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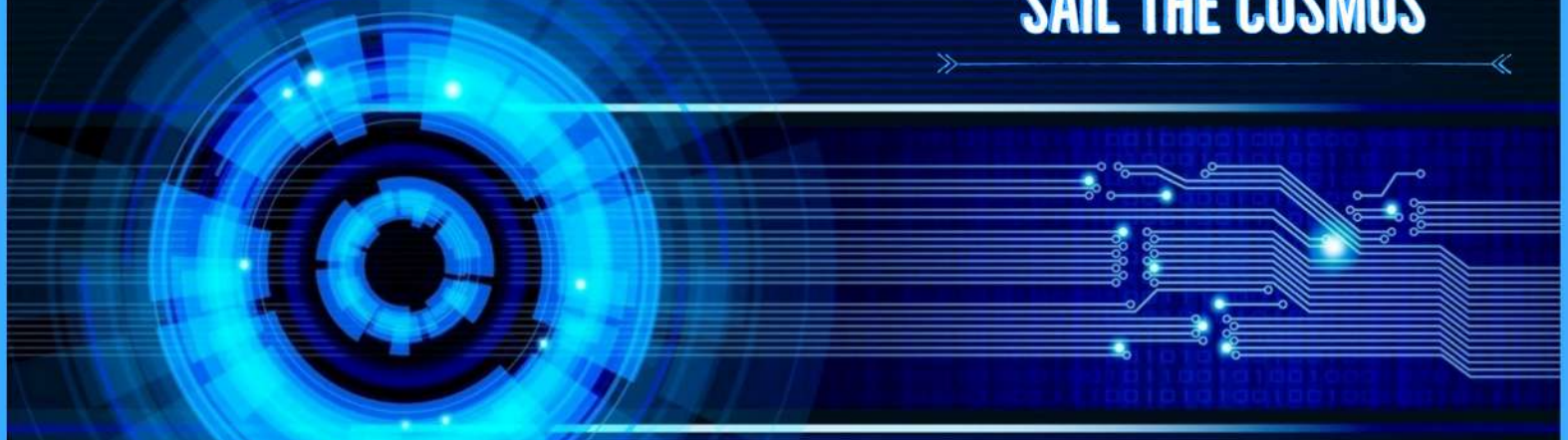
HOW PHOTONS HELP US SAIL THE COSMOS



ICRES

RTPEE

PLACEMENTS

Volume 9
Issue 2

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FROM HOD'S DESK

It gives us immense pleasure to present this newsletter which sheds light on the activities of the department in the past 3 months. We have moved all lectures to online and virtual laboratories as an emergency response to the spread of coronavirus (COVID-19). Our experience with the new system is quite good overall, because they increase access to different online tools and it was quite interesting and fascinating for us.

Faculty members have created a shorter concept-oriented videos which was more palatable and user friendly for the students. With break out room in Zoom, the activity session (problem solving/ designing/real-time application of the concept) in the online class was very interesting and helpful. Response from the students was so good with break out room sessions. Dr.Ganesh Samudra delivered a webinar on Best practices in open book tests to faculty members of our department.Department has the following future plans to make the institution globally visible.

Department has planned to offer one/two credit course by foreign professor to EEE students. Towards this effort Dr.Saad Mekhilef, Professor, Faculty of Engineering, University of Malaya will be delivering a one credit course from Feb 1,2021. We have also established good interaction with faculty from IIT,IISC,NIT,UNSW sydney, Ryerson University Canada, NUS Singapore. Dr.Nabeel Shirazee, Global CTO & MD ePropelled systems(https://epropelled.com/) delivered a keynote address in the International Conference on Renewable Energy Systems which was well received.

Our faculty members organized many technical events virtually. In R&D, the department is progressing in terms of good number of publications, no of PhD completion and submission of new proposals. I congratulate and thank all the faculty members who have contributed to the department.

EDITORIAL

This pandemic taught humanity many things. People became innovative, courageous and took more risks. For example, people who were not comfortable driving long distance, took the risk to go to native places for safety as well as economic reasons. They learned to cut their hair and do many other essential things by themselves with the help of YouTube. We learned that Gandhi cut hair by himself in the history. People who were shy and timid, became somehow courageous. They learned to devalue what others think of them. Demanding situations reveals the hidden potentials which were dormant. Nobody expected Narendera Modi to be such a prominent leader.

Only chances and inevitable situation make one grow and reach heights.The first step to achieve whatever one wanted, it is necessary to make a few habits. It will take a while to make it a habit. Also, it is not that easy to come over from old habits. If you are unaware, it will follow you till your last breath. As you age, you become a creature of habits, both with your behavior and your thinking.

