



ELECTRIKA

“2020 - 2021”

MAGAZINE - ODD Semester

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,
AMET DEEMED TO BE UNIVERSITY, CHENNAI - 603112.

Editorial

Dear Readers,

I am pleased to know that this issue of AMET university EEE department magazine “Electrika” is launched. The EEE department is an abode of excellence, like other departments in the AMET University. Students are made familiar with the latest theoretical and practical developments in their respective engineering disciplines. I am sure that our students and faculty members would continue to prove mettle and make us proud by their achievements.

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Pro-Chancellor

Dr. Rajesh Ramachandran

Vice-Chancellor

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Pro Vice-Chancellor

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CONTENTS

Page No.

1.	Foreword	04
2.	About the University	05
3.	About the Department	07
4.	Newly Launched Courses	09
5.	Faculty List	10
6.	Facilities in the Department	15
7.	Glimpses of the Academic Year (2020–21: ODD Semester) Conference / Workshop / Seminar	20
8.	Student's Achievements	26
9.	Staff Awards / Recognitions	30
10.	Research Projects	33
11.	Patents	34
12.	Faculty Book Publications	34
13.	Faculty Journal Publications	36
14.	Faculty Attended Events	39
15.	Placements (Passed out Batch)	52
16.	Articles (By students)	53
17.	Alumni Testimonials	60

Foreword



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

It gives me immense pleasure to release the current issue of the technical magazine “ELECTRIKA” for the academic year 2020 – 2021. This is a productive technical material and subsidiary skill developing tool for the students.

Engineering is a great outlet for the imagination the perfect zone for independent thinkers. True engineering education is not just providing ample facilities to the students, it is a platform where hidden talents / imaginations are converted into the real and creative world. It helps to build teamwork and work with all kinds of people inside and outside the field, whether they are designers or architects, doctors or entrepreneurs.

Having said that, I am sure that this current issue will lighten up your spirits not only on the technical frontiers but also provide an insight of co-curricular and extra-curricular activities conducted both at the international and national level as conference and faculty development programmes. Adding to the galore are the value-added seminars and workshops conducted for students at a part of the institute-industry interactions. The edition also enlists student’s achievements and their participation in the intercollegiate conference, seminars, workshops and also in various sports meet and much more. The magazine will aptly revive fond memories of all the achievement to reminisce and to remind upon the future targets.

I am sure the magazine will be informative and resourceful. I applaud the co-ordinators and efforts behind the team in bringing out this issue. I wish them all success!

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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 centres 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, harbour

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.

QUALITY POLICY

AMET is committed to provide the highest quality in education and be the most preferred institution for pursuing marine and marine-related courses.

This will be achieved by a consistent focus on:

- Providing a conducive, vibrant, progressive and enriching learning atmosphere.
- Teaching excellence and research output.
- Global outlook and engaging with the world through learning, teaching and research.
- Providing competitive advantage in gaining employment for further academic opportunities.
- Maintaining excellent links with commerce and industry in both national and international.
- Complying with all applicable requirements and continually improving the effectiveness of the Quality Management System.

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
- M.E - Power Systems - Full Time - 2 years
- Ph.D. - Electrical and Electronics Engineering - 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.

“The highest education is that which does not merely give us information but makes our life in harmony with all existence”.

-RABINDRANATH TAGORE

NEWLY LAUNCHED COURSES

VALUE ADDED COURSES (VAC)

S. No.	Name of the Course	Year / Semester	Beneficiary
1	Fundamentals of Electronics	II / III	24
2	Control Systems Laboratory	III / V	24
3	High Voltage Laboratory	IV / VII	47

INTERDISCIPLINARY PROGRAMMES / COURSES

Department of EEE offered courses to the Programme (BE-NAOE, BE-ME, B.Tech-FPT, BE-PE, BE-Mining, BBA, B.Com).

- Introduction to Electric Vehicles
- Introduction to Robotics

SKILL DEVELOPMENT COURSES

- Simulation of Basic Power Electronics Circuits
- Design and Development of Bipedal Robots
- Future Readiness for Engineers
- Interview Tips and Techniques
- Employability skills
- Entrepreneurship Development
- Personal Leadership

FACULTY LIST

S.No.	Name of the Staff	Designation	Specialization	Photo
1	Dr. V. Karthikeyan	Professor	Power Electronics and Drives	
2	Dr. T. Baldwin Immanuel	Associate Professor	Power Electronics and Drives	
3	Dr.D.Lakshmi	Associate Professor	Power Systems	
4	Mr. P.Veerakumar	Assistant Professor	Power Systems	


5	Mrs.R.Elavarasi	Assistant Professor	Applied Electronics	
6	Dr.C.Gnanavel	Assistant Professor	Power Electronics and Drives	
7	Ms.G. Jegadeeswari	Assistant Professor	Power Electronics and Drives	
8	Mr.K.Manikandan	Assistant Professor	Power Electronics and Drives	
9	Mr. S. Palani Kumar	Assistant Professor	Power Electronics and Drives	


10	Mrs. G. Tamil Pavai	Assistant Professor	Power Electronics and Drives	
11	Mrs. R. Rajasree	Assistant Professor	Power Systems	
<u>PG (Power System)</u>				
12	Dr. S. Priya	Professor	Power Electronics and Drives	
13	Dr. G. Themozhi	Professor	Applied Electronics	
14	Mr. S. Amirtharaj	Assistant Professor	Power Systems	

UG I Year





15	Dr. Smilee Mathuram	Associate Professor	Power Systems	
16	Mrs. R. K. Padmashini	Assistant Professor	Power Electronics and Drives	
17	Mrs. J. Padmapriya	Assistant Professor	Wireless Communication	
18	Mr. R. Karthickmanoj	Assistant Professor	VLSI Design	


ADJUNCT FACULTY

19	Dr.O.Rajanayagam	Adjunct Professor	High Voltage Engineering	
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20	Dr.C.Kanagaraj	Adjunct Professor	High Voltage Engineering	
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NON – TEACHING FACULTY

1	Mr.S.Mohan Kumar	Lab Instructor	Electronics and Instrumentation Engineering	
2	Mr.S.Karthik	Lab Instructor	Electronics and Communication Engineering	
3	Mr.M.Ashok Kumar	Lab Instructor	Electronics and Instrumentation Engineering	
4	Mr.M.Devaraj	Lab Instructor	Diploma- Electronics and Communication Engineering	
5	Mr.S.Iyyapan	Lab Instructor	Electrical and Electronics Engineering	

6	Mr.G.Srinivasan	Lab Instructor	Electrical	
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FACILITIES IN THE DEPARTMENT

Our department has well equipped laboratories with state of art facilities, classrooms to support e-learning and department library for the benefits of faculty, students and researchers.

LIST OF LABORATORIES

Electronics Laboratory



Marine Electrical Workshop



Marine Automation Laboratory



High Voltage and Switch Gear Laboratory



Digital Signal Processing & Embedded System Laboratory



Electrical Machines Laboratory



SPONSORED RESEARCH LABORATORIES

Incubation Centre for Robotics



Center of Excellence for Onboard Ship Automation



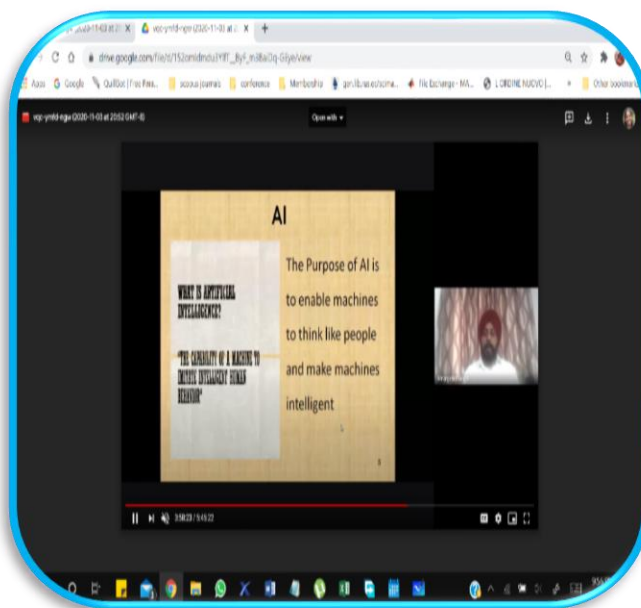
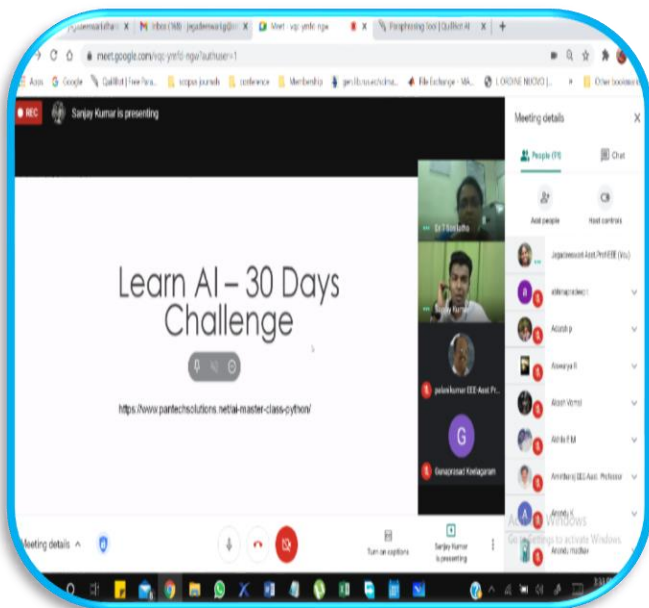
GLIMPSES OF THE YEAR

SHORT TERM TRAINING PROGRAMME:

AICTE sponsored One week online Short-Term Training Programme (Phase I/II/III) on “**Role of Smart Technology in Maritime Industries**” during November & December 2020.

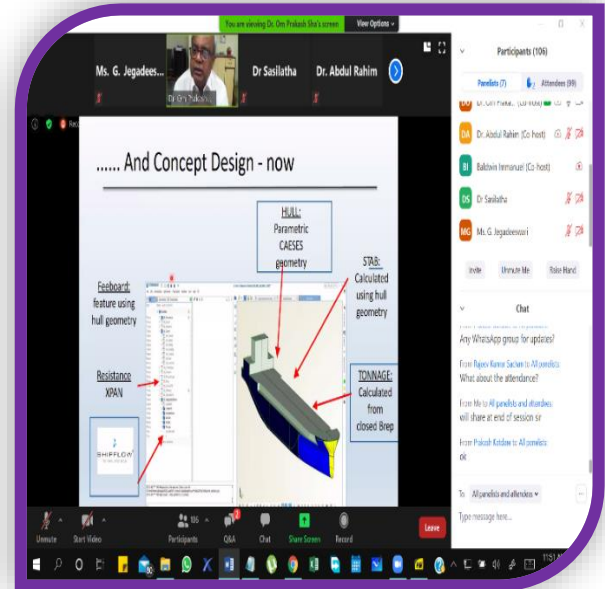
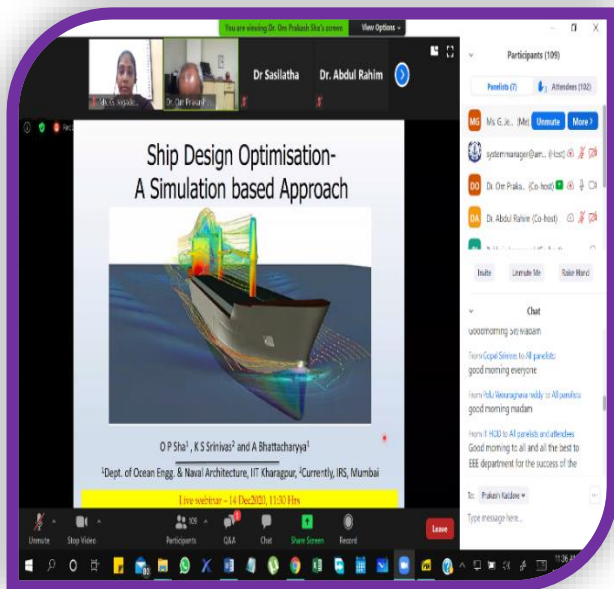
PHASE I:

STTP-I during 2nd to 7th November 2020 (10.30 am to 12. 30 pm & 2 PM to 4 PM) using online mode. Dr.K.G.Srinivasa, Professor, NITTR, Chandigarh delivered the Chief Guest address. Mr.G.Janakiraman, CEO, Fietz Global Engineering & Technology Pvt. Ltd, Chennai was the Guest of Honor. Around 206 participants registered from various colleges and Universities in India out of which 91 participants attended the program and got benefited.



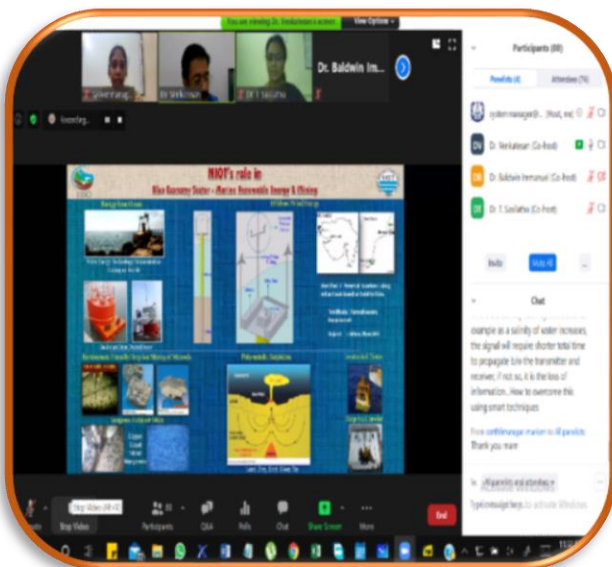
PHASE II:

STTP- II during 23rd to 28th November 2020 (10.30 am to 12. 30 pm & 2 PM to 4 PM) using online mode. Dr.R.Vijayakumar, Professor, Department of Ocean Engineering, IIT Madras delivered the Chief Guest address. Mr. Amarendra Katkam, Founder & CEO, Smart Bridge Educational Services Pvt Ltd, Hyderabad was the Guest of Honor. Around 257 participants are registered from various colleges and Universities in India out of which 85 participants attended the program and got benefited.



PHASE III:

STTP-III during 14th to 19th December 2020 (10.30 am to 12. 30 pm & 2 PM to 4 PM) using online mode. Dr. M. Abdul Rahim, Corporate Officer Managing Director, Middle East and South Asia Nippon Kaiji Kyokai (ClassNK), UAE delivered the Chief Guest address. Dr. John Paneerselvam, Lecturer in Informatics, University of Leicester, UK was the Guest of Honor. Around 150 participants registered from various colleges and Universities in India out of which 101 participants attended and got benefited.



The ultimate objective of conducting this STTP is to provide Engineering Faculty and Industrialist to up-grade their knowledge and skills that are essential for Research and Development in the field of Smart

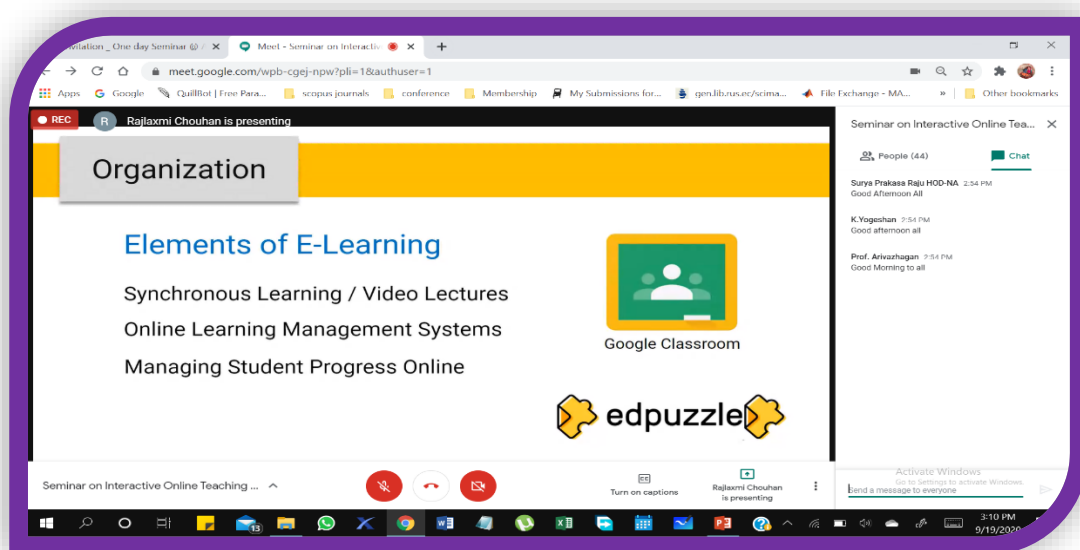
Technologies in Shipping Industries. To understand the social, legal and ethical issues surrounding smart technologies such as Cyber Physical systems, robotics and AI. This would advance our understanding in order to maximize the benefits of these technologies while mitigating potential adverse effects

We had a great guest speaker's expert from academicians and as well as industry. They are well expertise in the area of smart technology in Maritime sector. They were always shown keen interest in associating themselves for the activities of the various Programme by sharing their knowledge. Short Term Training Program (STTP) intends to conduct faculty trainings through financial assistance from AICTE to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society.

STTP provides and/or upgrade specific skills and knowledge required for enhanced performance of expected duties and responsibilities; facilitate or enhance the development of a critical mass of trained human resources able to work or contribute effectively towards specified nutritional improvements. To establish a plan for delivering training that takes into account both the immediate, most pressing training needs and the long-term needs for staff development in project management. The materials in this workbook can provide the basis for general entry-level project management training workshops and are designed to get you up and running quickly. They may be adequate to meet your short-term needs, but over the longer term you may be required to provide more advanced training as well as continuing to offer the entry-level content to new staff.

WORKSHOPS AND SEMINARS CONDUCTED

1. The Department organized One day Seminar on “[Interactive Online Teaching Using Pedagogical Initiatives and Online Tools](#)” through Virtual Mode on 19.09.2020 @ 3.00 – 4.00 pm.



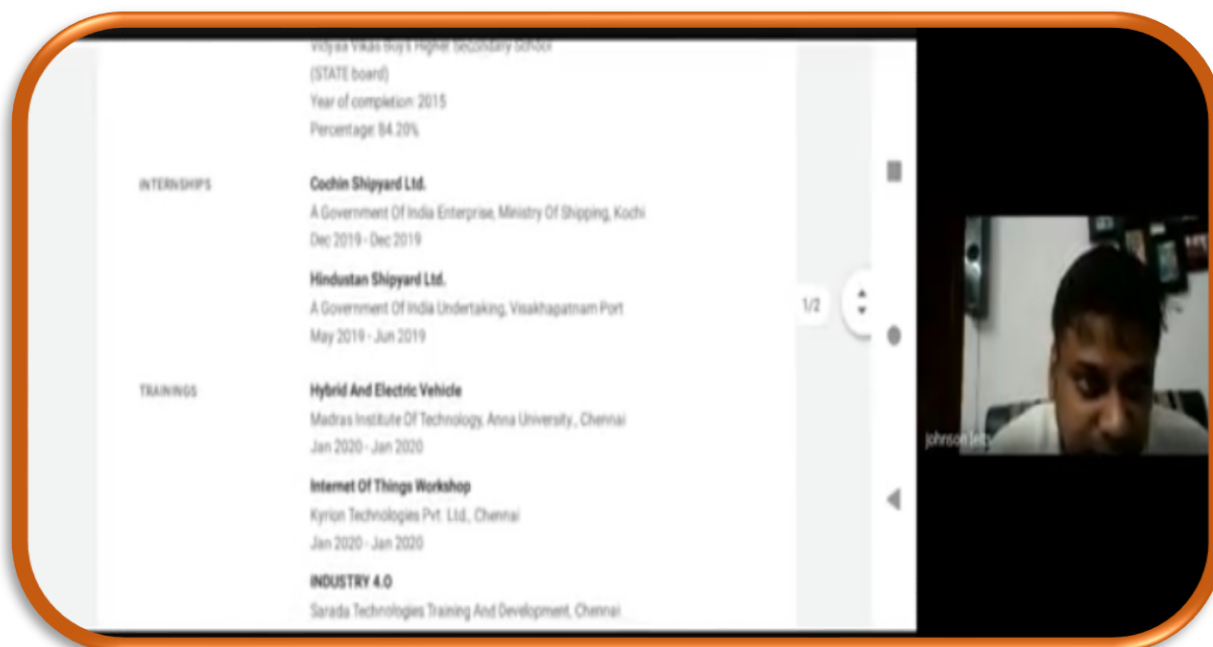
2. The Skill and Personality Development Programme (SPDP) Centre organized Two day's Workshop on Promotional events for higher studies titled “[Future Readiness for Engineers](#)” on 30.09.2020 & 01.10.2020 through Virtual Mode @ 3.00 – 4.00 pm.



