



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2020-2021

FACULTY PUBLICATIONS - International / National Journals

SL. NO	DETAILS
1.	Mr.A.Kannan, Mr.R.Mohan, Dr.R.Vishwanathan, Mr.N.Sivashankar,” Experimental Investigation on Surface Roughness Tool Wear and Cutting force in turning of Hybrid (Al7075+Sic+Gr) Metal Matrix Composites” , journal of Materials Research and technology, Vol 9., No. 6, pp 16529-16540.
2.	Ganapathi Saravanan, Ramasamy Venkatachalam Gurusamy Nallakumarasamy,” Experimental assessment on the impact of cutouts on a hollow shaft system, Materials Testing, Vol.11, issue 62, pp1143-1146.
3.	R.Viswanathan, K.G.Saravanan, J.Balaji, R.Prabu, K.Balasubramani,” Optimization of wear and friction parameters in Aluminium7075 Hybrid Composite, Elsevier – materials today proceedings. (Published in online)
4.	Karthik R, Viswanathan R, Balaji J, Sivashankar N, Arivazhagan R, “Optimization of WEDM Parameters for machining of AZ31B Mg Alloy using Taguchi Method, Materials Science and Engineering.
5.	Mr.N.Sivashankar,Dr.K.Viswanathan,Dr.K.Periasamy,Dr.R.Venkatesh,Mr.S.Chaandramar,“Multi objective optimization of performance characteristics in drilling of Mg AZ61 using twist end mill drill tool” , Elsevier – materials today proceedings. Vol 37, pp.214-219.
6.	Dr.D.Jagadeesh Mr.M.Vivekanandhan Mr.A.Natarajan Mr.S.Chandrasekar,” Experimental conditions to identify the ideal shape of dryer investigation of Six shapes of solar green house dryer in no load”, Elsevier – materials today proceedings, Vol 37, pp. 395-403.
7.	Dr.V.Gopinath Mr.R.Perisamay Mr.G.Selvakumar Mr.RA.Kingslly Mr.S.Logeswaran,” Evaluation of the effect of cryogenic treatment of HSS drills in drilling SS310”, Elsevier – materials today proceedings. Vol 37, pp.449-452.



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

8.	Mr.Ra.Aravind Mr.V.muthukumar Mr.S.Kumaravel Mr.E.Sivaprakash.” Performance assessment of 2X90 TPH (AFBC) boiler and study of Hp heater”, Elsevier – materials today proceedings. Vol 37, pp.404-408
9.	Mr.M.Vivekanandhan Dr.K.Periasamy Mr.C.Dineshbabu Mr.G.Selvakumar Mr.R.Arivazhagan, “Experimental and CFD investigation of six shapes of solar greenhouse dryer in no load conditions to identify the ideal shape “, Elsevier – materials today proceedings, Vol.37, pp. 1409-1416.
10.	Mr.M.Vivekanandhan Dr.D.Jagadeesh Mr.A.Natarajan Mr.N.Mohan Mr.M.Dineshkuar, ” Experimental and CFD Investigation of Fully Developed Flow Solar Air Heater”, Elsevier – materials today proceedings. Vol.37, pp. 2158-2163.
11.	Mr.M.Vivekanandhan Dr.R.Venkatesh Mr.R.Periyasamy Mr.S.Mohankumar Mr.L.Devakumar, “Experimental and CFD Investigation of Helical Coil Heat Exchanger with Flower Baffle”, Elsevier – materials today proceedings. Vol.37, pp. 2174-2182
12.	Mr.M.Vivekanandhan Dr.G.Saravanan Mr.V.Vijayan Mr.K.Gopalakrishnan Mr.J.Phani Krishna,“Experimental and CFD Investigation of Spiral Tube Heat Exchanger”, Elsevier – materials today proceedings, Vol.37, pp.3689-3696.
13.	N. Ravikumar, P. Sharmila, S.P. Premnath Rajakumar, S. Rai, J. Mohammed Feros Khan, Ram Subbiah, “Performance and optimization of parameters rubber punching process”, Elsevier – materials today proceedings. (Published in online)
14.	Mr.B.Babu, Mr.S.K.Karthikeyan,” Fabrication of Mechanised Conveyor using Four Bar Mechanism, Stard Research, Vol.7, No.11 pp. 316-319, Nov.2020
15.	Mr.B.Babu Mr.N.Mohan, ”Defects reduction in a pump manufacturing industry using Sic Sigma methodologies, Vol. 6, No. 1, pp. 805-811,

