



AMET
ACADEMY OF MARITIME EDUCATION AND TRAINING
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

ELECTRO MARINE

NEWSLETTER

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

June 2017 – December 2017

ABOUT THE UNIVERSITY

AMET is India's first Deemed to be University in Maritime Education which is ranked as 3rd among Maritime Universities of the World in the PIMET (Performance Indicators in Maritime Education and Training) Ranking of International Association of Maritime Universities (IAMU). Established during 1993, AMET's uncompromising strides of excellence in the field of maritime education and training laced with its capacity to feed the global shipping industry with an unrivalled maritime human resource secured it to have many national and international recognitions, accreditations and rankings such as NAAC, NIRF, ARIIA, DGS-CIP, PIMET etc.

AMET serves as an ocean of knowledge for over 4000 students pursuing Programmes ranging from diploma to Doctoral programs through 9 schools and 23 intensive research and training centers for marine and marine related activities. Equipped with an excellent infrastructure for research and development, co-curricular and extracurricular activities AMET secured its compliance certificate for ISO 9001:2015 QMS standards from the prestigious and globally renowned DET NORSKE VERITAS, Norway.

For over two decades AMET is remaining as the favourite destination for campus interviews by many shipping giants such as AP MOLLER MAERSK, GOODWOOD, NYK, SONANGOL, VSHIPS, WALLEMS, SHELL, CHEVRON, STENA and so goes a list of over 100 companies. Besides positions onboard, AMET Business school graduates have secured lucrative jobs in commercial shipping sectors such as chartering and ship broking. Never the less, Naval architecture, petroleum engineering, harbor engineering, marine electrical and electronics engineering graduates have successfully walked away from AMET with jobs offering sumptuous packages along with an opportunity to grow and glow in their career swiftly. Needless to say about the entrepreneurship development activities nurtured into AMET'ians has been found rewarding by students who are chief executive officers of their own organization.

VISION AND MISION OF THE UNIVERSITY

VISION

To sustain identity as a World Class Leader in Maritime Education and empower learners with wholesome knowledge through progressive innovation in training, research and development which will render students a unique learning experience and a transformation impact on the Global Society.

MISION

AMET will strive continuously to

- ❖ Impart value-based higher education and technical knowledge with uncompromising strides of an outstanding quality.
- ❖ Emerge as a Centre of Excellenceinculcating skill development in recent technologies in accordance with industrial trends.
- ❖ Create World class research capabilities on par with the finest in the world and broaden student's horizons beyond classroom education.
- ❖ Nurture talent and entrepreneurship to enable all round personality development among students.
- ❖ Empower studentsacross socio economic strata
- ❖ Make a positive difference to society through technical education.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering is constituted and administered to provide a professional atmosphere for scholars, students, educators and engineers to enrich the discipline of Electrical, Electronics and Marine Engineering. The Department offers a well-balanced undergraduate Electrical and Electronics Engineering -Marine program and postgraduate M-E (Power Systems) program and PhD- Electrical and Electronics Engineering program of technological and scientific study designed to serve the professional needs of the baccalaureate.

The Department gives opportunity to learn marine related courses for the students and pursue studies related to the scientific concepts, technological advancements and design principles of Electrical and Electronics Engineering pertaining to Onshore and Offshore applications as well. This programme is designed to enable the Engineers coming out of the stream to work on board the ship as Electrical Engineers. Jobs with shipyards, dry docks, ship machinery manufacturers are some of the other fields they can look into.

ESTABLISHMENT:

Department of Electrical and Electronics Engineering is established in the year 2008 with the objective of imparting quality education of international standards and to produce highly innovative Marine Electrical and Electronics Engineers capable of solving global maritime challenges. Since its inception in the year 2008, the Department has grown steadily and acquired the present shape with excellent infrastructure, modern equipment for the laboratories and qualified and dedicated faculty to impart sound technical knowledge to the enthusiastic student community. As on date, the Department has successfully produced four batches of talented graduates who are serving in prestigious shipping industries and organizations.

The Department offers 4 years U.G program in EEE-Marine, PG program in M-E (Power Systems) and PhD in interdisciplinary Engineering domains. The Department is headed by Dr.T. Sasilatha, Professor and Dean and supported by a team of well qualified, experienced and dedicated faculties. The Specialization of staff members span around major areas in Electrical and Electronics Engineering including Marine Automation, Power Systems, Electronic

Navigation Systems, Offshore Energy Systems, Electrical machines, Energy studies, Control Systems, Power Electronics, Applied Electronics, Embedded Systems, Electrical Drives and VLSI Design.

PROGRAMS OFFERED:

- B.E - Electrical and Electronics Engineering-Marine – 4 Years
- Ph.D – Electrical and Electronics Engineering, Interdisciplinary Domains (Full time and Part time)

VISION AND MISSION OF THE DEPARTMENT

VISION

To emerge as a Centre for higher learning and research through development of highly competent, innovative and world class Marine Electrical and Electronics Engineers while remaining sensitive to ethical, societal and environmental issues.