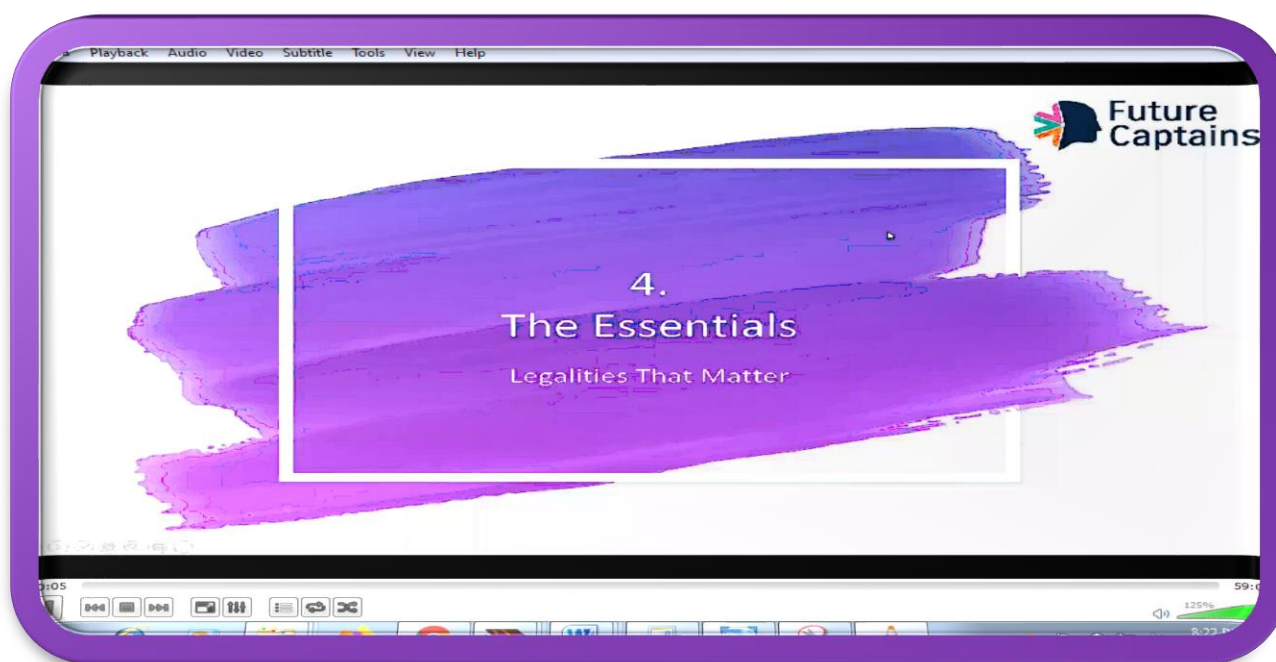
3. The Skill and Personality Development Programme (SPDP) Centre organized One day workshop on “[Employability Skills](#)” through Google Meet on 11th October 2020 @ 11.00 – 1.00 pm.



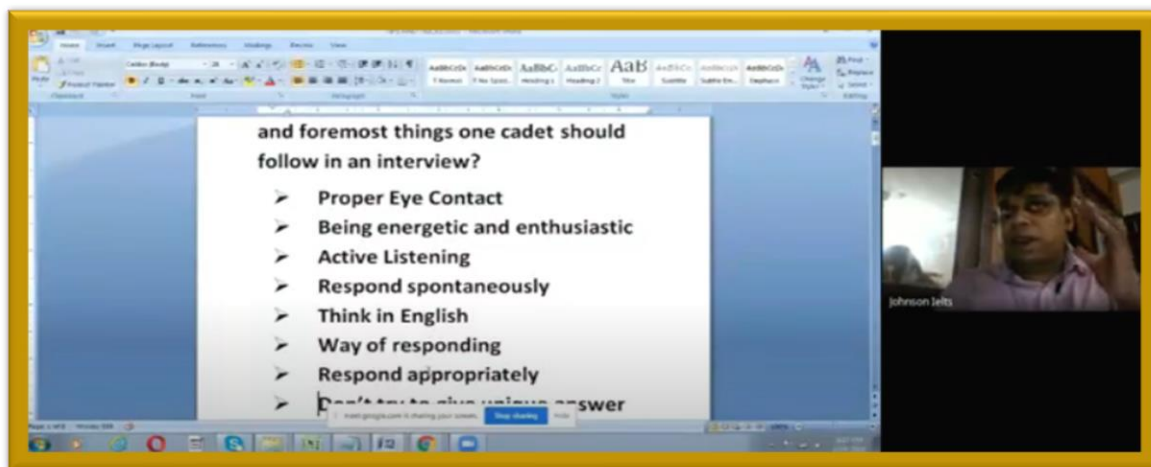
4. The Skill and Personality Development Programme (SPDP) Centre organized Two weeks workshop on “[Live Interview Skills Training for Deck and Engine Cadets](#)” through Virtual Mode on 19.10.2020 & 30.10.2020 @ 3.30 – 4.30 pm.



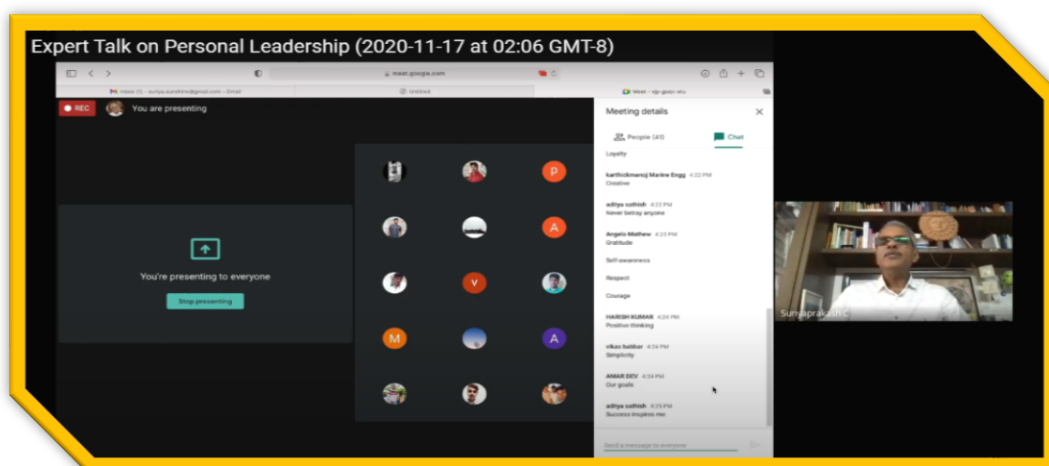
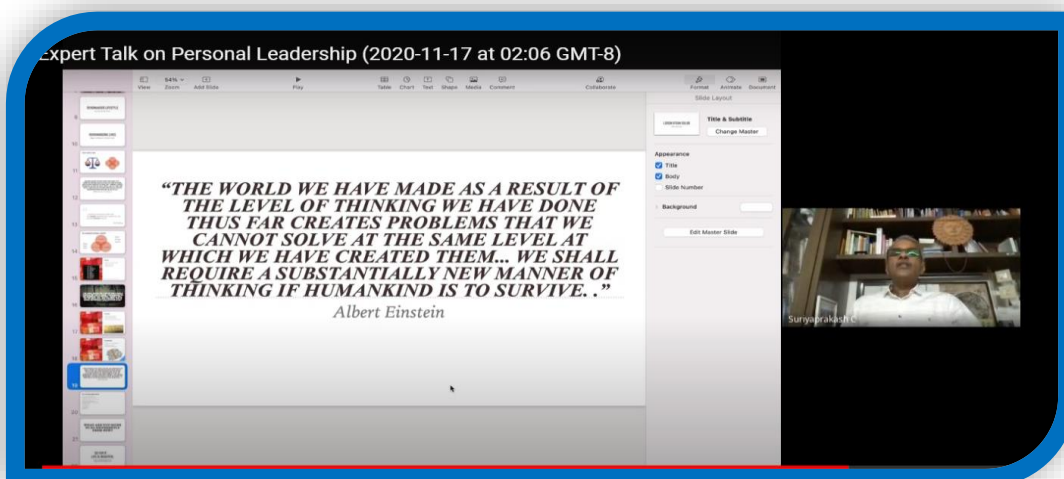
5. The Skill and Personality Development Programme (SPDP) Centre organized Two day's workshop on “[Expert Talk on Entrepreneurship Development](#)” on 10.11.2020 & 11.11.2020 through Virtual Mode @ 4.00 – 5.00 pm.



6. The Skill and Personality Development Programme (SPDP) Centre organized Ten day's Workshop on “Interview Tips and Techniques” on 05.10.2020 – 15.10.2020 through Virtual Mode.



7. The Skill and Personality Development Programme (SPDP) Centre organized One day workshop on “Expert Talk on Personal Leadership” through Virtual Mode on 17.11.2020 @ 3.30 – 4.30 pm.



STUDENTS' ACHIEVEMENTS

Projects Published/ Awards Received

S.No	Name of the students	Name of the Supervisor	Title of the Paper	Name of the Journal	Volume/ Issue No.
1	S. Viknesh	Ms. G. Jegadeeswari	Simulation and Implementation of	Journal of Xidian University	Vol: 14, Issue: 7, July 2020
	P. Dhanasekar		Thirty-One Level Cascaded Multilevel		
	R. Dinesh		Inverter fed Brushless DC Motor Drive		
	Manoj. CK		Applications		

Projects Presented/Published in National/ International Conferences

S.No	Name of the Students	Title of the Paper	Name of the Conference	Venue	Date
1	S. Viknesh	Implementation of thirty-one level cascaded multilevel inverter fed brushless dc motor drive applications	International E-Conference On “Challenges and Opportunities in Renewable Energy, Smart Systems And E-Mobility” (ICCORSE-2020)	SRM Easwari Engineering College, Chennai	30.07.2020 & 31.07.2020
	P. Dhanasekar				
	R. Dinesh				
	Manoj. CK				

Student's participation in Workshop/Seminar

S. No	Name of the Student	Title of the Event	Host Institute
1	Joel R Rodrigues Da Costa Mestre	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
2	Pradeep M	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
3	Duraipandi A	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
4	Karthick R	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
5	Manoj Kumar R	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
6	Tamilselvan D	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
7	Jayalal J	One Day Seminar (The latest Technologies in Solar PV: an online lesson)	The European Energy Centre, UK
8	Joel R Rodrigues Da Costa Mestre	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
9	Rudran V	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
10	Pradeep M	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
11	Nirmal Kumar B	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
12	Gokulraj R	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai

13	Akash P Santhosh	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
14	Prabhul B	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
15	Amuthan A	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
16	Jain James	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
17	Namala Saket	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
18	Uday Kumar	One Week Short Term Training Programme (Role of Smart Technology in Maritime Industries)	AMET Deemed to be University, Chennai
19	Sudarshan K	Two day's Workshop (Expert Talk on Entrepreneurship Development)	AMET Deemed to be University, Chennai
20	Joel R Rodrigues Da Costa Mestre	Two day's Workshop (Expert Talk on Entrepreneurship Development)	AMET Deemed to be University, Chennai
21	Vignesh K	Two day's Workshop (Expert Talk on Entrepreneurship Development)	AMET Deemed to be University, Chennai
22	Veerapathiran M C	Two day's Workshop (Expert Talk on Entrepreneurship Development)	AMET Deemed to be University, Chennai
23	Mohamed Yaser N	One day Workshop (Expert Talk on Personal Leadership)	AMET Deemed to be University, Chennai
24	Manoj Kumar R	One day Workshop (Expert Talk on Personal Leadership)	AMET Deemed to be University, Chennai
25	Naveen P	One day Workshop (Expert Talk on	AMET Deemed to be University,

		Personal Leadership)	Chennai
26	Surya Prasad A	One day Workshop (Expert Talk on Personal Leadership)	AMET Deemed to be University, Chennai
27	Joel R Rodrigues Da Costa Mestre	One day Workshop (Expert Talk on Personal Leadership)	AMET Deemed to be University, Chennai
28	Manivannan D S	Two day's Workshop (Future Readiness for Engineers)	AMET Deemed to be University, Chennai
29	Karthick R	Two day's Workshop (Future Readiness for Engineers)	AMET Deemed to be University, Chennai
30	Jayasurya G	Two day's Workshop (Future Readiness for Engineers)	AMET Deemed to be University, Chennai
31	Maheswaran A	Two weeks Workshop (Interview Tips and Techniques)	AMET Deemed to be University, Chennai
32	Dhanasekar P	Two weeks Workshop (Interview Tips and Techniques)	AMET Deemed to be University, Chennai
33	Balamurugan K	Two weeks Workshop (Interview Tips and Techniques)	AMET Deemed to be University, Chennai
34	Joel R Rodrigues Da Costa Mestre	Two weeks Workshop (Interview Tips and Techniques)	AMET Deemed to be University, Chennai
35	Arun P	Two weeks Workshop (Interview Tips and Techniques)	AMET Deemed to be University, Chennai
36	Manivannan D S	Two weeks Workshop (Live Interview Skills Training for Deck and Engine Cadets)	AMET Deemed to be University, Chennai
37	Hemanth Raj R	Two weeks Workshop (Live Interview Skills Training for Deck and Engine Cadets)	AMET Deemed to be University, Chennai
38	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Employability Skills)	AMET Deemed to be University, Chennai

STAFF AWARDS / RECOGNITION

**Dr.T.Sasilatha / Dean-EEE received the award for Service in Assessment of Research Proposals for
IAMU's Research Projects in FY 2020**



**Dr.D.Lakshmi / Associate Professor / EEE received the Memento of Honor as a Chief Guest for an
 Faculty Development Programme**

FACULTY AWARDS & RECOGNITION

Name of the Faculty	Designation	Name of the award, fellowship, received from Government or recognized bodies
Dr.T.Sasilatha	Professor & Dean	Service in Assessment of Research Proposals for IAMU's Research Projects in FY 2020
Ms. G. Jegadeeswari	Assistant Professor	Best paper Award, St.Peter's Institute of Higher education & Research
		Best paper Award, The Quaide Milleth College for Men
		Appreciation received for Keynote Speaker, AICTE STTP-II Program, AMET University
		Appreciation received for Keynote Speaker, AICTE STTP-III Program, AMET University
Dr.D.Lakshmi	Associate Professor	Sir C.V.Raman, Best Teacher Award, ESN PUBLICATIONS
		Memento of Honor as a Chief Guest for a Faculty Development Programme

FACULTY RESEARCH PROJECTS

S. No	Project Title	Funding Agency	Amount	Principal Investigator	Duration	Year of Sanction
1	Marine Frequency Converter Based Renewable Energy System in Onboard Ships	AICTE – Research Proposal Scheme	Rs.12,65,000	PI: Dr. T. Sasilatha Co-PI: Dr. P. Shanthi	3 Years	2018-2019
2	Solar Still Using Nano Phase Change Materials	TNSCST – S&T Project Under DST/PRG scheme	Rs.4,30,000	PI: Dr. T. Sasilatha Co-PI: Dr. V. Karthikeyan Mrs. R. Elavarasi	2 Years	2019-2020
3	MSME-Business Incubator (HI/BI)	MSME, Delhi, Govt. of India.	Rs.3,50,00,000	Dr. T. Sasilatha	5 Years	2019-2020
4	Skill and Personality Development Centre for SC/ST students	All India Council for Technical Education –SPDP scheme	Rs.17,48,000	PI: Dr. T. Sasilatha Co-PI: Mr. P. Veerakumar	3 Years	2019-2020

FACULTY PATENTS PUBLISHED

Topic	Author Name	CBR Number / Patent Number	Date of Publication
A New Depiction of Water Path for Power Generation from Wastewater as well as Oil	Dr. V. Karthikeyan	202041040082	25.09.2020

FACULTY BOOK PUBLICATIONS

Name of the Book/chapter	Author Details	Details of Publications	Year
Internet of Things	Dr. Parameswari Dr. T. Sasilatha Dr. A. Suresh	L Ordine Nuovo Pub ISBN No: 939008404-0	2020
Basic Electrical and Electronics Engineering	Dr. A. Suresh Dr. T. Sasilatha Dr. Baldwin Immanuel	L Ordine Nuovo Pub ISBN No: 939008404-0	2020
Book Chapter titled “Nanotechnology in the Beverage Industry - Fundamentals and Applications	Dr. T. Sasilatha Mrs. Dorothy	ISBN: 978-0-12-819941-1	2020
Circuit Theory	Mr. C. Gnanavel	ISBN: 978-93-80757-66-7	2020

Digital system design using VHDL	Mr. C. Gnanavel	ISBN: 978-81-945156-3-0	2020
High voltage Engineering	Ms. G. Jegadeeswari Mr. C. Gnanavel	ESN Publications, ISBN: 978-81-944871-4-2	2020
Fundamentals of Drives	Ms. G. Jegadeeswari Dr. D. Lakshmi Mr. S. Amirtharaj	ESN Publications, ISBN: 978-81-945156-6-1	2020
Basic Electrical engineering	Ms. G. Jegadeeswari	ESN Publications, ISBN: 978-81-945156-2-3	2020
Holistic Research Perspectives (Design and Implementation of Wearable Photovoltaic Cell)	Ms. G. Jegadeeswari	Centivens Institute of Innovative Research (CIIR) Pvt. Ltd. ISBN: 978-81-942938-7-3	2020

FACULTY JOURNAL PUBLICATIONS

S. No	Name of the Faculty	Title of the Article	Name of the Journal	Volume and Issue No	ISSN No / DOI	Year
1	G. Jegadeeswari	Impact of BUE on Surface ruggedness for machining of aluminum matrix composites (6061/Fly ash)	Advance in materials and Processing Technology	---	978-981-15-7245-6	Sep 2020
2	G. Jegadeeswari	Machining of Aluminum Fly Ash Composite Effect of BUE on Surface Roughness	Journal of Xidian University	----	10012400	Sept 2020
3	D.Lakshmi	Voltage Stability Enhancement of SMIB System using variable Structure Controller	Solid State Technology	Vol.63, Issue.6		Sept 2020
4.	R.Elavarasi, R.Vijaya Priya	Vector Control Scheme for PMSG – Based WPS under Various Grid Disturbances	Springer nature Singapore- Advances in Smart Grid Technology	---	---	Sept 2020
5.	R.Lakhmi R.Zahira	Modeling and Simulation Analysis of Shunt Active filter for Harmonic Mitigation in Islanded microgrid	Springer nature Singapore- Advances in Smart Grid Technology	---	---	Sept 2020
6	D.Lakshmi R.Zahira	Flowing Pollination Algorithms in DSP Intergrated DFIG for Controlling Load Frequency	IEEE Conference	----	---	Dec 2020

7	G.Themozhi	FOPID Controlled inter leaved cuk converter fed induction motor drive system with improved time response	Solid State Technology	Vol.63, Issue.6	---	Dec 2020
8	V.Karthikeyan G.Giftson Samuel	Energy Stroge Syssem with Dynamic Voltage Restorer Intergated for Wind Energy System	IOP Confernece : materials Science and Enginnering	----	1757-899X	Dec 2020
9	Mrs. G. Jegadeeswari	Fault Detection and Diagnosis in Three Phase Induction Motor Using Neural Network Predictive Controller	Virtual National Conference on Emerging Technologies in Energy Systems (NCETES-2020) at Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada			Sep 2020
10	Mrs. G. Jegadeeswari	Performance Analysis of BLDC Motor with Multilevel Inverter	International E - Conference on Recent Trends and Technologies in Soft Computing (ICRTSC'20) – 2020 at St. Peter's Institute of Higher Education and Research, Chennai		978-93-5416-195-7	Oct 2020
11	Mrs. G. Jegadeeswari	Implementation of fault detection and diagnosis of three phase induction motor	AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020) at Tagore Engineering College, Chennai		978-81-947587-4-7	Oct 2020
12	Mrs. G. Jegadeeswari	Design of MOSFET Inverter of a Grid Connected Photovoltaic System	AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020) at Tagore Engineering College, Chennai		978-81-947587-4-7	Oct 2020

13	Mrs. G. Jegadeeswari	Implementation of Thirty-One Level Cascaded Multilevel Inverter Fed Brushless Dc Motor Drive Applications	International E-Conference on Challenges And Opportunities In Renewable Energy, Smart Systems And E-Mobility (ICCORSE-2020) at SRM Easwari Engineering College, Chennai			Oct 2020
14	Mrs. G. Jegadeeswari	Machining Behavior of Al6061 fly- ash Composites	International E-Conference on Advances in Information Technology, Business Management, and e-Commerce - 2020 at The Quaide Milleth College for Men - Shift II, Medavakkam, Chennai		978-93-5407-331-1	Oct 2020
15	Mrs. G. Jegadeeswari	Performance Analysis of An Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications	4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, Organized by DK International Research Foundation, Perambalur, Tamilnadu IWCETASET – 2020		978-81-945642-3-2	Oct 2020
16	Dr.D.Lakshmi	Direct AC/DC Power Converter using Circuits	International Journal of Advanced Science and Technology	Vol 29	No.7s, 2020, PP: 785-793	Oct 2020

FACULTY ATTENDED EVENTS

S.No	Faculty Name	Name of the Event	National / International	Duration	Period	Sponsored By	Organisation Name
1	Dr. T. Sasilatha	Leadership and Excellence	National	5	07.09.2020 - 11.09.2020	AICTE Training and Learning (ATAL) Academy	Indian Institute of Information Technology , Design & Manufacturing, Jabalpur
2	Dr. V. Karthikeyan	Current affairs and Research scope in Renewable Energy	National	5	29.06.2020 - 03.07.2020	Chennai Institute of Technology	Chennai Institute of Technology
3		Internet of Things and its Applications	National	1	19.07.2020	Rajalakshmi Engineering College, Thandalam	Rajalakshmi Engineering College, Thandalam
4		Recent Developments in Solar based Renewable Energy system	National	1	20.10.2020	Government Engineering College, Bharuch	Government Engineering College, Bharuch
5	Dr. T. Baldwin Immanuel	Recent Advancements in Photonic Crystals and its Applications	National	1	22.07.2020	Mount Zion College of Engineering and Technology	Mount Zion College of Engineering and Technology , Chennai
6		Effective Online Teaching - Learning Methodology	National	1	10.08.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
7		Sensor Technology	National	5	17.08.2020 - 21.08.2020	AICTE Training and Learning (ATAL) Academy	St. Joseph's Institute of Technology

