

EASWARI ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PAPER PUBLICATIONS

International Journal

ACADEMIC YEAR: 2019 – 2020

Sl No	Paper Details	SCI/ SCOPUS / NON SCOPUS	Impact Factor	Name of the staff
1.	Prasanna Raj Yadav S, Karthick S, Senthilnathan K, Gnanaprakash A, “Fundamental droplet evaporation and engine application studies of an alternate fuel produced from waste transformer oil, Fuel, Vol 259 (1), 116253, 2020	SCI	5.0	Dr.Prasanna Raj Yadav S, Karthick S, Senthilnathan K
2.	Ravivarman R, Palaniradja K, Prabhu Sekar, R. “Performance enhancement of normal contact ratio gearing system through correction factor”, Journal of Mechanical Engineering and Sciences Volume 13, Issue 3,pp. 5242-5258, 2019	SCOPUS		Dr.R.Ravivarman
3.	Babu K, Kumaresan G, Antony Aroul Raj V, Velraj R, “CFD studies on different configurations of drying chamber for thin-layer drying of leaves”, Journal of Building Physics, DOI: 10.1177/1744259119867462, pp: 1-14, 2019	SCI	0.5	Dr.V.Antony Aroul Raj
4.	Kumar S, Arun prakash S, Pandiarajan V, Antony Aroul Raj V, Velraj R, “Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects:10.1080/15567036, 2019	SCI	0.32	Dr.V.Antony Aroul Raj
5.	Yuvaraj G, “Investigation of Energy Absorption behavior of square Aluminum Tubes with Cutouts Under Axial Compression”, Materials Science Forum, Vol. 969, pp 181-186, 2019	SCOPUS	0.173	Yuvaraj G
6.	Yuvaraj G, Fannan C.B.V, A.P. Junaidh, “ Investigating the Effect of Point Angle While Drilling Titanium”, Materials Today Proceedings, Vol 16, pp 824 -831, 2019	SCOPUS	0.3	Yuvaraj G
7.	Yuvaraj G, Ramakrishnan S, “An Experimental Research of Hybrid natural/ Glass Fiber Based Epoxy Composite” International Journal of Engineering and Advanced Technology, Vol 9(1),pp: 293 -295, 2019	SCOPUS	-	Yuvaraj G
8.	Yuvaraj G, Giritharan K, Radhika Koganti, Kumar R. S, Ramdoss R, “Lean Concepts of Stream Mapping of Gear Manufacturing”, International Journal of Innovative Technology and Exploring Engineering, Vol 8(12S), 2019	NON SCOPUS	-	Yuvaraj G, Giritharan K, Radhika Koganti, Kumar R. S, Ramdoss R
9.	Billy, D., Paulmar Pushparaj, Vetrivel Sezhian M, Omsakthivel U., “Structural and mechanical design of solar tracking system” International Journal of Engineering and Advanced Technology, Vol 8(6), pp: 1425-1431, 2019	SCOPUS	-	Billy, D., Paulmar Pushparaj, Vetrivel Sezhian M, Omsakthivel U
10.	Elumalai B, Gowri S, “Experimental Study on Micro - deburring of Micro - grooves by Micro EDM” Springer Lecture Notes,	SCOPUS	-	Elumalai B