MISSION

- ❖ To impart quality education in order to produce highly innovative, socio- economically conscious Marine Electrical and Electronics Engineers.
- ❖ To provide knowledge and skills, that is essential to meet the local and global demands in Marine Electrical and Electronics Engineering.
- ❖ To upgrade student's technical knowledge through industry interaction activities.
- ❖ To foster strong ethics, positive attitude and transform the Department into Centre of Excellence by promoting world class research and development to meet the challenging needs of society.
- ❖ To motivate and guide students for developing entrepreneurship or pursue higher education and train them for overall personality development.

Education is not filling the mind with a lot of facts. Perfecting the instrument and getting complete mastery of my own mind is the ideal education.

- Swami Vivekananda

DEAN'S MESSAGE



Dr.T. SASILATHA M.E, Ph.D.

The Department newsletter is one the wonderful presentation of the Department regarding the achievements and participations of the faculty and the students. The Newsletter gives all the details of the activities undergone in the Department during the period from June 2017 –December 2017. I appreciate the faculty, students and supporting staff for their tireless efforts and contributions to the various activities held in the Department.

CONTENTS

1. Department Activities
2. Professional Society Activities
3. Industry - Institute Activities
4. Student Achievements
5. Research and Development Activities
6. Extension and Community Services

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING - MARINE

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Bachelor of Electrical and Electronics Engineering – Marine program is designed to prepare the graduates will,

PEO1:

Have a successful career in Marine or other related Electrical and Electronics Engineering fields or pursue higher education and research in multidisciplinary area.

PEO2:

Apply Engineering fundamentals, technical knowledge, skills and modern tools to solve real world Electrical Engineering problems in Maritime industries.

PEO3:

Adapt to any environment and practice the ethics of their profession, consistent with a sense of social responsibility.

PEO4:

Exhibit the skills by updating the breadth of knowledge in the life-long learning process to meet the global challenges.

DEPARTMENT ACTIVITIES

INTERNATIONAL CONFERENCE

The Department organized one day International Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2017) on 6.10.2017. Mr DONG MIN CHAE, General Manager, JEONG-IN Pvt. Ltd. was the chief guest of the occasion.



WORKSHOPS ORGANIZED IN THE DEPARTMENT

The Department regularly organizes National Workshop for the students and faculty members to expose them to emerging areas. National Workshop on Advances in Robotics and Artificial Intelligence in association with Electronics Platform Research Labs was conducted on 7.12.2017 and 8.12.2017.



National Workshop on Conceptual Practices in Industrial Automation in association with CDCE Automation & Ministry of Small, Micro and Medium Enterprises (MSME), Govt. of INDIA was conducted on 13.12.2017 and 14.12.2017.



FACULTY DEVELOPMENT PROGRAMME

The Department regularly organizes faculty development programme for the faculty members to expose them to emerging areas. Faculty development program on recent trends in Renewable Energy and Power Electronics using MATLAB by Pantech Group of Company was organized on 15.09.2017 and 16.09.2017. Electro-Magnetic Transient Program (EMTP-RV) for System Application was conducted on 22.09.2017.



Faculty development program on Recent trends in Renewable Energy and Power Electronics using MATLAB



**Faculty development program on Electro Magnetic Transient Program (EMTP-RV)
for System Application**

PROFESSIONAL SOCIETY ACTIVITIES

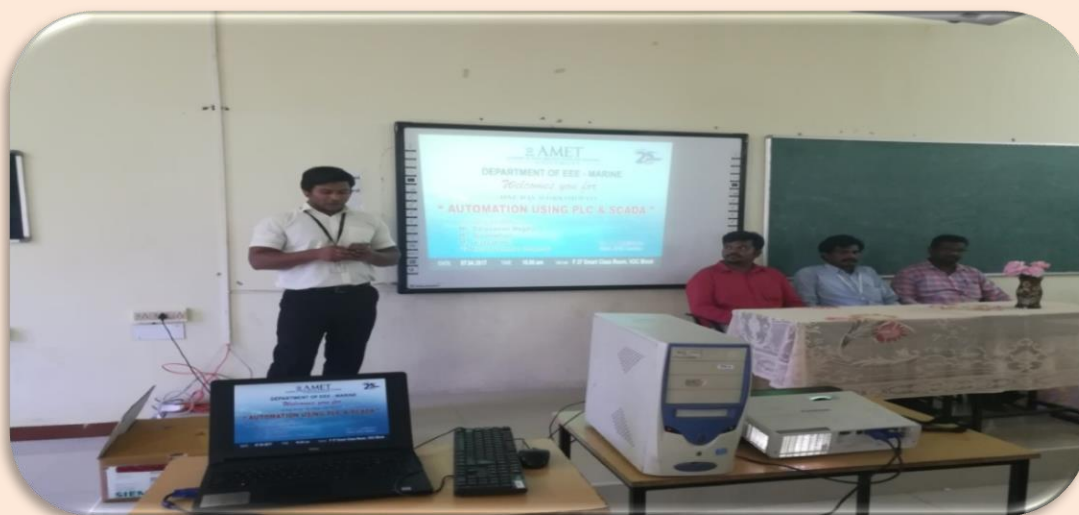
GUEST LECTURE ORGANIZED

The department organizes lectures on the latest areas by experts from industries and reputed Universities.