8	Dr.D. Lakshmi	Understanding the National Education Policy 2020	National	1	20.08.2020	Noorul Islam Center for Higher Education (Deemed to be University)	Noorul Islam Center for Higher Education (Deemed to be University), Kanyakumari District
9		Wearable Devices	National	5	14.09.2020 - 18.09.2020	AICTE Training and Learning (ATAL) Academy	Kongu Engineering College
10		Conduct of Continuous Internal Assessment Tests	National	1	22.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
11		Robotics	National	5	08.12.2020 - 12.12.2020	AICTE Training and Learning (ATAL) Academy	KCG College of Technology
12		Overview of Issues and Challenges in power sector	National	3	10.07.2020 - 12.07.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
13	Dr.D. Lakshmi	Recent trends on Renewable energy and Electric vehicle technologies	National	6	20.08.2020 - 25.08.2020	Easwari Engineering College, Chennai	Easwari Engineering College, Chennai
14		Smart Grid Automation	National	1	06.10.2020	Vidya Jyothi Institute of Technology, Hyderabad	Vidya Jyothi Institute of Technology, Hyderabad
15		Hands on Training in Artificial Intelligence and Optimization technique	National	6	07.12.2020 - 12.12.2020	Vidya Jyothi Institute of Technology, Hyderabad	Vidya Jyothi Institute of Technology, Hyderabad

		applications for Additional lab experiments and mini, major projects for B.Tech Engineering Students					
16		Electrical energy conservation and management in Process industries	National	1	26.12.2020	Sri Sairam Institute of Technology, Chennai	Sri Sairam Institute of Technology, Chennai
17	Dr. S. Priya	Interactive online Teaching using Pedagogical initiatives and online tools	National	1	19.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
18		Electric cars technologies and modern power system	National	6	12.10.2020 - 17.10.2020	Kamaraj College of Engineering and Technology, Madurai	Kamaraj College of Engineering and Technology, Madurai
19		Electric vehicle Evolution, Integration and Challenges	National	6	19.10.2020 - 24.10.2020	Sri Krishna College of Technology, Coimbatore	Sri Krishna College of Technology, Coimbatore
20		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
21		Pedagogical Training on Outcome based Education	National	15	02.11.2020 - 16.11.2020	St.Peter's Engineering college, Hyderabad	St.Peter's Engineering college, Hyderabad
22	Dr. G. Themozhi	Recent advancements and technologies in Electrical Engineering- A Research Perspective	National	6	13.07.2020 - 17.07.2020	Kings College of Engineering	Kings College of Engineering

23		Research aspects in Signal and Image Processing	National	5	27.07.2020 - 31.07.2020	Mohamed Sathak AJ College of Engineering	Mohamed Sathak AJ College of Engineering
24		Consultation Meeting for Nnational Science, Technology and Innovation Policy(STIP) 2020 of Government of India	National	1	12.09.2020	IEEE	IEEE SSIT Madras Section
25		Intractive online Teaching using Pedagogical Initiatives and Online Tools	National	1	19.09.2020	IEEE	IEEE SSIT Madras Section
26		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Martitime Education and Training, Deemed to be University
27		Electric Vehicles and Its Scenario in india	National	3	01.07.2020 - 03.07.2020	BSA Crescent Institute of Science and Technology	BSA Crescent Institute of Science and Technology ,Chennai
28		Abstracting & Indexing - how to get Indexed and how to increse research impact	National	1	09.09.2020	Springer Nature	Springer Nature
29	Dr. Smilee Mathuram	Nano Biophotonics,The Future of Smart Classes using ,Nanomaterials for Photocatalytic application	National	1	16.09.2020	Arignar Anna College (arts and Science)	Arignar Anna College (arts and Science),Krishnagiri
30		Intractive online Teaching using Pedagogical Initiatives and Online Tools	National	1	19.09.2020	Academy of Martitime Education and Training, Deemed to be University	Academy of Martitime Education and Training, Deemed to be

							University
31		Conduct of Continuous Internal Assessment Tests	National	1	22.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
32		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
33	Mr. P. Veerakumar	Sensors Technology	National	5	17.08.2020 - 21.08.2020	AICTE Training and Learning (ATAL) Academy	St. Joseph's Institute of Technology , Chennai
34		Wearable devices	National	5	14.09.2020 - 18.09.2020	AICTE Training and Learning (ATAL) Academy	Kongu Engineering College
35		Smart Grid Automation	National	1	6.10.2020	Vidya Jyothi Institute of Technology, Hyderabad	Vidya Jyothi Institute of Technology , Hyderabad
36		Outcome Based Education	National	1	6.10.2020	Pune Vidyarthi Griha's College of Engineering and Technology, Pune	Pune Vidyarthi Griha's College of Engineering and Technology , Pune
37		Electrical Power Systems, Renewable Energy, Smart Grids and Switch gear protection using NEPLAN Simulation software	National	1	20.10.2020	India Soft Technologies private limited, Pune	India Soft Technologies private limited, Pune

38		Recent trends on challenges in power market with smart grid technology	National	6	02.11.2020 - 07.11.2020	VRSEC, Andrapradesh	
39	Mrs.R. Elavarasi	Recent trends and challenges in smart grid technology	National	5	17.08.2020 - 21.08.2020	Sri Ramakrishna Engineering College, Coimbatore	Sri Ramakrishna Engineering College, Coimbatore
40		DC Microgrid and Control system	National	8 Weeks	Sep-Nov 2020	NPTEL	NPTEL
41		Industrial Automation using PLC/SCADA with IoT	National	5	21.09.2020 - 25.09.2020	VIT, Chennai	VIT, Chennai
42		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
43	Dr.C. Gnanavel	PLC and SCADA for Industrial Automation	National	1	27.07.2020	Nandha Engineering college, Erode	Nandha Engineering college, Erode
44		Design and Development of control Strategies on Electrical power Applications	National	6	07.12.2020 - 12.12.2020	Prasad V.Pollutri Siddhartha Institute of Technology, Kakinada	Prasad V.Pollutri Siddhartha Institute of Technology, Kakinada
45	Ms.G. Jegadeeswari	Electric vehicles and its scenario in india	National	3	01.07.2020 - 03.07.2020	BSA crescent institute of science & technology	BSA crescent institute of science & technology
46		Overview of Issues and Challenges in power sector	National	3	10.07.2020 - 12.07.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
47		Energy access and womens empowerment	National	1	21.07.2020	St.Josephs College of Engineering	St.Josephs College of Engineering

48	Trends in electric vehicles	National	5	20.07.2020 - 24.07.2020	St.Josephs Institute of Technology	St.Josephs Institute of Technology
49	Trends in IOT	National	1	24.07.2020	Sri Eshwar college of Engineering	Sri Eshwar college of Engineering
50	Future scope of Engineering in Global Development	National	5	27.07.2020 - 31.07.2020	Velalar College of Engineering and Technology	Velalar College of Engineering and Technology
51	Artificial Intelligence using MATLAB	National	2	13.08.2020 - 14.08.2020	St.Josephs College of Engineering	St.Josephs College of Engineering
52	Online Teaching and Learning Technologies	National	5	17.08.2020 - 21.08.2020	AICTE Training and Learning (ATAL) Academy	Motilal Nehru National Institute of Technology, Allahabad
53	Integration storage and control in Hybrid Energy system	National	6	17.08.2020 - 22.08.2020	Geethanjalo College of Engineering and Technology, Hyderabad	Geethanjalo College of Engineering and Technology, Hyderabad
54	Insight and Trend in Data Analytics	National	6	21.08.2020 - 26.08.2020	Karpagam College of Engineering, Coimbatore	Karpagam College of Engineering, Coimbatore
55	Blended learning and Flipped Classrooms	National	5	31.08.2020 - 04.09.2020	AICTE Training and Learning (ATAL) Academy	National Institute of Technical Teachers Training and Research, Chandigarh
56	Integration storage and control in Hybrid Energy system	National	6	31.08.2020 - 05.09.2020	Geethanjalo College of Engineering and Technology, Hyderabad	Geethanjalo College of Engineering and Technology, Hyderabad
57	Learning Management system	National	5	21.09.2020 - 25.09.2020	AICTE Training and Learning (ATAL) Academy	National Institute of Technical Teachers Training and Research

58		Rocket Propulsion	National	7	15.10.2020 - 21.10.2020	SRM Institute of Science and Technology	SRM Institute of Science and Technology
59		Recent Advancements in Energy Storage systems for Electric Vehicles	National	2	7.09.2020 - 18.09.2020	SRM Institute of Science and Technology	SRM Institute of Science and Technology
60		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
61		Role of Smart Technology in Maritime Industries	National	6	23.20.2020 - 28.10.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
62		Role of Smart Technology in Maritime Industries	National	6	14.12.2020 - 19.12.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
63	Mr.K. Manikandan	Rocket Propulsion	National	7	15.10.2020 - 21.10.2020	SRM Institute of Science and Technology	SRM Institute of Science and Technology
64	Mrs. R. K. Padmashini	Grid connected and Islanded Microgrid Design using HOMER Pro	National	3	13.07.2020 - 15.07.2020	St.Joseph group of institution	St.Joseph's Institute of Technology , Chennai
65		Automated Testing using Selenium	National	1	28.07.2020	Sree satha Institutions	Sree Satha Institute of Engineering and Technology , Chennai
66		Control systems Engineering	National	7	06.08.2020 - 12.08.2020	Amrita College of Engineering and	Amrita College of Engineering and

						Technology	Technology
67		Upskilling for the Future: Technical Innovations and Research opportunities in Power Engineering	National	5	10.08.2020 - 14.08.2020	BNM Institute of Technology, Bengaluru	BNM Institute of Technology, Bengaluru
68		Blended learning and Flipped Classroom	National	5	14.09.2020 - 18.09.2020	AICTE Training and Learning (ATAL) Academy	Vellore Institute of Technology
69		Control and Automation	National	4	15.12.2020 - 18.12.2020	Indian Institute of Space Science and Technology	Indian Institute of Space Science and Technology
70	Mr. S. Amirtharaj	Combating Loneliness during Covid-19	National	1	04.08.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
71		Effective Online teaching and learning Methodology	National	1	10.08.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
72	Mr. S. Palani Kumar	Interactive online Teaching using Pedagogical initiatives and online tools	National	1	19.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
73		Strategies and Recommendations for the implementation of National Education Policy 2020	National	1	23.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University

74	Mrs. G. Tamil Pavai	Women Empowerment: Engaging in Research on Emerging Technologies	National	1	14.07.2020	St. Joseph's Engineering college	St. Joseph's Engineering college
75		Cyber Security and Opportunities for Autonomous Vehicle	National	1	06.08.2020	St. Joseph's Engineering college	St. Joseph's Engineering college
76		Recent Trends and Challenges in Power Market with smart Grid Technology	National	6	02.11.2020 - 07.12.2020	VRSEC, Andrapradesh	VRSEC, Andrapradesh
77	Mrs. R. Rajasree	BLDC Motor and its Industrial Applications	National	1	26.07.2020	Vellore Institute of Technology, Chennai	Vellore Institute of Technology, Chennai
78		Research Challenges in Power electronics and power system	National	3	05.08.2020 - 07.08.2020	Balaji Institute of Technology and Science, Hyderabad	Balaji Institute of Technology and Science, Hyderabad
79		Mainstreaming cross cutting issues: Environment and Society	National	3	11.08.2020 - 13.08.2020	Sri Vidyanikethan Engineering college, Tirupati	Sri Vidyanikethan Engineering college, Tirupati
80		Research areas in Energy audit and conservation	National	3	24.08.2020 - 26.08.2020	Vellore Institute of Technology, Chennai	Vellore Institute of Technology, Chennai
81		Interactive online Teaching using Pedagogical initiatives and online tools	National	1	19.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
82		Electrical Power Systems, Renewable Energy, Smart Grids and Switch gear protection using NEPLAN Simulation software	National	1	20.10.2020	India Soft Technologies private limited, Pune	India Soft Technologies private limited, Pune

83		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
84		Machine learning applications for power engineers	National	3	19.11.2020 - 21.11.2020	Vellore Institute of Technology, Chennai	Vellore Institute of Technology, Chennai
85		AI based novel power distribution and corrections technologies	National	6	30.11.2020 - 05.12.2020	Sengunthar Engineering College, Tiruchengode	Sengunthar Engineering College, Tiruchengode
86	Mrs. J. Padmapriya	Data Science and Artificial Intelligence	National	5	24.08.2020 - 28.08.2020	Rajalakshmi Institute of Technology, Chennai	Rajalakshmi Institute of Technology, Chennai
87		Cyber Security	National	5	08.09.2020 - 12.09.2020	AICTE Training and Learning (ATAL) Academy	National Institute of Technology, Trichy
88		Entrepreneurship Development for North Eastern States	National	1	19.09.2020	NITTTR, Kolkatta	NITTTR, Kolkatta
89		Interactive online Teaching using Pedagogical initiatives and online tools	National	1	19.09.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
90		Data Science for IoT	National	5	09.10.2020 - 13.10.2020	AICTE Training and Learning (ATAL) Academy	Indian Institute of Information Technology, Allahabad
91		Research challenges and applications of Internet of Things in smart Agriculture	National	6	02.11.2020 - 07.11.2020	Kongunadu College of Engineering and Technology, Trichy	Kongunadu College of Engineering and Technology
92		Ancient Indian Education System	National	2	11.11.2020 - 12.11.2020	NITTTR, Kolkatta	NITTTR, Kolkatta

93		Artificial Intelligence	National	5	23.11.2020 - 27.11.2020	AICTE Training and Learning (ATAL) Academy	Centre for Development of Advanced Computing, Kolkata
94	Mr. R. Karthickmanoj	Robotics	National	5	24.08.2020 - 28.08.2020	AICTE Training and Learning (ATAL) Academy	Government Polytechnic, Harapanhalli
95		Robotics	National	5	02.11.2020 - 06.11.2020	AICTE Training and Learning (ATAL) Academy	Motilal Nehru National Institute of Technology, Allahabad
96		Role of Smart Technology in Maritime Industries	National	6	02.11.2020 - 07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
97		Design Thinking, Critical Thinking and Innovation Thinking	National	1	07.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
98		Recent Emerging Trends in Wireless communication using IoT	National	8	09.11.2020 - 16.11.2020	Vidya Jyothi Institute of Technology, Hyderabad	Vidya Jyothi Institute of Technology, Hyderabad
99		Advance Structure and Semantic Designing of web application	National	5	14.09.2020 - 18.09.2020	Dr. Subash Technical Campus, Junagadh	Dr. Subash Technical Campus, Junagadh
100		Research challenges and applications of Internet of Things in smart Agriculture	National	6	17.11.2020 - 22.11.2020	Kongunadu College of Engineering and Technology, Trichy	Kongunadu College of Engineering and Technology

101	Strategies and Recommendations for the implementation of National Education Policy 2020	National	1	23.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
102	Role of Smart Technology in Maritime Industries	National	6	23.11.2020 - 28.11.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
103	Internet of Things	National	5	14.12.2020 - 18.12.2020	AICTE Training and Learning (ATAL) Academy	Birla Vishvakarma Mahavidyalaya Engineering College
104	Role of Smart Technology in Maritime Industries	National	6	14.12.2020 - 19.12.2020	Academy of Maritime Education and Training, Deemed to be University	Academy of Maritime Education and Training, Deemed to be University
105	Breakthrough Future Technologies- Electronics and Communication Engineering	National	3	16.12.2020 - 18.12.2020	Easwari Engineering College, Chennai	Easwari Engineering College, Chennai

PLACEMENT DETAILS**BATCH: B.E - EEEM & 9 (2016 – 2020)**

S.No	Register Number	Roll Number	Student Name	Company / Higher Studies
1	AEE16001	EE297	ABIRAJ.B	ETO
2	AEE16002	EE298	AVINASH VIJAY	ETO
3	AEE16003	EE299	AZARUTHEEN S	Vik-Sandwik Design India Pvt Ltd
4	AEE16004	EE300	BEER MOHAMED UVAIZ. N	Vik-Sandwik Design India Pvt Ltd
5	AEE16005	EE301	DHARUN.S	ETO
6	AEE16006	EE302	DINESH KUMAR.M	ETO
7	AEE16007	EE303	GANESHBABU K	Albion Engineering India Pvt Ltd
8	AEE16008	EE304	GOKULAKRISHNAN.B	Vik-Sandwik Design India Pvt Ltd
9	AEE16009	EE305	IMMANUEL PETER	Albion Engineering India Pvt Ltd
10	AEE16010	EE306	JOEL ROBINSON	Vik-Sandwik Design India Pvt Ltd
11	AEE16012	EE308	KARTHI. P	Zener Maritime Solutions Pvt Ltd
12	AEE16013	EE309	KRISHNARAJ.S	ETO
13	AEE16014	EE310	MOHAN RAJ R	Vik-Sandwik Design India Pvt Ltd
14	AEE16015	EE311	NAVEEN RAJ. R	ETO
15	AEE16016	EE312	PUNNOOSE BENNY	ETO
16	AEE16019	EE315	SAMUEL MATHEW.G	Zener Maritime Solutions Pvt Ltd
17	AEE16020	EE316	SNAHASISH SAHA	Albion Engineering India Pvt Ltd
18	AEE16022	EE318	SURIYA R	Zener Maritime Solutions Pvt Ltd
19	AEE16023	EE319	VENKATESH S	ETO
20	AEE16024	EE320	VIGNESH.B	ETO
21	AEE16026	EE323	SREERAG SREEKUMAR	Vik-Sandwik Design India Pvt Ltd
22	AEE16027	EE324	PRAVEEN.D	ETO
23	AEE16028L	EE325L	AKASH S	ETO
24	AEE16029L	EE326L	ANITOSH MONDAL	Albion Engineering India Pvt Ltd
25	AEE16030L	EE327L	SANTHOSH KUMAR D	Vik-Sandwik Design India Pvt Ltd
26	AEE16031L	EE328L	VAITHIYANATHAN M S	ETO
27	AEE16032L	EE321L	SRI RAM SURATH KUMAR. V	ETO
28	AEE16033L	EE376L	SURYA. A	ETO

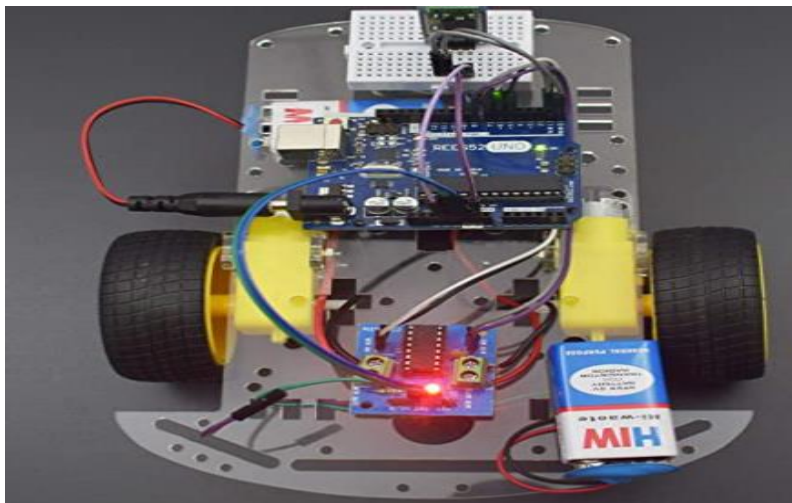
STUDENTS' ARTICLES

BLUETOOTH CONTROLLED CAR

ZUBEN KALYAN / I Year / EEEM

The battery pack for powering driver circuit which I have mentioned in the components section or you could try out some other battery pack, but keep in mind it should deliver between 7-12V and at least 3500mAh. Also, use different battery/battery-packs for powering Arduino and the Motor-Driver module, but ensure they share a common ground. Battery is one of the most important things in this project. Compile the code given below in the Arduino-IDE and hit upload, but before that make sure you have disconnected RX of Arduino from TX of Bluetooth Module (HC-05) and your Android device and HC-05 over Bluetooth.

Open the app and click on Bluetooth-icon and select your device from the list. Just sit back and relax and use the on-screen controls available on the app to control the car/bot. You could also change the schematic and code and add some servos or other actuators to it. But keep in mind as you increase the quantity of actuators, your car/bot would demand more power from the battery/battery-pack.

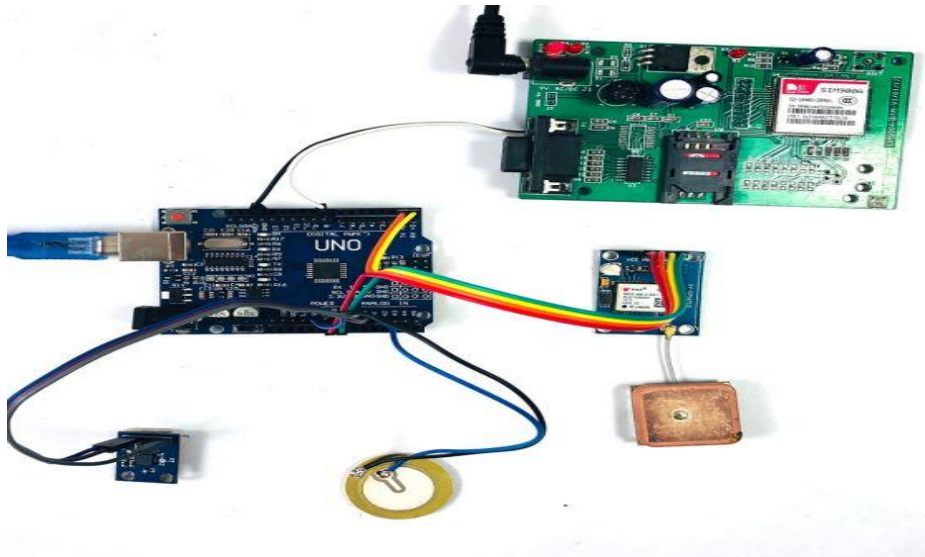


WIRELESS BLACK BOX USING MEMS ACCELEROMETER AND GPS TRACKING FOR ACCIDENTAL MONITORING OF VEHICLES

AAGASH / IV Year / EEEM

This paper is about creating a wireless black box using MEMS accelerator and GPS tracking system for accidental tracking. The system includes a combination of accelerometer, microcontroller unit, GPS device and GSM module. In the event of an accident, the wireless device sends a short message via mobile phone to family members, emergency medical services (EMS) and a GPS system to the nearest

hospital. Gate mechanism and motorcycle speed are used to determine a fall or accident in real time. This paper uses a temperature sensor attached to a Raspberry Pi. With the help of a temperature sensor, we can measure the temperature at which the vehicle exits. This information is sent to family members, the Emergency Medical Service (EMS) and the nearest hospital. The system is compact and easy to install under rider seat. The system has been tested in real world applications using bicycles. The test results show that it can detect linear fall, non-linear fall and normal ride with high accuracy.