	doi.org/10.1004/978-981-13-2718-6_3, 2019			
11.	Joel C , Jeyapoovan T, “Machinability Optimization of Abrasive Water Jet Cutting Process on AA6082 Aluminum Alloy”, International Journal of Innovative Technology and Exploring Engineering, Vol 8(10), pp: 2134-2140, 2019	NON SCOPUS	-	Joel C
12.	Karthikeyan K, Naga Chandrika K K, Deepan Raj Kumar A, Thiagarajan S , Vishnu Kumar V, “Research on Mechanical Behavior of AMMC (Al -SiC) Composite in Disc Brakes”, International Journal of Engineering and Advanced Technology, Vol 8(6S3),pp: 1432 – 1437, 2019	SCOPUS	-	Karthikeyan K, Naga Chandrika K K, Deepan Raj Kumar A, Thiagarajan S,
13.	Sakthimurugan D, Anthony Michael Raj L, Anthony Aroul Raj V, Thavasilingam K, Bharath N , “Elimination of Tool Failure in Edge Cutting Machine using Quality Tools and Techniques”, International Journal of Innovative Technology and Exploring Engineering, Vol 8(12S), pp: 34-43, 2019	NON SCOPUS	-	Sakthimurugan D, Anthony Michael Raj L, Anthony Aroul Raj V, Thavasilingam K, Bharath N
14.	Jeremiah R, Prabhakaran D, Jothi prakash V. M , Prasath P, Raghavendra J, “Design and Fabrication of Centre Line Maker”, International Journal of Engineering and Advanced Technology, Vol 8(6S3),pp: 1438 – 1442, 2019	SCOPUS	-	Jeremiah R, Prabhakaran D, Jothi prakash V. M
15.	Selvadurai M , Vignesh ponmurugan S, Vijayakumar R, Dillibabu V , “Creating a TRNSYS of Spiral Flow Flat Plate Solar Water Heater (SFSWH) and Comparing Unique Results with parallel Flow Flat Plate Collector” International Journal of Innovative Technology and Exploring Engineering, Vol 8(12S), pp: 49-56, 2019	NON SCOPUS	-	Selvadurai M, Dillibabu V
16.	Ramya Suresh K, Senthilnathan K, Prasanna Raj Yadav S, Karthick S , “Experimental on Flexural Strength of Glass/Kevlar and Glass/Carbon Hybrid Composite Laminates” “International Journal of Innovative Technology and Exploring Engineering, Vol 8(12S), pp: 45-48”, 2019	NON SCOPUS	-	Ramya Suresh K, Senthilnathan K, Prasanna Raj Yadav S, Karthick S

ACADEMIC YEAR: 2018 – 2019

Sl No	Paper Details	SCI/ SCOPUS/ NON SCOPUS	IMPACT FACTOR	Name of the staff
1.	B. Prem Anand, S. Prasanna Raj Yadav , S. R. Dhanadevi, P. Kanimozhi & T. Pavadharani, “Exploration of carbon deposit on spark plug of stratified charged gasoline direct injection engine”, International Journal of Ambient Energy https://doi.org/10.1080/01430750.2018.1501750 August 2018.	SCOPUS	0.654	S. Prasanna Raj Yadav
2.	B. Prem Anand, S. Prasanna Raj Yadav , B.Aasthiya, G.Akshaya & K. Arulmozhi “Effect of fuel injection strategies on the performance of the common rail diesel injection engine powered by biofuel”, International Journal of Ambient Energy https://doi.org/10.1080/01430750.2018.1517690 September 2018.	SCOPUS	0.654	S. Prasanna Raj Yadav
3.	C. Joel, S. Anand , S. Padmanabhan & S. Prasanna Raj Yadav "Thermal analysis of carbon-carbon piston for commercial vehicle diesel engine using CAE tool", International Journal of Ambient Energy https://doi.org/10.1080/01430750.2018.1525594 September 2018	SCOPUS	0.654	S. Prasanna Raj Yadav, C. Joel, S. Anand
4.	S. Prabhakaran, S.Padmanabhan & C.Joel “ Design Optimization and Structural Analysis of Automotive Chassis” International Journal of Mechanical and Production Engineering Research and Development. October 2018.	SCOPUS	0.5	C.Joel
5.	C. Joel, et.al "Investigation on the effect of nanofluid on performance behavior of a waste cooking oil on a small diesel engine", International Journal of Ambient Energy. December 2018	SCOPUS	0.5	C.Joel
6.	Elumalai Boominathan,et.al (2018).“Experimental Study on Micro-deburring of Micro – grooves by Micro EDM”. Springer “Lecture Notes in Mechanical Engineering”. Paper Published.	SCOPUS	0.5	Elumalai.B
7.	K.Giridharan , V.Jaiganesh and S.Padmanabhan (2018).“Influences of Tool Pin Profiles on Mechanical Properties of Friction Stir Welding Process of AA8011 Aluminum Alloy”. Springer “Lecture Notes in Mechanical Engineering”. Paper Published.	SCOPUS	0.5	K.Giridharan
8.	K.Giridharan , V.Jaiganesh, K.Senthilnathan, S.Anand and S.Padmanabhan (2018).“Experimental Study on Mechanical Properties of AA8011- AA6082 Friction Stir Welded Dissimilar Joints of Aluminum Alloys”. International Journal of Vehicle Structures and Systems. Paper Accepted Waiting for Published.	SCOPUS	0.5	K.Giridharan

