

## THE CREW



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No one can whistle a symphony. It takes a whole orchestra to play it!

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## FROM THE HOD'S DESK



The department is continuously striving to improve teaching, research, and collaborative research during the past three months. This month there is a good improvement in the publication count in refereed journals as the review process is normal.

I congratulate the department LMS and virtual lab coordinators for developing and maintaining the necessary infrastructure so that academic activities could be conducted in the online mode without interruption. Appreciation to all the teaching faculty for the remarkable transformation from "chalk and talk" to the online mode.

I am happy to inform you that Dr R. Seyezhai has been promoted as Professor.

Congratulations and appreciation to NBA-2021 coordinators Dr. M. Balaji, Dr. N.B. Muthuselvan and Dr.V.Thiyagarajan for their effort and support during the committee visit. Overall, the Department handled the situation very well. Thanks to Dr S Tamilsevi and Dr R Rengaraj for their coordinated effort towards revising the curriculum and syllabus including the Honors track. Hopefully, the revised curriculum would meet the perspective of both Anna University and AICTE.

Also happy to inform you that Dr P Saravanan and Dr R Seyezhai have completed their respective DST and AICTE projects.

The department organized the 3rd International Conference on Power and Embedded Drive Control (ICPEDC – 2021) during August with the participation and technical support of Professors from UNSW, Australia. Congratulations and appreciation to the organizers.

Around 14 students belonging to various reputed engineering institutions completed their virtual research internship successfully and I congratulate all the supervisors for their guidance.

Towards placement, the department could achieve 100% for UG 2021 batch and 22 core companies visited the campus. For ME placement out of three students two of them got placed in TATA ELXSI and one student has got an intern offer in TVS Lucas.

I thank and appreciate faculty members and students who have contributed to the department.

## MESSAGE FROM THE EDITORIAL BOARD



We understand much later that we have to develop an open mind and social skills for group works to grow beyond a point. Many of us are unable to engage collaborative work comfortably. We are innately reluctant but act as if we are ok. Poor social skills and lack of long-time planning make people to avoid teamwork related tasks even at the expense of their growth. Many live with escaping attitude than an authentic life. Also, we always like the idea of life and work but not the real life and work. As LG means life is good but it is not real for many.

Only Idea of Life is good. We enjoy movies as they merely project the idea of life. Vaira Muthu says about movies as "people who lost their life in day light, searching it in dark" We are reluctant accept hard realities of life. As middleclass guilt is strongly rooted in us, it is not that easy to work with an open mind in a group. Even when we realize it later, we found difficult to implement due to heavy hangover. Also, without our knowledge, our undercurrent thinking is diverting us in many ways. We often have no control over it. It takes a long time to realize this and possibly rectify.

Many thousand years ago the great tamil poet Tholkappian told "Saliyaa Manam Vendum" (we need untiring mind) to achieve something big in life. But we often get excited at new things then we reach our normal state soon. There were so many great thoughts on how to improve the system and our life but we soon come to normal and get going with our usual things. We generally lack commitments in long time projects. We don't have the habit exploring anything but stick to the basic use of it. If we don't adopt to the changes, we feel that we are doing our best but still we fail like how Nokia failed.



"sometimes the most scenic roads in life are the detours you didn't mean to take" When agitated with someone, we often feel it is the other person's responsibility to resolve the issue. In truth, it is our responsibility to dissolve the agitation we feel within. We can do this by finding something that we admire in that person, a positive quality, or maybe their specialty in something etc.



Now, whenever you think of that person or come into contact with them, see them with that positivity. This is sometimes enough to dissolve the agitation, as well increase our ability to connect with that person and resolve the issue. Do not allow others to influence you in the creation of your bad feelings as it will lead you to lose compassion & the capacity to accept others.

When you look at depth, there are lot of factors influences our performance and certain people are fortunate to be in better environment to learn skills at early stage of life. We should understand the gaps and learn to respect the performing individuals rather than following the basic instinct of jealous and creating animosity. When you have good feeling with peoples you forget the few inevitable mistakes, appreciating their other good things and achievements, but when you are influenced by jealous, you exaggerate even the small mistakes they do.

There are certain people when they get bad experience once, they never do it again in their lifetime. For example, when they met with any small accidents, then they stop driving. Just like when you give hot milk once to the cat it will never turn back to you even when you give cold milk.



But there is lots of difference between man and animal. Human being grows in spite of hardships. Accidents, bad experiences and beautiful failures makes one tough for bigger challenges. One should not crumble down with accidents and failures. Courage is the one human quality which commands all other qualities.

Apart from intellectual courage we need to build other forms of courage to live a meaningful life. As Helen Keller said, "Security is mostly a superstition. It does not exist in nature. Avoiding danger is no safer in the long run than outright exposure. Life is either a daring adventure or nothing. To keep our faces towards change and behave like free spirits in the presence of fate is strength undefeatable."

The optimal state of inner experience is one in which there is order in consciousness. This happens when psychic energy—or attention—is invested in realistic goals, and when skills match the opportunities for action. The pursuit of a goal brings order in awareness because a person must concentrate attention on the task at hand and momentarily forget everything else. These periods of struggling to overcome challenges are what people find to be the most enjoyable times of their lives. A person who has achieved control over psychic energy and has invested it in consciously chosen goals cannot help but grow into a more complex being. By stretching skills, by reaching toward higher challenges, such a person becomes an increasingly extraordinary individual.

"And the day came when the risk to remain tight in a bud was more painful than the risk it took to blossom."

## FROM US TO YOU



It seems like an eternity since we were last at college, chatting with friends, looking at their beautiful smiles. Although Covid had taught us a lot, it had certainly taken away these things from us. But enough is enough. At last, thanks to the tireless toil of our health workers, we are starting to get back to it. But of course, one thing is different now. Everyone is wearing masks.

But we have always been wearing masks. Masks for our personalities. People are always constantly changing to suit their environment. To get along with their surroundings seamlessly. In a sense we are cold-blooded animals. The polite remarks you make to others, small compliments you give even though you have mixed feeling about it, the kind words of encouragement you give even though you know the person has screwed up, civil inattention to the person you hate the most.

It During the pandemic, people were locked up in their homes not worrying about these things. The number of strangers we met was miniscule. We only talked to people we already know. But now that we are back to normal - ahem - new normal, we have gone back to wearing masks. These masks are what make the world a better place.

But the question arises, "if everyone is being nice, who will tell these people about the harsh realities of the world?". That's what loved ones are for. It definitely won't be easy hearing from your loved ones that your shirt looks awful. You'll get mad at them, it'll hurt a bit. But you can always be sure that they will be there for you when you get back to your senses. Striking this balance is crucial for the world to function smoothly and continue to be a place we all love and cherish.

The REDEEM team, with our masks on, have worked hard to bring you this iteration of REDEEM with a harmonious mix of intriguing news from the world of engineering and technology, informative write-ups, absorbing articles to brain teasing crosswords. So, put on your masks, and get ready to be taken through a wonderful voyage through words. Godspeed!

## External Recognition

- K.Murugesan gave guest lecture on the topic "Hindrance Faced by the Entrepreneurs" in World Entrepreneurs day celebration workshop conducted by Sri Sivasubramaniya Nadar College of Engineering in association with Institution's Innovation Council(IIC) on 28-08-2021 at 9 am to 10 am (Online).
- Dr.M.Balaji (Associate Professor/EEE) served as session chair in 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) organised by department of EEE,Sri Sivasubramaniya Nadar college of engineering on 25.08.2021.
- Dr. R. Ramaprabha, ASSP/EEE reviewed the research progress for the Ph.D. candidate of Electrical & Electronics Engineering, School of Engineering & Technology, GIET University, Gunupur-765022, Odisha, (India) as External Expert (DRC member) on August 28, 2021.
- Dr.R.Seyezhai, ASSP/EEE acted as External Expert member and reviewed the research work of the Scholar Mr. Kannan, SRM University, Kattankulathur on 25.08.2021 for the comprehension.
- Dr. R. Ramaprabha, ASSP/EEE attended DC meeting for PhD candidate (registered in Anna University) at Department of EEE, Venkateswara College of Engineering, Chennai as DC member on 29.09.2021 through online.
- Dr.M.Balaji attended the first doctoral committee meeting of Mr. T. Sriananda Ganesh,Research scholar, St.Joseph's College of Engineering, on 25.09.2021.

- Dr.M.Balaji attended the first doctoral committee meeting of Mrs.Vedavalli S P,Research scholar, St.Joseph's College of Engineering, on 22.09.2021
- Dr. R. Ramaprabha, ASSP/EEE reviewed the research progress for the Ph.D. candidate of Electrical & Electronics Engineering, School of Engineering & Technology, GIET University, Gunupur-765022, Odisha, (India) as External Expert (DRC member) on July 26, 2021.
- Dr. Hithu Anand joined as Post Doctoral Fellow (PDF) under the guidance of Dr.R.Rengaraj (ASSP/EEE)
- Dr.R.Seyezhai, ASSP/EEE conducted a DC meeting for the Scholar Ms.R.Sasikala, Satyabama University, Chennai on 27.07.2021.
- Dr.R.Seyezhai, ASSP/EEE attended the first doctoral committee meeting for the Scholar Ms.Shyni, VIT University, Vellore on 28.07.2021.
- Dr N B Muthuselvan conducted DC meeting to form Oral board members of Research scholar Mr. J. Nandha Gopal was held on 22 – 07 – 2021
- Dr.R.Deepalaxmi, Asso.Prof/ supervised and completed the project titled "Identification of efficient controller for Servomotor"under SSN- Research Internship Scheme -online mode for Santhosh Chakkaravarthy S of St.Joseph's College of Engineering. Duration of 6 weeks (from June 17, 2021-July 31, 2021).
- Mrunal Deshpande, Asso.Prof/ supervised and completed the project titled "Analysis of bearingless switched reluctance motor" under SSN- Research Internship Scheme online mode for Nandakumar P of Pondicherry Engineering College. Duration of 6 weeks (from June 17, 2021-July 31, 2021).
- Ms. V.Kavya, M.Tech student of Pondicherry Engineering College completed student internship project titled "Modelling, Simulation and Analysis of Switched Reluctance Motor Drive "under the supervsion of Dr.M.Balaji
- Dr.R. Seyezhai, ASSP/EEE, Dr.L.Ashok Kumar, Prof & Head/EEE, PSG College of Tech & Dr.Karuppuchamy, edited a book titled, "Recent Trends in Renewable Energy Sources and Power Conversion" Select Proceedings of ICRES-2020- Vol.2, published by Springer Proceedings in Energy on 09.07.2021.