SMART HOME AUTOMATION SYSTEM

VOMSI / III Year / EEEM

Home security has been designed to keep safe and secure and the Detection of intruders is done by the various sensors, here the Arduino Uno R3 is used as a microprocessor. The alert will be sent to the owner using GSM900 module when there is an unauthorized entry. The temperature sensor LM35 is used to prevent fire accident by detecting the increase in temperature beyond a certain limit. Passive Infra-Red sensors can detect movement of objects that radiate IR light (like human bodies). The automatic door locking system is done by using 12v solenoid door lock used to allow the visitors. Safety from theft is the most important requirement of home security systems for people. Many people overlook, ignore, and underestimate the necessity for taking appropriate home security measures because it gives us extra piece of mind. Home security systems work on the basic concept of securing entry points into a home with sensors that transmits data to a command center installed in a convenient location somewhere in the home.

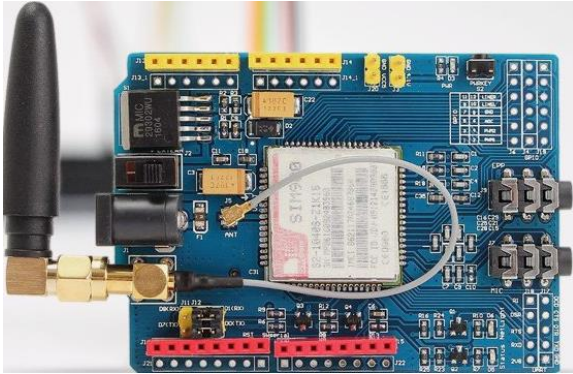


Fig 1: GSM Module



Fig 2: Passive Infra-Red Sensors (PIR)

LANDSLIDE DETECTION AND WARNING SYSTEMS

MANOJ KUMAR / IV Year / EEEM

A landslide is the downslope movement of soil, rock, and organic materials under the effects of gravity and also the landform that results from such movement [1]. Landslides are known also as landslips, slumps or slope failure. This paper is developing and testing of landslide early warning system. The early warning system uses accelerometers as ground movement and tilt-sensing device and a water flow sensor. A microcontroller is used to process the input signal and activate the alarm. An LCD is used to display the acceleration in x, y and z axis. When the soil moved or shifted and rainfall reached 100 mm/day, the alarm rang and signal were sent to the monitoring centre via a telemetry system. Data logging information and GIS spatial data can be monitored remotely as tables and graphics as well as in the form of geographical map with the help of web-GIS interface. The system was tested at Kampung Gerendong, Desa Putat Nutug, Kecamatan Ciseeng, Kabupaten Bogor. This area has 3.15 cumulative score, which mean vulnerable to landslide. The results show that the early warning system worked as planned. Keywords: early warning system; ground movement; landslide; tilt-sensing.

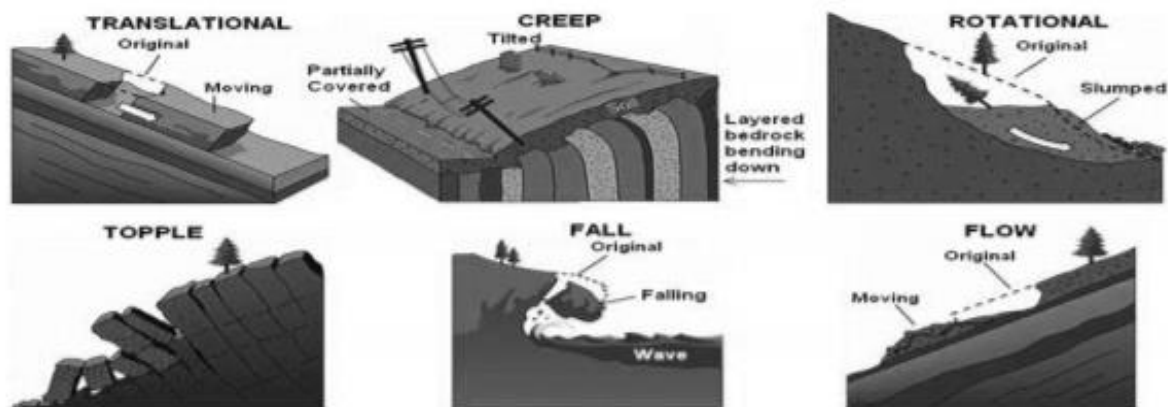
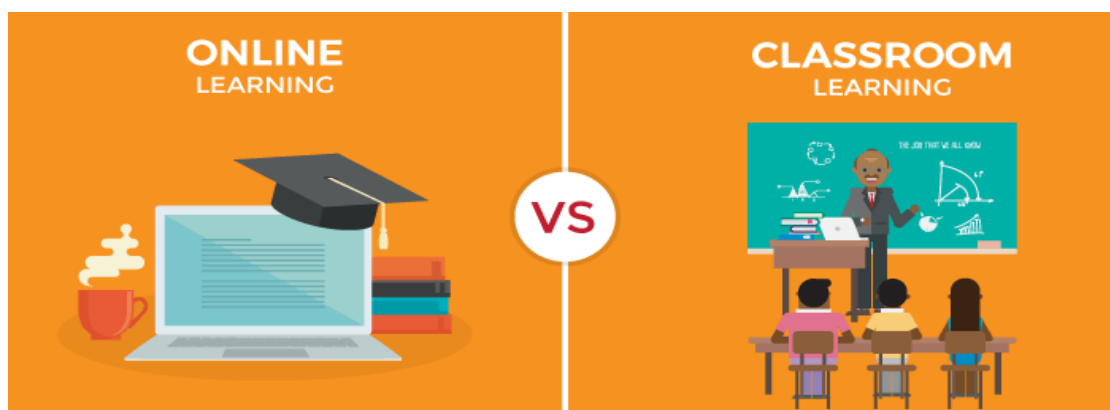


Figure 1. Types of landslides.

E-LEARNING V/S CLASSROOM LEARNING

JAYASURYA / IV Year / EEEM



Traditionally, we have all believed that true learning takes place in the classroom. However, with time, the trend is shifting towards more virtual teaching and learning. This has only been possible with the advent of e-learning through online tutoring portals. While it is true that neither can replace the other, there are certain factors where a comparison of the two will help you understand where learning is more effective.

Most students agree that one factor that affects their learning is the attention they receive from the educators. While it is impossible to state whether the level and quality of attention is better in the classroom or online learning, some generalizations certainly exist. It is a known fact that a conventional classroom has a student-teacher ratio of 25:1 at the minimum. Such a proportion leaves little room for individual attention for each student. Classroom education, therefore, focuses on group attention, where individual doubts and clarifications may take a back seat. E-Learning, on the other hand, powered by online tutoring portals

ensures individual attention to each student by offering personal tutors and one to one learning. Therefore, when it comes to attention, e-learning offers better consideration to the students.

Another factor that impacts the learning of students is the quality of educators. Unless expert tutors or teachers assist students, improvement in grades remains a difficult task. Again, while it would be unfair to generalize, however, it is an established fact that most schools have very limited subject matter experts. This is to say that a school may have an upper limit of 5 expert teachers per subject to help students fix their grades. Online tutoring portals are bridging this gap.

RECYCLING DURING COVID-19

NAMALA SAKET / II Year / EEEM

Recycled materials serve as feedstocks necessary to produce essential supplies including those especially needed during this time such as paper towels, sanitizing wipes, toilet paper, and packaging for a wide range of products including boxes for shipping. Many businesses that would normally generate large amounts of recyclables have limited operations now. Therefore, household recycling is vital to the continued supply of raw materials for U.S. manufacturing sectors.

What Individuals Can Do?

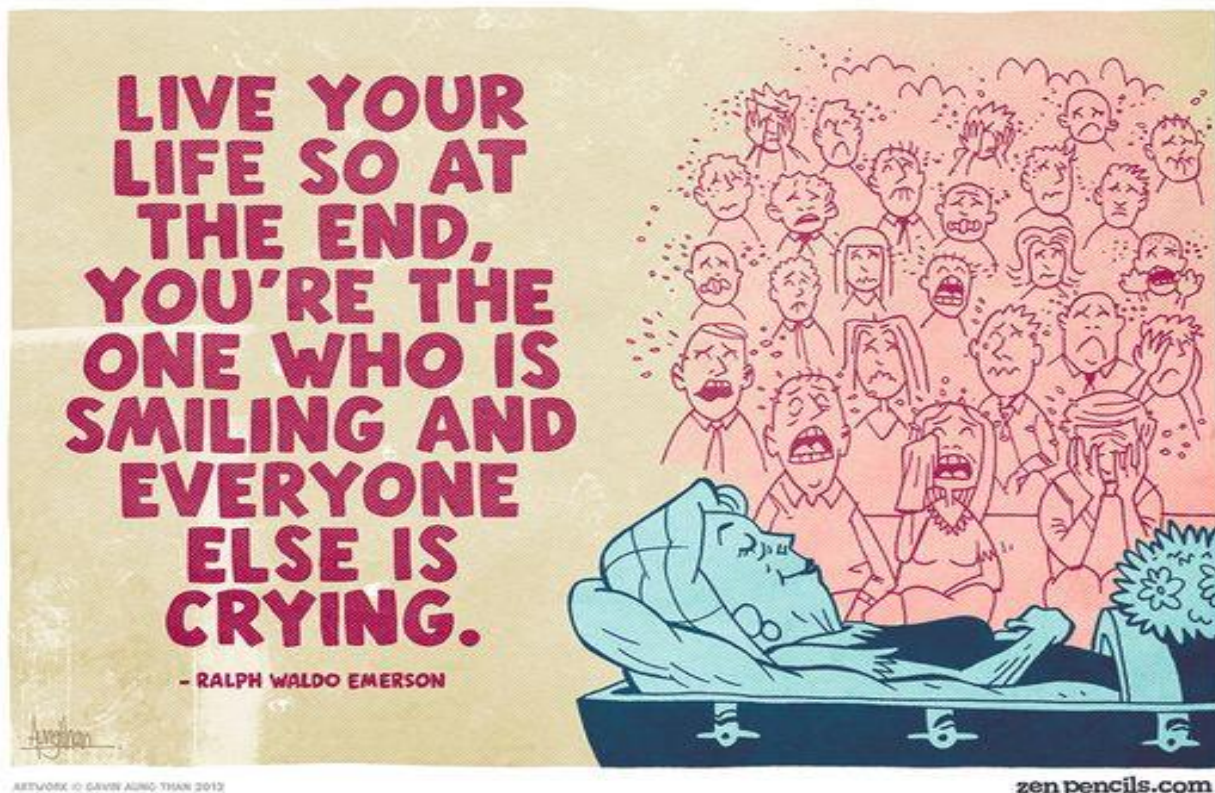
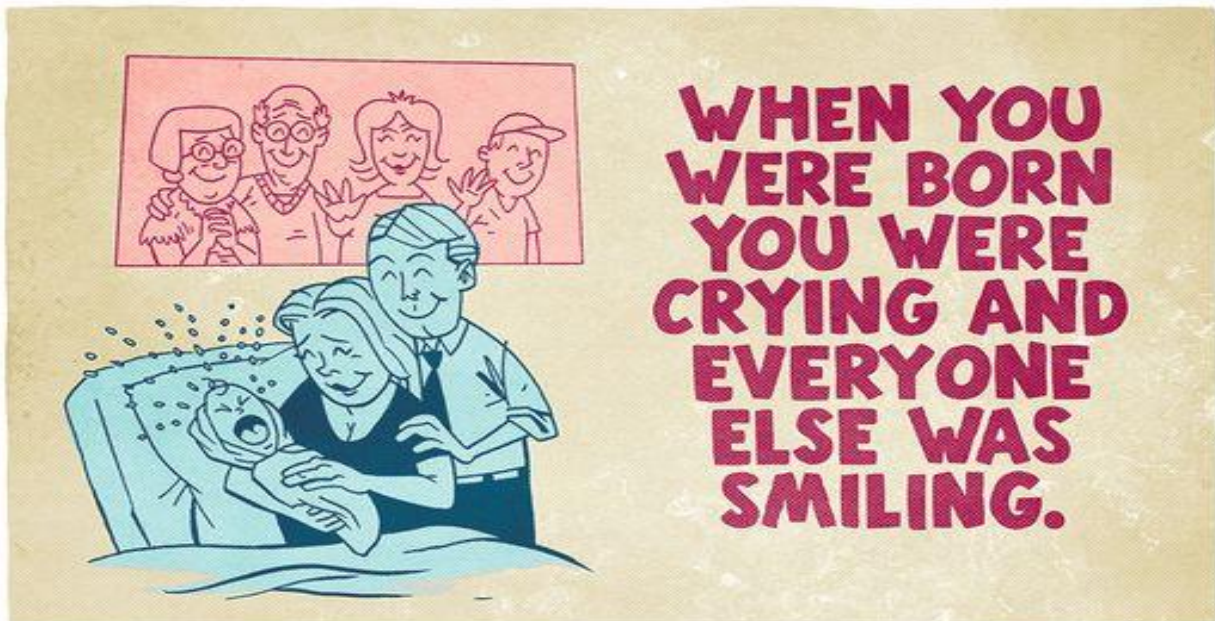
Now is a great time to focus on waste prevention where possible, and when recycling, keep the materials as clean and dry as possible. Follow the guidelines of your local recycling hauler and only put items in your recycling bin that they accept. If your community is not processing recycling due to the materials recovery facility being closed or another reason, consider dropping materials off at a recycling center, while following Center for Disease Control, state and local public health guidelines. Thank your recycling collectors, haulers and sorters—they are providing a vital service during this time!

Tips and Reminders During and After COVID-19

- Keep plastic bags, masks, wipes, and latex gloves out of the recycling bin.
- If someone in your home has COVID-19, treat your recyclables as trash.
- Don't put your recyclables in plastic bags.
- Clean and shake dry recyclables to ensure products get recycled.
- Break down cardboard boxes and put them in the recycling bin whenever possible.
- Put recycling and trash in the appropriate bins, not next to them. Leaving materials next to bins increases risks to sanitation workers and can attract pests.

- Do not put lithium, lithium-ion or spent lead-acid batteries (e.g., car batteries) in your trash or recycling bins. These batteries can contain hazardous materials and can contaminate groundwater or cause fires at recycling facilities. Batteries from electronics and cars can be recycled at specified retail and other locations. You can also check with your city or county to see if they have a household hazardous waste collection program.
- If you are spring cleaning, consider setting aside things (batteries, paints, weed killer, plastic bags, clothing, other donations, etc.) to donate, recycle, or dispose of later when it's safe to bring them to a drop off location or collection event. Follow local guidelines. Many localities are limiting service (e.g., not picking up yard waste or bulk items at this time).
- Return grass clippings back onto your lawn instead of bagging them.



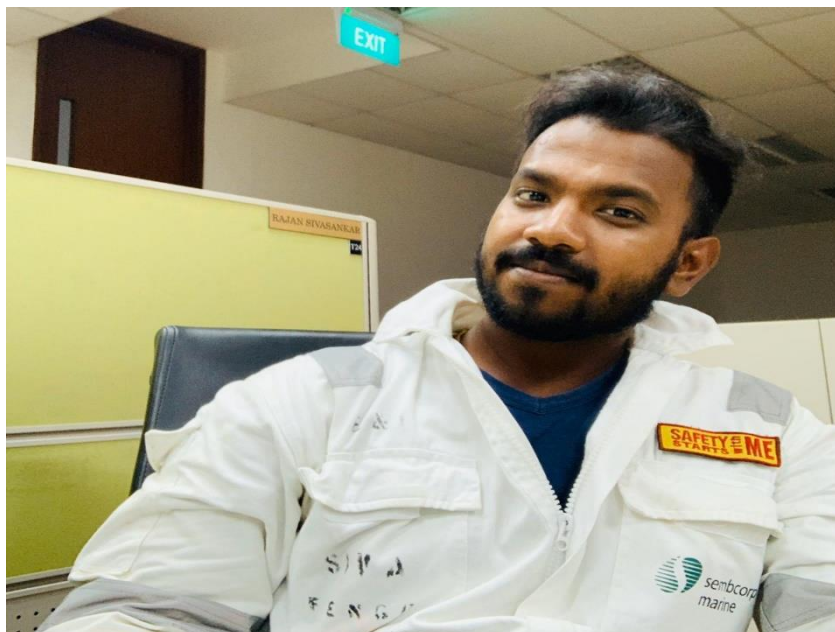
LIFE HACK**S. VIGNESH / IV Year / EEEM**

ALUMNI TESTIMONIALS

Passion and dream are the first motive of a student in their university life. Therefore, I chose AMET University as my choice. There is a lot of golden opportunity to learn the world more than just education. Apart from the education system, the staffs of the University are friendlier in teaching period and taught me to be a discipline mariner. As well all known, maritime education is one of the challenging education field in the list of world ranking. When I'm join as electrical and electronic engineer, I started to become contented with the lesson techniques of the staff. With the techniques and excellent lesson, I luckily joined in campus interview of SEMBCORP MARINE. I'm glad to join in the part of SEMBCORP MARINE with the perfect lessons of AMET UNIVERSITY. Thanks for the wonderful opportunity to share my experience in the path of AMET UNIVERSITY

- Rajan Sivasankar

Engineer
Sembcorp Marine, Singapore



I chose to study B.E.EEE(Marine) & ETO at AMET. Our university is unique, which helps students in not only building their career but also enhances distinctive competencies and skillsets that helped me to grow my professional life in an exponential pace. I can surely see that my future is totally reliant on the career for which I am grateful to the AMET & Placement department. Highly qualified and experienced faculties helped me explore a lot in my area of studies. There is something motivational and special in this environment that boosted my confidence to a great extent that I can experience at my workplace now.

- Gokul Nath. A

Electro Technical Officer

Pacific International Lines



Dr. T Sasilatha, Dean,

**Department of Electrical and Electronics Engineering,
AMET Deemed to be University,**

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ELECTRIKA

“2020 - 2021”

MAGAZINE - EVEN Semester

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AMET DEEMED TO BE UNIVERSITY, CHENNAI - 603112

Editorial

Dear Readers,

I am pleased to know that this issue of AMET university EEE department magazine “Electrika” is launched. The EEE department is an abode of excellence, like other departments in the AMET University. Students are made familiar with the latest theoretical and practical developments in their respective engineering disciplines. I am sure that our students and faculty members would continue to prove mettle and make us proud by their achievements.

Chancellor

Dr. J. Ramachandran

Pro-Chancellor

Dr. Rajesh Ramachandran

Vice-Chancellor

Col. Dr. G. Thiruvassagam

Pro Vice-Chancellor

Dr. N. Manoharan

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CONTENTS

	Page No.
1. Foreword	4
2. About the University	5
3. About the Department	7
4. Newly launched Courses	9
5. Glimpses of the Academic year (2020–21) EVEN Semester (Conference / Workshop / Seminar)	9
6. Students Achievements	18
7. Staff Awards / Recognitions	32
8. Research Projects	33
9. Patents	33
10. Faculty Book Publications	34
11. Faculty Journal Publications	35
12. Faculty Attended Events	41
13. Placements (2017 – 2021 Passed out batch)	46
14. Articles (By Students)	47
15. Alumni Testimonials	61

Foreword



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

It gives me immense pleasure to release the current issue of the technical magazine “ELECTRIKA” for the academic year 2020 – 2021. This is a productive technical material and subsidiary skill developing tool for the students.

Engineering is a great outlet for the imagination the perfect zone for independent thinkers. True engineering education is not just providing ample facilities to the students, it is a platform where hidden talents / imaginations are converted into the real and creative world. It helps to build teamwork and work with all kinds of people inside and outside the field, whether they are designers or architects, doctors or entrepreneurs.

Having said that, I am sure that this current issue will lighten up your spirits not only on the technical frontiers but also provide an insight of co-curricular and extra-curricular activities conducted both at the international and national level as conference and faculty development programmes. Adding to the galore are the value-added seminars and workshops conducted for students at a part of the institute-industry interactions. The edition also enlists student’s achievements and their participation in the intercollegiate conference, seminars, workshops and also in various sports meet and much more. The magazine will aptly revive fond memories of all the achievement to reminisce and to remind upon the future targets.

I am sure the magazine will be informative and resourceful. I applaud the co-ordinators and efforts behind the team in bringing out this issue. I wish them all success!

Contact Number: 91-44-27472804 Extn: 175(Off) , 9444752994 (Mobile)

Email id: deaneeem@ametuniv.ac.in

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 centres 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, harbour 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.

QUALITY POLICY

AMET is committed to provide the highest quality in education and be the most preferred institution for pursuing marine and marine-related courses.

This will be achieved by a consistent focus on:

- Providing a conducive, vibrant, progressive and enriching learning atmosphere.
- Teaching excellence and research output.
- Global outlook and engaging with the world through learning, teaching and research.
- Providing competitive advantage in gaining employment for further academic opportunities.
- Maintaining excellent links with commerce and industry in both national and international.
- Complying with all applicable requirements and continually improving the effectiveness of the Quality Management System.