When you are in a system for a long time you are hard wired to adopt the system and when a new system is introduced, having fully choked in the system for long time, it takes time to unlearn and relearn. Those who lack strong foundations in life, lack stability and they are uncomfortable for any new approaches. The fear of unknown dominates the logic and so it's hard for them to think on their own. Any change requires gradual, systemic approach and radical changes create an environment of insecurity.

Human beings do not generally accept their inability when it is beyond their capability. Instead of striving hard,they rather cover it up or blame others to safeguard their so-called image. It's hard, to appreciate others from the bottom of the heart.In any profession, people can do meaning full work only when they love what they do.Beyond some point, a person can't act. One must always seek to find his calling in life. A calling that fills us with passion and excitement. Nothing can rival the motivation that a person derives from something that he both enjoys and profits from.

EDITORIAL

When you analyze your perceptions, most of them are wasteful, impractical, judgmental comparison etc., other than serving the purpose. Somehow, we enjoy the wasteful perception. A meaningful chat and discussion reveals about lot of unknown things and gives divergent perspectives. Nowadays people almost forgot about socialization. We live in our mind which is unlimited area. Keeping the mind messy and polluted with hatred, regrets piling up in the corner, expectation boiling in the kitchen, hiding secrets under the carpet, speculative worry and fear ruin our mind. The key to performing well in life is the ability to control the quality and quantity of your inner dialogue. Your performance is potential minus internal interference. It takes a long time to understand that your quality of perception matters the most.

If you simply do not have enough attention at your disposal to devote to a task, no amount of motivation can help you. Plus, the activity is bound to quickly become unpleasant because you are unable to successfully perform it. Monitoring your capacity for attention takes some practice, but it can be done well over the period time. The distribution of your attention, and thus the contents of your mind, are much more strongly determined by the pleasure unconsciously than by any of your deliberate efforts. The pleasure-seeking thoughts and also the undercurrents that compulsively occupy our mind cannot help but be strongly rooted in reality.

Manipulating your external environment will have profound effects on what activities compel you and what your manifest actions will then be. By purposefully manipulating the surroundings in which he lives, a person can alter the motivation he derives from any activity. We are fooled by our mind when we were young and ignorant. But as we grow, we understand that we can also fool our mind.

Imagination is such a power full tool when you use it wisely and it is free!!

FACULTY ACTIVITY External Recognition

1. Dr.R. Seyezhai, ASSP/EEE delivered a webinar titled, “Project proposal Writing & Funding Agencies’ organized by Kongu College of Engineering, Perundurai on 01.07.2020.

2. Dr.R Ramaprabha, ASSP/EEE delivered a Webinar on “Design of Power Converters for Solar Photovoltaic Systems” organized by Power Innovative Research Consultancy (PIRC), Chennai on 6.07.2020.

3. Dr.V. Rajini, Prof/EEE, attended a synopsis meeting of the scholar Raghavendran Rajan at VIT on 15-7-2020.

4. Dr.V. Rajini, Prof/EEE, attended a DC meeting of the scholar Mr. Ganesh at Sathyabama University on 15-7-2020.

5. Dr.V. Rajini, Prof/EEE, as the Indian examiner of the thesis submitted by Ph. D scholar of VIT, T. Mariammal conducted the Ph.D. Viva voce on 23-7-2020.

6. Dr.M.Balaji , ASSP/EEE delivered a online lecture on "Overview of Machine Learning Approaches for Power Quality Disturbance Classification" at AICTE sponsored six days Online STTP on Mitigation of power quality issues in distributed generation systems using custom power devices organised by RMD Engineering college on 21.07.2020.

7. Dr.M.Balaji , ASSP/EEE chaired a technical session in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020.

8. Dr. N.B.Muthu Selvan delivered a lecture on "Design of Photovoltaic System", in a 3 day FDP titled, "Micro Grid Operation and Control", during 16th - 18th July 2020.

External Recognition

9. Dr P Saravanan delivered a talk on “Trends in IoT”, organized by Sri Eshwar college of engineering. Webinar series – “You can do it – Are you ready” on 28th July 2020.

10. Dr. R. Ramaprabha, ASSP/EEE delivered an online lecture in the AICTE sponsored STTP on the topic “Design and Modelling of Solar PV Array” on 05.08.2020 in the Forenoon session. The six days AICTE sponsored STTP was conducted by department of EEE, Misrimal Navajee Munoth Jain Engineering College Chennai on the title ‘Modeling and Simulation of Renewable Energy Systems using MATLAB’ during Aug 3-8, 2020.