## Research

## **Research** Activity

- Kurinjimalar, L(Part time research scholar)., Balaji, M(Associate Professor/EEE)., Prabhu, S. Umadevi R. published a paper titled "Analysis of Electromagnetic and Vibration Characteristics of a Spoke Type PMBLDC Motor" in Journal of Electrical Engineering and Technology,vol.16,pp2647–2660,2021. https://doi.org/10.1007/s42835-021-00807-4(Clarivate Analytics impact factor:0.836)
- Ms Trupti Balerao joined as junior research assistant under the guidance of Dr Mrunal Deshpande on 2nd august 2021. Title of her work: Design and development of counter electrodes for dye sensitized solar cells.
- Dr. Mrunal Deshpande, Dhruv Kapoor, Jaysharan S, S Pranav, presented a paper titled "Modified Converter For Photovoltaic Based Applications", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering.
- M.Nandhakumar Seshan, Dr Mrunal Deshpande, presented a paper titled "Performance Analysis Of Bearingless Switched Reluctance Motor Drive," Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering.



- R.Felshiya Rajakumari, Dr.Mrunal Deshpande, presented a paper titled, Application Oriented Design, Development And Implementation Of Switched Reluctance Motor Drive" Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering.
- Dr. Mrunal Deshpande, Parithi R, Mohamed Adhil A, Logeshwaran S, Kabilan. C presented a paper titled, Energy Harvesting Using Thermoelectric Module," Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering.
- Project applied: Project Titled : Intelligent protection mechanism for low voltage distribution system was submitted under internally faculty project scheme by PI: Dr. G.R.Venkatakrishnan Co-PIs: Dr. V. Kamaraja, Dr. R.Rengaraj and Dr. Mrunal Deshpande Amount: 4.57 Lakhs Duration: 2 Years
- Project applied: Project Titled : Intelligent protection mechanism for low voltage distribution system was submitted under internally faculty project scheme by An Isolated Bidirectional Converter For High Power Applications" by PI:Dr. Alagu Dheeraj, Co-PIs: Dr. Mrunal Deshpande, Dr. Vaishnavi Ravi. Amount 3.25 lakhs. Duration: 2 years
- Dr Mrunal Deshpande, participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " smart cities" from 2.8.2021 to 6.08.2021 organized by National Power Training Institute - Power Systems Training Institute Banglore
- Dr Mrunal Deshpande, participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Advances of Artificial Intelligence and Machine Learning in Societal Development" from 16/08/2021 to 20/08/2021 organized by Uttarakhand Open University.
- K. R. Shanmugha Vadivu and R. Ramaprabha, ASSP/EEE, "Improved Steady State and Large Signal Transient Response of Three Level AC-DC Converter using Hysteresis Modulation Based SMC Under DCM" Revue Roumaine Des Sciences Techniques– Serie Electrotechnique etEnergetique (ISSN / eISSN:0035-4066), Vol. 66, 2, pp. 85-90, Bucarest, Aug 2021 Indexed in Scopus & Web of Science (Thomson Reuters) and Inspec - The IET for indexing) IF -0.255



- Dr.R.Seyezhai, ASSP/EEE & Ms.P.Suvetha(Passed out RA) published a paper Titled, Design and Development of PV/FC Based Integrated Multilevel Inverter for Smart Grid,Lecture Notes in Electrical Engineering,Vol.764, August 2021,Impact Factor-1.4, doi - 10.1007/978-981-16-1299-2\_17,SCOPUS Indexed.
- Dr. M. Pandikumar, Associate Professor submitted a project proposal titled "Identification and extraction of energy from the sanctum of the Hindu Temples" submitted to DST - Science and Heritage Research Initiative (SHRI) - Principal Investigator : Dr M Pandikumar, Associate Professor, EEE Dept., SSNCE on 15th August 2021.
- Dr. M. Pandikumar, Associate Professor attended the Internship Review Meeting of the project titled "Identifying Super Spreaders in electrical circuits using Heatmap Centrality" by Ms. Nitya Georg, II Year, B.Sc CMS (Computer Science, Mathematics, Statistics), Mount Carmel College Autonomous, Bangaluru as part of the SSN Internship Programme for the students from other institutions on 16th August 2021
- Dr. V. Thiyagarajan, ASSP/EEE, has published the paper titled "New Asymmetric 25-Level Inverter Topology with Reduced Switch Count" in Lecture Notes in Electrical Engineering (Springer),ISSN:1876-1100, Vol. 707, (2021), pp. 67-74. doi: https://doi.org/10.1007/978-981-15-8586-9\_7
- Dr. V. Thiyagarajan, ASSP/EEE, has published the paper titled "New Symmetric 9-Level Inverter Topology with Reduced Switch Count and Switching Pulse Generation Using Digital Logic Circuit" in Lecture Notes in Electrical Engineering (Springer), ISSN:1876-1100, Vol. 707, (2021), pp. 249-257. doi: https://doi.org/10.1007/978-981-15-8586-9\_23
- J Nandha Gopal and Muthu Selvan N B, paper titled, ""Model Predictive Controller Based Quadratic Boost Converter for WECS Applications" has been accepted to be published in International Transactions on Electrical Energy Systems.
- Dr. M Pandikumar submitted the project titled "Improvement in Solar PV Water Pumping System for Irrigation and Agricultural Applications", submitted to Indian Council for Social Science Research (ICSSR) on 08.09.2021.



- Dr. M Pandikumar submitted the project titled "DESIGN AND DEVELOPMENT OF A LOW-COST INFUSION PUMP TO DELIVER MEDICATIONS TO PATIENTS", submitted to TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY under Student Project Scheme -2021-2022 on 24th September 2021.
- G R Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE) "Optimally manage the energy between electric vehicle charging stations and electricity distribution system: A hybrid technique", International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, https://doi.org/10.1002/jnm.2944 (SCI Indexed)
- G. R. Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE), K. Sathish Kumar (Prof/Chem), R. Dineshkumar (Student/EEE), T. Nishanth (Student/EEE), "Implementation of Modified Differential Evolution Algorithm for Hybrid Renewable Energy System", Journal of the Nigerian Society of Physical Sciences, Vol. 3, pp. 209 215, 2021 (Scopus Indexed)
- Sathish Kumar K (Prof/Chem), G. R. Venkatakrishnan (ASP/EEE), R. Rengaraj (ASP/EEE), "Antimicrobial activity of green synthesized tri-metallic oxide Ni/Cr/Cu nanoparticles", Journal of the Nigerian Society of Physical Sciences, Vol. 3, pp. 144 – 147, 2021 (Scopus Indexed)
- R Rengaraj (ASSP/EEE), G R Venkatakrishnan (ASSP/EEE), S Shalini (Student/EEE), R Subitsha (Student/EEE), S Suganthi (Student/EEE) and Sushmita Carolyn (Student/EEE) published a paper titled "Identification and classification of faults in underground cables A review" IOP Conf. Series: Materials Science and Engineering Vol. 1166, pp : 1-10, 2021 (Scopus Indexed)
- Dr.R.Seyezhai,ASSP/EEE, Dr.D.Umarani,ASSP/EEE, Dhivya Sambasivan (PG Student), "Comparative Evaluation of PI and Fuzzy Logic Controller for PV Grid-Tie Quasi Z-Source Multilevel Inverter", Mehran University Research Journal of Engineering and Technology, Vol. 40, No. 3, 465 - 473,pp 466-473, July 2021, Impact Factor : 0.18 (JCI 2020)
- Dr.R.Seyezhai, ASSP/EEE & Dr.D.Umarani, ASSP/EEE S.T. Pavithraa, S. Nandhini Priya, K.V. Meenapriya published a paper Titled, Design and implementation of solar docking station for smartphones/Laptop, Materials Today Proceedings, June 2021, Impact Factor-1.4, SCOPUS Indexed.



- Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "An Asymmetrical 75-Level Inverter Topology with Minimal Switch Count and Total Harmonic Distortion" in the International Conference On Smart Grid & Electric Vehicle (ICSGEV-2021) organized by Hindustan Institute of Technology and Science, Chennai on 06/07/2021.
- Dr.V.Rajini and Dr.K.S Vijay Sekar submitted a proposal titled" Design and develpment of an efficient electric Trike Power train for indian Automotive sector" under IFP faculty scheme
- Dr. R. Ramaprabha, ASSP/EEE reviewed 1 paper for an International Journal of Electrical Power and Energy Systems (Elsevier) on Jul 13, 2021.
- C. Karthik Rajan, R. Niranjan, J. Kalpesh (UG Students) and R. Ramaprabha, ASSP/EEE "Modelling Methodology of Flywheel Energy Storage System Suitable for Microgrid Applications" International Conference on Energy And Materials Technologies (ICEMT 2021), Aug 20-21, 2021, Department of Mechanical Engineering, SSN College of Engineering. – Presented by Dr. R. Ramaprabha on Aug 20, 2021. – Best Paper Award
- Murugesan Kullan, Senthil Kumaran Mahadevan & Anitha Roseline Johnson published a paper titled "Simplified logical modulator for the reduction of common mode voltage in alternating current drives " in Journal of Power Electronics, volume 21, Issue 11, pages1680– 1689 (2021)

## **Conference and Webinars**

- C. Karthik Rajan, R. Niranjan, J. Kalpesh (UG Students) and R. Ramaprabha, ASSP/EEE "Modelling Methodology of Flywheel Energy Storage System Suitable for Microgrid Applications" International Conference on Energy And Materials Technologies (ICEMT 2021), Aug 20-21, 2021, Department of Mechanical Engineering, SSN College of Engineering. – Presented by Dr. R. Ramaprabha on Aug 20, 2021.
- R. Ramaprabha, ASSP/EEE and E. Oliviya Joselin Komagal (PG Student), "An Extended Boost Topology of Z-Source Inverter for PV Interfacing" International Conference on Energy and Materials Technologies (ICEMT 2021), Aug 20-21, 2021, Department of Mechanical Engineering, SSN College of Engineering. –Presented by Dr. R. Ramaprabha on Aug 21, 2021.
- R. Ramaprabha, ASSP/EEE and N. Ramya Krishnan (PG Student), "31-Level RCC Multilevel Inverter for Photovoltaic System Interfacing" International Conference on Energy and Materials Technologies (ICEMT 2021), Aug 20-21, 2021, Department of Mechanical Engineering, SSN College of Engineering. –Presented by Dr. R. Ramaprabha on Aug 21, 2021.
- R. Ramaprabha, ASSP/EEE and M. Suvetha (PG Student), "Implementation of Transformerless Inverter for Photovoltaic Application", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by Dr. R. Ramaprabha on Aug 25, 2021.



- Deekshitha S, Ashwini M, Aishwarya Srinivasan (IV Year UG Students) and R. Ramaprabha, ASSP/EEE " Global Maximum Power Point Tracking of Photovoltaic Array Using Grey Wolf Algorithm", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by students on Aug 25, 2021.
- T. Saminathan (Internship Student) and R. Ramaprabha, ASSP/EEE, "Global Maximum Power Point Tracking of Photovoltaic Array Using Simulated Annealing Algorithm", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by Saminathan on Aug 25, 2021.
- A. Anbazhagan (PT-RS), K R Shanmuga Vadivu and R. Ramaprabha, ASSP/EEE "Reduction Of Inductor Current Ripple for PFC Converter Based On Auxiliary Winding ", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by Shanmugha Vadivu on Aug 26, 2021.
- Kahsu Gebrehans Gebreslassie (Internship Student), R. Ramaprabha, ASSP/EEE and M. Balaji, ASSP/EEE "Simulation Study On Fault Detection And Classification Of Photovoltaic Array", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25
   27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by Kahsu on Aug 26, 2021.
- Aryan (Internship Student) and R. Ramaprabha, ASSP/EEE " Simple Photovoltaic Curve Tracer Using Capacitor Charging Method", Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021, Department of Electrical and Electronics Engineering, SSN College of Engineering. – Presented by Aryan on Aug 27, 2021.
- Dr. R. Ramaprabha, ASSP/EEE reviewed 1 paper for an International Journal of Electric Power Components and Systems on Aug 5 & 12, 2021.
- Dr. R. Ramaprabha, ASSP/EEE discussed regarding the project progress & First review presentation for the final year project (4 batches of UG students) on Aug



- Aryan (II Year B. Tech ECE) of J.C. Bose University of Science and Technology, YMCA, Faridabad (Haryana) completed 5 weeks (June 17-July 22, 2021) internship titled "Development of Online Curve Tracing System for Larger PV array" under the mentorship of Dr. R. Ramaprabha, ASSP/EEE and completed the procedures on Aug 06, 2021.
- Kahsu Gebrehans Gereslassie (Master Student in Energy Engineering) of J Pan Africa University Institute of Water and Energy Sciences (Includng Climate Change), PAUWES, University of Tlemcen, Algeria completed 6 weeks (June 17-July 29, 2021) internship titled "Fault Detection, Classification and Protection in Larger PV Array" under the mentorship of Dr. R. Ramaprabha, ASSP/EEE Aug 29, 2021 and completed the procedures on Aug 06, 2021.
- T. Saminathan (III Year B. E EEE) of Alagappa Chettiar Government College of Engineering and Technology, Karaikudi completed 6 weeks (June 17-July 29, 2021) internship titled "Development of New Global MPPT Algorithm for Solar Photovoltaic System" under the mentorship of Dr. R. Ramaprabha, ASSP/EEE and completed the procedures on Aug 06, 2021.
- Dr. R. Ramaprabha, ASSP/EEE presented her candidature to departmental promotion committee for the post of Professor on Aug 18, 2021.Dr. R. Ramaprabha, ASSP/EEE Chaired a technical session on Aug 25, 2021 in Third International Conference on Power and Embedded Drive Control (ICPEDC 2021), Aug 25 - 27, 2021 conducted by Department of Electrical and Electronics Engineering, SSN College of Engineering and she is alsoProgramme Committee member of the Conference.
- Dr Leo Raju, ASSP/EEE and Sowmya G2, Srividhya S3, Surabhi S4, Retika M K5, Reshmika Janani M6(UG Student), presented a paper on "Building Energy Management and Conservation using Internet Of Things" in International Conference on Energy and Materials Technologies (ICEMT 2021), Aug 20-21, 2021, organised by Department of Mechanical Engineering, SSN College of Engineering. –Presented by Dr. R. Leo on Aug 20, 2021
- Dr R.Leo has attended "Faculty Workshop: Embedded Systems An Application-Driven Approach organized by Arm Education", by AICTE and STMicroelectronics during Aug 25 to Aug 27



- Dr.R.Seyezhai, ASSP/EEE, Ayshvarya Laxmi K, K R Mahalakshmi, Jayasree S presented the paper titled, "Analysis and Implementation of Triple Lift Luo DC-DC Converter for PV Water Pumping Application" in the International Conference on Energy and Materials Technologies (ICEMT 2021) during Aug 20-21, 2021, Jointly with Springer Nature organized by the Department of Mechanical Engineering, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE, M.Sridhar, R.Seyezhai, S.Sridhar, S.Srikirthi, B.Sriram & Vikram Vasudevan presented the paper titled, "Design and Simulation of Boost Integrated Half Bridge LLC Resonant Converter for LED Applications" in the International Conference on Energy and Materials Technologies (ICEMT 2021) during Aug 20-21, 2021, Jointly with Springer Nature organized by the Department of Mechanical Engineering, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE, S.Madhumitha, R.Sudiksha, , Dr.D.Umarani, ASSP/EEE and Dr.R.Sujatha, ASSP/Mathematics presented the paper titled, "Binary Decision Diagram Model based Reliability Prediction of PV Powered Quasi Z-source Inverter" in the International Conference on Energy and Materials Technologies (ICEMT 2021) during Aug 20-21, 2021, Jointly with Springer Nature organized by the Department of Mechanical Engineering, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE, S.Harika, A.Sowmya, N.Ramakrishnan, S.Purushothaman presented the paper titled, "Simulation and Protype Development of Solar Assisted Electric Trolley" in the International Conference on Energy and Materials Technologies (ICEMT 2021) during Aug 20-21, 2021, Jointly with Springer Nature organized by the Department of Mechanical Engineering, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE, Dr.A.Bharathi Sankar, Assistant Professor, SENSE, VIT University, Chennai, Dr.Mani Karthik, Senior Scientist, ARCI, Hyderabad presented the paper titled, "Design and Development of Power Electronics booster to extend the range of supercapacitor powered electric bicycle " in the International Conference on Energy and Materials Technologies (ICEMT 2021) during Aug 20-21, 2021, Jointly with Springer Nature organized by the Department of Mechanical Engineering, SSN College of Engineering, Kalavakkam.



- Dr.R.Seyezhai, ASSP/EEE, N.Heera, P.Keerthana, Mathangi Srinivasan presented the paper titled, "SIMULATION AND HARDWARE DEVELOPMENT OF AC-DC POWER CONVERTER FOR OFF-BOARD CHARGER OF EV" in the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) during Aug. 25-27,2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE and DrA.Bharathi Sankar, AP/SENSE/VIT University, Chennai presented the paper titled, "DESIGN AND CONTROL OF A BIDIRECTIONAL DC/DC CONVERTER FOR AN ELECTRIC VEHICLE" in the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) during Aug. 25-27,2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE and DrA.Bharathi Sankar, AP/SENSE/VIT University, Chennai, V. Kavichakravarthy ,Anuj Kumar, Dr.R.Seyezhai, R.Aravinth & A.Arun kumar (passed out UG Students) presented the paper titled, "High Performance Interleaved Step-Up Converter For Solar Led Street Light Systems" in the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) during Aug. 25-27,2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE and Sridhar Makkapati(Full-time research scholar),
  S.Sridhar,S.Srikirthi ,B.Sriram ,Vikram Vasudevan (passed out UG Students) presented the paper titled, "Analysis And Simulation Of Single Stage Boost Integrated Half Bridge LLC Converter For Light Load Application" in the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) during Aug. 25-27,2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.
- Dr.R.Seyezhai, ASSP/EEE and S.Harika(Full-time research scholar), A.Sowmya,N.Ramakrishnan, S.Purushothaman (passed out UG Students) presented the paper titled, "Design And Implementation Of Solar Assisted Electric Trolley" in the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) during Aug. 25-27,2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.



