

FACULTY ACHIEVEMENTS

Academic Year 2016-17:

- **Dr.K.Elango** published a paper on ‘Power Generation with QUASI-Z-Source Inverter Using ANFIS Based MPPT’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN: 2321-9653.
- **Dr.K.Elango** published a paper on the ‘Loss Reduction Using the Smart Power Flow Controller by Tap-Changing Algorithm Of Sen Transformer’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN:2321-9653.
- **Dr.G.Udhayakumar** published a paper on the ‘Power Management using modified solid state transformer for AC distribution system’ in the International Journal for Kings College Of Engineering Thanjavur, Vol 4, Issue 3, February 2016, ISSN: 2321-9653.
- **Dr.G.Udhayakumar** published a paper on ‘An integrated three layer hierarchical control and protection of photovoltaic generators in microgrid’ in the International Journal for Kings College of Engineering Thanjavur, Vol 4, Issue 3, February 2016, ISSN:2321-9653.
- **Dr.R.Arivalahan** published a paper on ‘Improving the Power Quality based on VSC-DSTATCOM with back propagation algorithm through Neural Network’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 2, February 2016, ISSN:2321-9653.
- **Dr.R.Arivalahan** published a paper on ‘Modified PSO Based SAPF Control Strategy for Harmonic Elimination and Power Factor Correction in Distribution System’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 2, February 2016, ISSN: 2321-9653.
- **Dr.R.Karthik** presented a paper ‘Influence of ageing on dielectric characteristics of silicon di oxide, tin oxide and Ferro nanofluids based mineral oil’ at the IEEE Conference on the Advances in Electrical, Electronics, information, communication and bio informatics, Chennai, India, Feb, 2016.
- **Dr. Karthik.R** published a paper on the ‘Impact of VSC-HVDC in Frequency Regulation of Offshore Wind Farms’ in the International Journal for Research in Applied

Science and Engineering Technology (IJRASET), Volume 4, Issue III, March 2016, ISSN:2321-9653.

- **Dr. Karthik.R** published a paper on the ‘Rotor Angle Stability Improvement of DFIG Using Grid Side and Rotor Side Converter Control’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN:2321-9653.
- **Mr.S.RajanBabu**, PG scholar published a paper on the ‘Harmonic Distortion Elimination for STATCOM Application Using SHE-PWM Cascaded Multilevel Inverter’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN: 2321-9653.
- **Mr.S.Padhmanabhaiyappan** published a paper on the ‘Torque Control of BLDC Motor fed by Z-Source B4 Inverter Using Fuzzy Logic Controller’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN: 2321-9653.
- **Mr.V.Sudhagar** published a paper on the ‘Economic Dispatch in Steam Power Plant Using Honeybee Mating Optimization’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, March 2016, ISSN:2321-9653.
- **Mrs.A.Anuradha** published a paper on ‘A Systematic Approach For Storage Free Smart Energy Management With Frequency Control in Hybrid AC Micro Grid System’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, February 2016, ISSN:2321-9653.
- **Mrs.Pratheebha** published a paper on ‘A Novel Control Technique of Solar Farm Inverter as PV-UPFC for the Enhancement of Transient Stability in Power Grid’ in the International Journal for Kings College of Engineering, Thanjavur, Vol 4, Issue 3, February 2016, ISSN: 2321-9653.
- **Ms.Bency.P** published a paper on ‘Incorporating Bidirectional Synchronous-VSC To Enable DC-Link Voltage Regulation with SFCL and Bypassing Circuit’ in the International Journal for Research in Applied Science and Engineering Technology (IJRASET), Vol 4, Issue 3, February 2016, ISSN:2321-9653.

- **Dr.R.Karthik** delivered an expert lecture on the topic ‘High Voltage Testing of Power Apparatus’ on 7th June 2016 in FDP conducted in St.Josephs Institute of Technology, Chennai approved by Anna University.
- **Dr.R.Karthik** published a paper on ‘Implementing Fault ride through support for a offshore wind farm fed VSC-HVDC system’ in the International Journal for Scientific Research and Development, Vol 4, Issue 3,May 2016.
- **Dr.R.Karthik** published a paper on ‘Reactive Power compensation of Doubly Fed Induction Generator using STATCOM in grid side’ in the International Journal for Scientific Research and Development, Vol 4, Issue 3,May 2016.
- **Mr.S.Padhmaabha Iyappan** published a paper on ‘A Novel Approach on Power Quality Enhancement Using SAPF- IUPQC Matrix Converter for BLDC Motor’ on May 2016.