9.	K Palani , C Elanchezhian and M Raju , “ Sensitivity analysis of process parameters on tensile properties in Plasma Arc Welding of AA8011-H24 aluminium alloys and Ti3Al2.5V Titanium alloys using Response Surface Methodology”. IOP Conf. Series: Materials Science and Engineering 390 (2018) 012042 doi:10.1088/1757-899X/390/1/012042.	SCOPUS	0.2	M Raju
10.	S.Dinesh, C.Elanchezhian, B.Vijayaramnath , R. Ramadoss , “Experimental Investigation Of Composite Materials For Marine Applications-A Review” International Journal of Engineering, Science and Mathematics Vol. 7 Issue4, April 2018(special issue NCIME)	SCOPUS	0.3	Dr. R. Ramadoss

ACADEMIC YEAR: 2017 – 2018

Sl No	Paper Details	SCI/SCOPUS/NON SCOPUS	IMPACT FACTOR	Name of the staff
1.	George Sahaya Nixon R, Mohanty B S and Bhaskar G B, “Effect of process parameters on physical measurements of AISI316 stainless steel coating on EN24in friction surfacing”, Materials and Manufacturing Processes Vol. 33, Iss. 7, 2018 pp 778-785 DOI: 10.1080/10426914.2017.1388524. 2017.	SCI Indexed	2.274	Dr. B S Mohanty
2.	R. George Sahaya Nixon, B. S. Mohanty , “Characterization of Friction-Surfaced SS316 Overlaid on Medium-Carbon Steel”, Silicon, Spinger, https://doi.org/10.1007/s12633-017-9612-3 ,	SCI Indexed	0.829	Dr. B S Mohanty
3.	Karthik Panchabikesan , Antony Aroul Raj Vincent , Yulong Ding , Velraj Ramalingam “Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit”, Energy 144 (2018) 443 – 455	SCI Indexed	4.52	Dr V Antony Aroul Raj
4.	VR Karthik Panchabikesan, , Antony Aroul Raj , Sujatha Abaranji, Pandiyarajan “Effect of direct evaporative cooling during the charging process of phase change material based storage system for building free cooling application—A real time experimental investigation”, Energy and buildings 152 (1), 250-263 2017	SCI Indexed	4.067	Dr V Antony Aroul Raj
5.	G.K. Sathishkumar , G. Rajkumar, K. Srinivasan, M.J. Umaphathy C. “Structural analysis and mechanical properties of lignite fly-ash-added jute–epoxy polymer matrix composite”, Journal of Reinforced Plastics and Composites Vol 37, Issue 2, pp. 90 – 104, 2017.	SCI Indexed	1.086	G.K. Sathishkumar,
6.	K. Raj Kiran, S.Prasanna Raj Yadav , C. G. Saravanan, E. James Gunasekaran ,Ramesh Perumal. “Computational Analysis of Combustion, Performance And Emission Characteristics On Di Diesel Engine With Variable Intake Geometries”, Journal of Advanced Research in Dynamical and Control Systems , Spl Issue 14, pp 465-476, 2017.	SCOPUS	0.297	Dr S.Prasanna Raj Yadav
7.	Joel C, Elumalai B, Anand S, Padmanabhan S , “Design And Analysis Of Sports Bike Wheel Spokes”, Journal of Advanced Research in Dynamical and Control Systems , Spl Issue 14, pp 477-485, 2017.	SCOPUS	0.297	Joel C, Elumalai B, Anand S, Padmanabhan S
8.	Sivasaravanan.S, Padmanabhan.S , Sai Akash, Shankara Narayanan H, “Mechanical Characterization Of GFRP/CFRP/Natural Fiber Laminated In Epoxy Resin Composite”, Journal of Advanced Research in Dynamical and Control Systems , Spl Issue 14, pp 497-504, 2017.	SCOPUS	0.297	Dr S Padmanabhan

9.	Sivasaravanan.S, Padmanabhan.S , Sathish Kumar K ,Jishnuvardhan Reddy, “ Fabrication of Porous Composite Material For Crash Energy Absorption”, Journal of Advanced Research in Dynamical and Control Systems , Spl Issue 14, pp 486-496, 2017.	SCOPUS	0.297	Dr S Padmanabhan
10	K.Giridharan, V.Jaiganesh, B.YokeshKumar , “Studies on Friction Stir Welding Process Parameters Of Dissimilar Alloys”, Journal of Advanced Research in Dynamical and Control Systems , Spl Issue 18, pp 1927-1936, 2017	SCOPUS	0.297	K Giridharan
11	S.Prasanna Raj Yadav “An Experimental Investigations on the Effects of Intake Manifold Design and Use of Bio fuel In DI Diesel Engine”, <i>International Journal of Ambient Energy, 2018, doi :10.1080/01430750.2017.1422150</i>	SCOPUS	0.654	Dr S.Prasanna Raj Yadav