- Dr.R.Seyezhai, ASSP/EEE successfully completed the Innovation Ambassador Training program (Foundation Level) conducted by MOEs Innovation Cell & AICTE and obtained the certificate on 01.08.2021
- Dr.R.Seyezhai, ASSP/EEE attended the National Webinar on Research, Innovation, and Ranking on 11th August 10:30 am as the part of the one-year celebration of National Education Policy 2020 (NEP 2020) on 11.08.2021.
- Dr.K.T.Selvan, Prof/ECE, Dr.R.Seyezhai, ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech conducted the fourth session of the Interactive Lecture Series titled, "Enhancing research productivity in doctoral program: A project life cycle perspective" by Prof.Prem Vrat, Distinguished Professor, AICTE on 14.08.2021.
- Dr.R.Seyezhai, ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech conducted the workshop on, "Enhancing Placement by Patent Portfolio – Mechanical Engineering Perspective", under SSN-IIC on 18.08.2021. The resource person for the workshop is Dr.V.E.Annamalai, Principal, SSNCE . Dr.R.Seyezhai, ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech conducted the debate competition on the title, "Challenges faced by Young Entrepreneurs" under SSN-IIC towards the celebrations of World Entrepreneurs day on 20.08.2021.
- Dr.R.Seyezhai, ASSP/EEE & Dr.D.Umarani, ASSP/EEE conducted the workshop on , " Hindrances faced by Entrepreneurs" under SSN-IIC towards the celebrations of World Entrepreneurs Day on 28.08.2021.
- Dr. M. Pandikumar, Associate Professor attended the webinar on All About Open Source Software for Teaching and Learning (AOSSTL 2021) organised by Cheran College of Engineering- Karur during 09.08.2021
- Dr. M. Pandikumar, Associate Professor attended the MATLAB Webinar Series, during Aug 18, 2021 03:00 PM conducted by Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam-603110.
- Dr. M Pandikumar, Associate Professor attended the Webinar on AICTE Quality Initiatives conducted by Faculty Development Cell (AICTE) on 27th August 2021.



- Dr. M. Pandikumar, Associate Professor attended the Two Week Online Short-Term Training Program on "Emerging Technologies in Electric Vehicles "conducted by the Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla-522102 during 2nd-14th August 2021.
- Dr. M Pandikumar, Associate Professor attended the Short-term Training Programme on ICT127: Control System Analysis and Design with MATLAB (Course Instructor: Dr. Prasanta Sarkar) conducted by National Institute of Technical Teachers' Training & Research, Kolkata during 09.8.2021 to 13.08.2021.
- Dr. M Pandikumar, Associate Professor attended the Short-term Training Programme on ICT139-Analysis of Electrical and Electronics Circuits using MATLAB, (Course Instructor: Dr. Soumitra Kumar Mandal) conducted by National Institute of Technical Teachers' Training & Research, Kolkata during 23/08/2021 to 27/08/2021.
- Dr. M Pandikumar, Associate Professor attended the one-day workshop on Genetic Algorithm, Simulated Annealing, ANN and Fuzzy (Speaker: Dr. K Babu, Asso Prof, Mech, SSNCE) conducted by department of Mechanical engineering, Sri Sivasubramaniya Nadar College of Engineering, on 27th August 2021
- Dr. M Pandikumar, Associate Professor organised the Staff cultural competitions Quiz Event on 20th August 2021.
- Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Energy Storage System Technologies in DC Microgrid" in the Third International Conference On Power and Embedded Drive Control - ICPEDC 2021" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai from 25/08/2021 - 27/08/2021.
- R. Tamizhselvan, Research Scholar/EEE, Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Optimum Design of Multilevel Inverters for Proton Exchange Membrane Fuel Cell (PEMFC) Systems" in the Third International Conference On Power and Embedded Drive Control - ICPEDC 2021" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai from 25/08/2021 - 27/08/2021.



- D. Ragul, Research Scholar/EEE, Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Comparison of Cascaded H Bridge Multilevel Inverter Topologies for Electrical Vehicle Applications" in the Third International Conference On Power and Embedded Drive Control -ICPEDC 2021" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai from 25/08/2021 - 27/08/2021
- Dr. V. Thiyagarajan, ASSP/EEE, has attended the DC meeting of PhD Scholar 'Ms. Resma K K', ID No. RA2113005011002, as a DC Member conducted by Dr. R. Femi, Supervisor, SRM Institute of Science and Technology, Kattankulathur on 06/08/2021.
- Dr. V. Thiyagarajan, ASSP/EEE, has attended the PhD comprehensive Examination of Mr. Aravind Venugopal, RC2013005011007, as a DC Member conducted by Dr. R. Femi, Supervisor, SRM Institute of Science and Technology, Kattankulathur on 06/08/2021.
- Dr. R. Ramaprabha, ASSP/EEE attended Two Weeks Online Faculty Development Programme (FDP) on "Power Electronics Applications in Renewable Power Generation Systems" during Sep (21-30), 2021 conducted by Indian Institute of Information Technology Design and Manufacturing Kancheepuram in association with E & ICT Academy, National Institute of Technology, Warangal. (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)
- Dr R. Leo has participated FDP on "Current Era- A technology driven Digital transformation in Industry 4.0", organized by Department of ISE, SJB Institute of Technology, Kengeri, Bangaluru during Aug 30 to Sept 4, 2021
- Dr. R.Leo has participated in AICTE Sponsored STTP (Phase-III) on "Recent trends and challenges in power market with smart grid technology" from 20th - 25th September 2021 organized by Department of EEE, V R Siddhartha Engineering College Vijayawada, Andhra Pradesh
- Dr.M.Balaji attended two-week Online FDP on Power Electronic Applications in Renewable Power Generation Systems during 21- 30, Sep 2021 organised by department of ECE,IIITD&M Kancheepuram, Chennai in association with E&ICT Academy, NIT Warangal.



- Muthu Selvan N B attended a 5 day AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Design and Optimization of EV Charging Technology in Smart Grid Platform" from 13/09/2021 to 17/09/2021 at Puducherry Technological University.
- Dr. M Pandikumar attended FDP on Power System Design & Simulation using DIgSILENT PowerFactory Software on September 07 & 08, 2021.
- Dr. M Pandikumar attended FDP on Microgrid System Design & Simulation using HOMER Pro & HOMER Grid Software on September 09, 2021.
- Dr. M Pandikumar attended FDP on Automation System Design & Simulation using Automation Studio Software on September 10, 2021.
- Dr. M Pandikumar attended Webinar of AICTE- Student Learning Assessment Project (ASLAP) Sep 02, 2021.
- Dr. M Pandikumar attended Workshop on, "HINDRANCE FACED BY THE ENTREPRENEURS" organised by SSN-IIC on 28th August 2021.
- Dr. U. Shajith Ali, Associate Professor presented a paper titled "Dual Input Quasi Z-Source DC to DC Converter" in International Conference on Technology and Policy in Energy & Electric Power (ICT-PEP 2021), organized by PT PLN (Persero) Pusat Penelitian dan Pengembangan Ketenagalistrikan, Jakarta, Indonesia on 30th September 2021.
- Dr. V. Thiyagarajan, ASSP/EEE, has attended the National Level Workshop on "Integration of Renewable Energy and Smart Grid", organized by Sri Ramakrishna Engineering College, Coimbatore on 25/09/2021.
- V.Rajini delivered a talk on " soild state transformers for smart power systems" in byju's national level FDP on Smart Grid and Sustainable Energy Management in Virtual Power Plants organised by Sathyabama Deemed university on 27-7-2021
- Dr. Kamaraj V, Dr. V. Thiyagarajan, and Dr, N,B, Muthu Selvan, conducted a National level technical Workshop on "Industry 4.0" in association with IEI Kalpakkam Local Chapter, during 19th July, 2021. Dr. B Somasundaram Senior Member, International Society for Automation delivered the keynote.



- Dr. Kamaraj V, Dr. V. Thiyagarajan, and Dr, N,B, Muthu Selvan, conducted a National level technical Workshop on "Solar Cell : Modeling and Simulation" in association with IEI Kalpakkam Local Chapter on July 23, 2021.. Mr. Anil Kumar Sharma, Impulse Technology delivered the keynote.
- Dr.R. Seyezhai, ASSP/EEE attended the Innovation Ambassador Training Program during 30.06.2021-31.07.2021 conducted by the Ministry of Education's Innovation Cell and AICTE.
- Dr.R.Seyezhai,ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech organized a workshop on, " Building an Innovation/Product fit to Market" by SSN-IIC on 15.07.2021.
- Dr.R.Seyezhai,ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech organized a webinar on, " Migrating from Papers to Patents" by SSN-IIC on 21.07.2021.
- Dr.K.T.Selvan, Professor, ECE, Dr.R.Seyezhai, ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech organized the third session of the online Interactive Lecture Series by Prof.Prem Vrat, AICTE Distinguished Professor on the topic, "NEP2020: Overview and Implementation Strategy", on 23.07.2021.
- Dr.R.Seyezhai,ASSP/EEE & Dr.S.Sureshkumar, ASSP/Mech conducted the fourth (Quarter -4) IIC meeting on 28.7.2021.
- Dr Mrunal Deshpande attended Atal FDP on Electric Vehicles organized by Vivekananda Education Society's Institute of Technology, Mumbai from 5th July to 9 th July 2021
- Dr.R.Deepalaxmi, Asso.Prof/EEE attended Faculty Development Programme (FDP) on "Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal" organized by Department of EEE. Sri Sivasubramaniya Nadar College of Engineering during June 29 – July 02, 2021
- Dr Mrunal Deshpande ASSP/EEE attended Faculty Development Programme (FDP) on "Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal" organized by Department of EEE. Sri Sivasubramaniya Nadar College of Engineering during June 29 – July 02, 2021
- U.Shajith Ali, attended AICTE Training And Learning (ATAL) Academy Online FDP on "Electric Vehicles (EV) Technologies" from 28-6-2021 to 01-07-2021 at Government Engineering College, Bhuj.