11. Dr. R. Ramaprabha, ASSP/EEE chaired a session on Power systems on 13.08.2020 in TEQIP III sponsored international conference on Advances in modeling, control and optimization of electrical systems (ICAES 2020) on 13.08.2020 conducted by department of EEE, Pondicherry Engineering College, Puducherry.

12. Dr.R.Seyezhai,ASSP/EEE delivered an invited Lecture on the topic "Modeling of PEM Fuel Cell using MATLAB" in the AICTE Sponsored Online Short Term Training Programme (STTP) on "Modeling and Simulation of Renewable Energy Systems using MATLAB” organized by Department of Electrical and Electronics Engineering, Misrimal Navajee Munoth Jain Engineering College, Chennai on 07.08.2020.

13. Dr.V.Thiyagarajan, ASSP/EEE has delivered a lecture on “Digital Classroom Training" for School Teachers, organized by Smt.Narbada Devi J.Agarwal Vivekananda Vidyalaya Sr. Secondary School, Unit of Vivekananda Educational Society, Vyasarpadi, Chennai on 29/08/2020.

14. Dr.V.Rajini, Prof/EEE attended a DC meeting at VIT chennai on 14-8-2020 for the research scholar J. Shri saranya, Supervisor: Dr Peer fatima, Dean/ SELECT, VIT.

External Recognition

15. Dr.V.Rajini, Prof/EEE attended a DC meeting at SRM University on 17-8-2020 for three research scholars, Mr. S. Senthil Murugan, Ms. Priya Kumari, Mr. V. Muralikrishnan , supervisor: Dr.A.Rathinam, Professor, SRMU.

16. Dr.V.Rajini, Prof/EEE attended a DC meeting at SRM University on 18-8-2020 for three research scholars, Ms. A. Sujitha, Mr. Balamurugan Saravanan as external member,.s upervisor: Dr.A.Rathinam, Professor, SRMU.

17. Dr.V.Rajini, prof/EEE attended DC meeting of Mr. S Boopalan, Arunai Engg college and examined his thesis for due corrections carried out after thesis evaluation and also recommended a oral board for his viva. Supervisors: Dr. A. Raghavendiran and Dr. A. Saravanan, Arunai Engg College.

18. Dr. K. Murugesan, ASSP/EEE delivered a webinar titled, “Thamizum Thonmaiyum organized by Suvadukal (NGO)- Tamil Teaching & writing practice organization on 18.09.2020.

19. Dr. R. Ramaprabha, ASSP/EEE appointed as Technical committee member for 2020 IEEE International Symposium on Sustainable Energy, Signal Processing & Cyber Security (IEEE-iSSSC 2020) which will be held during 16-17 Dec 2020 organized by GIET University, Gunupur, Odisha in association with IEEE Kolkata Section.

20. Dr.M. Balaji, ASSP/EEE delivered a guest lecture titled, “Artificial Neural Network’ organized by Manakula Vinayagar Institute of Technology,on 26.09.2020.

21. Dr.V.Rajini, Prof/EEE attended a Synopsis meeting at Sastra University on 1-9-2020 for the research scholar S. Natarajan, Supervisors: Dr Balasubramaniyan and S Gopal , WS Test systems.

External Recognition

22. Dr.V.Rajini, Prof/EEE attended a Synopsis meeting at Sastra University on 24-9-2020 for the research scholar Mohamed Ghouse , Supervisor: Dr Vijayarekha , Dean/ SELECT and S. Gopal, WS Test systems.

Research Activity

1. Seyezhai and R.Niraimathi, “Analysis, Simulation and Implementation of a Novel Dual Bridge Asymmetric Cascaded Multi Level Inverter using MGWO-PI-PWM controller ", Microprocessors and Microsystems , 2020. Indexed in Clarivate Analytics Impact Factor: 1.161

2. S. Lakshmi and Dr. R. Ramaprabha, ASSP/EEE "Stability Evaluation of Four Phase High Gain Converter by small Signal Modeling", Revue Roumaine Des Sciences Techniques– Serie Electro technique et Energetique (ISSN / eISSN:0035-4066), Vol. 65, 1-2, pp. 75–80, Bucarest, Jul 2020- Clarivate Analytics (Thomson Reuters) JCR impact factor (2019/2020): 0.760

3. S.S. Dheeban, N.B. Muthu Selvan, L. Krishnaveni, published a paper titled, “Performance improvement of Photo-Voltaic panels by Super-Lift Luo converter in standalone application” Materials Today: Proceedings available online from 19th July 2020, Scimago H Index 27, Scopus Cite Score 1.3.