ACADEMIC YEAR: 2016 – 2017

S. No.	Paper
1.	M.Raja Gopalan, R Dinesh BAbu, V.Antony Aroul Raj , R. Velraj, “Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings” <i>Advances in Building energy research 2016.</i>

ACADEMIC YEAR: 2015 – 2016

S. No.	Paper
2.	Sriram Ravi and Ramadoss.R. ,”Effect of Mechanical and Metallurgical Properties of Friction Welded Dissimilar Materials (AISI 316L Stainless Steel and Pure Copper)”, Vol -3, Issue - 11, 2321-9653, pp 32 - 38, June 2015.
3.	E.Devandiran1, V.S.Shaisundaram , S.Ramabishek, “An analysis of FBC boiler performance on different types of coal”, <i>International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.68, 2015.</i>
4.	V.S.shaisundaram , S.S.Shai monish, J.sathyaraj, S.Suryaprakash, Pa.Vignesh, R. Vigneshkumar, “Emission Characteristics of CI Engine by using Palm Bio-Diesel”, <i>Int. Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 5, Issue 9, (Part - 2), pp.43-48, 2015.</i>

5.	Antony AroulRaj.V, Hariharan.C, Velraj.R and Seeniraj.R.V , “Numerical Investigations of Outward Solidification in Cylindrical PCM Storage Unit”, Applied Mechanics and Materials, Vol -787, 1662-7482, pp 177 - 181, August 2015.
6.	V.S.ShaiSundaram, S.Yogaraj, S.Anand and E.Devandiran , “Nuclear-powered stirling engines in electric power Generation plants”, International Journal of Research and Development organization, Vol -2, Issue -12, 3855-0154, pp 19 - 27, December 2015.
7.	Shai Sundaram V.S, E.Devandiran, V.Elango, S.Sabeesh Kumar, S.SharunKutty and S.Sujith , “Waste Heat as an Alternate Source for Electricity”, International Journal of Current Engineering and Technology, Vol -5, Issue - 5, 2347 – 5161, pp 3340 - 3343, October 2015.
8.	Ayyasamy Krishnamoorthy Babu, V Antony Aroul raj , G. Kumaresan, “Misfire Detection in a Multi-Cylinder Diesel Engine: A Machine Learning Approach”, Journal of Engineering Science and Technology, Vol. 11, No. 2 (2016) 278 – 295, Feb 2016.
9.	Sabyasachi Mukherjee & P. Sivaniranjan , “Design of A Temperature Control System Using MATLAB For Milk Process Plant”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 339 - 412, 2016
10.	T. Sunil Prasad* & Dr. R. Ramadoss , “Fatigue crack Growth Studies on Corten Steel”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 421 - 425, 2016
11.	K. L. Naresh Raj & K. G. Ashok , “Design and Fabrication of Vibration Damping Pad Using Luffa Cylindrica Fiber Reinforced Polymer Composite”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 441 - 448, 2016
12.	M. Sanju Edwards & V. G. Ganesan , “Performance Study of Mixing Agitator Using Computational Fluid Dynamics”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp

	449 - 460, 2016
13.	T. Nagavignesh & K. Karthikeyan , “Design and Fabrication of Aerial Vehicle”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 526 - 533, 2016
14.	M. Anbarasan & Dr. V. Elango , “Design and Fabrication of Unmanned Vehicle”, International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 623 - 631, 2016
15.	M. Thoufiq Ahamed & K. Senthil Nathan , “Optimization of Gas Flow Through Duct Burner” ,International Journal of Multidisciplinary Research and Modern Education (IJMRME), ISSN (Online): 2454 – 6119, Volume II, Issue I, pp 632 - 639, 2016
16.	Shiju.J, Hariharan.C ,” Design & Analysis of Twisted Tape Twist Ratio Performance of Heat Exchanger”, International Journal of Engineering Research in Mechanical and Civil Engineering, Volume I, Issue I, pp 26 – 29, 2016