- Dr.D.Umarani,ASSP/EEE, participated & completed successfully AICTEtraining And Learning (ATAL) Academy Online Elementary FDP on "Five Days Faculty Development Programme on Green Technology and Sustainability Engineering" from 5-7-2021 to 9-7-2021 at Amrita Vishwa Vidyapeetham.
- M Pandikumar, Asso Professor/EEE attended the Faculty Development Programme (FDP) on "Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal" organized by Sri Sivasubramaniya Nadar College of Engineering during June 29 – July 02, 2021.
- M Pandikumar, Asso Professor/EEE attended the AICTE Sponsored one week online STTP on Recent Advances in EV Technologies, Series-D organised by the Department of Electrical and Electronics Engineering, Matrusri Engineering College during 12th July to 17th July 2021.
- Dr. V. Thiyagarajan, ASSP/EEE, has participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Conversion and Storage Devices" organized by Indian Institute of Technology (IIT) Hyderabad from 01/07/2021 –05/07/2021.
- M Pandikumar, Asso Professor/EEE attended the National Level Technical Workshop on "Solar Cell: Modeling and Simulation" organized by the Department of Electrical and Electronics Engineering, SSN College of Engineering, Chennai in Association with the Institution of Engineers (India) on July 23, 2021.
- Dr Mrunal Deshpande attended a National Level workshop on "Solar fabrication and characterization" arranged by SSN EEE Department on 19.7.2021
- Dr.R.Deepalaxmi, Asso.Prof/EEE attended webinar on "Migrating from Papers to Patents" which has been delivered by Dr.V.E.Annamalai, Principal, SSNCE on July 21, 2021
- Dr.R.Deepalaxmi, Asso.Prof/EEE attended the Third Session of the Online Interactive Lecture Series by Professor Prem Vrat, AICTE Distinguished Chair Professor on the topic "NEP2020:Overview and Implementation Strategy" on July 23. 2021.
- Mrunal Deshpande, Asso.Prof/EEE attended webinar on "Migrating from Papers to Patents" which has been delivered by Dr.V.E.Annamalai, Principal, SSNCE on July 21, 2021



- M Pandikumar, Asso Professor/EEE attended the webinar on Modelling of different batteries for Charging & Discharging organised by St Joseph's Institute of Technology & Pantech E Learning on 08th July 2021.
- M Pandikumar, Asso Professor/EEE attended the webinar on Android Application Development organised by Karpagam Academy of Higher Education & Pantech E Learning on 08th July 2021.
- M Pandikumar, Asso Professor/EEE attended the webinar on Design of Solar Power Inverter organised by J.B Institute of Engineering & Technology & Pantech E Learning on 09th July 2021.
- M Pandikumar, Asso Professor/EEE attended the webinar on "Migrating from Papers to Patents" organised by Sri Sivasubramaniya Nadar COllege of Engineering on 21st July 2021.
- M Pandikumar, Asso Professor/EEE attended the webinar on "BUILDING AN INNOVATION/PRODUCT FIT FOR MARKET" organized by the Institution's Innovation Council of Sri Sivasubramaniya Nadar College of Engineering on July 15,2021.
- Dr Mrunal Deshpande attended webinar on "BUILDING AN INNOVATION/PRODUCT FIT FOR MARKET" organized by the Institution's Innovation Council of Sri Sivasubramaniya Nadar College of Engineering on July 15,2021.
- Dr.D.Umarani, ASSP/EEE and Dr.G.R.Venkatakrishnan, ASSP/EEE has conducted the "Alumni Talk Series" on 26-06-2021 inviting Ms.S.T.Pavithraa, Associate Engineer, Caterpillar Inc.
- Dr. R. Ramaprabha, ASSP/EEE has interacted with Alumni (her project students) and collect data of the students working in industries and passed the information to Dr. N. B. Muthuselvan, who is in-charge for Industry newsletter upon his request mail.



- Dr.R.Seyezhai, ASSP/EEE attended the first doctoral committee meeting for the scholar Mr.S.Vasanth Raj, Research Scholar, VIT University, Vellore on 06.08.2021.
- Dr.R.Seyezhai, ASSP/EEE attended the first doctoral committee meeting for the scholar Mr.V.Chandu, Research Scholar, SRM University, Kattankulathur on 14.08.2021.
- Dr. R. Ramaprabha, ASSP/EEE has conducted 1st DC meeting for her Full-time candidate Ms. Anjana Ethirajan on 27.09.2021 to decide the course work.
- Dr.M.Balaji conducted first doctoral committee meeting of full time research scholar Mr. Vigneshwar S.T on 28.09.2021
- Dr.M.Balaji conducted first doctoral committee meeting of full time research scholar Ms. Karthika .M on 29.09.2021
- Dr. V. Thiyagarajan, ASSP/EEE, has conducted the first DC meeting for his scholar Mr. D Ragul (Registration Number: 21143997157) on 24/09/2021.
- Dr. R. Ramaprabha, ASSP/EEE conducted online discussion/progress tracking meeting for the internship students (3 students) opted under her mentorship on the dates July 1,2,6,8,12,13,15,16,19,20,22,23,26,27,29,30 through online.
- Dr. R. Ramaprabha, ASSP/EEE attended the meeting regarding Project file preparation with department NBA coordinators on July 15, 2021.



- Dr. R. Ramaprabha, ASSP/EEE attended the demonstration of Mesh Central (in EEE department) to explore open source, remote monitoring and management server which may be utilized for e learning on July 19, 2021.
- Dr. R. Ramaprabha, ASSP/EEE attended the progress review meeting for the Virtual Research Interns (EEE) on July 19, 2021. Three of her internship candidates presented their progree.
- Dr. R. Ramaprabha, ASSP/EEE conducted Second Class Committee meeting for II Semester M.E. Power Electronics & Drives students on July 21, 2021.
- Dr. R. Ramaprabha, ASSP/EEE discussed regarding the zeroth review presentation for the final year project (4 batches of UG students) July 24 & 25, 2021
- Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled "Renewable Power and Electricity Systems" with a grade of 100% authorized by University of Colorado Boulder and offered through Coursera. It was a five week course and the instructor for the course are Paul Komor, Professor, University of Colorado Boulder.
- Dr.R.Seyezhai, ASSP/EEE & Dr.Mrunal Deshpande/ASSP/EEE conducted the Progress review meeting for the virtual research interns on 19.7.2021.
- V.Rajini served as the panel member in SNU interview for admission process on 24-7-2021
- Dr. M. Devesh Raj, ASSP/EEE was appointed as one of the Members of the Syllabus Sub Committee by Anna University for framing the Curricula and Syllabi for M.E. Power Systems Engineering under R-2021 for Non Autonomous Affiliated Colleges of Anna University, Chennai under the Faculty of Electrical Engineering, the online meeting is on 29.07.2021.
- Dr. V. Thiyagarajan, ASSP/EEE has been appointed as a program committee member for the International Conference on Information Technology and Biomedical Engineering (ICITBE 2021) organized Nanchang, China from December 24-26, 2021.



- Dr.R.Seyezhai, ASSP/EEE acted as external examiner for the phase-II Final year project review for M.E.(Power Systems), Anna University, Chennai on 16.7.2021.
- Dr.R. Seyezhai, ASSP/EEE was selected as the member for the Syllabus sub-committee -Revision of Curriculum and Syllabi under Regulations 2021 for PG for the Nonautonomous Affiliated Colleges of Anna University and the meeting was held on 29.07.2021.
- Dr.V.E.Annamalai/Principal ,Dr.R.Seyezhai, ASSP/EEE & Dr.S.Sureshkumar , ASSP/Mech submittedthe "Nominations for 2021 UNESCO-Bangladesh "Bangabandhu Sheikh Mujibur Rahman" International Prize for Creative Economy" on 08.07.2021.
- Dr.R.Deepalaxmi, Asso.Prof/EEE Completed for course titled "Introduction to Solar Cells" offered by Technical University of Denmark (DTU) under coursera for campus basic plan at SSN College of Engineering. (5 weeks course ) and secured 94.49%
- Dr. Mrunal Deshpande, ASSP/EEE conducted online discussion/progress tracking meeting for the internship student who has opted under her mentorship during July through online.
- Dr.U.Shajith Ali, Associate Professor has successfully completed a four weeks online course on 'Neural Networks and Deep Learning' authorized by DeepLearning.Al and offered through Coursera.

### **Other** Activities

- Dr.R. Seyezhai, ASSP/EEE, chaired the technical paper presentation session for the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) on 25.08.2021 organized by the Department of EEE, SSN College of Engineering, Kalavakkam.
- Dr.R. Seyezhai, ASSP/EEE, Mr.J.Dhandapani, UG Student from Pondicherry Engineering College successfully completed the virtual research internship on the project titled, " Single-Stage AC-DC PFC Converter for LED Applications" under the mentorship of Dr.R.Seyezhai on 01.08.2021.
- Dr.R. Seyezhai, ASSP/EEE, Mr.Anmol Agrawal, UG Student from NIT,Goa successfully completed the virtual research internship on the project titled, "Design and Simulation of DC-DC converter for Electric Vehicles" under the mentorship of Dr.R.Seyezhai on 06.08.2021.
- Dr.R. Seyezhai, ASSP/EEE prepared the syllabus for AU M.E. (PED) for affiliated colleges for the subjects Power Converters laboratory, Energy storage technologies & Electric vehicle & Power Management for 2021 regulations as syllabus sub-committee member for PG regulations 2021.
- Dr.R. Seyezhai, ASSP/EEE & Dr.D.Umarani,ASSP/EEE successfully completed the installation of PEM fuel cell trainer kit purchased under AICTE-MODROBS project for the Renewable Energy lab on 19.08.2021.