FACULTY PUBLICATIONS - International / National Conferences

SL. NO	DETAILS
1.	Dr.R.Venkatesh,” Optimization and Experimental investigation of spiral coil heat exchanger under TEMA standards”, International Virtual Conference of Recent Innovations in Science



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
2.	Dr.R.Venkatesh,” Performance of temperature of a room by using solar chimney”, International Virtual Conference of Recent Innovations in Science, Engineering and Technology at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
3.	Dr.G.Saravanan,” Performance Analysis of Shell and Tube Heat Exchanger”, International Conference on New Scientific Creations in Engineering and Technology at Nadar Saraswathi College of Engineering and Technology on 19th March 2021
4.	Dr.G.Saravanan,” Experimental investigation and predict the GTAW process parameter on A15052”, International Virtual Conference of Recent Innovations in Science, Engineering and Technology at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
5.	Dr.V.Gopinath,” Study of various methods to improve the gas turbine plant efficiency”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
6.	Mr.S.K.Karthikeyan,” Thermal analysis of Semi pyramidal acrylic type solar still and semi pyramidal glass type solar still”, International Conference on New Scientific Creations in Engineering and Technology at Nadar Saraswathi College of Engineering and Technology on 19th March 2021
7.	Mr.S.K.Karthikeyan,” Heat transfer analysis of Biofilmed pipe line”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
8.	Mrs.V.Selvam,” Electrochemical brakes stop motion using Electromagnetic force to apply mechanical resistance”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

9.	Mr.K.Balasubramani,” Optimization of catalytic converter emission performance for Genset diesel engine with and without fuel additives”, International Virtual Conference of Recent Innovations in Science at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
10.	Mr.S.Kumaravel,” Experimental Investigation of Electrochemical machining process on copper alloy by varying its process parameters”, International Conference on Emerging Approaches in Mechanical & Automobile Engineering at Arasu Engineering College on 17th and 18th March 2021.
11.	Mr.S.Kumaravel,” Performance Enhancement of Solar PV panel using appropriate Cooling system”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
12.	Mr.G.Selvakumar,” Regenerative braking in electric bus”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
13.	Mr.K.Gopalakrishnan,” Fabrication of pneumatic welding machine”, International Conference on New Scientific Creations in Engineering and Technology at Nadar Saraswathi College of Engineering and Technology on 19th March 2021
14.	Mr.K.Gopalakrishnan,” Power generation from exhaust gas”, International Conference on Engineering and Technology at Cauvery College of Engineering and Technology on 18th & 19th March 2021.
15.	Mr.N.Mohan,” Identification of the various common collection cause factors and analysis of the centrifugal pump”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
16.	Mr.P.Raja,” Experimental Studies on VCR diesel engine with mafuna biodiesel”, International Conference on Engineering and Technology at Cauvery College of Engineering



