

ONGOING R&D PROJECTS

| S. No | Funding Agency | Title of the Project | Faculty | Amount Rs. in Lakh | Year of sanction |
|--------------|-----------------------|--|--|---------------------------|-------------------------|
| 1. | AVON Corporation | Design and Development of a Humanoid | Dr B Vinod | 55 | 2011 |
| 2. | AICTE | Design & Development of Smart Microgrid using Renewable Energy Sources | Dr L Ashok Kumar Mr M Anand | 19.10 | 2013 |
| 3. | DST- SEED | Design and Development of Pneumatic Actuated Wearable Hand and Forearm Device for the Rehabilitation of Recovering Stroke Patients | Dr L Ashok Kumar Dr C Lakshmi Deepika | 2.0 | 2014 |
| 4. | DST- SERI | Solar Energy based Desiccant loop Air-Conditioning | Dr L Ashok Kumar Dr Madhu Ganesh | 55.0 | 2014 |
| 5. | DST-SYST | Development of Interactive Hydraulic Activated Device for Chronic Post Stroke Therapy | Dr L Ashok Kumar | 19.19 | 2015 |

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|----|---------|---|------------------------------------|------|------|
| 6. | UGC-MRP | Design & Development of Wireless Embedded Microcontorller Based Portable Nano Scale Toxic Gas Sensor System | Dr L Ashok Kumar Mr M Alagappan | 6.81 | 2015 |
|----|---------|---|------------------------------------|------|------|

RESEARCH PROJECTS COMPLETED

| S. No | Funding Agency | Title of the Project | Faculty | Amount Rs. in Lakh | Year of sanction |
|--------------|-----------------------|---|-----------------------|---------------------------|-------------------------|
| 1 | UGC | Solid State Power Control | Dr V Subbiah | 0.09 | 1978 |
| 2 | UGC | Linear Electrical Machines | Dr A Shanmugasundaram | 0.098 | 1979 |
| 3 | MHRD | Instrumentation Lab | Dr S Palanichamy | 2.00 | 1986 |
| 4 | MHRD | Strengthening Minimal Computer Facilities | Dr S Palanichamy | 6.00 | 1988 |
| 5 | MHRD | Modernisation of Electrical and Electronics Lab | Dr S Palanichamy | 15.00 | 1989 |

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|---|------|---|------------------|------|------|
| 6 | MHRD | Microprocessor Based System Design Lab | Dr S Palanichamy | 6.00 | 1989 |
| 7 | MHRD | Development of Electronics Design & Development Cell (Institutional Network Scheme) | Dr S Palanichamy | 2.50 | 1991 |
| 8 | MHRD | Design and Development cell for Electronics & Electrical products | Dr S Palanichamy | 7.00 | 1992 |

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|--------------|-----------------------|---|------------------|---------------------------|-------------------------|
| 9 | MHRD | Design and Development cell for Electronics & Electrical Products | Dr S Palanichamy | 10.00 | 1992 |
| 10 | MHRD | Modernisation of Microprocessors and Microcontrollers Lab | Dr S Palanichamy | 10.00 | 1993 |
| 11 | AICTE | Modernisation of Power Electronics & Electric Drives Lab | Dr V Subbiah | 8.00 | 1995 |
| 12 | AICTE | Development of a Service Centre for Educational Technology | Dr V Subbiah | 5.00 | 1995 |

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|----|-------|---|---|-------|------|
| 13 | UGC | Investigation on the Performance AC Voltage Controllers with a General Load | Dr V Subbiah | 4.70 | 1995 |
| 14 | AICTE | Magnetic Technology Centre | Dr G Gurusamy | 7.00 | 1997 |
| 15 | AICTE | Design and Development of Energy Efficient Permanent Magnet Induction – Synchronous Motor | Dr K Murugesh Kumar | 7.75 | 2000 |
| 16 | DST | Control of Axis run away in CNC Machines during Unprecedented Power Failures | Mr B Vinod Dr Jovitha Jerome | 16.2 | 2003 |
| 17 | DRDE | Design and Development of Potentiostat | Dr K Murugesh Kumar Mr P VijayaKumar | 2.88 | 2004 |
| 18 | DRDO | Wearable Electronics Clothing For Defence Personnel | Dr L Ashok Kumar | 5.0 | 2004 |
| 19 | DRDO | Environment Detection Assessment and Response System | Mr S Suresh Kumar Mr J Kanakaraj | 13.73 | 2005 |

