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St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS

OMR, CHENNAI - 119

Department of Mechanical Engineering

PATENT APPLIED / GRANTED

Academic Year 2024-25

S.No	Application No	Staff Name	Title Of Patent	Status
1.	202421062188	Dr.D.Elil Raja	Electric Power Generation From Biomass Gasification: A Study Of System Efficiency And Optimization	Published
2.	202441019700	Dr.M.Chrispin Das	Design Of Stability Mechanism And Emergency Control Of Power System With Wind Power Integration	Published
3.	202441086719	Dr.M.Chrispin Das	Novel System, Enhancing The Mechanical Properties Of Banana Fiber And Tamarind Shell	Published
4.	202441092967	Dr.N.Thangapandian	Innovative Application Of Venturi Nozzle In Industrial And Household Process	Published
5.	202441067150	Dr.J.Immanuel Durai Raj	Reinforcement Application E-Waste Filler In Sisal Fiber Composites With Variable Stacking Sequence Method	Published
6.	202441083966	Dr.J.Immanuel Durai Raj	Electric Vehicle Power Converter For Enhanced Efficiency And Performance	Published
7.	202441067161	Dr.D.Arthur Jebastine Sunderraj	Comparative Studies Of 87sn-7zn-3al-3in And 87.5sn-6 Zn-2al-2.5in Lead-Free Soldering	Published
8.	202441092967	Dr.D.Arthur Jebastine Sunderraj	Developing Of Tin Based Cerium Solder Alloy	Published
9.	202441095277	Dr.D.Arthur Jebastine Sunderraj	Enhanced Reliability: Tin-Praseodymium Solder Alloys	Published
10.	202441075402	Mr.R.Ranjith Kumar	Method For Efficient Commercialization Of Metal-Based Composites In Industrial Applications	Published
11.	202441069380	Mr.S.Jagadeesh	Solar And Tidal Energy Dual Power Generation	Published
12.	202441101748	Mr.K.Ramesh	Automatic Solar Grass Cutter	Published
13.	202441071427	Mr.K.Ramesh	Solar Powered Three Blade Grass Cutter	Published
14.	202441076809	Mr.A.Sathish Kumar	Method For Additive Manufacturing Of Bézier Metamaterials And Viscoelastic Evaluation	Published

15.	202441061974	Mr.A.Sathish Kumar	Performance Analysis Method For Lubricant Oils Using Reichert Test To Evaluate Extreme Pressure, Properties Of Lubricants And Cutting Fluids	Published
16.	202441101695	Mr.A.Sathish Kumar	A Novel Suspension System For Control Of Vibration In Vehicles	Published
17.	202421062188	Dr.S.Prathap Singh	Tumeric Harvester Machine	Published
18.	202541012544 A	Dr.S.Prathap Singh	Vibration Mount For Engine	Published
19.	202441067139	Mr.D.Murali	Next-Gen Farming: Ai Solutions For Enhancing Crop Productivity	Published
20.	202441090844	Mr.D.Murali	Autopilot Drone For Agriculture	Published
21.	202441082999a	Mr.K.Narayanamoorthy	An Alternative Fuel Assisted Control System For Internal Combustion Engine And Method Thereof	Published

Academic Year 2023-24

S.no	Application no	Staff Name	Title of Patent	Status
1.	202341071434	Dr.D.Elil Raja	Water pumping system using pendulum	Published
2.	202441086719	Dr.M.Chrispin Das	Novel system, enhancing the mechanical properties of banana fiber and Tamarind shell	Published
3.	202441019700	Dr.M.Chrispin Das, Mr. S. A. Muhammed Abraar	Design of Stability Mechanism and emergency control of power system with wind power integration	Published
4.	202441016795	Dr.M.Chrispin Das,	Novel system, method of enhancing the mechanical properties of Areca fine fibers	Published
5.	202341052665	Mr. T. Prabhuram	A biodegradable and water repellent based coating material for packaging applications and preparation.	Published
6.	202441067150	Dr.J.Immanuel Durai Raj	Reinforcement application E-waste filler in sisal fiber composites with variable stacking sequence method	Published
7.	202441083966	Dr.J.Immanuel Durai Raj	Electric Vehicle Power Converter for Enhanced Efficiency and Performance	Published