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	and Technology on 18th & 19th March 2021
17.	Mr.Ra.Aravind,” Computational analysis of exhaust system in diesel engine on thermal laboratory”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
18.	Mr.E.Sivapraksh,” Studies on bifacial solar panels with sun tracking system” , International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021
19.	Mr.E.Sivapraksh,” Performance analysis of asymmetric compound parabolic concentrator”, International Conference on New Scientific Creations in Engineering and Technology at Nadar Saraswathi College of Engineering and Technology on 19th March 2021
20.	Mr.S.Mohankumar,” Ergonomic risk factor in poultry farming and prevalence of musculoskeletal disorder”, International Conference on Engineering and Technology at Cauvery College of Engineering and Technology on 18th & 19th March 2021.
21.	Mr.A.Natarajan,” Optimization characteristics and microstructure analysis of Al7075 hybrid metal matrix composite by using abrasive water jet machining”, International Conference on Emerging Approaches in Mechanical & Automobile Engineering at Arasu Engineering College on 17th and 18th March 2021.
22.	Mr.A.Natarajan,” Emission control analysis on Bs-vi diesel engine in heavy vehicle”, International Conference on Engineering and Technology at Cauvery College of Engineering and Technology on 18th & 19th March 2021.
23.	Mr.M.Dineshkumar,” Wear properties of Hard facing deposits on mild steel using gas tungsten arc welding (GTAW)”, International Virtual conference on Emerging Trends in Mechanical and Automobile Engineering at J.K.K.Munirajan College of Technology at 19th April 2021



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

24.	Mr.M.Dineshkumar,” Evaluation of geometrical and machining process parameters optimization on EN 24 by using VMC”, International Virtual Conference of Recent Innovations in Science, Engineering and Technology at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
25.	Mr.V.Muthukumar,” Clean iron casting production”, International Virtual Conference of Recent Innovations in Science, Engineering and Technology at M.Kumarasamy College of Engineering on 3rd & 4th July 2020.
26.	Dr.R.Venkatesh,” Double pass solar air heater using aluminium absorber plate with chimney”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
27.	Dr.S.Gobinath,” Design and fabrication of Ground nut Sheller removing machine”, Virtual National Conference on Green Mechatronics Systems – 2021 at Hindusthan College of Engineering and technology on 31st March 2021
28.	Dr.K.Periasamy,” Implementation of multimode vibration absorbing with electro magnetic damping”, Virtual National Conference on Innovations in Electrical Power and Green Energies at M.Kumarasamy College of Engineering on 24th March 2021
29.	Dr.K.Periasamy,” Design and fabrication of robot with crane system”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
30.	Dr.D.Jagadeesh,” Design and fabrication of modern Egg incubator”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
31.	Dr.D.Jagadeesh,” Solar green house dryer with combination of single pass solar air heater”, National Web Conference on Advances in Science, Engineering and Technology at Jai



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	Shriram Engineering College on 26th March 2021
32.	Dr.G.Saravanan,” Experimental CFD investigation of TEMA shell and tube heat exchanger”, Virtual National Conference on Green Mechatronics Systems - 2021 at Hindusthan College of Engineering and technology on 31st March 2021
33.	Dr.G.Saravanan,” Experimental analysis of thermal conductivity of fused Zirconia alumina composite”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
34.	Dr.V.Gopinath,” Cryo drilling”, National Level Conference on Renewable Energy System & Project Expo at Aiswarya College of Engineering and technology on 13th March 2021
35.	Mr.R.Arivazhagan,” Analysis for mechanical behavior of jute fibre aluminum powder reinforced hybrid polymer composite”, National Level Virtual Conference (ELECTTRICO-2k21) at v Karpagam Academy of Higher Education on 26th March 2021
36.	Mr.S.K.Karthikeyan,” Automatic railway track crack detection vehicle”, National Level Virtual Conference (ELECTTRICO-2k21) at Karpagam Academy of Higher Education on 26th March 2021
37.	Mr.K.Balasubramani,” Fabrication of high performance electrical bicycle”, National Conference on Green Mechatronics System at Hindusthan College of Engineering and technology on 31st March 2021
38.	Mr.K.Balasubramani,” Design and fabrication of crusher machine for plastic waste”, National Level Virtual Conference (ELECTTRICO-2k21) at Karpagam Academy of Higher Education on 26th March 2021
39.	Mr.K.Balasubramani,” Experimental studies on a diesel engine using mahua oil performance, combustion and emission analysis”, National Conference on Green Mechatronics System at