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
- M.E - Power Systems – 2 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.

When we tackle obstacles, we find hidden reserves of courage and resilience we did not know we had. And it is only when we are faced with failure do, we realise that these resources were always there within us. We only need to find them and move on with our lives

- Dr. A. P. J. ABDUL KALAM

NEWLY LAUNCHED COURSES

VALUE ADDED COURSES (VAC)

S. No.	Name of the Course	Year / Semester	Beneficiary
1	Sensors and Transducers	II / III	24
2	Industrial Automation	III / V	24

GLIMPSES OF THE YEAR

(Even Semester)

INTERNATIONAL VIRTUAL CONFERENCE:

Two Days International Virtual Conference on “Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)” was held on 17.06.2021 – 18.06.2021 through Online Mode (Zoom) in collaboration with University of Leicester, United Kingdom and University of Maryland, Eastern Shore, USA in association with Institution of Engineers (India) Student’s Chapter (IEI) and IEEE Student Branch.

The session was started with invocation. Our honourable Chancellor **Dr.J.Ramachandran** delivered the Opportunities and challenges faced by the Maritime sector in the presidential address and Vice chancellor, **Col.Dr.G.Thiruvassagam**, delivered the technical and digital advancements in Marine Automation Industries in the inaugural address.

Dr.Gurdeep S Hura Professor, University of Maryland Eastern Shore, USA, the chief guest of ICIRMEEE21 has provided an inspiring speech about autonomous ships in shipping Industries. He also said that the faculty and students could improve their knowledge by taking up online courses like NPTEL, SWAYAM etc.

Dr. Karl Ho Director of Academic Computing, The University of Texas at Dallas (Dalus), USA, the guest of honour who gave thought provoking speech by emphasizing the significance of technology in this generation.

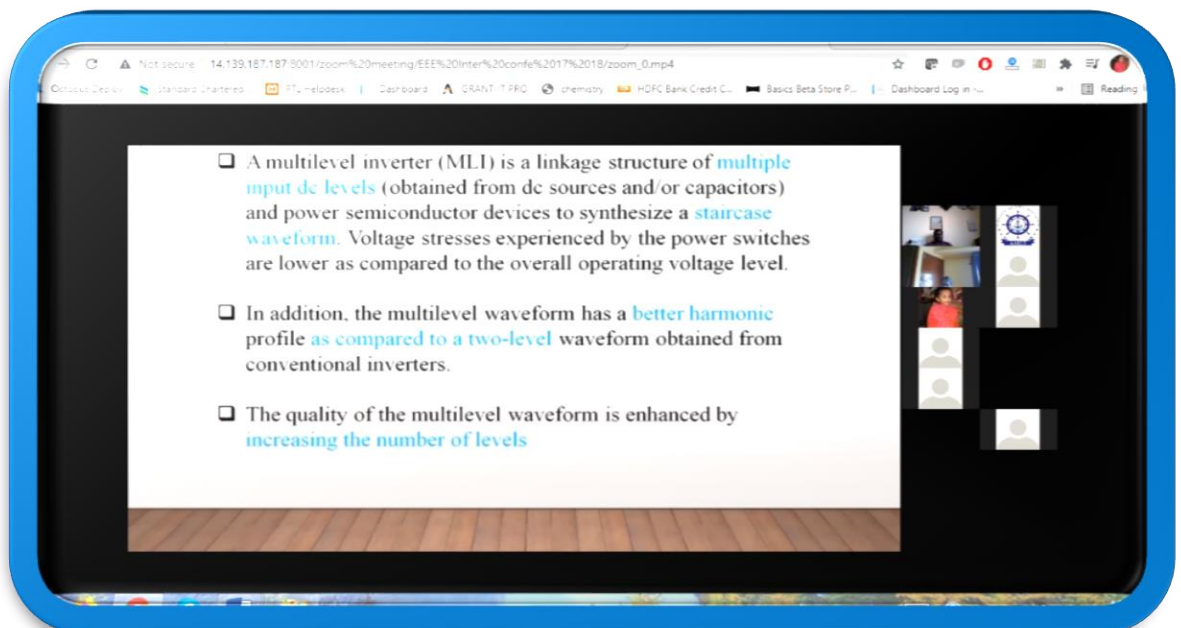
We have received more than 200 papers from Academicians, Researchers and UG / PG Students. Out of this, 160 papers got shortlisted for proceedings. In the international Conference ICIRMEEE 2021, around 160 Papers were presented by the participants in Track-1 to Track-8. More than 300 representatives and more than 100 colleges and universities across the world participating in this ceremony.



Provide a conducive environment for the participants to share experiences in Engineering and Technology fields. Enables triggering minds among the parties involved. Provide opportunities to form partnerships among research participants. Expanding the field of Engineering and Technology at the global level. It aims at providing a premier interdisciplinary platform for researchers, practitioners and educators to

present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Marine Electrical and Electronics Engineering.

A conference is generally understood as a meeting of several people to discuss a particular topic. An academic conference is a gathering of scientists or academicians, where research findings are presented or a workshop is conducted. A business conference is held for people working in the same company or industry. For students and researchers, academic conferences help to make research on a particular subject easier. They provide access to various research activities related to a particular subject with current findings and developments anticipated from them.



WORKSHOPS AND SEMINARS CONDUCTED

1. The Department organized One day Workshop on “**Design and Development of Bipedal Robots**” conducted on 10.03.2021 through Virtual Mode.



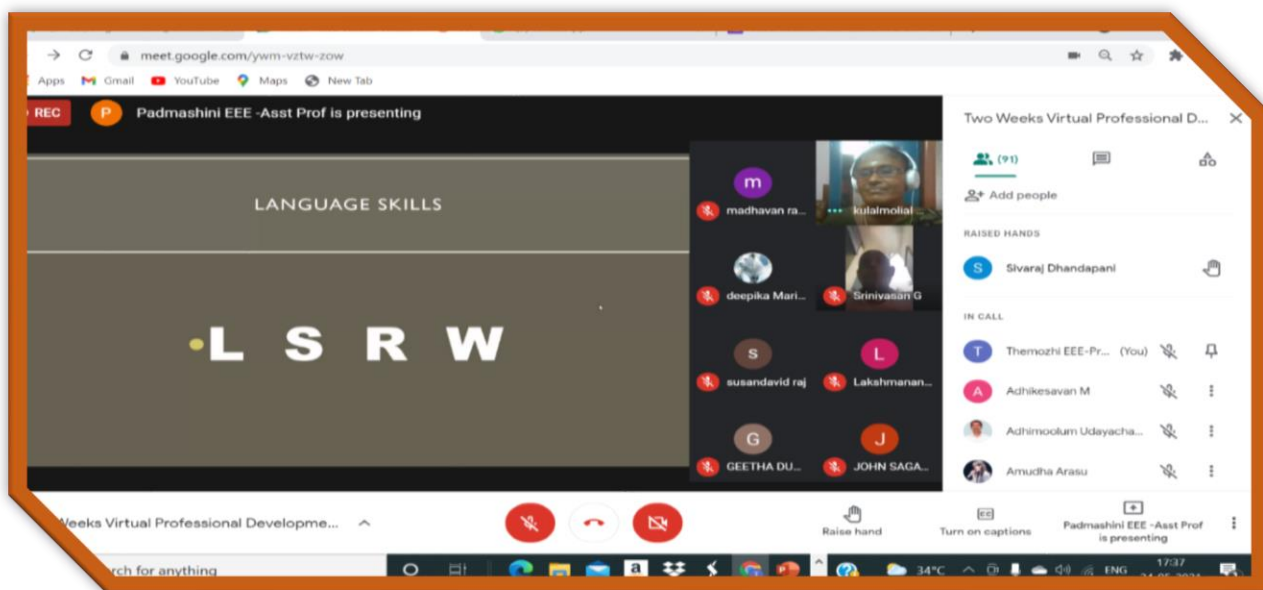
2. The Department organized “**Alumni Meet**” on 26th February 2021 at 10.00AM through Offline Mode at Room No:S-11 (Dean Room).



3. Department organized One day National Seminar on “**Trends in Electric Vehicles – Challenges and Opportunities**” in collaboration with TVS Training & Services, Chennai on 22nd May 2021 @ 9.00 – 4.00 pm through Virtual Mode (Zoom).



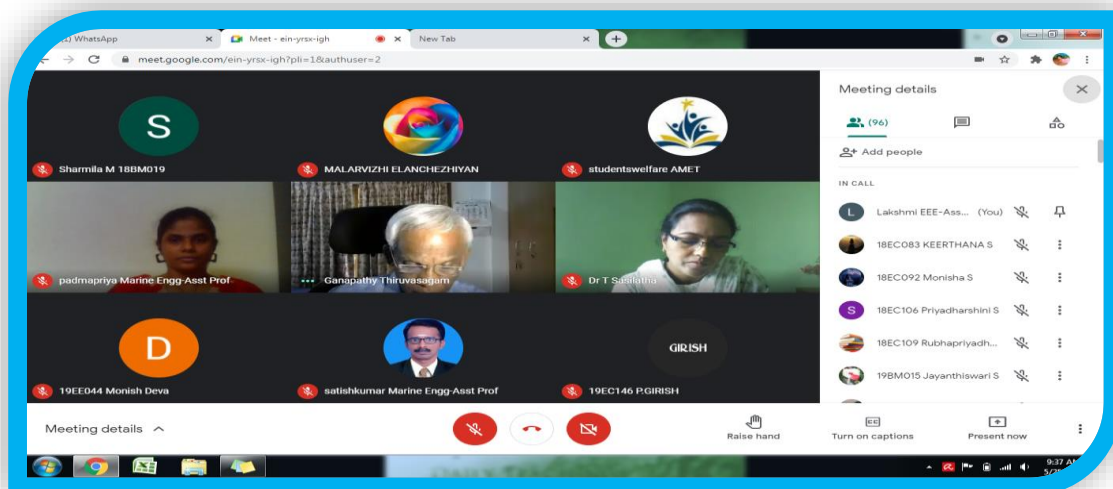
4. Department of EEE organized Two weeks Professional Development Training Programme on “**Skill Upgradation**” for Non-Teaching and Technical Staffs through Virtual Mode from 24.05.2021 – 04.06.2021 @ 5.00 – 7.00 pm.



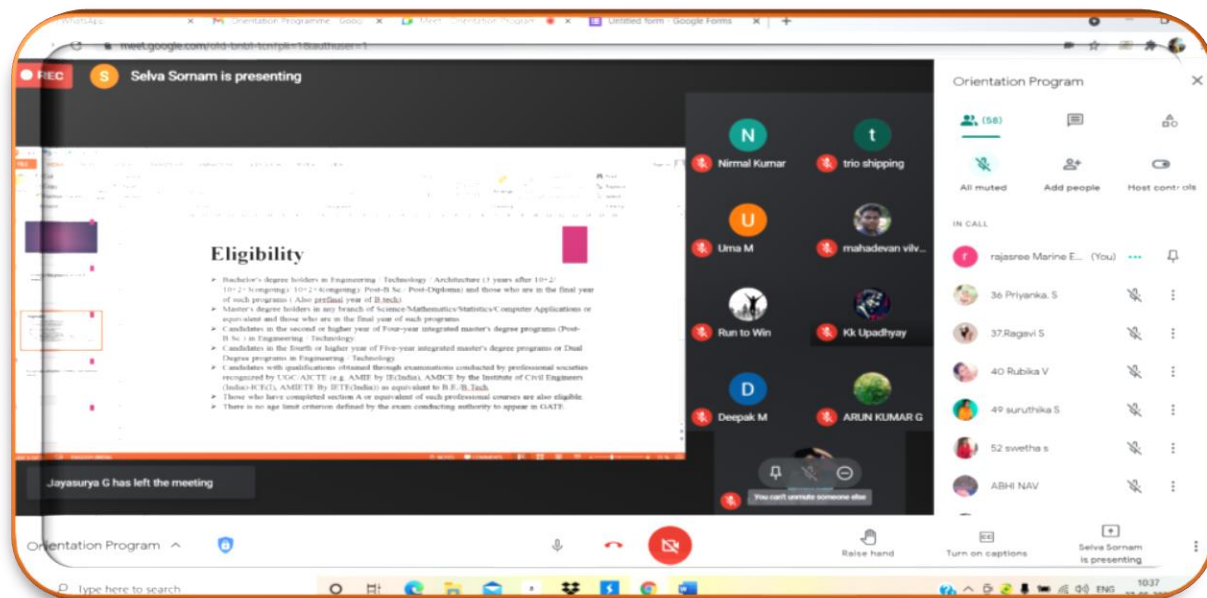
5. The Department organized One day Workshop on “**Global Maritime Opportunities and Challenges in the New Decade**” on 18.05.2021 @ 10.00 – 12.00 pm through Google Meet.



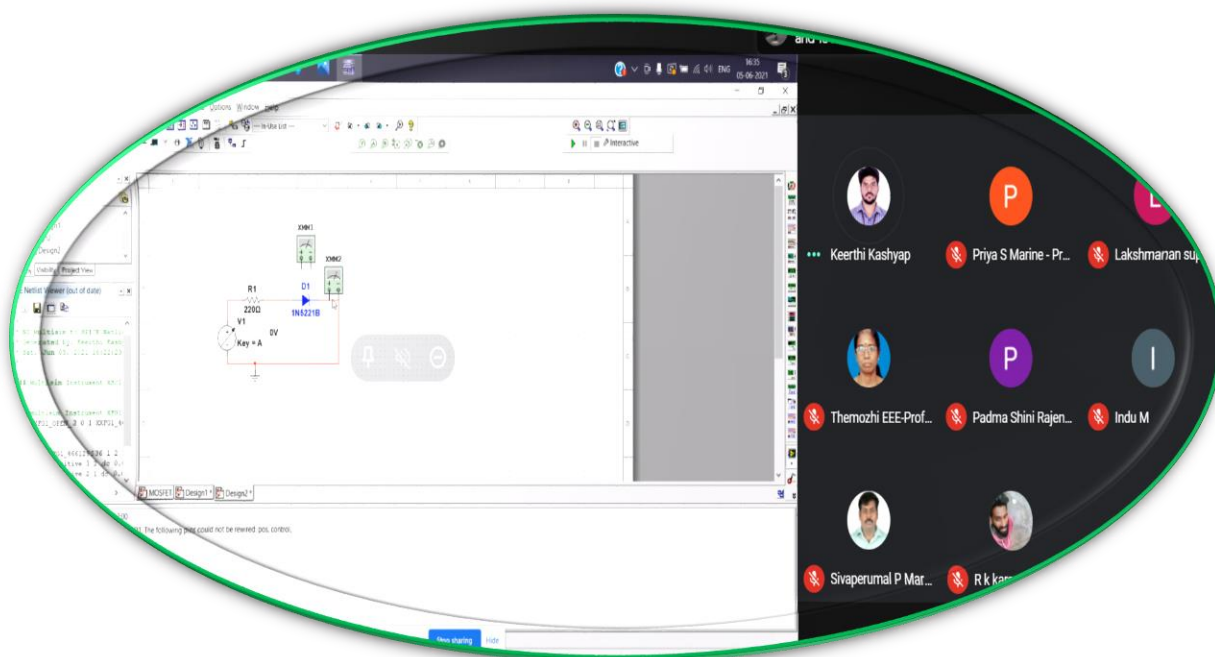
6. The Department organized One day Workshop on “**Intellectual Property Rights Regime and its Impact**” in collaboration with Tamil Nadu State Council for Science and Technology (TNSCST) Govt. of India, Chennai on 25th May 2021 through Virtual Mode (Zoom) @ 9.30 – 4.00 pm.



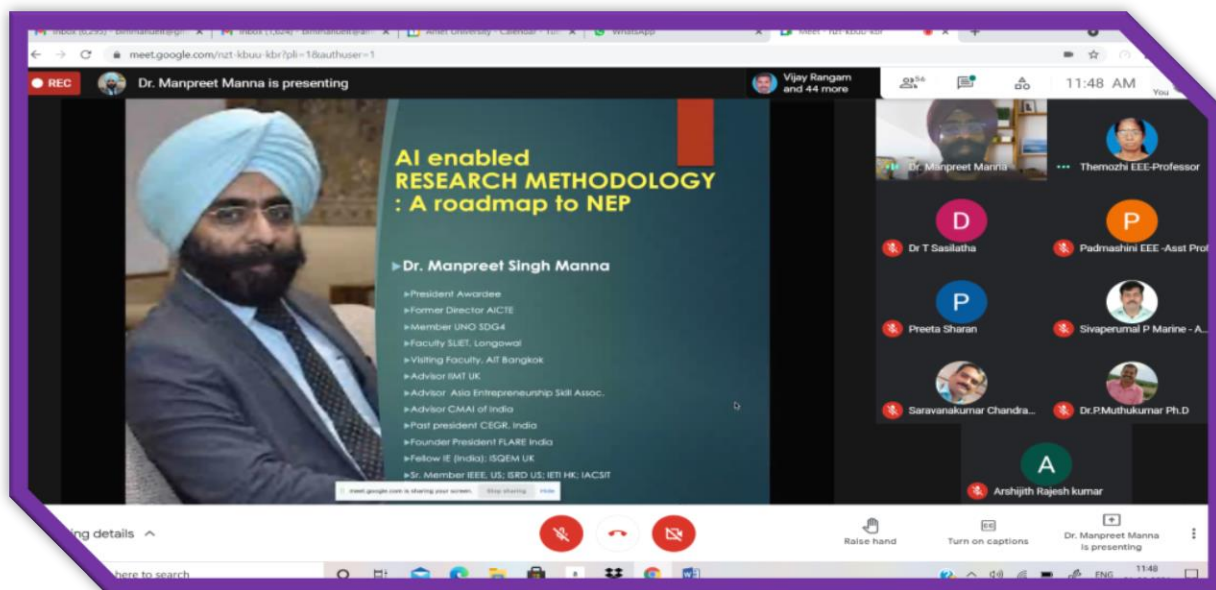
7. The Department organized One day Orientation Programme on “**Gate Preparation Strategy**” on 27th May 2021 @ 10.00 – 11.30 am through Google Meet.



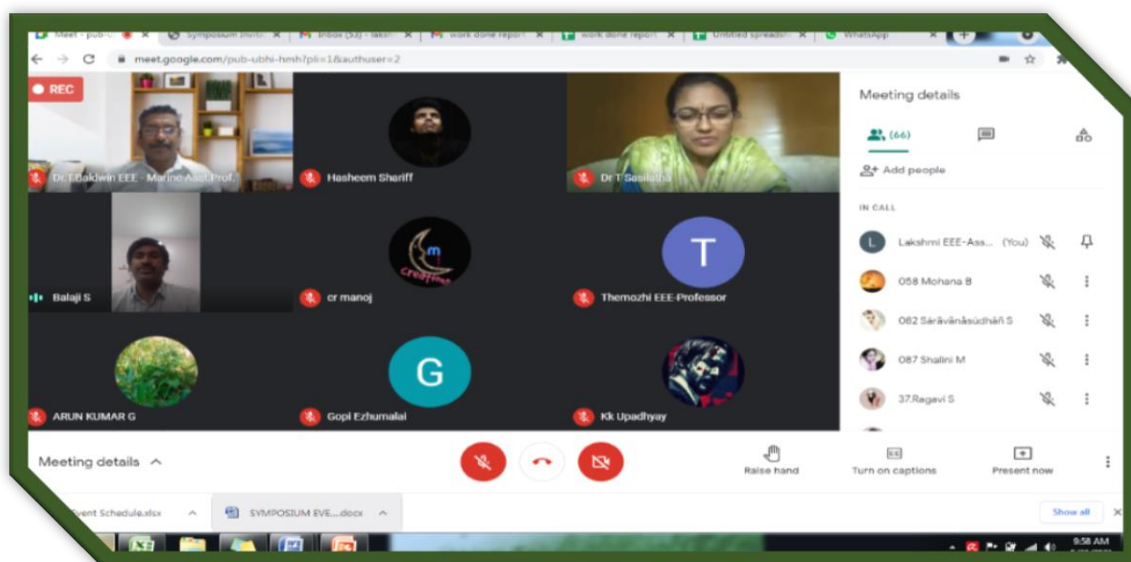
8. Department organized Two day's Workshop on “**Modelling and Simulation of Power Electronic Equipment's using Multisim**” through Google Meet @ 10.00 – 12.00 pm on 04.06.2021 & 05.06.2021.



9. The Department organized Two day's workshop on “**Research Methodology**” through Virtual Mode on 01.06.2021 – 02.06.2021 @ 3.30 – 4.30 pm.