Academic Year 2017-18:

- **Dr. K. Elango** published a paper on the ‘Improvement of power quality of power system using contingency analyses’, International Journal of Engineering & Technology, Vo. 7, No. 2.21, pp. 237-241, April 2018.
- **Dr. R. Karthik** published a paper on the ‘Investigation on Performance of Power System Stabilizer Using Genetic Algorithm’, International Journal of Trend in Research and Development, Vol. 5, No. 2, pp.591-595, April 2018.
- **Dr. K. Elango** published a paper on the ‘Implementation of DC-DC Converter for Cart using MPPT and Enhancement of the efficiency of PV system by Partial Shading’, International Journal for Research & Development in Technology, Vol.9, No.3, pp.435-439, Mar-18.
- **Dr. K. Elango** published a paper on the ‘Automatic Vehicle Recognition System in Parking Area Using Image Processing’, International Journal for Research & Development in Technology, Vol.9, No.3 , pp.244-246, Mar-18.
- **Dr.G.Udhayakumar** published a paper on the ‘Load Cell based Fuel Level Measurement using Arduino Uno Microcontroller’, International Journal for Research & Development in Technology, Vol.3, No.3, pp.159-164, Mar-18.

- **Dr.G.Udhayakumar** published a paper on the ‘Electronic Voting Machine with Facial Recognition and Fingerprint Sensors’, International Journal for Research & Development in Technology, Vol.3, No.3, pp.165-170, March-2018.
- **Dr. Arivalahan. R** published a paper on the ‘Theft Detection using Internet of Things in the Automated Toll Plaza’, International Journal for Research & Development in Technology, Vol. 3, No. 3, pp. 143-149, March-2018.
- **Dr.R.Arivalahan** published a paper on the ‘Microcontroller based footpower generation system’, International Jjournal for Research & Development in Technology, Vol. 9, No.3, pp.315-318, March-2018.
- **Dr. R. Karthik**, published a paper on ‘Women Safety Security using Drones (UAV)’, IJSRD - International Journal for Scientific Research & Development, Vol. 6, No.01, pp.978-980, March-2018.
- **Dr. R. Karthik** published a paper on the ‘Design of Intelligent Stick - Guide for the Blind’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1194-1197, March-2018.
- **Dr.S.Malathi** published a paper on the ‘Design of Interleaved DC-DC Boost Converter FED Current Source Inverter for Piezo Electric Power Generation’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1045-1048, March-2018.
- **Dr. S.Malathi** published a paper on the ‘Implementation of Intelligent Adaptive Control for Traffic Signal System’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1550-1553, March-2018.
- **Mr. Madhusudanan G** published a paper on the ‘Separation of Municipal Solid Wastes using Multi-Integrated System’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1572-1575, March-2018.
- **Mr. Madhusudhanan. G** published a paper on the ‘Smart Battery System Applied to a Hybrid Electric Vehicle’, International Journal for Research & Development in Technology, Vol.3, No.3, pp.171-177.
- **Mr. S. Rajanbabu** published a paper on the ‘Operation and Control of Human Sensible Loads’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1138-1140, March-2018.

- **Mr. S. Rajan Babu** published a paper on the ‘Electric Shock Prevention on Power Line using RF Communication’, in IEEE International Conference, March-2018.
- **Mr. S. Padhmanabhaiyappan** published a paper on the ‘Automatic Solar Irrigation System’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.766-769, March-2018.
- **Mr. Sudhagar V** published a paper on the ‘Fuzzy Logic Controlled Speed Control of DC Motor in Hybrid Car Application’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.1064-1067, March-2018.
- **Mr. T. Santhosh Kumar** published a paper on the ‘Real-Time Water Quality Monitoring System’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1839-1842, March-2018.
- **Mr. S. Padhmanabha Iyappan** published a paper on the ‘IoT Based Solar Irrigation System’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.720-723, March-2018.
- **Ms. Pratheebha. J** published a paper on the ‘Voice Gesture Smart Chair for Physically Challenged’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.967-969, March-2018.
- **Mr. S. Balaji** published a paper on the ‘Piezoelectric Energy Harvester using Voltage Doubling Rectifier’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.1, pp.1509-1511, March-2018.
- **Ms. Bency. P** published a paper on the ‘Enhancement of Power Efficiency of Grid Connected PV System by Characterizing Shading Losses using Fuzzy’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1301-1304, March-2018.
- **Ms. V. Kalaiarasi** published a paper on the ‘Implementation of Piezo Electric Sensor for the Generation of Electric Power’, International Journal for Research & Development in Technology, Vol.6, No.01, pp.24-28, March-2018.
- **Ms. R. V. Preetha** published a paper on the ‘Quasi Single-Stage Buck-Boost Inverter with PID Controller’, IJSRD - International Journal for Scientific Research & Development, Vol.6, No.01, pp.1000-1003, March-2018.

