

LIST OF R&D CENTRES

| SL.NO | DEPARTMENT | CODE | VALID UPTO |
|-------|---|---------|------------|
| 1 | Mechanical Engineering | 4383017 | Dec-25 |
| 2 | Electrical and Electronics Engineering | 4383008 | Dec-23 |
| 3 | Electronics and Communication Engineering | 4383007 | Jun-26 |

| Academic year 22-23 | | | | | | |
|---------------------|--|--|--|--------------|---|---|
| S.No. | Title | Researcher Name (Surname, Forename) | Guide Name (Surname, Forename) | Awarded Year | Name of Department | Subject |
| 1 | Performance enhancement of nanotechnology based photovoltaic systems and supercapacitors | Mrs. S. Amuthameena | Dr. K.Dhayalini | 2023 | Electrical and Electronics Engineering | Electrical Engineering |
| 2 | Experimental study of friction stir welding of dissimilar AZ318-AA8011 and AA7475 alloys | Mr.S.Dharmalingam | Dr. K.LENIN | 2023 | Mechanical Engineering | Mechanical Engineering |
| 3 | Experimental investigation on Laser welded MG matrix Hybrid metal matrix composite materials | Mr.R.Sivabalan | Dr. K.LENIN (Joint supervisor) | 2023 | Mechanical Engineering | Mechanical Engineering |
| 4 | Design and analysis of Multiplierless Decimation filter for Digital down converter in Multistandard wireless applications | Mrs A.Abinaya | Dr.M.Maheswari | 2023 | Electronics and Communication Engineering | Information and Communication Engineering |
| 5 | Characterization and experimental investigation of pack boronizing process of various stainless steel grades using ANOVA and Machine learning approaches | Mr. H.Ramakrishnan | Dr.K.LENIN (Joint supervisor) | 2023 | Mechanical Engineering | Mechanical Engineering |
| 6 | A study on metallurgical and mechanical characteristics of dissimilar friction stir welded aluminium alloys. | Mr. Y.Premraj | Dr.K.LENIN | 2023 | Mechanical Engineering | Mechanical Engineering |
| 7 | Experimental Studies on Microstructural and Mechanical Characteristics of Mg-5Sn-3Zn-1Mn alloy with varying Si additions | Mr.G.Sundararaju | Dr.C.Anand chairman (Joint supervisor) | 2023 | Mechanical Engineering | Mechanical Engineering |
| 8 | Experimental Investigation and Analysis of Bio seashell particulate reinforced Nylon 6 polymer composites | Mr. P.Vasanthakumar | Dr.K.LENIN | 2023 | Mechanical Engineering | Mechanical Engineering |
| 9 | Experimental Investigations on Silicon Carbide, Hydroxyapatite and Zinc Oxide Reinforced Magnesium Matrix Composites Developed by Powder Metallurgy | Mr. S.Jayasathyakawin | Ravichandran, M | 2023 | Mechanical Engineering | Mechanical Engineering |
| Academic year 21-22 | | | | | | |
| S.No. | Title | Researcher Name (Surname, Forename) | Guide Name (Surname, Forename) | Awarded Year | Name of Department | Subject |
| 1 | Web Site Enhancement Using Efficient Preprocessing Techniques With Web Usage Mining. (Bharathiar University) | Umarani, J | Manikandan, S | 2021 | Information Technology | Computer Science |
| 2 | Enhanced Mammogram Analysis to Detect Early Stage of Breast Cancer Using Equal Range Clustering Algorithm (Mother Teresa University) | Roseline, R | Manikandan, S | 2021 | Information Technology | Computer Science |

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|---|--|------------------|-----------------|------|--|------------------------|
| 3 | Effective Face and IRIS identity recognition methods for enhancing authentication (Periyar University) | Kadher Farook, R | Manikandan, S | 2021 | Information Technology | Computer Science |
| 4 | Efficient Reversible data hiding system using steganography based on encryption strategies (Periyar University) | Chitradevi, B | Manikandan, S | 2022 | Information Technology | Computer Science |
| 5 | Design Emphasis of Multilevel converter Topologies with performance analysis using tuned PWM controller for Hybrid power systems (Anna University) | RAM PRAKASH, P | Titus, Sigamani | 2021 | Electrical and Electronics Engineering | Electrical Engineering |

Academic year 20-21

| S.No. | Title | Researcher Name (Surname, Forename) | Guide Name (Surname, Forename) | Awarded Year | Name of Department | Subject |
|-------|---|-------------------------------------|--------------------------------|--------------|---|---|
| 1 | Smart Road Safety System using Data mining and Sensor Technology (Bharathiar University) | L. Thomas Robinson | Manikandan, S | 2020 | Information Technology | Computer Science |
| 2 | A BIO-PLAUSIBLE SPIKING NEURAL NETWORK-BASED APPROACH FOR IMAGE CLASSIFICATION PROBLEM | Mr. JOSHUA ARUL KUMAR R | Titus, S | 2020 | Electronics and Communication Engineering | Electronics and Communication Engineering |
| 3 | UNIFIED POWER CONTROLLER DESIGN TOPOLOGIES FOR HYBRID ELECTRIC VEHICLE USING NON-ISOLATED BIDIRECTIONAL CONVERTER | Ms. S. RAJALAKSHMI | Titus, S | 2021 | Electrical and Electronics Engineering | Electrical and Electronics Engineering |
| 4 | Experimental Investigations on Machining Behaviour of Waspaloy and Synthesis of Waspaloy Composites | Veerappan, G | Ravichandran, M | 2021 | Mechanical Engineering | Mechanical Engineering |

Academic year 19-20

| S.No. | Title | Researcher Name (Surname, Forename) | Guide Name (Surname, Forename) | Awarded Year | Name of Department | Subject |
|-------|--|-------------------------------------|--------------------------------|--------------|------------------------|------------------------|
| 1 | Experimental Investigations on Properties of Boron Carbide Reinforced AA8079 Matrix Composites Prepared by Powder Metallurgy Technique | Meignanamoorthy, M | Ravichandran, M | 2019 | Mechanical Engineering | Mechanical Engineering |
| 2 | Investigations on Properties and Machining Behaviour of Zirconium Diboride Reinforced Aluminium Matrix Composites | Dineshkumar, S | Ravichandran, M | 2019 | Mechanical Engineering | Mechanical Engineering |
| 3 | Experimental Investigations on Properties and Machinability of Titanium Dioxide Reinforced AA7075 Matrix Composites | Alagarsamy, S.V | Ravichandran, M | 2020 | Mechanical Engineering | Mechanical Engineering |
| 4 | Ergonomic considerations in the design of Human enabling systems | Mr.R.Sasikumar | Dr.K.Lenin | 2019 | Mechanical Engineering | Mechanical Engineering |

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|---|---|---------|----------|------|-----------------------------------|-----------------------------------|
| 5 | STORE PREFERENCE BEHAVIOUR OF CONSUMERS ON SUPERMARKETS WITH SPECIAL REFERENCE TO TIRUCHIRAPPALLI | S.NAJMA | Titus, S | 2018 | Master Of Business Administration | Master Of Business Administration |
|---|---|---------|----------|------|-----------------------------------|-----------------------------------|