- Dr. M Pandikumar, Associate Professor audited the CSE Department with regard to the IQAC -ISO internal audit Phase - 1(Academic, Research, Risk Management, Processes and Systems) from 23.08.2021 to 27.08.2021
- Dr.R.Deepalaxmi, Asso.Prof had served as zoom host for SSN admission interview held on July 30, August 02-03, 2021.
- Dr.R.Deepalaxmi, Asso.Prof chaired the technical session for the 3rd International Conference on Power and Embedded Drive Control (ICPEDC 2021) organized by Department of EEE, SSNCE on August 26, 2021.
- Dr. R.Leo , ASSP/EEE reviewed 1 paper for an International Journal of Energy Storage on Aug 26, 2021.
- Kowselya R (IV Year B. E EEE) of RMK Engineering College, Chennai completed 6 weeks (June 17-July 29, 2021) Virtual internship titled "IOT based Energy Management of smart micro-grid" under the mentorship of Dr. R. Leo, ASSP/EEE and completed the procedures on Aug 06, 2021.
- Dr. R.Leo , ASSP/EEE has reviewed one paper for International Transactions on Electrical Energy Systems and one paper on Journal of Cleaner Production during September, 2021
- MoU is signed between Sri Sivasubramaniya Nadar College of Engineering and Siechem Wires & Cables for the Consultancy work of "Performance Improvement of High Speed Extrusion and Rewinding Lines"
- Dr. V. Thiyagarajan, ASSP/EEE has reviewed the papers submitted for the Virtual International Technical Conference on Control in Electric vehicles and Smart grid with Renewable Energy Synergies (VIT-CES-RES), organizing by VIT University, Chennai from 07-08 October 2021
- MoU is signed between Sri Sivasubramaniya Nadar College of Engineering and Siechem Wires & Cables for the Consultancy work of "Performance Improvement of High Speed Extrusion and Rewinding Lines"
- Dr. P. Saravanan has interacted with "Brilltech Industries" for Lithium Ion battery and BMS-100A. As an outcome of the discussion, 11KWhr Lithium Ion battery for the DST-SERB funded project has been procured. The battery is tested with DC shunt motor at Dept. of EEE, SSNCE

## IoT via SATELLITE

HARSHAD SS - III YEAR



Many of us might have come across 'IoT'- Internet of Things, which is one of the fastest growing technology. 'Everywhere I go I see his face'-once said by a famous comical character, after 10 or 20 years this can be rephrased as 'Everywhere I go I see IoT' because of its application in our day-to-day life. The global IoT market is expected to reach a value of USD 1,386.06 billion by 2026 from USD 761.4 billion in 2020. But how can we see it everywhere?

Many of the IoTs are designed for short range communication only but in recent years due to the advancement in technology now we can use it for longer ranges also with aid of Satellites. We have heard that satellites can be used for weather forecasting, broadcasting services, navigations etc. There are some satellites in space known as low earth orbiting satellites (LEO) which orbits around the earth at an altitude of 500Km and can complete one revolution in 100 minutes which can be used for long-range communication and this type of connecting technology comes under Low-power wide area Network (LPWA). LoRa is one of the most promising LPWA IoT technology. The data is collected using sensors and transmitted to LEO through LoRa, later the satellites transmit this data to the earth gateway stations and then from this station the data is received by the user.

#### IoT via SATELLITE

HARSHAD SS - III YEAR

It is definitely not possible with only one satellite to provide this facility. We need a constellation of satellites, lacuna space located in UK is planning to launch around 200 LEO in order to send and receive data within 5 minutes.

Wider range and low power are greatest advantages of LoRa network but the rate of data transmitted is quite slow when compared with other communicating technologies. Range and date rate are synonymous to position and velocity in Heisenberg's uncertainty principle. When we have a higher range, data rate is slow and when we have higher data rate range is low. LoRa's data rate is 50Kbps only. We can have a variety of application for this type of communication, one such application is tracking cargo shipments by sending and receiving data after a particular period of time with help of LEO, this technology can be used as an alternative of GPS. GPS is not always reliable, many of us could have experienced some issues while booking a cab i.e., our live location may not get tracked correctly.



Many businessmen would have invested a great deal of money for buying products which are transported through ships, so it is necessary to have a reliable connection. LPWA network can be used in places which are inaccessible by humans, for example it can be placed in forest to detect the forest fires at earlier stage so that the forthcoming damages could be minimized. Other applications of this technology include Air pollution monitoring, home security, animal tracking, etc.

The above listed applications are just few, with the development of IoT and advancement of technology we can develop many more applications. There are many more interesting and emerging things related to IOT. We have entered into the world of IoT, and let us continue our journey.



Isn't it fascinating to see how just the octaves or the sapta swaras form the different ragas which transcend into the beautiful ragas which we listen to?

With the legends such as Beethoven and Mozart starting off the composition and production of the western classicals and the famous trinity of Carnatic music namely Thiagaraja, Muthu swamy dikishitar and shyama shastri influencing the composition patterns and methods of southern India and the Hindustani classicals in northern India.

The methods of music composition and production have changed throughout the years but the taste, influence and fandoms of music have been exponentially increasing.

The influence of music on our thoughts has always been prominent but in the recent years this has developed into a study known as music therapy. Music therapy is the use of music to address the physical, emotional, cognitive and social needs of a group or individual. Some researches even suggests that your taste in music can provide insight into the different aspects of your personality.

Some studies have suggested the impact of listening to instrumentals or upbeat background music while performing or focusing on other tasks improves your processing speed, increased focus and boosts your mental performance while listening to songs with lyrics might distract you.



One of the most important and long suggested theory is that music can help to reduce or manage stress. The recent trends on frequency-oriented music or meditative music created to relax and soothe the mind can be an effective way to deal with stress.

Now coming to the surprise factor to us students, most of us have the habit of listening to music while doing assignments and stuff, some researches do suggest that listening to music while studying or doing assignments can improve memory but it depends on various factors such as the genre of music, how well you enjoy the music and even how musically trained you are.so to all the music fans or musically trained students out there it is better to work in silence or listening to neutral tracks which won't distract you.



The other well-known advantages of listening to music are reduction of symptoms of depression, mood improvement, insomnia remedies etc.

To all the music fans, be open to all kinds of music and start listening to music from different genres, cultures and even languages and by discovering new tastes in music you are just helping yourself discovering the different aspects of your own personality.

### SUPER CAPACITORS - AN ERA OF CHANGE!

#### ARUN CHANGOTRA III YEAR



No doubt battery technologies are well established and widely used technology and For every act energy is required and it's not feasible to produce energy whenever ,wherever we need so to make it possible we need something to store energy but going on with primitive battery technology will be a major hurdle in paving the path of future technology. As an engineer it's our primary obligation to search for an alternative for existing batteries as is obvious in this nimble era we have to put stress on time management too, as in these primitive battery technologies the major problem is charging cycle time and charge discharge cycle so in search of improvements in these Technology

We land on the runway of super capacitor

The super capacitors are special capacitors with a large capacitance they combine properties of batteries and capacitors into a single device. The Supercaps have a charging time from 1 to 10 seconds, compared to 10 to 60 minutes for a full charge on a battery. Super capacitors can reach up to one million cycles, while typical batteries can have 500–1000 charge-discharge cycles.



The super capacitors have significantly matured over the last few years as due to advancements in technologies the seed of alternative for batteries has implanted

No doubt, at this stage of technology it's very difficult to portray super capacitors as a substitution for primitive battery technology majorly due to cost and production etc. but we know that it's still a sapling and we need to water and fertilize it properly to get our desired fruit. The path seems far more clear and straight. The thing is we just have to walk on it....

"And by the way, everything in life is writable if you have the outgoing guts to do it, and the imagination to improvise. The worst enemy to creativity is self-doubt." -Sylvia Plath

#### REDEEEM // PAGE 37

### AXIAL MOTORS : A NEW AGE OF ELECTRIC PROPULSION

SIVAN SRIMAN - III YEAR



Would you believe it if I told you that a motor designed two centuries ago that was considered obsolete back in its day is currently the most powerful and efficient motor design? For a long time, electric motors have been generalized to a standard design due to its ease of manufacturing. These motors are the radial flux motors. But thanks to the advancements made in manufacturing fields and extensive research done by organizations worldwide, we may soon see electric vehicles powered by axial flux motors.

Axial flux motors are, simply put, DC machines in which, the direction of magnetic field produced is parallel to the axis of rotation. The induction motors other dc machines we have seen in our labs are all radial flux motors, where the flux lines are perpendicular to the axis of rotation. The genius Michael Faraday first designed a DC generator, the Faraday Disc in 1831. In the Faraday Disc, the flux lines from the stationary magnets are parallel to the axis of the disc's rotation. However, this design never got to see the light of its day because it was inefficient due to the counterflow of current, which causes waste heating of the disc.

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Fast forward to the current day, and the vast improvements made in the electric propulsion field has made the axial flux motor a reality. Companies like Siemens and Magnax have already designed and prototype-tested their axial flux motor designs, and the results are something that cannot be ignored. For starters, the design is much more compact due to its topology, and the speed controller circuit can be integrated with the motor, owing to a cleaner design. Axial flux motors are also now following a yokeless design i.e., without a magnetic frame, which contributes greatly to the weight reduction.



These motors are also relatively more power dense when compared to its counter parts, owing to the fact that the majority of the flux lines are utilized for rotation. And a final major advantage is their high torque. The permanent magnets in the rotors can be placed farther away from the axis of the motor, which helps increase the torque.

All these factors have brought the axial flux motor to every automobile manufacturer, especially the aviation industry where high power density and compactness combined with high torque are a major requirement.

Soon we may be able to see electric aviation vehicles as envisioned by Edison over a century ago.

### PHOTOLYTIC INTERACTION OF AUTOMOBILES (LI-FI TECHNOLOGY)

SUNEETH D - II YEAR



As most of you know already the evident technology we use today for accessing internet is Wi-Fi (Wireless Fidelity). The basic principle behind this technology is transmitting data through RADIO WAVES which is proven to be one of the most harmful radiations for living beings. A couple of decades ago research scholars in the west discovered that data can be transferred in packs through light medium which merely consist of photon packets. This marked the beginning of Li-Fi technology.