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|----|------|--|---|-------|------|
| 20 | NIOT | Design, Fabrication and Testing of A 250 kW, 3000 V, 3 - Phase under Water Motor | Dr B Vinod Dr J Kanakaraj Mr M Sundaram | 76.00 | 2006 |
| 21 | DRDO | Design and Development of Flexible Solar Tents for Defence Applications | Dr K Murugesh Kumar Dr L Ashok Kumar | 12.82 | 2006 |
| 22 | DRDO | Design and Development of Teleintimation Garment For Defence Personnel | Dr L Ashok Kumar | 14 | 2006 |

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|----|--------|--|--|------|------|
| 24 | L-RAMP | Drugged Drive Prohibitive System | Dr L Ashok Kumar | 0.25 | 2007 |
| 25 | DSIR | Design & Development of Dynamic Stretch Comfort Measurement Device for Sport & Healthcare Applications | Dr L Ashok Kumar Dr.M.Senthil Kumar | 1.0 | 2009 |
| 26 | L-RAMP | Development of Coconut Scrapper | Dr L Ashok Kumar | 0.2 | 2009 |

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|----|--------|---|---|-------|------|
| 27 | CSIR | Design & development of retrofittable electronic control unit (ECU) for automobile starting system. | Dr R Rudramoorthy Dr L Ashok Kumar Mr V M Murugesan | 7.88 | 2010 |
| 28 | DST | Development of Locator and Communicative device for Dementia Patients | Dr L Ashok Kumar Dr P Rani | 19.37 | 2013 |
| 29 | L-RAMP | Solar Based Level Trainer for Vertical Milk Tank | Dr L Ashok Kumar | 0.25 | 2011 |

TNSCST SPONSORED PROJECTS COMPLETED

| S. No | Funding Agency | Title of the Project | Faculty Guide | Amount in Rs. | Year of sanction |
|--------------|-----------------------|--|----------------------|----------------------|-------------------------|
| 1 | TNSCST | Development of a Medical Expert System for Respiratory Problems : Diagnosis | Dr V Subbiah | 5 000 | 1997 |
| 2 | TNSCST | ASIC Based Induction Motor Drive with Energy Conservation | Dr S N Sivanandam | 6 000 | 1997 |
| 3 | TNSCST | Design, Development and Fabrication of Optimal Energy Efficient Motor using Genetic Algorithms | Dr G Gurusamy | 5 000 | 1997 |
| 4 | TNSCST | Neuro-Fuzzy Based Control Systems for Industrial Application | Dr S N Sivanandam | 1 30 000 | 1998 |
| 5 | TNSCST | Component Identification using Neural Network for Robotic Applications | Dr S N Sivanandam | 6 000 | 1998 |
| 6 | TNSCST | Automatic Testing of Induction Motor | Dr K Murugesh Kumar | 7 000 | 1998 |
| 7 | TNSCST | Design and Development of Solar Power Aided UPS | Dr K Murugesh Kumar | 5 500 | 1998 |

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|--------------|-----------------------|--|----------------------|----------------------|-------------------------|
| 8 | TNSCST | Network Based Application using Java Embedded Controller | Mr K Joseph Mathew | 7 500 | 1998 |
| 9 | TNSCST | Design and Realization of an Active Power Filter to improve Power Quality | Dr V Subbiah | 5 000 | 1999 |
| 10 | TNSCST | Networking of Electronic Energy Meters for Improving Power Quality | Mr S Suresh Kumar | 6 000 | 1999 |
| 11 | TNSCST | Design and Simulation of a Low EMI, Harmonics Free Unity Power Factor UPS to Enrich Power Quality | Mr S Suresh Kumar | 5 000 | 2001 |
| 12 | TNSCST | Implementation of Real Time Knowledge based Speech Recognition System with Neural Network as a tool for Data mining | Dr S Sumathi | 5 000 | 2001 |
| 13 | TNSCST | Design of Asymmetric Digital Subscriber Line (ADSL) MODEM | Dr R Neelaveni | 4 000 | 2002 |
| 14 | TNSCST | Development of an Efficient Integrated Residential Utility Interface for Modular PV System with Improved Power Quality | Mr S Suresh Kumar | 4 000 | 2003 |
| 15 | TNSCST | Real time respiratory system diagnosis using lung sound – flow relationship | Mr. P. Vijayakumar | 5 000 | 2006 |