ACADEMIC YEAR: 2014 – 2015

S. No.	Paper
1.	V.Mugendiran, A.Gnanavelbabu and R.Ramadoss , “Parameter optimization for surface roughness and wall thickness on AA5052 Aluminium alloy by incremental forming using response surface methodology”, ScienceDirect, Procedia Engineering 97, 1877-7058, 1991 – 2000, 2014
2.	D. Loganathana, A. Gnanavelbabu, K. Rajkumar and R. Ramadoss , “Effect of Microwave Heat Treatment on Mechanical Properties of AA6061 Sheet Metal”, ScienceDirect, Procedia Engineering 97, 1877-7058, 1692 – 1697, 2014
3.	Karthikeyan.K , Shrenik.V, Manikandan.G, Pillai MadhushankarSubramonia, Ramachandran.S, “A Vehicle for Physically Challenged”, International Journal of Engineering Research in Electronics and Communication Engineering, Vol. 1, Issue 2, 2015.
4.	V.S.Shaisundaram, S.Yogaraj, D. Sakthimurugan , “Solar Photovoltaic option for meeting power demand” at Pondicherry Engineering college International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, special Issues 2, 2015.

5.	P. Krishna, A. K. Babu, A. P. Singh and Antony Aroul Raj V , “Reduction of NOx in a Diesel Engine using Split-Injection Approach”, Journal of Engineering Science and Technology, Vol -10, Issue - 5, 1823-4690, pp 552 – 570, May 2015
6.	VivekananthanKarthikeyan, SsheshanPugazhendhi, Sai Krishnan Subramanium and Antony Aroul Raj V , “CFD Investigation of Influence of Span wise Pitch on Local Heat Transfer Distribution for In-Line Array of Impinging Jets for Medium Cross flow”, Vol. - 4, Issue - 3, 2319 - 8753, pp 1284 - 1291, March 2015.
7.	D Balajee , G Sankaranarayanan and K Sai Prashanth, “Optimization of a stationary VCR CI engine fuelled with Dunaliellasalina oil and Corn oil using Taguchi approach”, International Journal of Applied Engineering Research, Vol. - 10, Issue - 19, 0973-4562, pp 14868-14882, November 2015.
8.	Balajee S B , Balaji P , Shreyas J and Satheesh K , “An Overview of X-By Wire Systems”, International Journal of Innovative Research in Science, Engineering and Technology, Vol - 4, Issue - 3, 2319 – 8753, pp 183 - 192, March 2015.
9.	Felix A , ManojThirupathi S and Satheesh K , “An Overview of Transport Management Technologies”, International Journal of Innovative Research in Science, Engineering and Technology, Vol - 4, Issue - 3, 2319 – 8753, pp 152 - 159, March 2015.

ACADEMIC YEAR: 2013 – 2014

S. No.	Paper
1.	D Balajee , G Sankaranarayanan, P Harish and N Jeevarathinam, “Performance and Combustion Characteristics of CI Engine With Variable Compression Ratio Fuelled with Pongamia and Jatropha and its Blends with Diesel”, International Journal of Mechanical Engineering and Robotic Research, Vol - 2, No. 3, 2278 - 0419, 74 - 84, July 2013
2.	KrishnakumariAharamuthu ,ElayaperumalAyyasam, “Gear fault diagnosis using vibration signals based on decision tree assisted intelligent controllers, Vibroengineering”. Journal of Vibroengineering, ISSN 1392-8716, Volume 15, Issue 4, 1826-1837, 2013.

3.	A.S. Ramana, R. Venkatesh, V. Antony Aroul Raj and R. Velraj, “Experimental investigation of the LHS system and comparison of the stratification performance with the SHS system using CFD simulation”, Vol - 103, 0038-092X, 378–389, February 2014.
4.	S.Jaichandar ,K.Annamalai and P.Arikaran , “Comparative evaluation of pongamia biodiesel with open and re-entrant combustion chambers in a DI diesel engine”, International Journal of Automotive Engineering and Technologies, Vol. 3, Issue 2,2146-9067, pp. 66 – 73, April 2014.
5.	S.Jaichandar , K.Annamalai, V.Elango , P.Arikaran & V. Antony Aroul Raj , “Effects of varying the compression ratio on the performance of a biodiesel fuelled diesel engine”, International Journal of Automotive Engineering and Technologies, Vol - 3, Issue - 3, 2146-9067, pp. 103 - 110, April 2014.