- **Mr. Tamilarasan.P** published a paper on the ‘Design of Voltage Regulator Circuit for Proposed Foot Power Generation’, International Journal for Research & Development in Technology, Vol.09, No.03, pp.277-280, March-2018.
- **Ms. Dhivya. P** published a paper on the ‘Stolen Vehicle Detection using RFID in Automated Toll Plaza’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.774-777, March-2018.
- **Ms. Durgadevi. K** published a paper on the ‘Implementation of Grid Connected PV System using LUO-FUZZY with Maximum Power Point Tracking’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.1335-1338, March-2018.
- **Ms. G. Shanthi** published a paper on the ‘Hub Wheel Motor Enhanced Hybrid Electric Bike’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.1275-1278, March-2018.
- **Mr. S. Venkatesh** published a paper on the ‘Electronic Defense Weapon for Women Safety’, IJSRD - International Journal for Scientific Research & Development, Vol.06, No.01, pp.1033-1037, March-2018.
- **Mr. Ragul Kumar.K** published a paper on the ‘Design and implementation of self-charging Regenerative Braking system using super capacitor In Hybrid Vehicle Application’, International Journal for Research & Development in Technology, Vol.09, No.03, pp.273-276, March-2018.
- **Ms. R. Elavarasi** published a paper on the ‘Implementation of Grid Tied Inverter in Solar Panel’, International Research Journal of Engineering and Technology (IRJET), Vol.05, No.03, pp.1814-1817, March-2018.
- **Mr. Kamalakannan. M** published a paper on the ‘Energy Harnessing from Sound Vibrations’, International Journal for Research & Development in Technology, Vol.09, No.03, pp.289-293, March-2018.

Academic Year 2018-19:

- **Dr. K.Elango** published a paper on the ‘Design and implementation of Eco-vehicle using solar’, International Journal of Engineering Research & Technology, Vol. 8, No. 3, pp. 20-23, March-2019.

- **Dr. K.Elango** published a paper on the ‘Design and Implementation of Converters Using MPPT in an Eco Vehicle’, International Journal of Engineering Research &Technology, Vol. 6, No. 297, pp. 1576 – 1580, 2019.
- **Dr.G. Udhaya Kumar** published a paper on the ‘Floating Oscillator based Electric Generator using Mechanical Energy Harvesting’, e-ISSN: 2395-0056 p-ISSN: 2395-0072 International Research Journal of Engineering and Technology (IRJET), Volume: 6, Issue 3, Pages 1168-1172, March 2019.
- **Dr. G. Udhayakumar** published a paper on the ‘Solar Energy Powered Mobile Charging Station using Bismuth Telluride based Thermoelectric Generator’, e-ISSN: 2395-0056 p-ISSN: 23950072 International Research Journal of Engineering and Technology (IRJET) Volume 6, Issue 03, March 2019.
- **Dr.R.Arivalahan** published a paper on the ‘Online Monitoring of Air Pollution using IoT’, International Research Journal of Engineering and Technology (IRJET), Vol 6, Issue-3, pp. no.793-797, March 2019.
- **Dr. R. Arivalahan** published a paper on the ‘Interleaved DC-DC Boost Converter with High Voltage Gain and Efficiency for Solar Energy Systems’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Volume 06 - Issue 03 -Mar 2019, pp. 1224-1228.
- **Dr.R.Karthik** published a paper on the ‘Enhancing Agricultural Activities using Drone’, International Journal of Research in Engineering, Science and Management, Vol 2, Issue-3, March-2019.
- **Dr.R.Karthik** published a paper on the ‘Design and Implementation of Acceleration and Speed control unit for Eco Vehicle (Solar)’, International Research Journal of Engineering and Technology (IRJET), Volume 6, Issue 3, March 2019.
- **Dr.S.Malathi** published a paper on the ‘Enhancement in the Modelling of Braking System with Regenerative Method using Ultracapacitors for an Eco Vehicle’ , International Research Journal of Engineering and Technology (IRJET), Vol 06 , Issue 03 -Mar 2019.
- **Dr.S.Malathi** published a paper on the ‘Implementation of Modified Transformer-less Full Bridge Voltage Source Inverter for Domestic Applications’, International Journal of

Advanced Research in Electrical, Electronics and Instrumentation Engineering , Vol 08 - Issue 02 - Mar 2019.