S. No	Date	Topic	Speaker
1	07.08.2017	Embedded system and IoT	Mr Balasubramanian, R&D Engineer, Chennai
2	08.09.2017	Mitigation of issues in power plant Engineering	Dr Mohana Sundaram, PhD,AEE,TANGEDCO, Project Division, Head Office, Chennai
3	15.09.2017	Testing and Commissioning of Substation	Mr.A.Prabu, AGM, Volt Tech Engineers Private Limited, Chennai.
4	28.09.2017	Issues on Power system Protection	Dr.S. Kumar, PhD,AEE, CEDC, TANGEDCO, West Chennai.
5	02.10.2017	Power plant –Load Flow Analysis	Mr.K.Ramachandran,Director, Adhithya Electrical Power System Private Limited, Chennai.



Mr.Swaminathan, CEO, Synamen India Pvt. Ltd., Chennai, delivering about Energy Audit held on 07.08.2017



Guest lecture on “Automation using PLC and SCADA” by ViMicrosystems, Chennai, held on 07.04.2017. Inauguration and felicitation function welcome address by student speaker, Mr.Sivanathan, hands on experience on PLC and DCS

RESEARCH&DEVELOPMENT ACTIVITIES

List of Workshop/ Faculty Development Program/ Seminar Organized in collaboration with Industry

S.no	Date	Duration	Topic	Agency	Speaker
1	13.12.2017 & 14.12.2017	Two Days National Workshop	Conceptual Practices in Industrial Automation	CDCE Automation, Chennai	Mr Rajasekar Jayakumar, Director, CDCE Automation, Trainer- Ministry of Micro, Small&Medium Enterprises,Chennai.
2	07.12.2017 & 8.12.2017	Two Days National Workshop	Advances in Robotics and Artificial Intelligence	Electronics Research Labs, Chennai	Mr R. Purushothaman, CEO / Founder, Electronics Platform Research Labs, Chennai.

3	22.09.2017	One Day FDP	Electromagnetic Transient Program (EMTP-RV) for power system Applications	Powers Solution, Chennai	Mr V.P. Boopathi, Senior Support engineer, Powers, Chennai. MrD. Yabes, Support Engineer, Powers, Chennai.
4	15.09.2017 & 16.09.2017	Two Days FDP	Recent Trends on Renewable Energy & Power Electronics Using MATLAB	Pantech ProEd Pvt Ltd, Chennai	Mr.M. Malaippan, Director, Pantech Group of Companies, Chennai Mr J. Gokul Kumar, Head-Training & Placements, Pantech ProEd PvtLtd, Chennai.

INSTITUTE -INDUSTRY INTERACTIONS

Industry-Sponsored Projects

S.No	Title	Principal/ Investigator	Status	Name of the Industry	Sanctioned Amount
1	An Internet of Things approach for motion detection using Raspberry Pi3 Model B	Dr.S.V. Saravanan Ms Anjum	Completed	VeeEee Tech Soln Pvt Ltd, Chennai	Rs. 1,50,000
2	Wireless motor control and monitoring system using zig bee	Mr.S. Jaranthanan	Ongoing	Signals and Solutions, Chennai	Rs. 1,50,000
3	Advanced Integrated Cooling Water Management System	Mr.P. Veerakumar Mr R. Sundar	Ongoing	Vee Eee Tech Soln. Pvt Ltd, Chennai	Rs. 6,10,000
4	Wireless Bomb Disposal Robot	Mr M. Dheepak Mr.P.Veerakumar	Ongoing	Chip thing Labs, Chennai	Rs. 5,70,000
5	New Braking Mechanism For Ship by Using Embedded System	MrM.Dheepak	Ongoing	SM MicroSystem, Chennai	Rs.5,60,000

Consultancy Projects:

S.No	Faculty Incharge	Nature/Title of Consultancy Work	Client/ Org/ Company	Duration	Amount (in Rs.)	Year of Sanction
1	Mr.C. Gnanavel	Solar Energy-efficient motor drive with flywheel energy storage system based multilevel inverters	Lambda Instruments Private Ltd., Chennai	6 Months	80,000	2017
2	Dr.T.Baldwin Immanuel	FPGA Based Closed-loop V/F control of three-phase induction motor	Lambda Instruments Private Ltd., Chennai	6 Months	50,000	2017
3	Dr.M. Rajavelan	Development of QCM Instrument for the Detection of Pollution in Drinking water	New Venus Industries, Chennai	6 Months	40,000	2017
4	Mr.S. Janarthanan	Crane control by Hand Gesture using flexible Sensor	RithikRosan R&D Centre, Chennai.	6 Months	1,20,000	2017
5	Mr.V. Karthikeyan Ms A. Mubashira Anjum	Unmanned Coastal Monitoring and Propulsion System	Veerle Tech. Solutions Pvt.Ltd, Chennai.	6 Months	1,11,000	2017
6	Ms A. Mubashira Anjum	Implementation of light fidelity in marine safety and data transmission system	Signals and Solutions, Chennai.	6 Months	1,00,000	2017
7	Dr S. V. Saravanan	A novel approach for automatic oil spill detection from ship and intimation using artificial neural network and Weibull multiplicative model for marinesafety	VeeEee Tech. Solutions Pvt. Ltd., Chennai.	6 Months	75,000	2017

FACULTY MINOR PROJECTS -FUNDED BY THE INSTITUTION

S.No	Name of the Faculty	Name of the Funding Agency	Title of the Project	Sanctioned Amount
1	Dr M. Rajavelan	AMET Deemed to be University	Development of QCM instrument for the detection of pollution in drinking water	Rs.20,000
2	Dr P. Muthukumar Dr.T.Baldwin Immanuel	AMET Deemed to be University	FPGA based closed-loop V/f control of three-phase induction motor	Rs.33,500/-
3	Mr C. Gnanavel	AMET Deemed to be University	Solar Energy-efficient motor drive with a flywheel energy storage system based on multi-level inverter	Rs.50,000/-

INDUSTRY INTERACTIONS



MoU signed between the Department of EEE and Electronic Platform research Labs



MoU signed between Department of EEE and CDCE automation & Robotics in association with MSME, Govt of. India



MoU signed between AMET and ICT Academy



MoU Signed between the department of EEE and YOKOGAWA INDIA LIMITED (MNC)

FACULTY ACHIEVEMENTS

FACULTY PUBLICATIONS IN SCOPUS/UGC/OTHER REPUTED JOURNALS

S.No	Name of the Faculty	Title of the Article	Name of the Journal	Volume/ Issue/ Journals	Year
1	Dr T. Sasilatha	Low Power Design of Wakeup Receiver for Wireless Sensor Nodes- A Survey	International Journal of Pure and Applied Mathematics	Volume-116, Issue-24, ISSN(P):1311-8080 ISSN(E):1314-3395	2017
2	Dr T. Sasilatha	An Area Efficient Low Power FIR filter for ECG Noise Removal Application	International Journal of Pure and Applied Mathematics	Volume-116, Issue-24, ISSN(P):1311-8080 ISSN(E):1314-3395	2017

3	Dr T. Sasilatha	Defending Web Servers From Denial of Service Attacks by Acknowledgement Based Approach	International Journal of Pure and Applied Mathematics	Volume-116, Issue-24 ISSN(P):1311-8080 ISSN(E):1314-3395	2017
4	Dr T. Sasilatha	Detection and Elimination of Black Hole and Grey Hole Attack on MANET	International Journal of Pure and Applied Mathematics	Volume-116, Issue-24 ISSN(P):1311-8080 ISSN(E):1314-3395	2017
5	Dr T. Sasilatha	Sinkhole Attack Detection in WSN using Pure MD5 Algorithm	Indian Journal of Science and Technology	Volume-10, Issue-24	Jul. 2017
6	Dr T. Sasilatha	Self-Configurable Clustering using FLB to improve Network Lifetime in WSN	Journal of chemistry and pharmaceutical sciences	ISSN:0974-2115	Jul. 2017
7	Dr T. Sasilatha	An Efficient Strategy Over Brain Tumour Analysis Using Image Processing Techniques	International journal of pharmacy and Technology	Volume-9, Issue-3, ISSN: 0975-766X	Sep. 2017
8	Dr T. Sasilatha	Malicious Node Detection System Using Hash Chains Approach in IoT Based Sensor Networks	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
9	Dr T. Sasilatha	Progressive Parallel ICI Cancellation Scheme and BER Performance Analysis for MIMO-OFDM	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
10	Dr T. Sasilatha	Performance Analysis of Low Power FIR Filters Using Modified CSA in Biomedical	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017