A couple of years ago we as a team decided to extend the application of this new life changing technology to the real life scenario. As a result we ended up in devising this plan that could save millions of lives. Around 151,000 people lost their lives in traffic signals over last 2 years in India. We believe that it is possible to bring this count to 0 with the help of this device. The device structure mainly consist of two parts namely Transmitter and Receiver. In the real life scenario the Red light in the traffic signals acts as Transmitter and a Solar Panel (15X 7 cms)(to be installed in vehicles) acts as a Receiver. The Transmitter is programmed to transmit data through RED light of traffic signals using a Microcontroller attached to signals. The reason to choose RED light is that it has the longest wavelength which helps it reachlonger distance. Also light is 100% harmless and fastest unlike radiowaves. It takes fractionsof second to reach the Receiver (solar panel) in the approaching vehicles.

Once the data reaches the receiver through red light the magic of science begins. The Receiver on the other side checks for the data received (for e.g. the data received maybe "ABC").Once the received data matches with the data stored, the micro controller cuts off the engine and simultaneously apply the brake and clutch using internal hydraulics thus disengaging motors from the engine. As a result the vehicle comes to rest even before the stop line without Driver's will. Thus ensuring that not even single vehicle crosses the stop line in Traffic Signals which eventually brings the life loss count to 0.



We don't even need enormous investment and new infrastructure. This technology can be brought into real life with low costs and with existing infrastructure. We already have adequate Transmitters that is Red light in Traffic Signals. All we have to do is install the Receiver during the manufacturing process of the vehicles which adds few more hundredsof rupees to the vehicle costs. This may take some to implement 100%. But onceimplemented, this wold becomes a place with 0 deaths in Traffic accidents and childrencrossing zebra crossings all alone and going to schools happily.

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### INTERNATIONAL CONFERENCE ON POWER AND EMBEDDED DRIVE CONTROL (ICPEDC – 2021)



Department of EEE organized "3rd International Conference on Power and Embedded Drive Control (ICPEDC – 2019)" in virtual mode during August 25 – 27, 2021. The main objective of ICPEDC – 2021 is to discuss the latest developments and research results in all aspects of the design, modelling, application of devices, circuits and systems related to power and embedded drive control. This conference got overwhelming response from delegates both from abroad and India. The papers received includes papers from Industry, Academia and Research Institutes.

### INTERNATIONAL CONFERENCE ON POWER AND EMBEDDED DRIVE CONTROL (ICPEDC – 2021)



The Chief Guest for the conference was Dr. John Fletcher, Professor, Energy Systems Research Group University of New South Wales Australia. The Keynote speakers for the conference were:

1. Dr. Sheldon Williamson, Professor, Department of Electrical, Computer and Software Engineering, Ontario Tech University, Canada

2. Dr. Sanjay Shamrao Dambhare, Professor, Department of Electrical Engineering, College of Engineering, Pune, Maharashtra

The conference chair was Dr V Kamaraj Prf/ HoD/ EEE Department. Conveners: Dr Mrunal Deshpande, Dr R Rengaraj, Dr G R Venkata Krishnan and Dr V Thiyagrajan.

The conference received 122 papers out of which 84 were selected by the review committee for presentation through online. 50 papers, 10 each were presented in the 5 sessions spread over the three days of the conference.

### INTERNATIONAL CONFERENCE ON POWER AND EMBEDDED DRIVE CONTROL (ICPEDC – 2021)



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### THE INSTITUTE OF ENGINEERS -TECHNICAL WORKSHOP



The following event was conducted by Students' Chapter of The Institute of Engineers (India) – Department of EEE. Nature of event: National Level Technical WOrkshop Title of event: Industry 4.0 Speaker: Dr. B. Somasundaram, Senior Manager, International Society for Automation, Chennai Convener: Dr. V. Kamaraj, Co-ordinators: Dr. V. Thiyagarajan, Dr. Muthu Selvan N B Date of event: July 10, 2021 Number of participants: 95

#### FACULTY DEVELOPMENT PROGRAMME (FDP) ON "INTERACTIVE APPROACHES IN HANDLING RENEWABLE ENERGY SYSTEMS LABORATORY FOR THE NEW NORMAL"



Department of EEE Organized a Faculty Development Programme (FDP) on "Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal" during June 29 – July 02, 2021. The details are,

Conveners: Dr. V. Kamaraj (Prof. & amp; Head/EEE), Dr. R. Seyezhai, Dr. R. Ramaprabha & amp; Dr.M. Balaji (Asso.Profs./EEE)

Number of Participants: Registered - around 180;

Successful completed - 145

The FDP was inaugurated and addressed by Dr. V. Kamaraj. Dr. R. Seyezhai gave an overview of the program. Speakers:

Day 1/Session I: "Interactive approaches for handling Solar PV Energy System -Characteristics & MPPT with MatLab demonstration." by Dr. R. Ramaprabha, Asso. Prof./EEE

Day 1/Session II: "Shadowing effect and diode based solution in Solar PV System with MatLab demonstration" by Dr. R. Ramaprabha, Asso. Prof./EEE

Day 1/Sessions III & amp; IV: "Self-Practicing Sessions" assisted by Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

Day 2/Session V: "Interactive approaches for understanding the Characteristics of Wind Energy Generator with MatLab demonstration" by Dr. M. Balaji, Asso. Prof./EEE

Day 2/Session VI: "Hybrid Renewable Energy System with MatLab demonstration" by Dr. R. Seyezhai, Asso. Prof./EEE.

Day 2/Sessions VII & amp; VIII: "Self-Practicing Sessions" assisted by Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

Day 3/Session IX: "Interactive approaches for modelling Proton Exchange Membrane Fuel Cell with MatLab demonstration" by Dr. R. Seyezhai, Asso. Prof./EEE

Day 3/Session X: "Characteristics of Hydel Power System with MatLab demonstration" by Dr. M. Balaji, Asso. Prof./EEE

Day 3/Sessions XI & amp; XII: "Self-Practicing Sessions" assisted by Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

Day 4/Session XIII: "Fuzzy Logic Controller based MPPT for PV System" by Dr. R. Ramaprabha, Asso. Prof./EEE

Day 4/Session XIV: "Practical visualization of all experiments for the new normal." by

Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

Day 4/Sessions XV: "Self-Practicing Sessions" assisted by Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

Day 4/Sessions XVI: "Discussion on Innovative Practices and Interaction with Participants & Feedback" by Dr. R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

# PITCH A POEM!

#### PERPLEXITY

Granules of sand slipping away, Underneath my feet, Along with the tides of perplexed waters, Something's strange this time, Like the essence of the life, Moving out of its soulful home?

I just can't say, What does this chaotic mind crave for? Attention? Love? Care? Affection?

Nothing's still, Like two poles fixed inside my mind, Alike at times, repelling the facts.

Leaving residues of uncertainty, Somewhere behind my drooping eyes, I feel an unknown fetish,

It never thinks with brain nor heart, Just with a solemn confused soul.

> -HIMA SAI T II YEAR

# PITCH A POEM!

If we were to undo Nostalgies felt having a glimpse of childhood snaps.. Desire of pausing this by pursuing the past engulfs the mind

Nevertheless, can't be fulfilled due to man's evolution!! A view of rain drizzling at the balcony makes us cherish the college days..

Returning home at rain washed dusk with exhaustion Now longing for the same!!

This time inspects us by introspecting recalling things we have missed!! And this time allows us to think things undone in the past do in futu**re** 

Significance lies in the same scenario which all, regret only after the graduation!!! Hoping that this time paves the path for the same to be true!!!

-Sathya Priyaa III YEAR

## **ALUMNA TALK**

#### -A PIECE OF GUIDANCE FROM OUR ALUMNA SREEMUGI



Greetings, my dear SSNites!

"I wish there was a way to know you're in the good old days before you've actually left them." This quote, from the famous series 'The Office', is perhaps the most accurate description of how I feel about graduating college. After completing my high school in Dubai, I arrived at Chennai, filled with excitement and nervousness. Back then, I genuinely had no idea about our college, and was completely unaware about the laurels and fame it had earned over the years.

A new place, a new class, filled with faces I couldn't recognize, did put me on an edge. Being a hosteller, feeling homesick was second nature to me. But, as Leo Tolstoy once said, "The two most powerful warriors are patience and time". With time, I slowly found myself getting comfortable and started to ease up. I enjoyed attending classes, made great friends, and had an amazing time with my fellow hostellers. I've also been fortunate enough to organize various events for my department, and have been an active member of the SSN Math club. In fact, one of my most memorable moments would easily be hosting an international conference in our massive main auditorium.

SSN has been my safe haven for the past four years, nurturing my interpersonal skills, whilst shaping me for the world outside. I pursued electrical and electronics out of pure interest in maths and physics, and if I've been able to perform well in all these years, I owe it all to my professors. They've guided me through thick and thin, and have been patient enough with me to solve my doubts (even at ungodly hours!). Even when the bustling world came to a halt owing to the pandemic, and the entire dynamics of teaching changed, from in-person lectures, to online mode of education, my professors did everything they could, to make the class more vibrant and interactive. This, in itself, speaks volumes about the dedication and passion everyone in SSN exudes.

I've had my own fair share of struggles and battles, but who doesn't? I've faced many setbacks, and have had days when I couldn't even muster the courage or the energy to get off my bed. But on those days, you must be kind to yourself, and remember, that you aren't alone. As cliché as this might sound, everyone is fighting a battle, and it is completely okay to rely on your comrades when things get tough. I've had the best of friends anyone could ask for, who have literally and metaphorically picked me up when I fall, and I know they'll always be there for me, just as I would for them.



temporary setbacks are overshadowed by persistence!! It's amazing if you know what you are passionate about and what you want to achieve in life, but it is completely okay if you aren't aware about it either. Use your time in college to explore many domains, both academically and nonacademically. It is difficult to step out of your comfort zone, but all it takes is a single step, a leap of faith. It's okay if you don't succeed in them, the experience would've already shaped you into a bolder and better person than yesterday.