- **Mr.G.Madhusudanan** published a paper on the ‘Analysis of IoT based Wireless Sensors for Environmental Monitoring in Agriculture’, International Research Journal of Engineering and Technology (IRJET), Vol 6, Issue 3, March 2019, Page No. 610 – 614.
- **Mr.G. Madhusudanan** published a paper on the ‘Adaptive Headlight System for Vehicles using Arduino’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 Issue 3 - March 2019.
- **Mr.S. Rajan Babu** published a paper on the ‘Electronic Trolley using Arduino for Smart Shopping’, International Research Journal of Engineering and Technology (IRJET), Vol. 3, Issue 6, March 2019.
- **Mr.S. Rajan Babu** published a paper on the ‘Intelligent energy saving and voice control system’, International Research Journal of Engineering and Technology (IRJET), Vol 06, Issue 03, Pages 1206-1209, March 2019.
- **Mr.S. Padhmanabha Iyappan** published a paper on the ‘Raspberry Pi based Smart Reader for Visually Impaired People’, International Journal of Research in Engineering, Science and Management (IJRESM), Vol 2, Issue 2, February-2019, PageNo.204-207.
- **Mr. S. Padhmanabha Iyappan** published a paper on the ‘Design and Development of Interleaved Boost Converter using Fuzzy Logic Controller’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol6, Issue 3, March 2019.
- **Mr.V. Sudhagar** published a paper on the ‘Design of DC–DC Converter and Controller for Smart DC Grid and Battery Storage using Arduino’, International Research Journal of Engineering and Technology (IRJET), Vol 6, Issue 3, March 2019, S.NO:228
- **Mr.T. Santhosh Kumar** published a paper on the ‘GSM Based Agricultural Monitoring System Using Drone’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3, March 2019 .
- **Ms. A.Anuradha** published a paper on the ‘IoT Based Garbage Management System for Smart City using ARM cortex-A53 processor’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.

- **Mr.S.Balaji** published a paper on the ‘GSM Based Transformer Fault Monitoring System’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.
- **Ms.P.Bency** published a paper on the ‘IOT based Monitoring and Controlling of Smart Speaking Energy meter and Current Theft Detection Using Raspberry pi 3’, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019, Page No. 1975 – 1978.
- **Ms. R. V. Preetha** published a paper on the ‘Search and Rescue by using Camera Rescue Robot’, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019, Page no 1956-1959.
- **Mr.P.Tamilarasan** published a paper on the ‘Design of Full Bridge Three Level LLC Resonant Converter for Wireless Battery Charging with Pulse Width Modulation’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.
- **Ms.K.Durgadevi** published a paper on the ‘Design and Implementation of Single Switch SEPIC Converter for supplying LED Driver and the Automation System’, e-ISSN: 2395-0056, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.
- **Ms.G.Shanthi** published a paper on the ‘Speed Control of Electric motor using Ultrasonic sensor and Image Processing Technique with Raspberry Pi 3’, International Research Journal of Engineering and Technology, Vol 6 , Issue 3 , January 2019, Page No. 1696 – 1701.
- **Mr.S.Venkatesh** published a paper on the ‘IOT Based Solar Power Monitoring System’, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019 ,Page No 1956 - 1959 .
- **Mr.R.Raghul Kumar** published a paper on the ‘Design and Implementation of Solar Bicycle’, International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.
- **Ms.R. Elavarasi** published a paper on the ‘Improved Power Quality Switched Inductor CUK Converter for Battery Charging Application’, e-ISSN: 2395-0056 , International Research Journal of Engineering and Technology (IRJET), Vol 6 , Issue 3 , March 2019.

- **Mr.M.Kamalakaran** published a paper on the ‘Pothole and Hump Detection using LIDAR Sensor’, International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, Vol 6, Issue 3, March 2019.