		Applications			
11	Dr T. Sasilatha	Fuzzy Based Energy Efficient Cluster Head Detection in Wireless Sensor Networks	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
12	Dr T. Sasilatha	Performance Analysis of Low Power FIR Filters Using Modified CSA in Biomedical Applications	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
13	Dr T. Sasilatha	Fuzzy Based Energy Efficient Cluster Head Detection in Wireless Sensor Networks	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
14	Dr T. Sasilatha	Design of Advanced Vedic Multiplier Using Ripple Carry Adder	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
15	Dr T. Sasilatha	Design of Advanced Vedic Multiplier Using Ripple Carry Adder	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-2, ISSN: 1943-023X	Nov. 2017
16	Dr T. Sasilatha, Ms.R. Dorothy	System on Chip Based RTC inPower Electronics	Bulletin of Electrical Engineering and Informatics	Volume-6, Issue-4	Dec. 2017
17	Dr T. Sasilatha, Ms.K. R.Anupriya	Wireless Network for StrategicBoundary Supervision System	Bulletin of Electrical Engineering and Informatics	Volume-6, Issue-4	Dec. 2017
18	Dr T. Sasilatha, K. R. Anupriya	Transformer Exchanging withVacuum Electrical Switch	Bulletin of Electrical Engineering and Informatics	Volume-6, Issue-4	Dec. 2017
19	Dr T. Sasilatha	Sinkhole Attack Detection in WSN Using Fast Randomized Algorithm	International Journal of Control Theory and Application	Volume-10, Issue-31, ISSN : 0974-5572	2017
20	Mr.R. Sundar	Implementation of Ethernet-Based	International Journal of Pure	Volume-114, Issue-12	2017

		Monitoring and Controlling Systems	and Applied Mathematics	ISSN(P):1311-8080 ISSN(E):1314-3395	
21	Ms.A. Mubashira Anjum	Super Conductor Motors for High-Speed Ship Propulsion	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-13,ISSN: 1943-023X	Dec. 2017
22	Ms.A. Mubashira Anjum	Multifunction Mobile Robot Virtual Human	International Journal of Mechanical Engineering and Technology	Volume-8, Issue-7, ISSN(P):0976-6340, ISSN(E):0976-6359	Jul. 2017
23	Ms.T. Dhanya	Innovative Solution for Pollution Control in Automated Ships	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-11,ISSN: 1943-023X	Nov. 2017
24	Ms.T. Dhanya	A Survey Approach of Differential Face Estimation From A Low-Resolution Video Sequence	Indian Journal of Public Health Research and Development	Special Issue-8	Oct. 2017
25	Ms.R. Elavarasi	Development of MEMs Vibratory Gyroscope using High Order Continuous-Time Band-Pass Sigma-Delta Modulator	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-11,ISSN: 1943-023X	Nov. 2017
26	Mr.P. Veerakumar	PLC Controlled Water Pumps for Generator Stator Cooling System	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-11,ISSN: 1943-023X	Nov. 2017
27	Dr S.V. Saravanan	ATMEL Microcontroller based indoor surveillance robot	International Journal Of Innovative Research In	Volume-4, Issue-2, ISSN: 2349-6002	Jul. 2017

			Technology		
28	Dr.S.V. Saravanan	Design and Simulation of miniaturized Micro Strip Patch Antennas Using Shorting Techniques for GPS Applications	Journal of Advanced Research in Dynamical and Control Systems	Volume-9, Issue-9, ISSN 1943-023X	Sep. 2017
29	Dr.S.V. Saravanan	Design of Sea Ball for Maritime Security	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-11,ISSN: 1943-023X	Nov. 2017
30	Ms.G. Jegadeeswari	Design and Implementation of THD Reduction for Cascaded MultilevelH-Bridge Inverter	Journal of Advanced Research in Dynamical and Control Systems	Special Issue-11,ISSN: 1943-023X	Nov. 2017
31	Dr.V. Karthikeyan	Reduced Switch Reverse Voltage Multi-Level Inverter	International Journal for Scientific Research & Development (IJSRD)	Volume-5, Issue-5, ISSN: 2321-0613	Jul. 2017
32	Dr V. Karthikeyan	Yield Factor of Grid Connected Solar Photovoltaic System-A Case Study	Journal of Advanced Research in Dynamical and Control Systems	Volume-9, Issue-9, ISSN 1943-023X	Sep. 2017
33	Ms.T. Dhanya	Automatic ration Dispensary	International Journal Of Innovative Research In Technology	Volume-4, Issue-2, ISSN: 2349-6002	Jul. 2017
34	Ms.T. Dhanya	Development in multifunctional robotics design and analysis using CATIA/PATRAN	International Journal Of Innovative Research In Technology	Volume-4, Issue-2, ISSN: 2349-6002	Jul. 2017