8.	202441067150	Dr.J.Immanuel Durai Raj	Reinforcement application E-waste filler in sisal fiber composites with variable stacking sequence method	Published
9.	202341062492	Dr.J.Immanuel Durai Raj	Multiple Camera based System for 3D Model Construction of Inner Walls of Ship Propeller from 2D Image	Published
10.	202441067161	Dr.D.Arthur Jebastine Sunderraj	Comparative Studies of 87Sn-7Zn-3Al-3In and 87.5Sn-6 Zn-2Al-2.5In Lead-Free Soldering	Published
11.	202441092967	Dr.D.Arthur Jebastine Sunderraj Mr. S. A. Muhammed Abraar	Developing of Tin Based Cerium Solder Alloy	Published
12.	202441095277	Dr.D.Arthur Jebastine Sunderraj Mr. S. A. Muhammed Abraar	Enhanced Reliability: Tin-Praseodymium Solder Alloys	Published
13.	202341052666	Dr.D.Arthur Jebastine Sunderraj	Method for performing of zinc oxide nanoparticles using lentinula edodes mushroom and chitosan.	Published
14.	202441075402	Mr.R.Ranjith kumar	Method for efficient commercialization of Metal-based Composites in industrial applications	Published
15.	202341052677	R. Ranjith Kumar, S. A. Muhammed Abraar	An apparatus for obtaining dispersed carbon nanotubes using liquid nitrogen treatment.	Published
16.	202441069380	Mr.S.Jagadeesh	Solar and Tidal Energy dual power generation	Published
17.	202341052679	Mr.S.Jagadeesh	A device to predict failure of a fuel injection pump in vehicle and method thereof.	Published
18.	202441071427	Mr.K.Ramesh	Solar Powered Three Blade Grass Cutter	Published
19.	202441006973	Mr.K.Ramesh	Polyethylene blended with ABS	Published
20.	202441076809	Mr.A.Sathish Kumar	Method for Additive Manufacturing of Bézier Metamaterials and viscoelastic evaluation	Published
21.	202441061974 A	Mr.A.Sathish Kumar	Performance analysis method for Lubricant oils using reichert test to evaluate extreme pressure, properties of lubricants and cutting fluids	Published

22.	202341059794	Mr.S.Jagadeesh	Internal combustion engine using alternative fuel injection system and method thereof	Published
23.	202441067156	Mr. S. A. Muhammed Abraar	Frictionless Electromagnetic Braking system	Published
24.	202341072817	Mr.S.A.Muhammed Abraar	Additive manufactured hybrid automotive dashboard using	Published
25.	202441019701	Mr.S.A.Muhammed Abraar	An autonomous mobile robot system monitoring emotional and physical health parameters and a method	Published
26.	202441019702	Mr.S.A.Muhammed Abraar	Synthesization of magnetic nanoparticles for waste water	Published
27.	392725-001	Mr. S. A. Muhammed Abraar	Agriculture drone for monitoring and spraying pesticides	Granted
28.	395020-001	Mr. S. A. Muhammed Abraar	IoT based face mask detecting and body temperature measuring device	Granted
29.	394225-001	Mr. S. A. Muhammed Abraar	Industrial robot	Granted
30.	394443-001	Mr. S. A. Muhammed Abraar	Sea water desalination apparatus using solar energy	Granted
31.	202441079831	Mr.S.Prathap Singh	Turmeric harvester machine	Published
32.	202341071207	Mr.S.Prathap Singh	Chain trencher for agricultural application	Published
33.	202441067139	Mr.D.Murali	Next-gen farming: AI solutions for enhancing crop productivity	Published
34.	202441090844	Mr.D.Murali	Autopilot drone for agriculture	Published
35.	202341052668	Mr.D.Murali	Development of electrically insulating biodegradable shellac based fibers and method thereof.	Published
36.	202441082999	Mr.K.Narayanamoo rthy	An alternative fuel assisted control system for internal combustion engine and method thereof	Published
37.	202341052667	Mr.K.Narayanamoo rthy	System and method for AI based predictive maintenance module for gas turbine engine	Published



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Department of Mechanical Engineering

2022-23

PATENT

SI No	CBR No	Application Number	Name of the Faculty	Title	Status
1	209893	353242-001	1.Dr R Jegadeesan 2. Ms.D.Maladhi 3.Ms.T.Bhavatharini 4. Dr.D.Elil Raja	A SOLAR PANEL CLEANING ROBOTIC DEVICE	Granted Date 13.01.2023
2	207028	372285-001	Mrs. M.Rameeza Dr.R.Satheesh Mr.S.A.Muhammed Abraar" Mr.K.Narayanamoorthy	ENGINE PISTON HOLDER	Granted Date 23.01.2023
3	207030	372287-001	1.DR D ELIL RAJA 2. T PRABHURAM 3. N SURESH 4. D ARTHUR JEBASTINE SUNDERRAJ	ANTI VIBRATION PAD FOR MACHINERY	Granted Date 11.01.2023
4	207025	372282-001	1. S.A MUHAMMED ABRAAR 2. DR K ARUN VASANTHA GEETHAN 3. J IMMANUEL DURAIRAJ 4. D MURALI	VIBRATION AND SHOCK ARRESTING PAD FOR MACHINERY	Granted Date 13.01.2023
5		202241050752	1 . Dr. R. Jayaprakash (SAS, AV campus) 2 . Dr. I. Ameeth Basha (SAS, Av campus) 3 . Dr. G. K. Ayyadurai (SSEC) 4 . Hariharan Venkatasubramanian	A MIXTURE OF FISH AMINO ACID PRODUCED FROM WASTE MOLASSES, PULVERIZED EGG SHELL, ZINC OXIDE, AND SILVER NANOPARTICLES FOR THE AGRICULTURAL FIELD'S FERTILITY	Published