Academic Year 2019-20:

- **Dr. K. Elango** became senior member of IEEE Professional Society.
- **Mr. S. Padhmanabha Iyappan**, participated in the Faculty Orientation Session on Study Abroad Opportunities in RMK College of Engineering on 26th August 2019.
- **Dr. K. Elango** published a paper on the ‘Improvement of Transient Stability in HVAC Transmission Line with FACTS Controller’, Journal of Adv Research in Dynamics and Control Systems, Vo. 11, 06-Special Issue, 2019.
- In the International Conference on ‘Smart Automation in Computer, Electrical, Electronics and Communication Engineering’ conducted on September 6-7, the following faculties published papers.
 1. **Dr.S.Malathi and Ms.R.V.Preetha** on ‘A Novel PV Energy Harvesting Using Transformerless PV module by SEPIC Converter’.
 2. **Dr.R.Arivalahan, Mr.S.Balaji and Mr.P.Tamilarasan** on ‘Investigation of Genetic Algorithm tuned PI Controller for the Non-Linear Conical Tank Level Process’.
 3. **Mr.S.Padhmanabhaiyappan, Dr.R.Karthik** and Mr.P. Jagannathan on the ‘Fuzzy Logic Controller based Dc-Dc Interleaved Boost Converter for a Standalone PV System’.
 4. Ms.P.Yamuna, **Dr.R.Karthik and Dr.K.Elango** on ‘Hysteretic Controlled Smart Grid System with Enhanced Response’.
 5. **Ms.K.Durgadevi, Dr.R.Karthik** and Mr.N.Sujith on ‘Analysis of Grid Connected PV system using Luo Converter with MPPT for fast dynamic response using Artificial Bee Colony Algorithm’.
 6. **Mr.R.Rajesh, Dr.R.Karthik** and Dr.K.Elango on ‘Grid Connected Hybrid based Multi-Input Transformer Coupled Bidirectional DC-DC Converter’.
- **Dr. K.Elango** published a paper on ‘PRS Nano Uav System’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.

- **Dr. K.Elango** published a paper on ‘Development of Charge Controller for Small Scale Wind Energy Conversion Systems’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Dr. K.Elango and Mr.S. Rajanbabu** published a paper on ‘Optimum Location and Sizing of DG with Network Reconfiguration in Distribution System’, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, No. 6, April 2020, pp. 195-200, ISSN: 2278–3075 (Online).
- **Dr. G. Udhayakumar** published a paper on ‘Smart Health Band with Alert System’, International Research Journal of Engineering and Technology, Vol.7, Issue.4, April 2020.
- **Dr.Udhayakumar.G** published a paper on ‘Embedded System Based Emergency Evacuation System’, International Journal of Innovative Technology and Exploring Engineering, Vol 9, Issue.6. April 2020.
- **Dr. R. Karthik** published a paper on ‘Phantom Bat for Military Applications’, International Journal of Innovative Technology and Exploring Engineering, Vol 9, Issue.6. April 2020.
- **Dr. R.Karthik** published a paper on ‘Performance Analysis and Monitoring of Horizontal Axis Wind Turbine using Solid Works’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Dr. R. Arivalahan** published a paper on ‘Implementation of Low Harmonics Multilevel Inverter using SPWM’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Dr. R. Arivalahan** published a paper on ‘Load Monitoring System for Diesel Generator using Internet of Things (IOT)’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Mr. G.Madhusudanan** published a paper on ‘Sign Language Recognition System’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Mr. G.Madhusudanan** published a paper on ‘SMS Based Accident Alert with GPS Coordinates’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.

- **Dr. S.Malathi and Dr.K.Elango** published a paper on ‘Implementation of dead beat controller using Particle Swarm Optimization for software defined network’, Computer Communications, Elsevier, Science Direct, Vol.155, pp.235-243,1April2020.
- **Dr.S.Malathi** published a paper on ‘Utilization of Wind Energy Using Novel Power Electronics Converter for Stand-Alone System’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Mr. Rajanbabu.S** published a paper on ‘Design of Dual Bridge Rectifier for PMSG Variable Speed Wind Energy Conversion System’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Mr.S.Rajan Babu** published a paper on ‘Designing of 1 Phase 5KVA Servo Stabilizer with Isolation Transformer’, International Research Journal of Engineering and Technology (IRJET) Volume: 07 Issue: 04 , Apr 2020.
- **Mr. S.Padmanabha Iyappan** published a paper on ‘Design of High Gain DC-DC Step Up Converter’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Mr. S.Padmanabha Iyappan** published a paper on the ‘Smart Library System Management using RFID’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Mr. Santhosh Kumar.T** published a paper on ‘RFID Based Smart Electricity Bill Payment and Energy Sharing System through IoT’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Mr. Balaji.S** published a paper on ‘Smart Gurney System with Remote Knowledge Communication through Cloud’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Ms. R.V.Preetha** published a paper on ‘Multinomial attendance management system’, International Journal of Advance Research and Innovative Ideas in Education, Vol 6.Issue.2, 2020.
- **Mr. K.Ragul Kumar** published a paper on ‘Maximum Power Point Tracking using Perturb and Observe Method’, IJARIE, Vol 6.Issue.2, 2020.