35	Dr.V. Karthikeyan	Multilevel Inverter With Reduced Number of Switches for Solar Energy Generation	International Journal of Latest Technology in Engineering, Management & Applied Science (IJTEMAS)	Volume-6, Issue-6, ISSN: 2278-2540	Jun. 2017
36	Mr.P. Veerakumar	Review of Energy Management Techniques for Induction Motor Driven Industrial systems	Indian Journal of Science and Technology	Volume-4, Issue-1, ISSN:2349-6002	Jun. 2017
37	Mr.P. Veerakumar	PLC-Based Speed Regulation for Synchronous Motor.	International Journal of Applied Engineering Research (IJAER) (International)	Volume-6, Issue-6, ISSN(E):2278-2541	Jun. 2017
38	Mr.P. Veerakumar	Synchronization of Solar Power with Onboard Ship Main Bus Bar Using FPGA Technique	International Journal Of Innovative Research in Technology	Volume-4, Issue-1, ISSN: 2349-6002	Jun. 2017
39	Mr.P. Veerakumar	SCADA Based Generator Stator Water Cooling Pump Control System	International Journal of Advanced Trends in Engineering and Technology	Volume-2, Issue-1, ISSN: 2456-1126	2017
40	Mr.P. Veerakumar	PLC Based Automatic Control For Onboard Ship Gangway	International Journal of Mechanical Engineering & Technology (IJMET)	Volume-8, Issue-3, ISSN: 0976-6359	2017
41	Mr.P. Veerakumar	SCADA Based Generator Stator Water Cooling Pump Control System	International Journal of Advanced Trends in Engineering and Technology	Volume-8, Issue-6, ISSN: 0976-6316	2017

42	Mr.P. Veerakumar	PC Based Remote Operated Underwater Vehicle for Marine Surveillance	International Journal of Civil Engineering & Technology (IJCET)	Volume-8, Issue-6, ISSN: 0976-6316	2017
43	Mr.R. Sundar	PC Based Remote Operated Underwater Vehicle For Marine Surveillance	International Journal of Civil Engineering & Technology	Volume-8, Issue-6, ISSN(P):0976-6308 ISSN(E):0976-6316	Jun. 2017
44	Mr..R. Sundar	A Novel Technique for Volt- VAR Control in Substation Using Embedded System	Indian Journal of Science and Technology	Volume-2, Issue-1, ISSN: 0974-6846	2017
45	Mr..R. Sundar	Development of a Real-Time, High-Speed Data Acquisition System for Onboard Ship Application	Indian Journal of Science and Technology (International)	Volume-8, Issue-6 ISSN: 0974-6846	2017
46	Mr.R. Sundar	Sensor Based Spectacles, Waist-Belt and Footwear for Visually Impaired People	International Journal of Civil Engineering & Technology	Volume-8, Issue-6, ISSN(P):0976-6308 ISSN(E):0976-6316	Jun. 2017
47	Mr.S. Janarthanan	Comparative Analysis of FACTS Controller for IG Based Wind Farms in Grid-Connected System	International Journal of Latest Technology in Engineering, Management & Applied Science	Volume-6, Issue-6, ISSN: 2278-2540	Jun. 2017
48	Ms.R. Elavarasi	Smart Car Packing	Indian Journal of Science and Technology	Volume-10, Issue-9, ISSN(P):0974-6846 ISSN(E):0974-5645	2017

49	Mr.S. Janarthanan	Analysis of Grid Connected DFIG based Wind Farms for Reactive Power Compensation	International Journal of Latest Technology in Engineering, Management & Applied Science	Volume-6, Issue-6, ISSN: 2278-2540	Jun. 2017
50	Mr.S. Janarthanan	Study of DFIG based wind turbine for reactive power generation capability	International Journal of research in applied science & Engineering Technology	Volume-6, Issue-6, ISSN:2321-9653	2017

The faculty has been consistently engaged in the pursuit of their independent deliberations by way of doing research. Our faculty consistently work towards the development of inter-linkages across teaching and research.

DETAILS OF BOOKS PUBLISHED

The faculty members have published books in Electrical, Electronics and Marine fields, details are furnished as follows

S. No	Name of the Book/chapter	Author Details	Details of Publications	Year
1	FUNDAMENTALS AND BASIC PRINCIPLES OF REMOTESENSING	Dr T. Sasilatha	ISBN: 978-81-924764-8-3	2017
2	DESIGN OF ELECTRICAL MACHINES	Dr A. KalirasuMr R. Sundar	ISBN: 978-93-86636-50-8	2017
3	CONTROL SYSTEM	Dr S.V. Saravanan Ms T. Dhanya	ISBN: 978-93-86636-51-5	2017

PATENT PUBLISHED

The faculty's efforts towards innovation in research is brought through the preparation of patent, details are furnished as follows

S.No	Details of the Patent	Name of the Inventors	Status
1	Design of SEA BALL for Maritime Security	Dr.S.V.Saravanan, Mr M Dheepak Mr.JebyThomas Jacob	Ref.No:201741028764 dated:12.08.2017 Published: 25.08.2017
2	Remote Operated Underwater Vehicle For Marine Surveillance	Mr.R.Sundar, Mr M Dheepak, MrP.Veerakumar	Ref.No.:201741028769 dated:13.08.2017 Published: 25.08.2017
3	A Novel method for bandgap smoothening in PV string using controlled stimulation of electrons byintermittent electrostatic generation for enhancing plant performance	Dr. D. Padma Subramanian MrJeby Thomas Jacob Mr M Dheepak	Ref.No: 5411/Che2014 Dated:30.10.2014 & Published: 31.10.2015