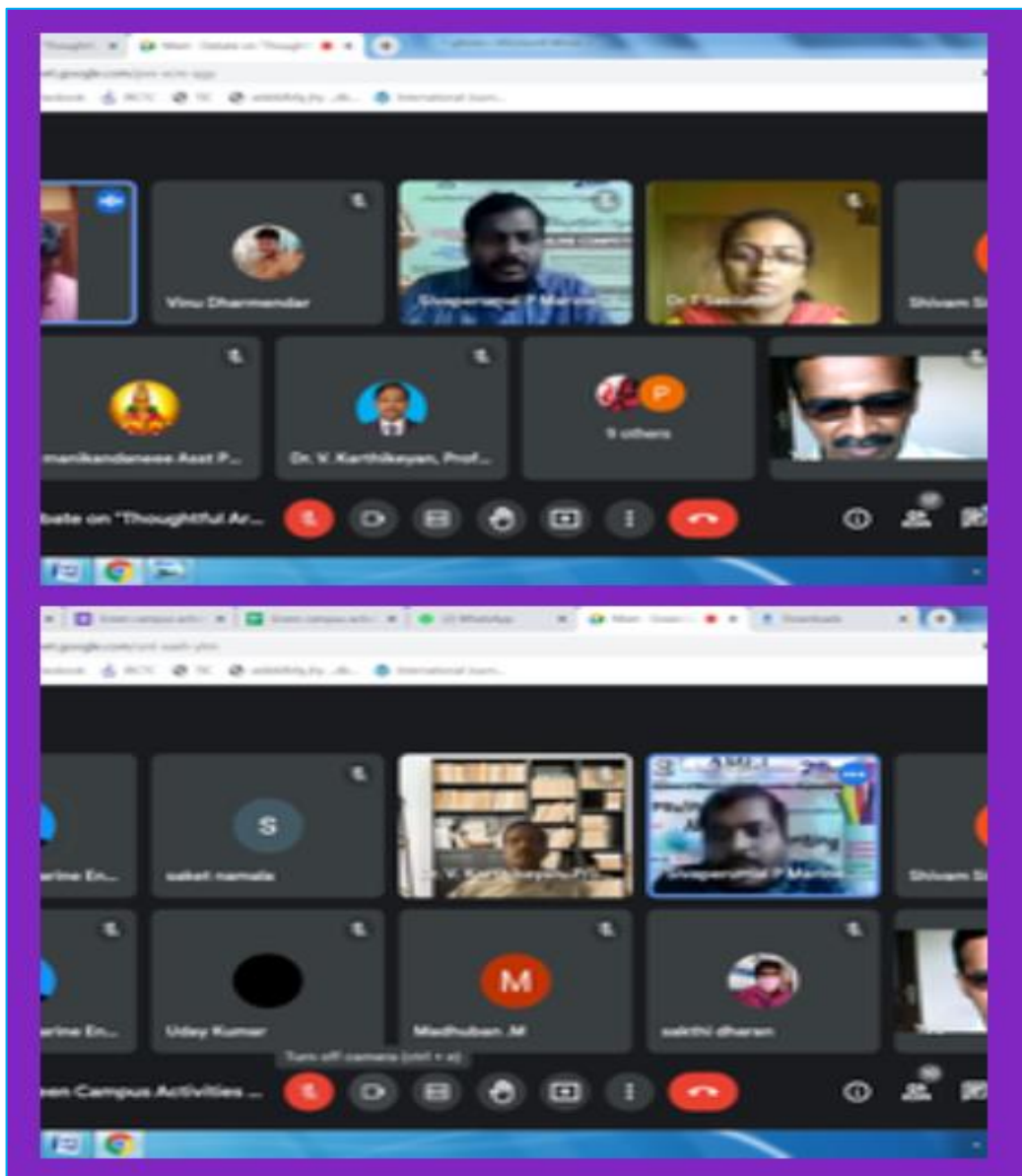


10. Conducted Cultural Fest “**CALIDA FEST 2K21**” on 21st May 2021 through Virtual Meet.
11. Organized One Day National Level Symposium (**ELYTRICO – 2k21**) on 20th May 2021 through Virtual Mode.



12. Conducted One Day National Level Debate Competition on “**Thoughtful Arguments**” on July 8th 2021 organized by Energy Club of AMET through Virtual Mode.

13. Organized One Day National Level “**Drawing and Slogan Competition**” on 09.07.2021 through Virtual Mode.



STUDENTS ACHIEVEMENTS

Projects Published/ Awards Received

S.No	Name of the students	Name of the Supervisor	Title of the Paper	Name of the Journal	Volume/ Issue No.
1	Joel R Rodrigues Da Costa Mestre	Dr. V. Karthikeyan	Remote Wireless Charging for Electric Vehicles	Journal of Huazhong University of Science and Technology	Volume 50, Issue 05, May 2021
2	Nirmal kumar B	Dr. T. Sasilatha	Advanced AI and Gesture based Vessel Motion Control and Accident-Avoidance Systems	International Journal of Research in Electronics and Computer Engineering (IJRECE)	Volume 9, Issue 2, 07.05.2021
3	Manoj Kumar R	Mr. P. Veerakumar	Landslide Detection and Warning System using Arduino	International Journal of all Research Education & Scientific Methods (IJARESM)	Volume 9, Issue 5, Impact factor: 7.429, ISSN no: 2455-6211, May 2021
	Yogesh Kumar A				
	Maheswaran A				
	Vinnarasi V				
4	Pradeep M	Mrs. Padmapriya	Wireless Black Box Using MEMS Accelerometer and GPS Tracking for Accidental Monitoring of Vehicles Using Artificial Intelligence	International Journal of all Research Education & Scientific Methods (IJARESM)	Volume 9, Issue 5, Impact factor: 7.429, May 2021

Projects Presented/Published in National/ International Conferences

S.No	Name of the Students	Title of the Paper	Name of the Conference	Venue	Date
1	Venkatesan K	Solar Powered Quazi Z Source Network to Estimate Energy Management and Electric Propulsion	Third National Conference on Innovative Solutions in Electrical Engineering Science (NCISEES'21)	Sri Sai Ram Institute of Technology, Chennai	21.04.2021
	Udhayakumar A				
	Jaya Surya G				
2	Duraipandi A	An IOT Based Energy Meter for Energy Conservation	Third National Conference on Innovative Solutions in Electrical Engineering Science (NCISEES'21)	Sri Sai Ram Institute of Technology, Chennai	21.04.2021
	Adharsh P				
	Veerapathiran				
	Balaganesh G				
3	Santhosh B	SCADA Based System for Controlling and Monitoring Boiler in Ship	Third National Conference on Innovative Solutions in Electrical Engineering Science (NCISEES'21)	Sri Sai Ram Institute of Technology, Chennai	21.04.2021
	Sridhar B				
	Rudran V				
	Mohammed Najeem				
4	Manivannan D S	Man Overboard Tracker Based on a Multi-Sensor with RSSI Wireless Technology	Third National Conference on Innovative Solutions in Electrical Engineering Science (NCISEES'21)	Sri Sai Ram Institute of Technology, Chennai	21.04.2021
	Hemanth Raj R				
	Karthick R				
	Naveen P				
5	Dhanasekar P	Power Quality Improvement and Speed Control of Switched Reluctance Motor using Fuzzy Logic Controller for Electric Vehicle Applications	International Conference on Sustainable Innovation in Science and Technology – 2021 (ICSIST-2021)	G H RAISONI University, Madhya Pradesh	26.02.2021 & 27.02.2021
	Manoj C K				

Student's participation in National / International Conference

S.No	Name	Title	Name of the Conference	Event place
1	Manoj Kumar R	AI Based Image Processing in Plant Stress Identification	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Vinnarasi V			
	Pratik Kumar Gupta			
	Maheshwaran A			
2	Joel R Rodrigues Da Costa Mestre	Remote Wireless Charging for Electric Vehicle	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Hasheem Sheriff I			
	Mohamed Yaser N			
3	Adarsh P	An IOT based Energy meter for Energy Conservation	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Balaganesh			
	Duraipandi A			
	Veerpathiran M C			
4	Purushothaman N	Multilevel Inverter for Future Vehicle Application	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Hariharan N			
	Naveen B			
	Ezhilarasan R			
5	Manivannan D S	Thermoelectric Power Generation using Waste-Heat Energy from Peltier and Seebeck Module	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
6	Vignesh S	Performance Investigation of Cascaded Multilevel Inverter Fed Brushless DC Motor Drive	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Dinesh R			
	Dhanasekar P			
	Manoj C K			
7	Sangeetha M	A Novel Method of Designing Multifunctional Electrical Vehicle	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Siva P			
	Vinay Ramkumar			

8	B Kirubadurai	Artificial Neural Network (ANN) Based Torque Ripple Suppression and Speed Control of 8/6 Switched Reluctance Motor	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
9	Vignesh S	A Fuzzy Logic Controller Based SRM with Torque Ripple Suppression for EV Applications	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Dinesh R			
	Dhanasekar P			
	Manoj C K			
10	B Hemamalini	Power Factor Improvement Using Landsman Converter in BLDC Motor	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
11	R Priyanka	Optimized DC Link Voltage Control for D-STATCOM Power Module in Power Quality Issues Mitigation	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
12	Vinay Ramkumar	Controlling Appliances by Design and Development of a Module for Communication by Light Fidelity	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Siva P			
	Sangeetha M			
13	Siva P	Framing Flexible Transmission System for Distribution Network	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
14	Santhosh B	Scada Based System for Controlling and Monitoring Boiler in Ship	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai
	Sridhar B			
	Rudran V			
	Mohamed Nazeem			
15	M Indu	Design of Transformerless PV Inverter for Renewable Energy System	International Conference on Innovation and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021)	AMET Deemed to be University, Chennai

Student's participation in Workshop/Seminar

S. No	Name of the Student	Title of the Event	Host Institute
1	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
2	Hasheem Sheriff I	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
3	Manoj C K	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
4	Mohammed Najeem N	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
5	Dinesh R	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
6	Dhanasekar P	One Day Seminar (Master Class on EV Design Using MATLAB)	Pantech Prolabs India Pvt Ltd, Chennai
7	Karthick R	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
8	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
9	Dhanasekar P	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
10	Manivannan D S	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
11	Nirmal Kumar B	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
12	Hemanth Raj R	One Day Seminar (Master Class Machine Learning)	Pantech Prolabs India Pvt Ltd, Chennai
13	Joel R Rodrigues Da Costa Mestre	One Day Seminar (MATLAB Master Class)	Pantech Prolabs India Pvt Ltd, Chennai
14	Pradeep M	One Day Seminar (MATLAB Master Class)	Pantech Prolabs India Pvt Ltd, Chennai
15	Aagash G	One Day Seminar (MATLAB Master Class)	Pantech Prolabs India Pvt Ltd, Chennai
16	Vinnarasi V	One Day Seminar (MATLAB Master Class)	Pantech Prolabs India Pvt Ltd, Chennai

17	Hasheem Sheriff I	One Day Seminar (MATLAB Master Class)	Pantech Prolabs India Pvt Ltd, Chennai
18	D S Manivannan	National Level Workshop (Motors used for EV Applications – Design Aspects)	Meenakshi Sundararajan Engineering College, Chennai
19	R Hemanth Raj	National Level Workshop (Motors used for EV Applications – Design Aspects)	Meenakshi Sundararajan Engineering College, Chennai
20	B Nirmal Kumar	National Level Workshop (Motors used for EV Applications – Design Aspects)	Meenakshi Sundararajan Engineering College, Chennai
21	M Pradeep	National Level Workshop (Motors used for EV Applications – Design Aspects)	Meenakshi Sundararajan Engineering College, Chennai
22	Manivannan D S	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
23	Vinnarasi V	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
24	Balaji M	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
25	Hasheem Sheriff I	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
26	Sridhar	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
27	Vinu Dharmendhar	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
28	Amuthan A	National Level Workshop (Blockchain Technologies)	AMET Deemed to be University, Chennai
29	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
30	Manoj C K	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
31	Maheswaran A	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
32	Tamilselvan D	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
33	Balaji M	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
34	Vengadeshwara Rao S	One Day Seminar (Global opportunities and Challenges in the New Decade)	AMET Deemed to be University, Chennai
35	Nirmal Kumar B	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai

36	Madhuban M	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
37	Vinay Ramkumar	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
38	Joel R Rodrigues Da Costa Mestre	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
39	Indumathi R	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
40	Sangeetha M	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
41	M Pradeep	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
42	Manivannan D S	National Seminar (Trends in Electric Vehicles-Challenges and Opportunities)	AMET Deemed to be University, Chennai
43	Joel R Rodrigues Da Costa Mestre	One Day Workshop (CCNA – A journey to Telecom Network)	Skill Lync, Chennai
44	Pradeep M	One Day Workshop (CCNA – A journey to Telecom Network)	Skill Lync, Chennai
45	Manivannan D S	One Day Workshop (CCNA – A journey to Telecom Network)	Skill Lync, Chennai
46	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Design of Linear and wavelet denoising techniques to increase productivity in Aquaculture)	Skill Lync, Chennai
47	Joel R Rodrigues Da Costa Mestre	One Day Workshop (DevOps – New Gen Technology)	Skill Lync, Chennai
48	Pratik Kumar Gupta	One Day Workshop (DevOps – New Gen Technology)	Skill Lync, Chennai
49	Veerapathiran M C	One Day Workshop (DevOps – New Gen Technology)	Skill Lync, Chennai
50	Amuthan A	One Day Workshop (DevOps – New Gen Technology)	Skill Lync, Chennai
51	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Embedded and real time systems)	Skill Lync, Chennai
52	Akash P Santhosh	One Day Workshop (Embedded and real time systems)	Skill Lync, Chennai
53	Vinu Dharmendhar	One Day Workshop (Embedded and real time systems)	Skill Lync, Chennai
54	Joel R Rodrigues	One Day Workshop (Embedded System	Skill Lync, Chennai

	Da Costa Mestre	device driver)	
55	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Introduction of Electrical Power System Network)	Skill Lync, Chennai
56	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Introduction of Firmware Development)	Skill Lync, Chennai
57	Joel R Rodrigues Da Costa Mestre	One Day Workshop (FPGA design and Verification)	Skill Lync, Chennai
58	Viknesh S	One Day Workshop (FPGA design and Verification)	Skill Lync, Chennai
59	Sridhar	One Day Workshop (FPGA design and Verification)	Skill Lync, Chennai
60	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Introduction to Automotive NVH)	Skill Lync, Chennai
61	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Introduction to MongoDB – A No SQL Database)	Skill Lync, Chennai
62	Manoj V	One Day Workshop (Introduction to MongoDB – A No SQL Database)	Skill Lync, Chennai
63	Uday Kumar	One Day Workshop (Introduction to MongoDB – A No SQL Database)	Skill Lync, Chennai
64	Madhuban M	One Day Workshop (Introduction to MongoDB – A No SQL Database)	Skill Lync, Chennai
65	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Introduction to Transmission Systems and Utilization)	Skill Lync, Chennai
66	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Lexicon Based Sentiment Analysis)	Skill Lync, Chennai
67	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Lidar Sensor and Data Processing)	Skill Lync, Chennai
68	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Python script to analyze log files)	Skill Lync, Chennai
69	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Structural systems in automotive sector)	Skill Lync, Chennai
70	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Thermal systems – Electric Machines)	Skill Lync, Chennai
71	Nithish P	One Day Workshop (Thermal systems – Electric Machines)	Skill Lync, Chennai
72	Pradeep Kumar R	One Day Workshop (Thermal systems – Electric Machines)	Skill Lync, Chennai

73	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Advanced Automotive Seating Systems)	Skill Lync, Chennai
74	Manivannan D S	One Day Workshop (Advanced Automotive Seating Systems)	Skill Lync, Chennai
75	Santhosh B	One Day Workshop (Advanced Automotive Seating Systems)	Skill Lync, Chennai
76	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Wind Energy- State of the Art and future Scope)	Skill Lync, Chennai
77	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Antenna Design and testing for 5G)	Skill Lync, Chennai
78	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Automotive Plastic Design)	Skill Lync, Chennai
79	Joel R Rodrigues Da Costa Mestre	One Day Workshop (Battery Storage Technologies and its Applications)	Skill Lync, Chennai
80	Sudarshan K	One Day Workshop (Battery Storage Technologies and its Applications)	Skill Lync, Chennai
81	Santhosh B	One Day Workshop (Battery Storage Technologies and its Applications)	Skill Lync, Chennai
82	Vignesh K	One Day Workshop (Battery Storage Technologies and its Applications)	Skill Lync, Chennai
83	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
84	Dhanasekar P	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
85	Manoj C K	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
86	Rudran V	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
87	Viknesh S	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
88	Surya Prasad A	One Day Seminar (Cisco CCNA Labs Options)	Bit Degree Pvt Ltd, Chennai
89	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
90	Sridhar	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai

91	Yogesh Kumar A	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
92	Manoj Kumar B	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
93	Dhanasekar P	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
94	Balamurugan K	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
95	Vinnarasi V	One Day Seminar (Introduction to Blockchain: Quick Guide Exploring Blockchain)	Bit Degree Pvt Ltd, Chennai
96	Joel R Rodrigues Da Costa Mestre	One Day Seminar (Introduction to SAN and NAS Storage)	Bit Degree Pvt Ltd, Chennai
97	Joel R Rodrigues Da Costa Mestre	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
98	Udhayakumar A	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
99	Zuben Kalyan	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
100	Gokulraj R	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
101	Akash P Santhosh	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
102	Pradeep Kumar R	National Level Two Day's Seminar (Research Methodology)	AMET Deemed to be University, Chennai
103	Pradeep M	Two Days Workshop (Modelling and Simulation of Power Electronic Equipment's using Multisim)	AMET Deemed to be University, Chennai
104	Manivannan D S	Two Days Workshop (Modelling and Simulation of Power Electronic Equipment's using Multisim)	AMET Deemed to be University, Chennai
105	Joel R Rodrigues Da Costa Mestre	Two Days Workshop (Modelling and Simulation of Power Electronic Equipment's using Multisim)	AMET Deemed to be University, Chennai
106	Zuben Kalyan	Two Days Workshop (Modelling and Simulation of Power Electronic	AMET Deemed to be University, Chennai

		Equipment's using Multisim)	
107	Joel R Rodrigues Da Costa Mestre	One day Seminar (User Awareness about National Digital Library of India)	AMET Deemed to be University, Chennai

Student's participation in Technical Symposium

S. No	Name of the Student	Prize/ Participation	Title	Event place
1	Zuben Kalyan	Won 2 nd prize in Project Presentation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
2	Aagash G	Won 2 nd prize in Debugging of Arduino Programming	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
3	Jayasurya	Won 1 st prize in short film	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
4	Aagash G	Won 2 nd prize in short film	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
5	Surya Prasad	Won 1 st prize in games	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
6	Manoj C K	Won 1 st prize in poster design contest	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
7	Jayasurya	Won 2 nd prize in poster design contest	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
8	Vignesh K	2 nd prize in Debugging of Arduino Programming	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
9	Rudran	Participation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
10	Abhilash R	Participation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
11	Akash P	Participation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
12	Joel R Rodrigues Da Costa Mestre	Participation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai
13	Hasheem Sheriff I	Participation	Technical Symposium "ELYTRICO 2K21"	AMET Deemed to be University, Chennai

14	Balaji M	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
15	Krishnakant Upadhyay	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
16	Arun P	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
17	Naresh S	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
18	Subham jha	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
19	Adarsh P, Duraipandi, Veerapathiran, Balaganesh	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
20	Karthick R	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
21	Amuthan A	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
22	Balamurugan K	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai
23	Vinay Ramkumar	Participation	Technical Symposium “ELYTRICO 2K21”	AMET Deemed to be University, Chennai

Student's participation in Innovative Contest Competition

S. No	Name of the Student	Prize/ Participation	Title	Event place
1	Zuben Kalyan	Won 2 nd prize in Innovative Contest	Students Innovative Idea Competition 2021	Vetbiotics & Riddhi Group of Companies, Maharashtra
2	Manivannan D S	Participation	Students Innovative Idea Competition 2021	Vetbiotics & Riddhi Group of Companies, Maharashtra
3	Hemanth Raj R	Participation	Students Innovative Idea Competition 2021	Vetbiotics & Riddhi Group of Companies, Maharashtra

Student's participation in Cultural Programme

S. No	Name of the Student	Prize/ Participation	Title	Event place
1	Jayasurya G	1 st Prize / Solo Singing	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
2	Vinu Dharmendar P	2 nd Prize / Solo Singing	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
3	Aagash G	1 st Prize / Solo dancing	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
4	Vinnarasi V	2 nd Prize / Solo dancing	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
5	Vinnarasi V	1 st Prize / Short Movies / Troll Video	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
6	Aagash G	2 nd Prize / Short Movies / Troll Video	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
7	Vinu Dharmendar P	1 st Prize / Troll Memes	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
8	Amuthan A	2 nd Prize / Troll Memes	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
9	Jana S	Participation / Troll Memes	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
10	Nithish P	Participation / Troll Memes	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
11	Vinu Dharmendar P	1 st Prize / Adzap	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
12	Aagash G	2 nd Prize / Adzap	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
13	Jayasurya G	1 st Prize / Online Storytelling	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
14	Gokulraj R	2 nd Prize / Online Storytelling	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
15	Vinay Ramkumar	1 st Prize / Live Poetry	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
16	Jayasurya G	2 nd Prize / Live Poetry	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
17	Aagash G	Participation / Live Poetry	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
18	Dharshini	Participation / Live Poetry	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
19	Dhanasekar	Participation / Live Poetry	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
20	Aagash G	1 st Prize / Standup	CALIDA FEST 2K21	AMET Deemed to be

		Comedy		University, Chennai
21	Jayasurya G	2 nd Prize / Standup Comedy	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
22	Veerapathiran M C	1 st Prize / Variety Show (Mimicry)	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
23	Jayasurya G	2 nd Prize / Variety Show (Mimicry)	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
24	Aagash G	Participation / Variety Show (Mimicry)	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
25	Aagash G	1 st Prize / Paintings	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
26	Jayasurya G	2 nd Prize / Paintings	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
27	R.K.Karan	Participation / Paintings	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
28	Pradeep M	1 st Prize / Paparazzo (Photography)	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
29	Nirmal Kumar B	2 nd Prize / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
30	Aagash G	Participation / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
31	Mukesh Kumar	Participation / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
32	Amuthan A	Participation / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
33	Arun Kumar G	Participation / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai
34	Jayasurya G	Participation / Paparazzo	CALIDA FEST 2K21	AMET Deemed to be University, Chennai

STAFF AWARDS / RECOGNITION

Name of full-time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
Dr.T.Sasilatha	Professor & Head	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Ms. G. Jegadeeswari	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Mr. P. Veerakumar	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Dr. D. Lakshmi	Associate Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
	Associate Professor	Appreciation received for Key note Speaker, World Book of Records, ESN PUBLICATIONS
Dr.S Priya	Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Mr.R.Karthick Manoj	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Ms.J.Padmapriya	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Ms.R.Rajasree	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Ms.G.TamilPavai	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.
Mr. S.Satish Kumar	Assistant Professor	Honour & Recognition for Maximum authors contributing for a Book on COVID 19 and its impact, World Book of Records, ESN Publications.