- **Ms. K.Durgadevi** published a paper on ‘Real Time Fuel Monitoring System for Diesel Generator using Internet of Things (IoT)’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Mr. P. Tamilarasan** published a paper on ‘PRS Nano Uav System’, International Research Journal of Engineering and Technology, Vol.7, Issue.3, March 2020.
- **Ms. G.Shanthi** published a paper on ‘Automatic Library Door Opening System Using RFID’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Ms. R. Elavarasi** published a paper on ‘ MARS Rover by Solar Energy’, International Journal of Advance Research and Innovative Ideas in Education, Vol 6.Issue.1, 2020
- **Mr. M. Kamalakannan** published a paper on ‘ICT Enabled Smart Display for Unmanned Railway Level Crossing Application’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Mr. S.Venkatesh** published a paper on ‘Multi Parameter Monitoring in Solar Panel with IOT’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Ms. A.Dhivya** published a paper on ‘Design, Implementation and Analysis of Cascaded H-bridge Multilevel Inverter for Wind Energy Conversion System’, International Journal of Scientific Research and Engineering Development, Vol.3, Issue.2, Mar-Apr 2020.
- **Dr.S.Malathi** and **Ms.R.V.Preetha** published a paper on ‘Microcontroller based Interleaved DC-DC Boost Converter Fed Current Source Inverter for Foot-Step Power Generation’, National Conference on Computational Intelligence in Electrical and Electronics Engineering organized by Department of Electrical and Electronics Engineering, Sathyabama Institute of Science and Technology during 18th to 19th May 2020.

Academic Year 2020-21:

- **Dr. K.Elango** published a paper on ‘Dynamic Wireless Power Transfer for Electric Vehicle Charging Application’, International Journal of Solid State Technology, Vol. 63, No. 3, (2020), Anna University Annexure Journal.

- **Dr. K.Elango** published a paper on ‘Power Generation from Air Conditioner (AC) Exhaust Fan’, International Journal of Solid State Technology, Vol. 63, No. 3,(2020), Anna University Annexure Journal.
- **Dr. K.Elango** published a paper on ‘Modelling of an Efficient Electrical Power Generation System through Slow Moving Water’, International Journal of Solid State Technology, Vol. 63, No. 3,(2020), Anna University Annexure Journal.
- **Dr. K.Elango** published a paper on ‘Parking Management System using Semi-active RFID Integrated with QR Code’, International Journal of Solid State Technology, Vol. 63, No. 3,(2020), Anna University Annexure Journal.
- **Dr. K.Elango** published a paper on ‘Comparative Analysis of Solar PV Array Reconfiguring Techniques under Partial Shading Condition’, International Journal of Solid State Technology, Vol. 63, No. 3,(2020),Anna University Annexure Journal.
- **Dr. K.Elango** published a paper on ‘Internet of Things (IoT) Based Automated Teller Machine Security System", Solid State Technology, Vol. 63, No. 3, pp. 816 - 825, 03-10-2020, Anna University Annexure Journal.
- **Dr. R. Arivalahan, Mr.S.Balaji and Mr.M. Kamalakannan** published a paper on ‘Development of ARDUINO based Microcontroller through Internet of Things (IOT) for the Measurement and Monitoring of Process Environmental Parameters’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 2, February 2021, pp. 50-61, Scopus Indexed.
- **Dr.K.Elango** published a paper on ‘Energy management of microgrid using Distributed Generators’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.K.Elango** published a paper on ‘Voice Controlled Car using Android, Arduino and Bluetooth’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021..
- **Dr.R.Arivalahan** published a paper on ‘Design of Solar and Wind Hybrid Power Systems for Mobile Charging and Lighting System’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021..