DETAILS OF FACULTY DEVELOPMENT PROGRAMMESATTENDED

S. No	Name of the Programme	Name of the faculty members attended	Date of the Event
1	National Workshop on Advances in Robotics and Artificial Intelligence	Dr.T.Sasilatha,Dr.S.V.Saravanan, Dr.M.Rajavelan,Dr.Karthikeyan,Mr.R.Sundar, Mrs.R.Elavarasi,Mr.M.Dheepak, Mr.P.Veerakumar, Ms.A. Mubashira Anjum, Ms.T.Dhanya, Mr S.Janarthanan, Ms.S.Sindhuja Mr.C.Gnanavel,Mrs.A.Durgadevi,Mrs.Jagadeeswari,Mr. D.BaldwinImmanuel,Mr.Muthukumar, Mr.Benjamin Franklin, Ms.Anupriya	7.12.2017 & 8.12.2017
2	National Workshop on Conceptual Practices in Industrial automation	Dr.T.Sasilatha,Dr.S.V.Saravanan, Dr M.Rajavelan,Dr. V.Karthikeyan,Mr.R.Sundar,MrsR.Elava rasi, MrM.Dheepak, MrP.Veerakumar, Ms.A. Mubashira Anjum, MsT.Dhanya, MrS.Janarthanan, Ms.S.Sindhuja,Mr.C.Gnanavel,Mrs.A.Durgadevi,Mrs.Jag adeeswari, Mr.T.BaldwinImmanuel,Mr.Muthukumar, Mr.Benjamin Franklin, Ms.Anupriya, MrPoulouse and MrG.Srinivasan	13.12.2017 & 14.12.2017

3	Recent Trends On Renewable Energy and Power Electronics Using MATLAB	Dr.T.Sasilatha,Dr.S.V.Saravanan,Dr.M.Rajavelan,Dr.V. Karthikeyan,Mr.R.Sundar,Mrs.R.Elavarasi,Mr.M.Dheepa k,Mr.Veerakumar, Ms.A. Mubashira Anjum, MsT.Dhanya,MrS.Janarthanan,Ms.S.Sindhuja,Mr.C.Gnanavel,Mrs.A.Durgadevi,Mrs.Jagadeeswari, Mr.T.BaldwinImmanuel,Mr.Muthukumar,Ms.Dorathy, Mr.Benjamin Franklin, Ms.Anupriya	15.09.2017 & 16.09.2017
4	Electro-Magnetic Transient Programme (EMTP) Using Power System Application	Dr.T.Sasilatha,Dr.S.V.Saravanan,Dr.M.Rajavelan,Dr.V. Karthikeyan,Mr.R.Sundar,Mrs.R.Elavarasi,Mr.M.Dheepa k,MrP.Veerakumar, Ms.A. Mubashira Anjum, MsT.Dhanya, MrS.Janarthanan, Ms.S.Sindhuja Mr.C.Gnanavel,Mrs.A.Durgadevi,Mrs.Jagadeeswari,Mr. T.BaldwinImmanuel,Mr.Muthukumar,Ms.Dorathy,Mr.Benjamin Franklin, Ms.Anupriya	22.09.17

VIDEO CONFERENCING LECTURE

Video Conferencing Lecture on “Autonomous Robots-Movement Optimization of Robotic arm movement using soft computing” was conducted on 30.10.2017. The resource person was Dr Vijay Kumar Banga, Principal, Amritsar College of Engineering and Technology, Amritsar, Punjab, India.

Video Conference Lecture on “ELECTRONICS MADE IT EASY” was organized on 27.10.2017. Dr.K.Muthuvel, Professor / EEE, Noorul Islam University, Kanyakumari, India has given a good presentation and interacted with our second-year students.



STUDENTS ACHIEVEMENTS

STUDENT MINOR PROJECTS -FUNDED BY AMET

The university has launched a student project funding scheme to encourage the students to involve in various innovative projects and invited project proposals for the grant of financial support to carry out the projects

S.No	Name of the Students	Title of the Projects	Name of the Supervisor	Seed Money Sanctioned by AMET
1	S. Alwin Renold N. Manikandan Soundarapandiyan.L	Geofencing	Dr T. Sasilatha	Rs. 11,000/-
2	BajareShardul. J Yashwanth R. Saravana Kuma	Under Water & Flying Surveillance Robot	Dr T. Sasilatha	Rs. 15,000/-
3	J. Thomson Pradeep V. Aravindhan	DFIG based wind farm for Reactive Power Compensation	MrS.Janarthanan	Rs. 15,000/-
4	K. R. Gokula Krishna T. Hariprasath R. Siva Sankar	Enhancement in Performance of Thin Film Solar Cells	Dr V.Karthikeyan	Rs. 15,000/-