RESEARCH PROJECTS

S. No	Project Title	Funding Agency	Amount	Principal Investigator	Duration	Year of Sanction
1	Marine Frequency Converter Based Renewable Energy System in Onboard Ships	AICTE – Research Proposal Scheme	Rs.12,65,000	PI: Dr. T. Sasilatha Co-PI: Dr. P. Shanthi	3 Years	2018-2019
2	Solar Still Using Nano Phase Change Materials	TNSCST – S&T Project Under DST/PRG scheme	Rs.4,30,000	PI: Dr. T. Sasilatha Co-PI: Dr. V. Karthikeyan Mrs. R. Elavarasi	2 Years	2019-2020
3	MSME-Business Incubator (HI/BI)	MSME, Delhi, Govt. of India.	Rs.3,50,00,000	Dr. T. Sasilatha	5 Years	2019-2020
4	Skill and Personality Development Centre for SC/ST students	All India Council for Technical Education - SPDP scheme	Rs.17,48,000	PI: Dr. T. Sasilatha Co-PI: Mr. P. Veerakumar	3 Years	2019-2020

PATENTS

Topic	Author Name	CBR Number / Patent Number	Date of Publication
Electric Hybrid power source for electric vehicles using weightless internal combustion	B.Balaji, G.Agilan, D.Lakshmi, G.Leela prasad	2021102319	02.05.2021

BOOK PUBLICATIONS

Name of the Book/chapter	Author Details	Details of Publications	Year
Energy and Power (World Book of Records)	Dr.T.Sasilatha Dr.S.Priya Ms. G. Jegadeeswari Mr. P. Veerakumar Dr. D. Lakshmi Mrs. G. Tamil Pavai Mrs. R. Rajasree Mrs. Padmapriya Mr. Karthick Manoj Mr.Satish Kumar	ESN Publications ISBN: 978-81-947019-0-3	Feb 2021
AI Enabled Surveillance System for Initial Screening of Covid'19 Patients	Mr.R.Karthick Manoj Dr.T.Sasilatha	ESN Publications ISBN: 978-81-947019-5-8	Feb 2021
Role Of Data Communication During Corona Virus Pandemic	Mrs.J.Padmapriya Dr.T.Sasilatha	ESN Publications ISBN: 978-81-947019-5-8	Feb 2021
Phase Disposition PWM Based Multi-Level Inverter with Reduced Number of Switches	Dr. V. Karthikeyan	Print ISBN: 978-93-90888- 66-5, eBook ISBN: 978-93- 90888-71-9	May 2021
Sensorless Control of Switched Reluctance Motor by Current Gradient Method	Dr. V. Karthikeyan	ISBN: 978-93-90956-62-3	May 2021
Recent Challenges and the Impact of Smart Technology in Shipping Industries	Mrs.G.Jegadeeswari	ISBN: 978-93-90956-62-3	June 2021

JOURNAL PUBLICATIONS

S. No	Name of the Faculty	Title of the Article	Name of the Journal	Volume and Issue No	ISSN No / DOI	Year
1	Dr.V.Karthikeyan G.Giftson Samuel	Improved Prediction of Wind Speed using machine Learning	IOP Confernece : materials Science and Enginnering	---	1757-899X	Jan 2021
2	Dr.V.Karthikeyan G.Giftson Samuel	Grid Connected Bidirectional Converter Based EMS System with model predictive control	IOP Confernece : materials Science and Enginnering	---	1757-899X	Feb 2021
3	Mrs. R. K. Padmashini	Characterisation of Big Data Research in Applications of Health Care	Test Engineering and Management		ISBN.NO .0193-4120	2021
4	Mrs. R. K. Padmashini	Level and Phase shift modulation for nine level inverters	International Journal of Advanced science and Technology		ISSN 2005-4238 IJAST	2021
5	J.Padmapriya Dr.T.Sasilatha R.Karthickmanoj	Voice Extraction from Background Noise using Filter Bank Analysis for Voice Communication Applications	IEEE Conference		10.1109/ICICV50876.2021.9388453	Mar 2021
6	R.Karthickmanoj Dr.T.Sasilatha J.Padmapriya	Performance Evaluation of DWT based Multiple Input Multiple Output OFDM for Internet Telephony Applications	IEEE Conference		10.1109/ICICV50876.2021.9388597	Mar 2021
7	R.Karthickmanoj Dr.T.Sasilatha J.Padmapriya	Automated machine learning based plant stress detection system	Materials Today: Proceedings Elsesiver -In Press		10.1016/j.matpr.2021.03.651	Mar 2021

8	R. Dorothy, Dr.T. Sasilatha S. Rajendran	Corrosion resistance of mild steel (hull plate) in sea water in the presence of a coating of an oil extract of plant materials	Int. J. Corros. Scale Inhib., 2021,		10.17675/2305-6894-2021-10-2-13	May 2021
9	R.Karthickmanoj Dr.T.Sasilatha J.Padmapriya	A novel pixel replacement-based segmentation and double feature extraction techniques for efficient classification of plant leaf diseases	Materials Today: Proceedings Elsesiver -In Press		10.1016/j.matpr.2021.04.416	May 2021
10	R.Karthickmanoj Dr.T.Sasilatha J.Padmapriya	Compressive Imaging Systems for Video Surveillance Applications	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021
11	J.Padmapriya Dr.T.Sasilatha R.Karthickmanoj	An Efficient Segmentation and Feature Extraction Strategy for disease detection using Random Forest Classifier	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021

12	J.Padmapriya Dr.T.Sasilatha R.Karthickmanoj	Sclera Recognition using Bayesian Approach	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021
13	R.Karthickmanoj Dr.T.Sasilatha J.Padmapriya	An Efficient Colour based Segmentation and Feature Extraction Framework for Leaf Disease Detection in Smart Agriculture	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021
14	S. Satish Kumar	Intelligent hybrid technique for cascaded multilevel inverter based three phase grid-tie hybrid power system: a WPSNN technique	Journal of Ambient Intelligence and Humanized Computing		1868-513702	Jan 2021
15	Dr. S. Priya	Predictive Speed and Flux Control Based Sensorless Sliding Mode Observer for Induction Motor Used in Electric Car	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021

16	Dr. S. Priya	Analysis of 7 Level and 9 level Neutral Point multi-level inverter for Direct torque control of 3 phase Induction motor	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-93-85434-85-3	June 2021
17	Dr. S. Priya	The Evolution of Indian Power: Market: Chronological Approach	Proceedings of International Virtual Conference on Distruptive Technologies in Maritime Sector: Industry 4.0 (ICDTMS 2021), 28th -29th June 2021, Chennai, India		ISBN: 978-93-85434-83-9	June 2021
18	Dr. S. Priya	Power Quality Enhancement in Micro Grid	Proceedings of International Virtual Conference on Distruptive Technologies in Maritime Sector: Industry 4.0 (ICDTMS 2021), 28th -29th June 2021, Chennai, India		ISBN: 978-93-85434-83-9	June 2021
19	Mrs. G. Jegadeeswari	Analysis of Knocking Characteristic in Dual Fuel Engine - the Effects on Diethyl Ether	INCAS BULLETIN	Vol:13, Issue No: 2	(P) ISSN 2066-8201, (E) ISSN 2247-4528	June 2021

20	Mrs. G. Jegadeeswari	Implementation of Power Factor Correction Boost Converter fed SRM for EV Applications	International Conference on Sustainable Innovation in Science & Technology (ICSIST'21) at G H Raisonni University, Saikheda, MP			
21	Dr. P. Sivaperumal	Fuzzy – Discrete wavelet Transform aided Switched Coupled Inductor based Interline Dynamic Voltage Resistor for Mitigating Power Quality Issues	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-81-947019-5-8	
22	Mrs. R. Rajasree	Compensation of Voltages and Currents using Unified Power Quality Conditioner (UPQC)	Proceedings of 4th International E-Conference on Recent Advancement in Mechanical Engineering and Technology (ICRAMET 2021), 24th -25th June 2021, Chennai, India			
23	Mrs. R. Rajasree	Modelling of Unified Power Quality Conditioner for the compensation of Voltage and Current	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-81-947019-5-8	

24	Mrs. R. Rajasree	SCADA based System for Controlling and Monitoring Boiler in Ship	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-81-947019-5-8	
25	Mrs. G. Tamil Pavai	Man Overboard Tracker Based on a Multi-Sensor with RSSI Wireless Technology	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-81-947019-5-8	
26	Mrs. G. Tamil Pavai	Thermoelectric Power Generation using Waste heat Energy from Peltier and Seabeck module	Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2021), 17th -18th June 2021, Chennai, India		ISBN: 978-81-947019-5-8	
27	Mrs. G. Tamil Pavai	Man Overboard Tracker Based on a Multi-Sensor with RSSI Wireless Technology	Innovative Solutions in Electrical Engineering on 21st April 2021			

FACULTY ATTENDED EVENTS

S.NO	FACULTY NAME	NAME OF THE EVENT	NATIONAL / INTERNATIONAL	DURATION	PERIOD	SPONSORED BY	ORGANISATION NAME
1	Dr. V. Karthikeyan	Electric Vehicle	National	5 days	1-5 Feb 2021	AICTE	Manipal University, Jaipur
2		Electric Mobility: Development, Integration and Design Challenges	National	6 days	22-27 Mar 2021	AICTE	Jerusalem College of Engineering
3		Solar PV System Design Using IoT	National	6 days		AICTE-ISTE	Sri Venkateswara College of Engineering,
4		Modeling and Simulation of Power Electronic Equipments using Multisim	National	2 days	04/06/2021 & 05/06/2021	AMET	AMET Deemed to be University, Chennai.
5		Intellectual Property Rights Regime and its Impact	National	1 day			AMET Deemed to be University, Chennai
6		Trends in Electrical Vehicle - Challenges and Opportunities	National	1 day			AMET Deemed to be University, Chennai
7	Dr. S. Priya	Modeling and Simulation of Power Electronic Equipments using Multisim	National	2 days	04/06/2021 & 05/06/2021	AMET	AMET Deemed to be University, Chennai.
8		Intellectual Property Rights Regime and its Impact	National	1 day	25.5.2021	AMET	AMET Deemed to be University, Chennai.
9		Trends in Electrical Vehicle - Challenges and Opportunities	National	1 day	22/05/2021	AMET	AMET Deemed to be University, Chennai.
10	Dr. T. Baldwin Immanuel	Future Perspective of Semiconductor Devices	National	5 days	21.06.2021 to 25.06.2021	ATAL-AICTE	Kalasalingam Academy of Research and Education
11		Modeling and Simulation of Power Electronic Equipments using Multisim	National	2 days	04/06/2021 & 05/06/2021	AMET	AMET Deemed to be University, Chennai
12		Blended Learning and Flipped Classroom	National	5 days	18.01.2021 to 22.01.2021	ATAL-AICTE	Vellore Institute of Technology
13	Mr. P. Veerakumar	Modern trends in power electronics and their application	National	5 days	28.06.2021 to 02.07.2021		Vidya Jyothi inst of Tech
14		Pedagogy and Research Methods	National	2 Weeks	24.05.2021 to 06.06.2021		AMET Deemed to be University
15	Dr. C. Gnanavel	National Webinar on Career Opportunities in EV Industry	National	1 Day	12.7.2021		Mohamed Sathak

							A J College Of Engineering
16		Intellectual Property Rights Regime and its Impact	National	1 Day	25.5.2021		AMET Deemed to be University
17		INTERNAL QUALITY ASSURANCE CELL	National	1 Day	6.7.2021		AMET Deemed to be University
18		Power Electronics for Electric Vehicles - Control and Challenges	National	5 Days	6.7.2021 to 10.7.2021		Adi Shankara Institute of Engineering and Technology
19	Mrs. R. Elavarasi	How to be an effective webinar presenter	National	1 day	06-01-21		Arjun College of Technology
20		Future Trends in Shipping	National	5 days	01/06/21 to 05/06/21		AMET Deemed to be University, Chennai
21		Intellectual Property rights & Projects to Patents	National	1 day	12-06-21		Arjun College of Technology
22		Yoga for Covid-19 Care	National	1 day	19/06/21		Mohammed Sathak A.J .College of Engineering
23		Recent Trends in Hybrid Vehicles	National	1 day	23/01/21		Arasu Engineering College, Kumbakonam
24		Cyber Security & Ethical Hacking	National	1 day	11-07-21		VIT-Chennai
25		Research Methodology	National	2 days	1/6/22 - 2/6/21		AMET Deemed to be University, Chennai
26		Blockchain Technologies	National	1 day	26/05/21		AMET Deemed to be University, Chennai
27	Mr. K. Manikandan	Blended Learning and Flipped Classroom	National	5 days	18.01.2021 to 22.01.2021	ATAL-AICTE	Vellore Institute of Technology
28		Internet of Things	National	5 days	2.07.2021- 6.07-2021	ATAL-AICTE	Graphic Era (Deemed to be University).
29		INTERNAL QUALITY ASSURANCE CELL	National	1 day	6.7.2021		AMET Deemed to be University
30	Mrs. R. Rajasree	Blended Learning and Flipped Classroom	National	5 days	18.01.2021 - 22.01.2021	ATAL-AICTE	Vellore Institute of Technology, Chennai
31		Robotics and Automation	National	15 days	16.06.2021 - 30.06.2021	ATAL-AICTE	Jamia Millia Islamia, New Chennai
32		Research Methodology	National	3 days	02.06.2021 - 04.06.2021		Annai Vailankanni College of Engineering, Kanyakumari
33		Motors Used for EV Applications Design Aspects	National	1 day	05.06.2021		Meenakshi Sundararajan Engineering College, Chennai

34		Energy Swaraj: The Essence of Sustainability	National	1 day	18.05.2021		Mandsaur University, Mandsaur
35		PCB Designing and its Applications	National	1 day	02.06.2021		Pantech E Learning Pvt Ltd
36	Mrs. G. Tamil Pavai	Robotics and Automation	National	2 weeks	16-06-2021 to 30-06-2021	AICTE	Jamia Millia Islamia, New Delhi
37		Blended Teaching Techniques	National	7 days	25-01-2021 to 07-02-2021	AICTE	Vel Tech Multi Tech
38		Finite Element Analysis on Electric Motors and Electric Vehicles	National	8 days	19-05-2021 to 27-05-2021		SRM Institute of Science and Technology
39		Motor used for EV application - Design Aspects	National	1 day	05-06-2021		AMET Deemed to be University, Chennai
40		Research Methodology	National	2 days	01-06-2021 to 02-06-2021		AMET Deemed to be University, Chennai
41		Intellectual Property Rights Regime and its Impact	National	1 day	25-05-2021		AMET Deemed to be University, Chennai
42		Fundamentals of Arduino and its Application	National	1 day	21-05-2021		St.Pious X Degree and PG College for Women
43		Robotic Vision	National	2 days	24-05-2021 to 25-05-2021		St.Joseph's College of Engineering
44		Role of Electrical Engineers in Space Agency	National	3 days	14-05-2021 to 16-05-2021		St.Joseph's College of Engineering
45	Mr.S. Satish Kumar	Recent Trends in Industrial Engineering Strategies	National	6 days	26.04.21 to 01.05.21	AICTE	Sathyabama Institute Of Science & Technology
46		Electrical Paradigm Shift to Cyber Physical Systems and ontemporary Research in Electrical and Electronics Engineering	National	14 days	03.05.21 to 15.05.21	AICTE	Saranathan College of Engineering,
47		Research Methodology	National	2 days	01-06-2021 to 02-06-2021		AMET Deemed to be University, Chennai
48		Intellectual Property Rights Regime and its Impact	National	1 day	25-05-2021		AMET Deemed to be University, Chennai
49	Dr. D. Lakshmi	Short Term Training Program,Phase III Electric Mobility: Development, Integration and Design Challenges	National	6 days	03.05.21 - 08.05.21	AICTE	jerusalem college of Engineering

50		Short Term Training Program, Phase I Electric Mobility: Development, Integration and Design Challenges	National	6 days	22.03.21 - 27.03.21	AICTE	jerusalem college of Engineering
51		Innovative research prespects in communication, power system and machine learning	National	5 days	17.5.21 - 21.5.21		Jeppiar Institute of Technology
52		How to write a book	National	1 day	6.6.21		ESN publications
53		“Creative and Innovative Teaching Strategies for the New Normal	National	6 days	24.05.21 - 31.05.21		SSN college of Engg
54		Modern trends in power electronics and their application	National	5 days	28-6.21 to 2.7.21		Vidya Jyothi inst of Tech
55	Ms. G. Jegadeeswari	ENTREPRENEURSHIP & INNOVATION' by	National	14 Days		MSME	MSME TDC (PPDC), Ministry of MSME, Govt. of India
56		Electric Mobility: Development, Integration and Design Challenges	National	6 Days		AICTE	Jerusalem College of Engineering
57		Next Generation Technology in Manufacturing, Phase III	National	6 Days		AICTE	Pondicherry Engineering Engineering
58	Mrs. R. K. Padmashini	Upskilling for the future Technical Innovations and Research opportunities in Power Engineering	National	5 DAYS			B.N.M Institute of Technology
59		Control and Automation	National	6 DAYS			Indian Institute of Space science and Technology
60		Blended Learning and Flipped Classroom	National	5 DAYS			Vellore Institute of Technology- ATAL
61		Control systems Engineering	National	7 DAYS			Amirtha Institute of Technology
62		Grid connected and Islanded Microgrid design using Homer Pro	National	3 DAYS			St. Joseph's Institute of Technology
63		Testing and Purification of Drinking water and Health	National	10 DAYS			NITTTR
64	J.S. Ashwin	Lab on Chip	National	5 days		AICTE Training and Learning (ATAL) Academy	S.R. M Institute Of Science And Technology

65		Sustainability Engineering	National	5 DAYS	14-12-2020 to 18-12-2020	AICTE Training and Learning (ATAL) Academy	St. Joseph's College of Engineering
66		Virtual workshop in Underwater Technology - V2.0 Understanding Oceans and Exploration of Deep Sea Bio Resources by Technology	National	1 DAY	18-01-2021 to 22-01-2021		Sri Sivasubramaniya Nadar College of Engineering
67		3D Modelling of mode converters	National	1 day			SVCET, Chittoor
68		Role of Electronics and Communication in Aerospace Industry	National	1 DAY	1306-2020		SVCET, Chittoor
69	Dr. P. Sivaperumal	Integration of Alternate Energy Resources in Smart Grid	National	5 days	25-29 Dec'2020	AICTE	National Institute of Technology - Delhi
70		Sustainable Engineering	National	5 days	14-18 Dec,2020	AICTE	Vellore Institute of Technology - Chennai
71		Robotics	National	5 days	02-06 Nov'2020	AICTE	Motilal Nehru National Institute of Technology - Allahabad
72		Electrical & Computer Engineering	National	5 days	9-13 Nov,2020	AICTE	National Institute of Technology Meghalaya
73		Recent Trends in Hybrid Electric Vehicle	National	1 day	23 Jan' 2021		Arasu Engineering College, kumbakonam

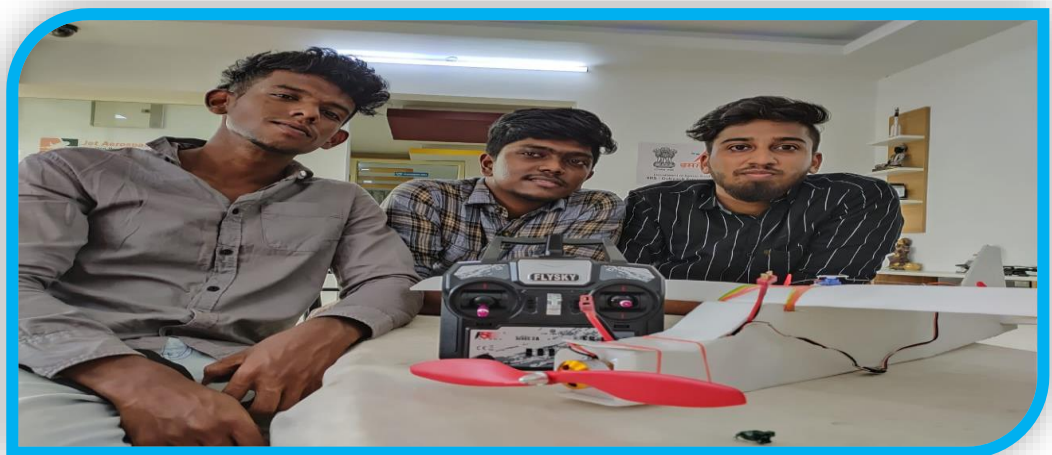
PLACEMENTS**BATCH: B.E – EEEM & 10 (2017 – 2021)**

S.No	Register Number	Roll Number	Student Name	Company / Higher Studies
1	AEE17018	EE346	HEMANTH RAJ R	Vik-Sandwik Design India Pvt Ltd
2	AEE17034	EE362	PRADEEP M	Vik-Sandwik Design India Pvt Ltd
3	AEE17052L	EE381L	VEERAPATHIRAN M C	Vik-Sandwik Design India Pvt Ltd
4	AEE17049	EE378	PRATIK KUMAR GUPTA	Zolostays Property Solutions Pvt Ltd