- **Dr.R.Arivalahan** published a paper on ‘Design and Implementation of photogrammetry based Single Extrusion -Fused Fabrication 3D Printer’, International Journal of Mathematics, Engineering and Management Sciences (IJMEMS).
- **Dr.R.Karthik** published a paper on ‘Power Quality Improvement using Dynamic Voltage Restorer for various faults’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.R.Karthik** published a paper on ‘Automatic car parking system’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.S.Malathi** published a paper on ‘Food preservation and maintenance using novel Electric Field Technique’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.S.Malathi** published a paper on ‘Modelling of Lithium Ion Battery Management and Monitoring System enhancing E-vehicle performance’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.G.Madhusudan** published a paper on ‘Origami Based Folding Techniques For Solar Panel Applications’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Dr.G.Madhusudan** published a paper on ‘Microplastic removal from water bodies using Triboelectric effect’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Rajanbabu** published a paper on ‘Design of Mixed Reality (MR) Based Real Time Vision System For COVID Tracking and Control’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Rajanbabu** published a paper on ‘Performance analysis of Solid state Transformer’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Ms.S.Vanila** published a paper on ‘Energy Theft Detection Issues For Advanced Metering Infrastructure using IOT in smart Grid’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.

- **Ms.S.Vanila** published a paper on ‘IOT based intelligent helmet for miners’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Padhmanabha Iyappan** published a paper on ‘Automated Social Distancing Gate With Non-Contact Body Temperature Monitoring’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Padhmanabha Iyappan** published a paper on ‘Solar Indoor Air Purifier with Air Quality Monitor system’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.V.Sudhagar** published a paper on ‘Voltage Stabilization of Solar Powered DC Microgrid’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.V.Sudhagar** published a paper on ‘Solar based automatic irrigation technology’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.T.Santhoshkumar** published a paper on ‘Solar PV powered BLDC motor drive for water pumping’, International Journal of Electrical Engineering and Technology (IJEET) Vol12, Issue 3, March 2021.
- **Mr.T.Santhoshkumar** published a paper on ‘Micro-controller Based Sanitary Automation for Differently abled’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Balaji** published a paper on ‘End of train telemetry and Vehicle Integrity Monitoring System’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Balaji** published a paper on ‘Exam Hall Authentication Using Finger Print’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Balaji** has successfully completed 30days Internship on Matlab Simulink’at Pantech Prolabs India Pvt ltd in association with Andhra Pradesh State Development Corporation (APSSDC) from Jan 25 to Feb 25, 2021.

- **Ms.R.V.Preetha** published a paper on ‘Design,simulation and performance assessment of hybrid (wind -solar) energy system with embedded controller using ABC algorithm’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.S.Venkatesh** published a paper on ‘Design of Electric Bicycle with Flywheel and BLDC Motor Using Solar Energy System’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Ms.R.Elavarsi** published a paper on ‘IoT Based Air Quality Monitoring System and poisonous Gas Detection System’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Mr.M.Kamalakaran** published a paper on ‘Intelligent Mobile Phone Detector Cum Jammer’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.
- **Ms.A,Divya** published a paper on ‘Puncture and pressure detection in heavy vehicles using image processing and micro controller’, International Journal of Electrical Engineering and Technology (IJEET) Vol 12, Issue 3, March 2021.

Academic Year 2021-22:

- **Dr. K.Elango** published a paper on ‘Improved Voltage Stability of IEEE 14 Bus system using STATCOM’, Design Engineering, Vol. 2021, No. 8, pp. 1790- 1799, 04-10-2021.
- **Dr.G.Madhusudanan** was elected as Executive Committee Member in Electrical Division, IE (I), KLC for two years on 29th October 2021.
- **Dr.R.Karthik** received the Young scientist awardee Fellowship from the Tamilnadu State Council of Science & Technology (TNSCST) and carried out Research for a period of 2 months from November 2021 to December 2021 in the topic “Preparation methods and characterization of LDPE based Nano Dielectrics” at High Voltage Laboratory, Department of Electrical Engineering, Indian Institute of Technology Kanpur (IITK).
- **Dr. K.Elango, Dr. S.Malathi, Dr. R.Arivalahan** and **Dr.T.Santhoshkumar** of EEE Department, filed and published a patent under the title as “Smart Emergency Stretcher Coupled Bt-Controlled Cleaning Robot” in the domain of Smart Automation.