Co-curricular activities

Student Participation in National/ International Conferences

S.N	Na	Title	Event place
1	S. Sivasankar	11th National Conference on Mathematical Techniques and Applications	SRM Institute of Science and Technology, Kattankulathur, Chennai
2	Aravindhan. A	11th National Conference on Mathematical Techniques and Applications	SRM Institute of Science and Technology, Kattankulathur, Chennai
3	K. Manikandan	International Conference on Science, Engineering and Technology (ICSET)	Vellore Institute of Technology

4	Naveen Kumar. S	National Conference on “Advances in Electrical and Electronics Engineering”	Sri Venkateswara College of Engineering
5	DivinSobi	National Conference on “Advances in Electrical and Electronics Engineering”	Sri Venkateswara College of Engineering
6	Jaya Kumar. K	International Conference on Engineering and Advancement in Technology 2018 (ICEAT-2018)	Sri Krishna College Of Technology

STUDENT PARTICIPATION IN WORKSHOP/SEMINAR

S. No	Name	Title	Eventplace
1	Krishnaraj.S	National Level Workshop on Design of Experiments 2017	Saveetha School of Engineering
2	Mohan Raj R	National Level Workshop on Design of Experiments 2017	Saveetha School of Engineering
3	S Viknesh	National Level Workshop on Design of Experiments 2017	Saveetha School of Engineering
4	B Nirmal Kumar	Two Days National Level Workshop on Conceptual Practices in Industrial Automation	St Joseph's Institute of Technology Chennai
5	Brijesh C R	Two Days National Level Workshop on Conceptual Practices in Industrial Automation	St Joseph's Institute of Technology Chennai
6	Mathandeepu.M	Two Days National Level Workshop on Conceptual Practices in Industrial Automation	St Joseph's Institute of Technology Chennai
7	Vaithiyanathan.M.S	Sustainable Energy for Smart Cities: Generation Storage and Utilization	SreeSastha Institute of Engineering and Technology, Chennai
8	Beer Mohamed Uvaiz. N	Sustainable Energy for Smart Cities: Generation Storage and Utilization	SreeSastha Institute of Engineering and Technology, Chennai
9	Mathandeepu.M	Sustainable Energy for Smart Cities: Generation Storage and Utilization	SreeSastha Institute of Engineering and Technology, Chennai
10	Ajithkumar L	Publish or Perish	SreeSastha Institute of Engineering and Technology, Chennai

11	Vignesh K	Publish or Perish	SreeSastha Institute of Engineeringand Technology, Chennai
12	Vaithiyanathan.M.S	Publish or Perish	SreeSastha Institute of Engineeringand Technology, Chennai
13	S. Sivasankar	Two Days of Hands-on Training on IoT for Beginners	Rajalakshmi Institute of Technology,Chennai
14	A. Aravindhan	Two Days of Hands-on Training on IoT for Beginners	Rajalakshmi Institute of Technology,Chennai
15	S. Saravanan	Two Days of Hands-on Training on IoT for Beginners	Rajalakshmi Institute of Technology Chennai
16	S. Sivasankar	National Workshop on Green Energies and Vehicles for Sustainable Environment (NWGEVSE2K18)	Sri Venkateswara College of Engineering, Chennai

EXTENSION and OUTREACH ACTIVITIES

Extension activities are conducted regularly which include:

- ❖ Spreading of engineering education among the local community,
- ❖ Electrical safety awareness programs,
- ❖ Maintenance and repair of Electrical Equipment,
- ❖ Rallies to promulgate the message of pollution-free society and electrification of less Privileged schools,
- ❖ Community development programs are also conducted regularly to equip the local Community with basic practical knowledge in Electrical Engineering.
- ❖ Community development programs are conducted on topics like mobile service,



The Extension activity titled “Awareness Program on Electrical Safety” was conducted on 11.10.2017 at Jaya Public School. A team of 15 Students and 2 Faculty members were involved in this activity



The Department regularly engages in spreading the principle of social reformation through knowledge sharing. Some of the activities conducted by the department are shown electrical house wiring, motor overhauling, mobile phone Repair and servicing classes conducted and awareness about renewable energy systems, safety and maintenance of electrical equipment's.

NSS ACTIVITY: KOVALAM BEACH CLEANING



EDITORIAL COMMITTEE MEMBERS

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Dr.T. Sasilatha, Dean/EEE

Mr. P.Veerakumar, Asst.Prof/EEE

Student Members

Mr. Venkatesh

Mr. AnitoshMadel

THANK YOU!! MORE TO EXPECT IN THE NEXT EDITION