			(MIT) 5 . Dr. Sathish Rengararajan (St.J.C.E) 6 . Dr. R. Ashok Kumar 7 . MUHAMMED ABRAAR S.A(SJIT) 8 . G. Senthilnathan		
6		202241050754	1 . Dr. R.Jayaprakash (SAS, AV Campus) 2 . Dr.G.K.Ayyadurai (SSEC) 3 . Dr.I. Ameeth Basha (SAS, AV campus) 4 . Dr. Sathish Rengararajan, (SJCE) 5 . Muhammed Abraar S.A (SJIT) 6 . Mr. Rajat Kumar Dwibedi (AVIT) 7 . G. Senthilnathan (B.S.A.R.C.I.S.T) 8 . Hariharan Venkatasubramanian (MIT)	SYNTHESIS, CHARACTERIZATION, BIOLOGICAL, NLO AND CORROSION INHIBITION APPLICATIONS OF NOVEL SINGLE CRYSTAL 3-((2,4-DIOXOTHIAZOLIDIN-5-Y1)METHYL)-4-METHOXY-N-PHENYLBENZAMIDE	Published
7		202241050757	1 . Dr. G. K. AYYADURAI(SSEC) 2 . Dr. R. JAYAPRAKASH(SAS, AV CAMP) 3 . Dr. B. PREETHI(RAT.TEC.CAMP) 4 . Dr. I. AMEETH BASHA,(SAS, AV CAMP) 5 . Dr. VADDI SESHAGIRI RAO, (SJCE) 6 . Dr. SATHISH RENGARARAJAN,(SJCE) 7 . MUHAMMED ABRAAR S. A, (SJIT) 8 . HARIHARAN VENKATASUBRAMANIAN (MIT)	COIR PITH, WASTE STRAW, ACTIVATED CARBON OF DIPLOCYCLOS PALMATUS	Published
8		202241050755	1 . Dr. R. JAYAPRAKASH(SAS, AV CAMP) 2 . Dr. G.K. AYYADURAI, (SSEC) 3 . Dr. VADDI SESHAGIRI RAO, (SJCE) 4 . Dr. SATHISH	SYNTHESIS, CHARACTERIZATION, ANTICANCER, NLO, AND CORROSION INHIBITION APPLICATIONS OF NOVEL THIAZOL -4-CARBONVL-THIAZOLE-4-CARBOHYDRAZIDE	Published

			<p>RENGARARAJAN,(SJC E)</p> <p>5 . Mr. RAJAT KUMAR DWIBEDI, (AVIT)</p> <p>6 . Dr. R. ASHOK KUMAR</p> <p>7 . MUHAMMED ABRAAR S. A, (SJIT)</p> <p>8 . HARIHARAN VENKATASUBRAMANIAN (MIT)</p> <p>9 . Dr. B. PREETHI(RAT.TEC.CAMP)</p>	DERIVATIVES	
9		202241050750	<p>1 . DR. R. JAYAPRAKASH (SAS, AV CAMPUS)</p> <p>2 . G. SENTHILNATHAN (B.S.A.R.C.I.S.T)</p> <p>3 . DR. REVATHI PURUSHOTHAMAN (B.S.A.R.C.I.S.T)</p> <p>4 . DR. G.K.AYYADURAI (SRI SAIRAM.E.C)</p> <p>5 . DR.I.AMEETH BASHA (SAS, AV CAMPUS)</p> <p>6 . DR. B.PREETHI (R.TEC.CAMPUS)</p> <p>7 . DR. SATHISH RENGARARAJAN (ST.J.C.E)</p> <p>8 . MUHAMMED ABRAAR S.A, (SJIT)</p>	COIR PITH, WASTE STRAW, ACTIVATED CARBON OF DIPLOCYCLOS PALMATUS	Published