAMME FOR ROAD SAFETY**" organized by NSS Unit – I, K.S.Rangasamy College of Technology, Dated 14th August 2014.

- 12 Murugesan A, “**AUTOMOBILE EMISSION CONTROL TECHNIQUES USING SMART SENSORS**” One-day Workshop on “**SMART SENSORS IN AUTOMOBILES**” organized by Department Of Mechatronics Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated 30th Sep 2014.
- 13 Murugesan A, “**ROAD SAFETY AWARENESS PROGRAMME FOR PUBLIC**” organized by Namakkal District, Superintendent of Police, Tiruchengode, Tamil Nadu. Dated 12th Jan 2015.
- 14 Murugesan A, “**EMISSION CONTROL IN AUTOMOBILE DOPING NANO ADDITIVES WITH DIESEL**” One-day Workshop on “**AERODYNAMIC ANALYSIS AND EMISSION CONTROL TECHNIQUES IN AUTOMOBILES**” organized by Department Of Mechanical Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated; 15st October 2015
- 15 Murugesan A, “**EMISSION CONTROL IN AUTOMOBILE USING OXYGENATED BIO - FUELS**” One-day Workshop on “**EMISSION CONTROL IN AUTOMOBILES USING RENEWABLE FUEL TECHNOLOGY**” organized by Department Of Mechanical Engineering, K.S.R. College of Technology, Tiruchengode, Tamil Nadu. Dated ; 23rd September 2016
- 16 Murugesan A, “**PEER REVIEW**” Two days seminar on “**RESEARCH METHODOLOGY**” organized by Library & Readers Club, K.S.Rangasamy College of Technology, From: 26.06.2018 to 27.06.2018.
- 17 Murugesan A,” **POWER OF POSITIVE THOUGHT**” Seventh book Expert’s Talk Programme organized by Library & Readers Club, K.S.Rangasamy College of Technology. Dated: 27.11.2018
18. Murugesan A “**OXYGENATED BIO FUELS: PROGRESS AND PROSPECTS**” one week DST- SERB SHORT TERM TRAINING PROGRAMME ON BIOFUELS AND FUEL CELL- FUNDAMENTALS AND APPLICATIONS (3.12.2018 to 9.12.2018). Organized by Department of Mechanical Engineering, Faculty of Engineering and Technology, Annamali University, Chidambaram. Dated: 4.12.2018.
- 19 Murugesan A “**ALTERNATIVE ENERGY SOURCES**” Two weeks faculty development and training programme on ME 6602 Automobile Engineering (3.12.2018 to 15.12.2018) Sponsored by Center for Faculty Development, Anna University, Chennai-25. Organized by : Mahindra Institute of Technology, Tiruchengode. Dated: 6.12.2018.
- 20 Murugesan A”**FILLING: PATENT –TRADE MARK- DESIGN AND COPY RIGHT- OVER VIEW.**” One day AICTE/MHRD Sponsored “Work shop on IPR for Students and Faculty Members” Organized by: Mahindra Engineering College, Tiruchengode. Dated: 10.01.2019.

ADMINISTRATIVE EXPERIENCE

1. Acted as Anna University Representative in ANNA UNIVERSITY Examinations.
2. Acted as Chief Examiner in ANNA UNIVERSITY central valuation.
3. Acted as NBA and NAAC Coordinator.
4. Acted as Anna university Nodal center coordinator at K.S.Rangasamy College of Technology, Tiruchengode.
5. Presently acting as an Energy Club coordinator, HRD cell coordinator, and staff club secretary in K.S. Rangasamy College of Technology.
6. Acted as Chairman Board of Studies in B.E. Mechatronics and M.E Industrial Safety Engineering .
7. Approved Ph.D / M.Tech (By Research) Supervisor in faculty of Mechanical Engineering. Approved by Anna University - Chennai.
8. Acted as an Chief Examiner in Tamil Nadu public service Commission Examinations conducted in K S Rangasamy college of Technology

9. Headed the Department of Mechatronics and Industrial Safety Engineering for 5 Academic years.
10. Acted as a jury national and international conference.
11. Acted as a result passing board member of M. E (Thermal Engineering) and M. E (Energy Engineering) in Annamali University.
12. Acting as an panel of examiner in Tamil Nadu public service Commission Examinations.
13. Acting as a Board of studies member for department of Mechatronics engineering in Sona college of technology- Salem.

INTERNATIONAL and NATIONAL JOURNAL REVIEWER

S.No	Title of Journals
1.	International journal of Renewable and sustainable energy
2.	International Asia-Pacific journal of chemical engineering
3.	International Journal of Green Energy
4.	International Journal of Ambient energy
5.	International Journal of Procedia Engineering
6.	International Journal of Measurement and Control
7.	International Journal of Thermal Analysis and Calorimetry
8.	International Journal of scientific reports.
9.	Journal of The Institution of Engineers (India): Series C.
10.	Technical editor in International journal of Technology Today
11.	Technical consultant in international journal of Engineering Technological Research
12.	Technical consultant in international Journal of Engineering Technology and Management Science.
13.	Assignment editor in Journal of Electrical Electronics & Computer Engineering Research.
14.	Consulting Editor in international Journal of Engineering Today.
15.	Technical reporter of international journal of The Technology World.
16.	Consulting Engineer in Journal of Automotive Mechanical & Aerospace Engineering Research.
17.	Consulting Editor in national Journal of Engineering Today.