After all, failure is nothing more than a valuable experience in disguise. Feel free to make mistakes and give yourself space to learn and grow from them. Respect your staffs, professors and your peers, and be kind to everyone around you. Choose your friends wisely, and be there for them. A good peer group will motivate you to do better, be better, and will always have your back, no matter what. Most importantly, believe in yourself, and trust the process. I have always been guilty of comparing myself with others around me, even in the most mundane of aspects, only to realize that life isn't an examination with a common question paper; it's a tailor-made assessment with no grades or marks.

As the Bhagvad Gita says, "It is better to live your own destiny imperfectly, than to live an imitation of somebody else's life with perfection."

Do I have everything figured out? No, not really, but I'm just starting my journey. As for my dear juniors, I wish you all the luck in the world! Feel free to reach out to me for anything; I'll try my best to be of help! After all, as Chris Gardner stated,

#### "The world is your oyster, it's up to you to find the pearls!"

-SREEMUGI R (BATCH OF 2017-2021) Reach out to me at sreechamp@gmail.com

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## **Success Stories**

Greetings, Readers! We are back with another interesting interview of one of our alumni for this edition. **Nishanth Thilagar**, Batch of 2016-2020, also the AEEE president of the year 2019-2020 is now pursuing masters in Management Science which is a major step towards his dream in becoming an Entrepreneur. Here are a few words that might be information and some inspiration to you from him.

"Everyone has a goal, objective...a dream! I wanted to become an entrepreneur and like most of us I did not know where to start off with. When I joined college, I worked really hard the first two years. At the same time, I had fun in being an active member of various clubs in our college. I learnt a lot while working in clubs; taking charge and responsibility , participating in hackathons. Organizing events for IEEE and AEEE, also coordinating for other events in college made me realize I liked management and felt like I wanted more of it. These things carved my interests in being a part of the AEEE committee and I was elected President which actually was a changing point of my career where my focus shifted from core electrical engineering to business and management. And that is when I decided to pursue a masters in management immediately after college instead of MBA after a few years which is what most people do because I wanted to be sure I was doing what I loved so, I went for it.



"My friends and classmates have been my major support in my applying and preparing process. We used to put collateral effort and even critique each others SOPs which made us rectify and make it even better. Our professors were a major support system, they helped us mold our essays and SOPs which made it perfect.

How did you manage to take time out for preparations for entrances in college?

"Honestly, it was really hard to juggle between college work and preparing for this. So, I have a lot of friends. A lot of contacts. My friends were already preparing for GRE in their third year. We all used to study and learn together. We used to be busy in college during the day, but in the evening and late nights, we all used to teach and learn from each other. Its about managing your time at the end of the day. Its how you spend it that makes a difference."

#### **GRE** preparation?

"When it comes to GRE, more and more practice sessions is what helps. Online courses like Magoosh, Princeton, Kaplan and GREdge might help. Taking a full five hour mock test will makes the accuracy and speed better. So, I used to take a lot of full length tests."



A few words to our readers!?

"So, the course I was going for was something different to take because not many people before me had, from our Electrical background. But I knew it was what I wanted so I went for it. I would say it is worth all the risks and hard work. Because, right now I am having fun learning here, its about having good conversation and learning new from so many different people which gives way to so many new and creative ideas and solutions. Also, if scores in GRE drop when you take it for the first time, don't let yourself down. Because it takes a lot of effort going from average to excellence. It takes practice every single day. Its your resilience that matters and which will take you ahead. If you can, work with a team for when you let yourself down, there will someone to encourage you and make you move forward.

All the best to all the future endeavors you take! I am always available to help. Connect through Linkedin!" Linkedin: https://www.linkedin.com/in/nishanth-thilagar/



## GATE



GATE exam (Graduate Aptitude Test in Engineering) is a computer-based standardized test conducted at the national level in India with an aim to examine the understanding of various engineering and science undergraduate subjects.

Qualifying in the GATE exam is a mandatory requirement for the engineering graduates who are seeking admissions and/or financial assistance to the Postgraduate Programs like Master's Doctoral with the Ministry of Education (MoE) and other Government Scholarships / Assistantships that are subject to the admission criteria's of the institutes.

GATE exam results are also used by some of the Public Sector Undertakings (PSUs) for their recruitment and by several other universities in India and abroad for admissions. In the last couple of years, GATE exam has been opened to the international students from the following countries as well,

- Bangladesh
- Nepal
- Sri Lanka
- Ethiopia
- United Arab Emirates



### **QUESTION PATTERN**

Questions Type	Marks	Negative Marking		
Multiple Choice	1 mark	0.33		
Questions (MCQs)	2 marks	0.66		
Multiple Select	1 mark	NIL		
Questions (MSQs)	2 marks	NIL		
Numerical Answer	1 mark	NIL		
Type Questions	2 marks	NIL		

### FEE DETAILS

Candidate Category	Fees On or before 21 <sup>st</sup> September	During the extende period (in Rs)
Female candidates (per paper)	Rs 750	Rs 1,250
SC/ST/ <u>PwD</u> category candidates (per paper)	Rs 1500	Rs 1,250
All other candidates (per paper)	Rs 1500	Rs 2000

The REDEEEM Team hopes you find this useful, and we wish you all the best in your future endeavours.



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# PLACEMENT REPORT



S.no	Name	Company placed	Category	Туре	CTC (in LPA)	Job descr iption	Job role
1.	Sai Arun V	Deloitte	Dream	IT	7.6	FTE	USI consultant
2.	Vignesh N	Deloitte	Dream	IT	7.6	FTE	Global design application
3.	Siddarth M	Deloitte	Dream	IT	7.6	FTE	USI consultant
4.	Surabhi S	Citibank	Super dream	IT	13.75	FTE	Software developer
5.	Hari Prasath S	TCS Digital	Dream	IT	7.2	FTE	Systems Engineer
6.	Navinsai Kaarthik T Y	Deloitte	Dream	IT	7.6	FTE	DAS
7.	A Muthiah	TCS Ninja	Regular	IT	3.9	FTE	AssistantSyste ms Engineer

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CAREER

## RECRUITMENT



Unite							
		Company			CTC	Job	
S.no	Name	company	Category	Туре	(in	descr	Job role
		placed			LPA)	iption	
8.	Dineshkumar S	TCS Ninja	Regular	IT	3.9	FTE	AssistantSyste ms Engineer
9.	Mohammed Ashik S	EY	Regular	Manage ment	4.37	Intern +FTE	Analyst
10.	Aishwarya Srinivasan	Deloitte	Dream	IT	7.6	FTE	Analyst
11.	Vishwa Raj V	Deloitte	Dream	IT	7.6	FTE	Deloitte Application studio
12.	Divyashree D	Optum	Super Dream	IT	13.81	FTE	Software Engineer
13.	Vimalan K M	TCS Digital	Dream	IT	7.2	FTE	Software Engineer
14.	TV Rajalakshmi	Optum	Super Dream	IT	13.81	Intern +FTE	Software Engineer
15.	Neythra Jayaprakash	Optum	Super Dream	IT	13.81	FTE	Software Engineer
16.	Deekshitha S	Citibank	Super Dream	IT	13.81	FTE	Technical Analyst
17.	Srividhya S	Comcast	Dream	Core	6	Intern +FTE	CPE- Developer
18.	Dhivyadharsh ini S	Cognizant	Dream	IT	6.75	Intern +FTE	Google engineer
19.	Sowmya G	Deloitte	Dream	IT	7.6	FTE	DAS
20.	Vishalini Maiswari S	Cognizant	Dream	IT	6.75	Intern +FTE	Software Developer
21.	Rethika M K	Comcast	Dream	Core	6	Intern +FTE	GET
22.	Saiprasath R	Comcast	Dream	Core	6	Intern +FTE	XRE
23.	Kaavyaa Shri S	Comcast	Dream	Core	6	Intern +FTE	Cyber Security team

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CAREER

## RECRUITMENT



SKILL	S /						APPLICATIO
S.no	Name	Company placed	Category	Туре	CTC (in LPA)	Job descr iption	Job role
24.	Harini C	Comcast	Dream	Core	6	Intern +FTE	CPE
25.	Cathirvel Balamurugan	Amadeus Software Labs	Dream	IT	9.32	Intern +FTE	Software Engineer
26.	Ramya S	Accolite	Super Dream	IT	11	Intern +FTE	Software Engineer
27.	Koupendra D B	SuperOps Technologi es	Dream	IT	6	Intern +FTE	Junior Software Engineer
28.	Keerthi Chidhampar anath	EY	Regular	Manage ment	4.37	FTE	Analyst
29.	Soorya S	Optum	Super Dream	IT	13.81	FTE	Software Engineer
30.	Prasanna Kumar T	Mckinsey	Super Dream	Manage ment	10	Intern +FTE	Junior Data Analyst
31.	Vignesh S	EY	Regular	Manage ment	4.37	Intern +FTE	Tech consulting analyst
32.	Arjun S	Comcast	Dream	IT	6	Intern +FTE	SDE
33.	Tanguturu Venkata	Oracle	Dream	IT	6.55	FTE	Associate consultant
34.	Shruthi C K	Optum	Super Dream	IT	13.8	FTE	Junior Software Engineer

## CROSSWORD

FIND THE FAMOUS INDIAN ENGINEERS!



#### Across

- 3. Missile Man of India
- 4. Father of the White Revolution in India
- 6. Metro Man of India
- 7. He invented Electronic Diary
- 8. Father of experimental fluid dynamics research in India

#### Down

- 1. 23rd Governor of the Reserve Bank of India and Electrical Engineer
- 2. Engineer's Day is celebrated in his memory.
- 5. Co-founder of Infosys