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St. JOSEPH'S INSTITUTE OF TECHNOLOGY

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2020-2021

PATENT

Patented Applied by Our Staff Members

| SI No | CBR No | Application Number | Name of the Faculty | Title | Status |
|-------|--------|--------------------|--|---|---|
| 1 | - | 202141024097 | Dr.K. Arun Vasantha Geethan | Artificial Intelligence Based Constructions of Mechanically Developed Machine Motion Prediction System to Reduce Worksite Hazards | Published on 11/06/2021 Patent Journal No 06/2021 Page No: 5309 |
| 2 | - | 202141003350 | Dr.D. Elil Raja | Hybrid Phase Change Material Embedded Over Glove For Better Comfort With AI Assistance | Published on 05/02/21 |
| 3 | 19438 | 334662-001 | Dr.M. Chrispin Das | Tube Squeezer | Case in Amended case of controller |
| 4 | - | 202141010405 | Mr. K. Gnanasekaran, Mr. K. Ramesh, Mr.S. Jagadeesh | Product Design and Analysis of Truck Chassis Frame | Published on 09/04/2021 |
| 5 | - | 202141011314 | Dr .D. Elil Raja, Mr.S. Prathap Singh, Mr.T. Praburam, Mr.J. Immanuel Durairaj, Mr.D. Arthur Jebastine Sunderraj | Power Generating Swing In Two Directional Using Oscillator Block | Published on 26/03/2021 |

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|---|---|--------------|--|---|----------------------------|
| 6 | - | 202041054494 | Mr.D. Sakthivel, Mr.R.Ranjith Kumar, Mr.A. Sathish Kumar, Mr.P. Krishna Kumar | A Modern Machine to Extract Water From Air Using Wind Energy | Published on 26/02/21 |
| 7 | - | 202141014875 | Dr .K. Arun Vasantha Geethan, Mr.S. A. Muhamed Abraar, N. Dr .N.Thagapandian | Thermo Structural Analysis of Two Wheeler Engine Casing For Better Performance | Published on 09/04/2021 |

FUND PROJECTS

| Sl. No. | Name of the Staff (s) | Date of apply | Title of the Project | Agencies | Scheme | Amount quoted | Duration of Project | Status |
|---------|---|---------------|--|------------|-------------------------|---------------|---------------------|----------|
| 1. | Dr. V.Savithiri | 27.1.2021 | Development of Metallic Bipolar plates for 50W PEM Fuel Cel | DST-SERB | SERB-POWER | 28,00,000 | 3 years | Rejected |
| 2. | Dr. V.Savithiri | 30.11.2020 | Development of portable manufacturing system for the production of biodegra... | DST | Waste management Scheme | 22,98,600 | 3 Years | Rejected |
| 3. | Dr.N.Thangapandian, Dr. D. Elil Raja | 28-11-2020 | Development of Low cost recycled rubber composites for automobile applications | DST | Waste management Scheme | 9,57,000 | 3 Years | Rejected |
| 4. | Dr. K. Arun Vasantha Geethan Mr. D. Arthur Jebastine Sunderraj | 23.11.2020 | Eradicate the Lead Content Electronic Waste by Lead Free Solders | DST | Waste management Scheme | 10,80,000 | 2 Years | Rejected |
| 6. | Dr.M.Chrispin Das Dr.K.Arun | 17.03.2021 | Mechanical an Wear Behaviour | DST - SERB | Core Research | 2840000 | 3 Years | Awaiting |

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|-----|---|------------|--|--|---------------------------------------|-------------|---------|----------|
| | Vasantha Geethan | | of Al-SiCp Hybrid Nanocomposites for High Strength Applications | | Grant | | | |
| 7. | Dr.D.Elil Raja Dr. N. Thangapandian | 12.03.2021 | Investigation of Mechanical and Tribological properties on solid free form fabricated Functionally graded materials | DST-SERB | Core Research Grant | 2119000 | 3 Years | Awaiting |
| 8. | Dr. N. Thangapandian, Dr. M. Chamundeeswari | 13.03.2021 | Effect of Severe plastic deformation on the Biocompatibility & Wettability of the SS 316 L and Ti6Al4V Alloy | DST-SERB | Core Research Grant | 1380000 | 3 Years | Awaiting |
| 9. | Dr. K. Arun Vasantha Geethan Mr. D. Arthur Jebastine Sunderraj | 18.03.2020 | Eco Friendly Unleaded Solder alloy for Electronic Packaging | TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY | SCIENCE AND TECHNOLOGY PROJECT SCHEME | Rs 4,52,000 | 2 Years | Awaiting |
| 10. | Mr. P. Krisshna Kumar, Mr. Kevin Gabriel. V Mr. Joel Joseph. J | 30.01.2021 | Motorized Automatic Walker (E-Walker) Using Adjustable Rollator | TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY | STUDENTS PROJECT SCHEME | 8700 | | Awaiting |
| 11. | Mr.P. Krishna Kumar, Mr. D. Nithishkumar Mr. J.R. Jerbin | 30.01.2021 | STUDY OF FRICTIONAL CHARACTERISTICS OF LASER TEXTURED SEAL SURFACE UNDER DRY LUBRICATING CONDITION USING PIN ON DISC | TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY | STUDENTS PROJECT SCHEME | 8000 | | Awaiting |

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|-----|---|------------|---|---|-----------------------------------|-------|--|----------|
| 12. | Mr.P. Krishna Kumar Mr. J. Praveen | 30.01.2021 | COVID – 19 SOCIAL DISTANCING DETECTOR USING COMPUTER VISION SYSTEM | TAMILN ADU STATE COUNCI L FOR SCIENCE AND TECHNO LOGY | STUDEN TS PROJECT SCHEME | 9000 | | Awaiting |
| 13. | Mr. R. Ranjith Kumar , Mr. G. Sabariesh, Mr. J. Raja Kumar | 30-01-2021 | NEURO SYNAPTIC DATA ACQUISITION AND STRAIGHT PATH MODELING FOR QUAD COPTER | TAMILN ADU STATE COUNCI L FOR SCIENCE AND TECHNO LOGY | STUDEN TS PROJECT SCHEME | 20000 | | REJECTED |
| 14. | Mr.N.Suresh, Mr.P.P.Nandha, Mr.S.Meigan | 30.01.2021 | MULTI FUNCTIONAL VIBRATORY FEED SEED SOWING MACHINE | TAMILN ADU STATE COUNCI L FOR SCIENCE AND TECHNO LOGY | STUDEN TS PROJECT SCHEME | 15000 | | Awaiting |