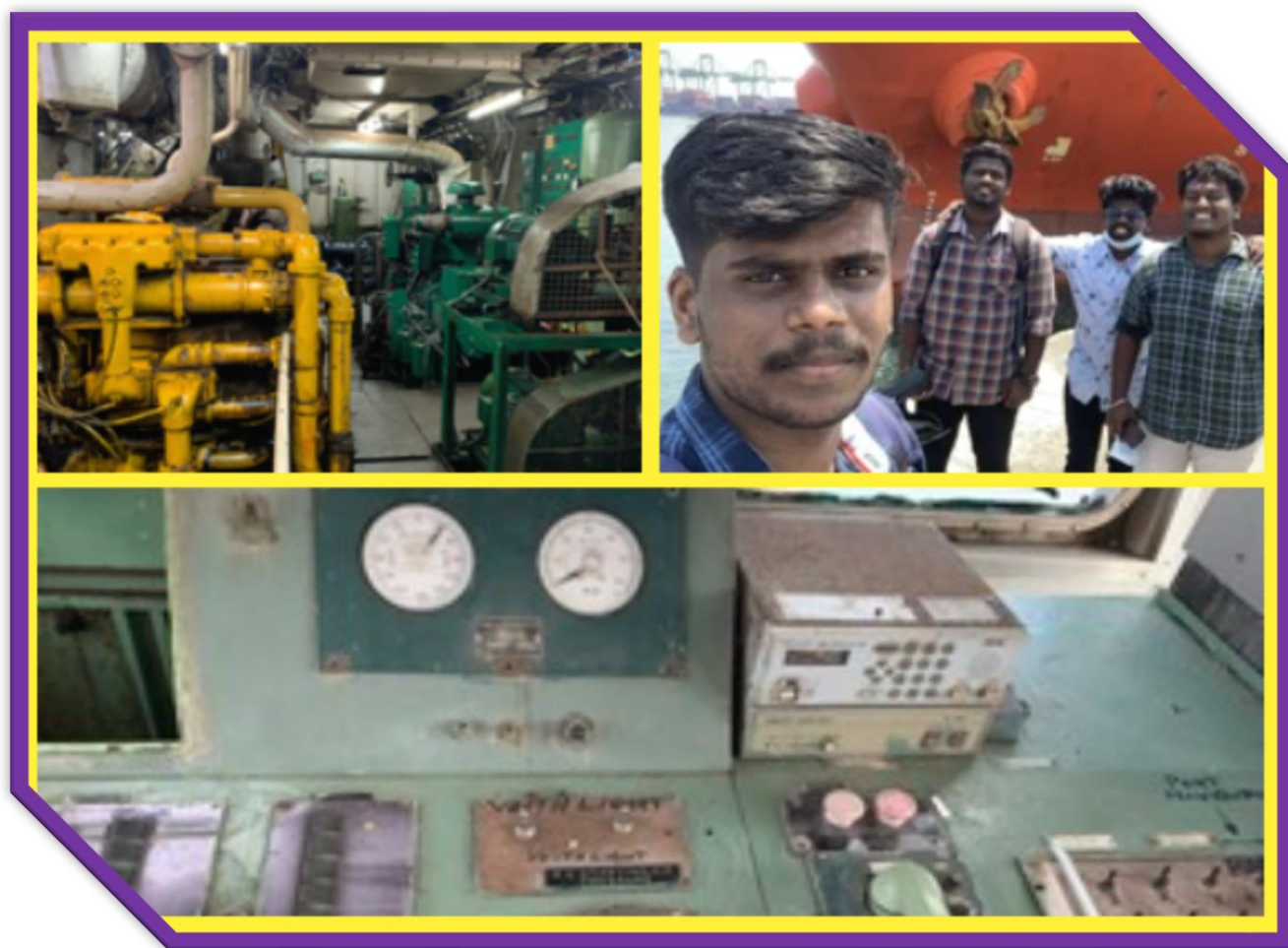
ARTICLES (STUDENTS)

STUDENT'S INTERNSHIP

- Hindustan Shipyard Limited, Visakhapatnam
- JET Aerospace Aviation Research Center, Kanjikode, Palakkad, Kerala
- Chennai Port Trust
- NOVA Instrumental and Labs



Projects done in JET Aerospace Aviation Research Center, Kanjikode, Palakkad, Kerala

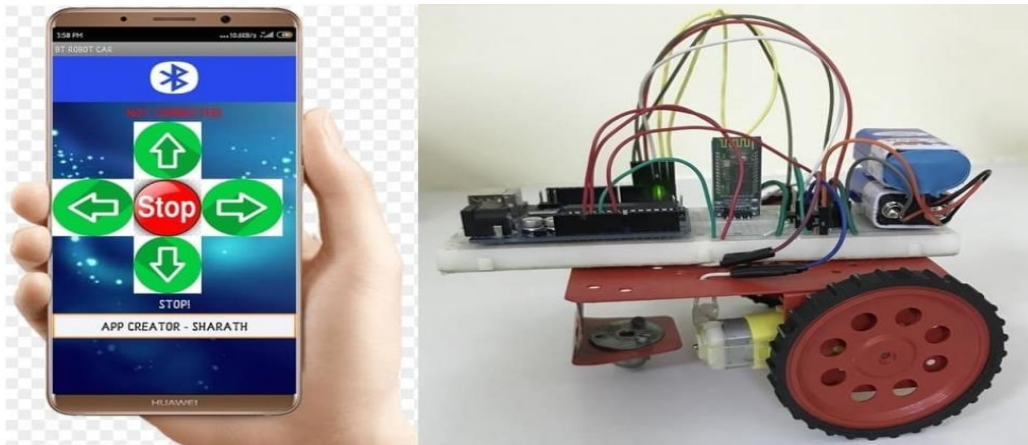


Internship photos from Chennai Port Trust

ARTICLES

WIRELESS BLUETOOTH CONTROLLED ROBOT CAR

Mr. Vinu Dharmendar / III Year / EEEM

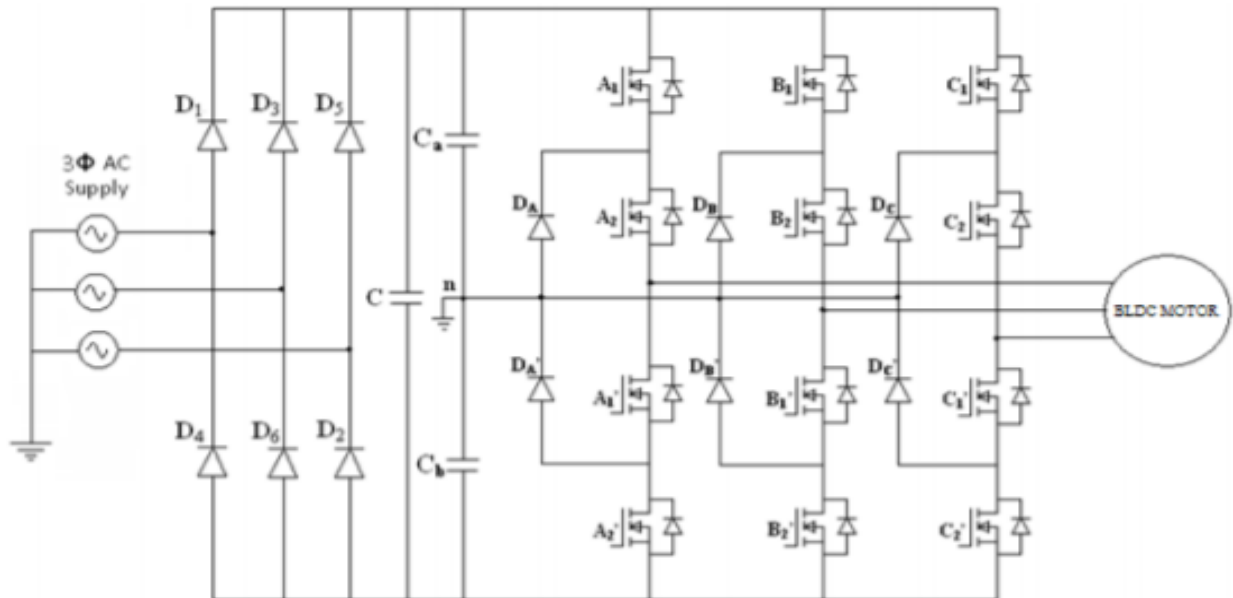


The robotic car can be controlled wirelessly via a Smartphone. The smartphone has an Android app through which the user can send commands directly to Robot. The robot can move forward, backward, left and right and can also be stopped. The Arduino's Bluetooth controlled robot car is interfaced with a Bluetooth module HC-05 or HC-06. We can give specific voice commands to the robot through an Android app installed on the phone. At the receiving side, a Bluetooth transceiver module receives the commands and forwards them to the Arduino and thus the robotic car is controlled.

App Logic Command are processed by phone. Command is then sent to the receiver side via Bluetooth. Command received via Bluetooth is forwarded to Arduino Uno board using UART serial communication protocol. Arduino code checks the commands received. Whenever the command is a matching string, Arduino controls the movements of the robot accordingly in forward, backward, Turning Right, Turning Left & Stop.

THIRTY-ONE LEVEL CASCADED MULTILEVEL INVERTER FED BRUSHLESS DC MOTOR DRIVE APPLICATIONS

Mr. P. Dhanasekar / IV Year / EEEM



In high power high voltage application BLDC motor are widely used because of higher efficiency, simple in construction, lower cost, less in maintenance and higher torque or high output power per unit volume. For driving the BLDC motor an electrical commutator (inverter) is required. PWM inverter gives good performance. In two level inverter there are problems of harmonics distortions. The increase in the number of steps in voltage is one of the solutions for the above problems. This can be possible by using multilevel inverters. The conventional method produces high switching losses, results in poor drive performance. This paper proposes an effective replacement for this. The effectiveness of the neutral clamped multilevel inverter-based drive system is verified through simulation using MATLAB simulink package.

POWER FACTOR IMPROVEMENT USING LANDSMAN CONVERTER IN BLDC MOTOR

Ms. Hemamalini / M.E / II Year / EEE



This project manages a profoundly dependable electrical drive using the Brushless DC. The motor is sustained by Voltage Source Inverter (VSI) with a dc-dc converter power factor correction circuit (PFC) as the VSI's ancestor. The Performance of dc-dc converters is examined and the outcomes are talked about to touch base at the most appropriate converter. PID Logic Controller is utilized as the Intelligent Controller for the BLDC motor. Reliable, ease plan is in this manner given to accomplish unity power factor and speed direction with exactness. The Landsman Converter performs power factor correction and DC voltage control in single stage utilizing just a single controller. The planned PFC converter brings about an enhanced power quality at AC mains in an extensive variety of speed control and info AC voltage. The voltage source inverter (VSI) is utilized as an electronic commutator of PMBLDCM.

RECENT TRENDS IN ELECTRICAL TECHNOLOGY

Mr. Vinay Ramkumar / M.E / I Year / EEE

ARTIFICIAL INTELLIGENCE

If artificial intelligence has penetrated large industries like armaments and medicine, surely the electrical engineering landscape cannot be an exception. Electrical engineers are expected to do much better with AI. By blending their process and skill with the know-how of AI and machine learning, electrical engineers are contributing the following:

1. Create complex algorithms for data interpretation
2. Generate new codes or revamping existing codes
3. Build massive AI and machine learning platforms
4. Develop comprehensive strategies in the field of electronics

ROBOTICS

While robotics-based technologies are often ridiculed for stealing people's jobs in most industries, it's a different case in electrical engineering. Robotics significantly help to improve safety. For instance, remotely controlled, wireless underground cable cutters can be used instead of putting humans at life-threatening risk.

WIRELESS POWER TRANSFER

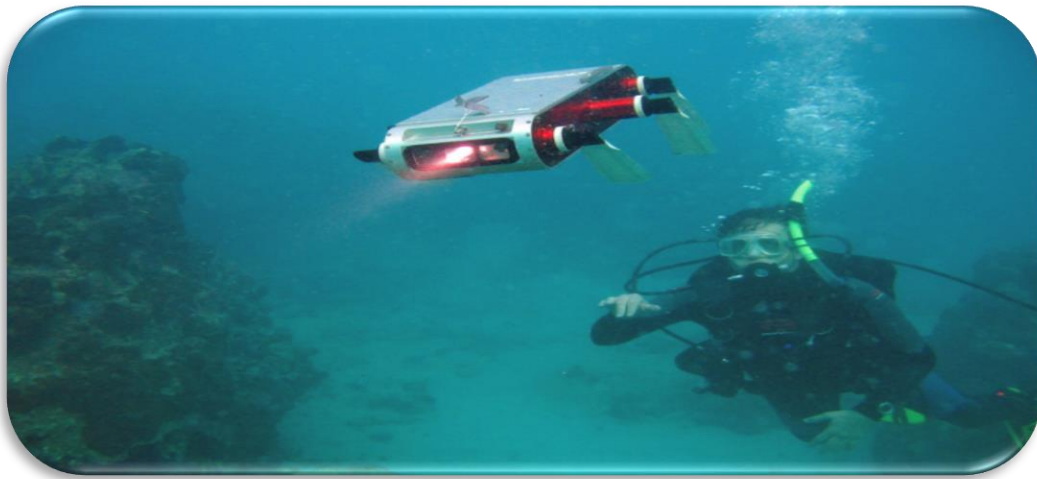
Wireless power transfer is in its primitive stages, but the future is bright. In 2020, we expect better wireless charging for laptops, smartphones, earphones, and other smart devices. Shortly, however, we expect much more. Soon, wireless charging will also become the standard for electric cars. Instead of the large charging docks, drivers will be able to park on a charging spot without needing to plug in. Experts predict that a few years from now, it will also be possible to charge your electric vehicle while it's moving!

THE INTERNET OF THINGS (IOT)

IoT impacts many different areas of the electrical engineering landscape. From smart grids to smart lighting and Visible Light Communication (VLC), among many others, IoT is now intertwined with the electrical engineering industry. As a result, it's now imperative that every electrical engineer becomes "IoT literate."

AQUA ROBOT

Mr. Namala Saket / II Year / EEEM



The Aqua Robot, which is most compact of the range for use as a hand-launched vehicle, can be deployed from small craft and in shallow-water situation. It is a man portable AUV designed for various missions: mine counter measure (detection and classification), sea floor survey, hydrographic and oceanographic data acquisition, homeland security (wreck localisation, port and coastal security). With its modular architecture the base vehicle can be configured to customer specific requests with various payloads as well as size of battery. All these uses are realized through three separate products, each with equipment and specific features depending on their environments. collecting data and intelligence before military operations is an important challenge. With its midsize Autonomous Underwater Vehicle, AUV, ECA Group proposes a stealthy, enduring and safe solution to ensure Rapid Environment Assessment (REA) missions in hostile environment. Based on a sea-proven vehicle, the variety of modular payloads addresses a wide range of subsea covert missions with a low-risk exposure.

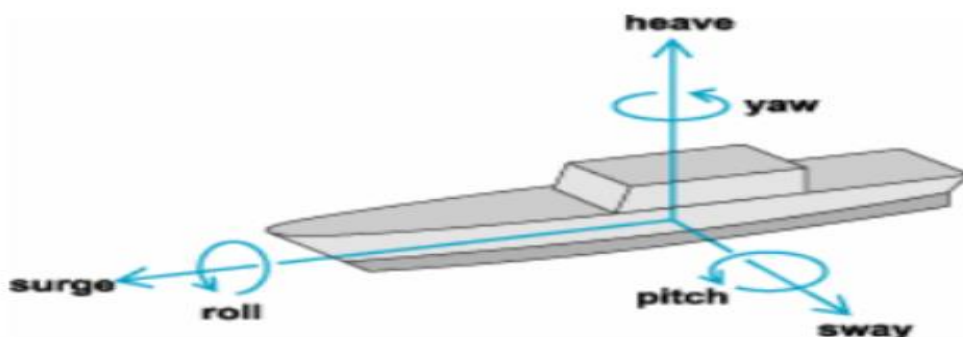
WAVE ENERGY CONVERTER

Mr. MADHUBAN / II Year / EEEM

Wave energy converters (WECs) are devices that convert the kinetic and potential energy associated with a moving ocean wave into useful mechanical or electrical energy. Wave energy converters can provide clean energy to power the electrical grid as well as many other applications such as propulsion for ocean vehicles or pumping for seawater desalination.

There are many different types of wave energy converters out there; a quick search on Google Patents returns over 7,400 results. I know you'd love to read a SWOT analysis on each and every single one, but let's stick to the basics. This page will introduce you to common generic designs, or design archetypes, for wave energy converters, describe the general principles for each, and show you some real-world examples.

Wave energy converters can generally be classified into one of six different categories, or design archetypes: point absorbers, terminators, attenuators, oscillating wave surge, submerged pressure differential, and rotating mass devices. Some might fall into a couple different categories, but by and large these classifiers work for most of what you'll come across. Below is a snapshot of the archetype landscape of wave energy converters globally as of 2018. You'll notice that the most common design type is the point absorber, but as you'll see there are many variants on this basic design.



POETRY:

The Gift of God

You are our dream
And sweeter than dream
Farmers feel so pleasure
To have you as their treasure
You are the boon of nature
And help living creature
You fill the pretty pond
And you are the real gift of God
Oh! My dear rain
You are really a gain

S. DHARSHINI / II Year / EEEM

Emerald Sky of Mine.

This is another sky,
 Looks like a glow,
 Ever young and fair.
 Thou never has foe,
 And there is sunshine,
 Though it be darkness there
 It whispers when you vesper mine
 Thou never need faded forest.
 Thy never need silent fields,
 Here is a little forest
 whose leaf is an emerald,
 Red as a rose is there,
 On thou unfading flowers.
 I hear the bee sound,
 which made to sound
 Suddenly my brother,
 In to my garden came,
 and found me struck dumb
 And knew the emerald.

P. DHANSEKAR / IV Year / EEEM

I SHED TEARS.....

I shed tears for those.....

Innocent lives lost due to Covid19.

I shed tears for those.....

Corpses whose last rites could not be performed by their near & dear ones, a lonely death.

I shed tears for those.....

Migrant labourers whose lives & livelihood have been torn apart.

I shed tears for those.....

Whose livelihood depends on daily wages/earnings.

I shed tears for those.....

Small Entrepreneurs whose dreams have been shattered.

I shed tears for those.....

Front line COVID warriors for being targeted by unruly mobs.

I shed tears for those.....

Who stand to lose their jobs & means of livelihood due to the economic recession post Covid19.

I shed tears for those.....

From the young generation who have had to undergo through this stressful period.

I shed tears for those house wives who will now have to handle all the house hold chores without a house maid to help.

My eyes have dried up now & no tears left, as I see through my dry eyes at the bleak & uncertain future.

Yet, I see hope for good things to come, as Mankind has fought through all adversities & come out the VICTOR.

Mr. Vinay Ramkumar / M.E / I Year / EEE

PAINTING**Mr. Jayasurya / IV Year / EEEM**

FACTS ABOUT WEARING MASKS

What should we think of people who flatly refuse to wear masks in any situation? Some pundits give an unequivocal answer: “Failure to wear a mask [is] an incredibly selfish act that puts other people’s lives at risk.” “Being against masks is a selfish personal choice that impacts others.” One even describes sceptical attitudes about masks (including President Trump’s) as a sign of a broader “cult of selfishness.”

Is stubbornly refusing to wear a mask really “selfish”? That depends on what you mean by the term. The conventional view is that selfishness means doing whatever you feel like, regardless of its effects on others. By that standard, people would be considered selfish if they don’t want to wear a mask because it’s uncomfortable or inconvenient, even though it can save the lives of other valued people.

But if selfishness also means the dedicated pursuit of one’s self-interest, how does a disregard for others help in this pursuit? It doesn’t. Other people’s lives contribute immensely to one’s own self-interest. A world full of sick and dying people is not to anyone’s advantage. Anyone who misses the life we all lost in March is already familiar with this. Whether you’ve lost a job or are grieving for a loved one, or even just miss being able to go to a restaurant with friends, you know other people matter to your interests. They are the potential employers, producers, innovators, and friends who help each of us live a happy human life. There is also the obvious short-term benefit of the social effect of good will. I want other people to wear masks so that I won’t get infected. One way to signal this to them is by wearing a mask myself as a gesture of respect. It communicates “I’ll protect you if you’ll protect me.” Gestures of respect generally open our lives to the good things others offer.

Mr. Akash P Santhosh / III Year / EEEM

LIFE HACKS

Mr. Hasheem Sheriff / IV Year / EEEM

1 Try different masks to find what best fits your face.



6 Use a nasal saline rinse for congestion.



2 Use a CPAP pillow to stop your mask from shifting.



7 Increase tube temperature and use a tube cover to prevent condensation and water dripping on your face.



3 Try a nasal mask or nasal pillows if you feel claustrophobic.



8 Change mask cushions regularly to prevent leaks.



4 Utilize comfort settings to improve tolerability.



9 Use mask cushion covers or cloth masks to lessen irritation.



5 Adjust humidity and tube temperature to prevent nasal and mouth dryness.



10 Practice using your CPAP during relaxing daytime activities (watching TV, reading a book, etc.).



ALUMNI TESTIMONIALS

I thank my Institution and Professors of Electrical and Electronics Engineering-Marine Department for their constant encouragement and support. During my B.E - EEEM. they challenged and pushed me to be better and creative in my projects because of which I now have enough confidence to tackle any problem. They arranged many technical workshops and seminars which helped me prepare for my interviews. Here in AMET we have great faculty members and facilities both in curricular and extracurricular activities from which I have learnt a lot and succeeded.



ANITOSH MONDAL
Electro Technical Officer
Albion Engineering Pvt Ltd

Being at AMET has been a wonderful experience. Here I have learnt that success is a journey, not the destination and AMET has been consistent in making this journey mesmerizing. Faculty members are very supportive and take great initiative to inculcate knowledge and skills in students. Along with academics, a lot of different activities on campus allowed me to polish my talents and have an overall development. There are various committees that allowed me the opportunity to connect with people and have good work experience. I have learnt not just to become a good engineer but a good person.



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