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	Hindusthan College of Engineering and technology on 31st March 2021
40.	Mr.C.Dineshbabu,” Motorised industrial trolley”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
41.	Mr.C.Dineshbabu,” Automatic water level sensing crane”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
42.	Mr.S.Kumaravel,” Storage type indirect hot water system by using flat plate collector”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
43.	Mr.S.Kumaravel,” Performance enhancement of solar panel using appropriate cooling system”, National Conference on Emerging Trends in Mechanical Engineering and its Applications at SRM institute of science and technology on 10th April 2021
44.	Mr.R.Periyasamy,” Effect of injection pressure on diesel engine using Mahuva Biodiesel”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
45.	Mr.R.Periyasamy,” Single pass solar air heater by using copper plate”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
46.	Mr.S.Chandrakumar,” Ignition control system in Engine using seat belt” Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
47.	Mr.S.Chandrakumar,” Double solar air heater using copper plate with vanes & GD lates”,



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
48.	Mr.S.Chandrakumar,” Mechanical behavior of (Aramid) kevlar fiber composite”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
49.	Mr.J.Mahendran,” Vehicle tyre rolling resistance and load speed performance test analysis”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
50.	Mr.J.Mahendran,” Solar thermo electric refrigeration”, National Level Virtual Conference (ELECTTRICO-2k21) at Karpagam Academy of Higher Education on 26th March 2021
51.	Mr.R.Karthik,” Study the microstructure properties of AZ318 Magnesium alloy by Nano coating”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
52.	Mr.M.Praveen,” Solar operated motorized reciprocating pump”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
53.	Mr.M.Praveen,” Comparative analysis of chromium coated HSS tool and non coated HSS tool”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
54.	Mr.Ra.Aravind,” Spiral baffle design in double pipe heat exchanger with CFD analysis”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
55.	Mr.Ra.Aravind,” Experimental analysis of novel cylindrical shape solar still with a forced



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

	collection system”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
56.	Mr.S.Mohankumar,” Implmentation of multimode vibration absorbing with electromagnetic damping”, Virtual National Conference on Innovations in Electrical Power and Green Energies at M.Kumarasamy College of Engineering on 24th March 2021
57.	Mr.G.Selvakumar,” Design of oil cooler plate and fin assembly using LCA”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
58.	Mr.M.Dineshkumar,” Design and fabrication of multipurpose agricultural equipment”, equipment’Virtual Conference on Smart Computing & Advanced Communication at PSNA college of engineering and technology on 31st March 2021
59.	Mr.A.Natarajan,” Exhaust gas breaking system”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
60.	Mr.A.Natarajan,” Fabrication of Air leakage detector in two wheeler”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
61.	Mr.E.Sivaprakash,” Develop and manufacturing of solar panel with sun position tracking system”, Virtual National Conference on Design, Manufacturing and Automation at SRM TRP Engineering College on 15th April 2021
62.	Mr.E.Sivaprakash,” Glazing solar heat collector for agricultural products”, Virtual National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

63.	Mr.N.Mohan,” Experimental investigation of aluminium, Nickel and MOS 2 composite materials”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
64.	Mr.V.Muthukumar,” Fabrication and characterization of banana coir steel fiber composites”, National Conference on Green Mechatronics Systems at Hindusthan College of Engineering and technology on 31st March 2021
65.	Mr.N.Sivashankar,” Machinability study of AZ31 by using ECM process”, National Web Conference on Advances in Science, Engineering and Technology at Jai Shriram Engineering College on 26th March 2021
66.	Dr.A.Nithya, “Comparative Analysis of chromium Coated HSS tool and Non coated HSS Tool”, National level Conference on Emerging Trends in Engineering Design and Manufacturing at Hindusthan Institute of technology on 25th March 2021
67.	Dr.A.Nithya, “Green Mechatronics system”, Virtual National Conference on Green Mechatronics Systems at at Hindusthan College of Engineering and technology on 31st March 2021.