

Department of Automobile Engineering:

Academic Year 2020-21

1. V Chandran, Investigation on mechanical characteristics of luffa natural fiber reinforced polymer composite materials International Journal of Vehicle Structures and Systems, Volume-12, Issue-2. pp. 152-161, 2020.
2. V.Chandran, Performance Evaluation of Mono Suspension Using Neodymium Magnets, Journal of Recent Trends in Mechanics, Volume-5, Issue-2. pp. 18-23, 2020.
3. P.Pathmanaban, Application of thermal imaging for detecting cold air leak location in cold storage, Int. Journal of advances in applied sciences, Volume-9, Issue-4. pp. 294-301, 2020.

Academic Year 2019-20

1. P.Pathmanaban, Recent application of imaging techniques for fruit quality assessment, Trends in Food Science & Technology, Volume-9, Issue-4. pp. 924-934, 2019.
2. P.Pathmanaban, Six Sigma methodologies for increasing the first pass rate of Engines in manufacturing , Advanced Research Publication, Volume-4, Issue-1. pp. 24-30, 2019.
3. V.Chandran, Mechanical Investigation of Crane Hook using AISI 4340 Alloy Steel with Various Proportions of Vanadium, Journal of Automation and Automobile Engineering , Volume 4 Issue 3, pp.1-6, 2019.
4. V.Chandran, Comparative behavior of various nano additives in a DIESEL engine powered by novel Garcinia gummi-gutta biodiesel- Journal of Cleaner Production, Volume 245, Issue 1, pp.443-452, 2019.
5. E. GanapathySundaram, Inferences on the effects of geometries and heat transfer fluids in multi-cavity solar receivers by using CFD, Renewable Energy And Water Sustainability, Volume 45, Issue 3, pp.243-253, 2019
6. E. GanapathySundaram, performance of concentrated solar power collector based on materials, heat transfer fluids and design, Journal of Thermal Analysis and Calorimetry, Volume 18, Issue 1, pp.1243-1153, 2019.
7. P.Pathmanaban, Testing of Coconut Shell Reinforced Brake PADS, International Journal of Scientific Research and Engineering Development, Volume 2, Issue 5, pp.853-859, 2019.
8. V.Chandran, Experimental Investigation on the Effect of Ignition Enhancers in the Blends of Sapota Biodiesel/Diesel Blends on a CRDi Engine- Energy Fuels, Volume 11, Issue 4, pp.953-961, 2019

Academic Year 2018-19

1. E. GanapathySundaram, Experimental measurement of physic-chemical properties of oxygenate (DIPE) blended gasoline, Measurement, Volume 134, Issue 1, pp.280-285, 2018.
2. M.Senthamilselvan, A review on combustion, performance and emission characteristics of reactivity controlled compression ignition (RCCI) engine, International journal of mechanical and production engineering research and development, Volume 8, Issue 8, pp.1-8, 2018.
3. E. GanapathySundaram, A comparison study on emission characteristics of using higher alcohol oxygenates with gasoline in multi point fuel injection spark ignition engine, Journal of testing and evaluation, Volume 34, Issue 3, pp.781-792, 2018.
4. P.Pathmanaban, Modelling and analysis of wheel used in light commercial vehical, Journal of mechanical robotics, Volume 3, Issue 3, pp.1-9, 2018.
5. P.Thennarasu, Experimental analysis of surface roughness and tool wear in machining process of glass fiber reinforcement plastic composites, Journal of automation and automobile engineering, Volume 3, Issue 3, pp.10-17, 2018.
6. M.Yuvaraj, Performance and emission characteristics of a diesel-LPG fuel in greeves engine , Journal of automation and automobile engineering, Volume 3, Issue 3, pp.18-24, 2019.
7. G.Logesh, Emission control techniques using lemon peel oil as additives with biodiesel (jatropha curcus) in CI engine , International journal of pure and applied and mathematics, Volume 119, Issue 12, pp.10451-10456, 2018.
8. V.Chandran, Effect of Different Proportions of Magnesium reinforced Carbon Steel for Excavator Bucket Teeth, Journal of Automation and Automobile Engineering , Volume 2 Issue 3, pp.1-8, 2018.
9. V.Chandran, Comparative Study on the Effect of Samarium Additions on Thermo-mechanical Behaviour of Shape Memory Alloys-Materiaux & Techniques, Volume 106, Issue 1, pp.1-9, 2018.

2. MOU

S.No.	Name of the Industry with Details	Date on which MoU signed	Scope of the MoU	Validity Period
1	Diagonal Cadd, Chennai	23/10/2019	Design related projects, Consultancy projects	3 Years
2	Sunbam Technology, Chennai	08/12/2021	Internships, Industrial visit and Placements	3 Years

3. Patent

S.NO	Title of the Patent	Application Number	Filing Date	Status
1	Solar hybrid desalination system	TEMP/E1/328442019-CHE	09/08/2019	Published, First examination report submitted
2	Hand-Held braile device	202141034855	03/08/2021	Provisional Patent Registered
3	Inteligent head protecting safety helmet	202141034861	03/08/2021	Provisional Patent Registration
4	Automated Dosa Cooking Machine	1/23210/2021	7.6.2021	Provisional Patent Registered
5	Energy Efficient Cooking Device	TEMP/E1/18560/2020-CHE-		Published, Waiting for evaluation

4. Funded research projects

S. No	Title of the Project	File Number	Investigators	Sanctioned on	Funding Agency	Amount Sanctioned	Project period
1	Dosa Maker	VEC-IEDC-AUTO5	Dr.S.Baskara sethupathy	09/03/2020	DST – IEDC	2.5 Lakhs	1 Year
2	Instant	VEC-IEDC-	Dr.S.Baskara	09/03/2020	DST –	2.5	1 Year

	Idly Maker	AUTO6	sethupathy		IEDC	Lakhs	
3	E-Boat	VEC-IEDC-AUTO7	Dr.V.Chandran	09/03/2020	DST – IEDC	2.5 Lakhs	1 Year
4	Ventilation Helmet	VEC-IEDC-AUTO8	M.Yuvaraj	09/03/2020	DST – IEDC	2.5 Lakhs	1 Year
5	Braille Tablet	VEC-IEDC-AUTO9	M.Yuvaraj	09/03/2020	DST – IEDC	2.5 Lakhs	1 Year

5. Consultancy work

S.No	Name of the Company	Work Title	Sanctioned on	Amount Received	Project period
1	Ashok Leyland, Ennore plant, Chennai	Utilization of Exhaust Waste Heat Energy from Engine test bed for washing process	17.6.2018	-	5 months
2	Giri Enterprises, Ambattur Chennai	Work holding devices-CAD	14.2.2020	-	1 Month