4. Nandha Gopal J., Muthuselvan N.B, published a paper titled, “Current mode fractional order PID control of wind-based quadratic boost converter inverter system with enhanced time response” Circuit World, 10th August 2020. Scimago H Index 21, Web of science Impact Factor: 1.042.

Research Activity

5. G. Ramya and Dr. R. Ramaprabha, ASSP/EEE, “Performance Analysis of Photovoltaic Fed Grid Tied Modular Multilevel Converter”, U.P.B. Scientific Bulletin, Series C- Electrical Engineering and Computer Science, Vol. 82, Issue. 3, pp. 179-188, (ISSN (print): 2286-3540 / (online): 2286-3559), Vol. 16, No. 1, pp. 195-210, Sep 2020. Indexed in Scopus & Web of Science (Thomson Reuters) on 23.08.2020.

6. R.Seyezhai , ASSP/EEE and Dr.A.Bharathi Sankar , AP/School of Electronics Engineering, VIT University Chennai , published a paper titled, “Comparative analysis of Maximum Power Point Tracking Algorithms for Photovoltaic Applications” WSEAS Transactions on Power Systems, Vol.15, 2020, ISSN No. 2224-350X,pp.161-171.(SCOPUS Indexed, SJR Factor : 0.122 & SNIP Factor :0.171)

7. Padala Lakshmi Sai Vineetha (passed out PG student) and M. Balaji ASSP/EEE " Fault Classification in SRM Drive Using Hilbert Transform" Springer Lecture Notes in Electrical Engineering (LNEE, volume 688), “Advances in Smart Grid Technology, Select Proceedings of PECCON 2019 - Volume II”, pp. 121–133, Springer, online ISBN 978-981-15-7241-8 Print ISBN 978-981-15-7240-1 (eBook). Doi: https://doi.org/10.1007/978-981-15-7241-8_10- -Scopus indexed.

Book Chapter

1. T. Divya, FT RS/EEE and Dr. R. Ramaprabha, ASSP/EEE (2020) Mathematical Modelling of Embedded Switched-Inductor Z-Source Inverter for Photovoltaic Energy Conversion. In: Siano P., Jamuna K. (eds) Advances in Smart Grid Technology. Lecture Notes in Electrical Engineering, vol 687, pp 149-164, Springer, Singapore. https://doi.org/10.1007/978-981-15-7245-6_13 -WoS & Scopus indexed.

FACULTY ACTIVITY

Book Chapter

2. Dr. R. Ramaprabha, ASSP/EEE and S. Malathy (2020) Hybrid Algorithms to Track Peak Power in Solar PV Array under All Irradiation Conditions version. In: Siano P., Jamuna K. (eds) Advances in Smart Grid Technology. Lecture Notes in Electrical Engineering, vol 687, pp. 165 -178, Springer, Singapore.
https://doi.org/10.1007/978-981-15-7245-6_14 WoS & Scopus indexed.

3. Dr. M. Pandikumar, ASSP/EEE and Dr. R. Ramaprabha, ASSP/EEE (2020) Financial Analysis of Diesel and Solar Photovoltaic Water Pumping Systems. In: Siano P., Jamuna K. (eds) Advances in Smart Grid Technology. Lecture Notes in Electrical Engineering, vol 687, pp. 179 – 188, Springer, Singapore.
https://doi.org/10.1007/978-981-15-7245-6_15 - WoS & Scopus indexed.

Conference Activity

1. Dr.R.Seyezhai,ASSP and S.Devi(Full-time research scholar) presented a paper titled “Investigation of Single - Phase T- type inverter for reduction of Total Harmonic Distortion in the Output Voltage" at Virtual International Conference on “AI and ML Applications in Smart Buildings” (AMSB2020) held on July 23rd to July 24th 2020 at VIT Chennai, India.

2. Dr. R. Ramaprabha, ASSP/EEE and G. Ramya, “Global MPP Tracking for Partial shaded PV System using Fractional Order Extreme Seeking controller”, Virtual Conference on Recent Trends on Renewable Energy, Smart Grid and Electric Vehicle Technologies (RESGEVT20), July 09, 2020 conducted by VIT, Vellore, India presented by Dr. R. Ramaprabha through online.

3. Oliviya Joselin Komagal, PG Student/EEE and Dr. R. Ramaprabha, ASSP/EEE, “Simulation and Analysis of An Extended Boost Topology of Z-Source Inverter suitable for PV”, Virtual Conference on Recent Trends on Renewable Energy, Smart Grid and Electric Vehicle Technologies (RESGEVT20), July 09, 2020 conducted by Vellore Institute of technology (VIT), Vellore, India presented by E. Oliviya Joselin Komagal through online.

Conference Activity

4. M.Augustein (Part time,Research Scholar), M.Karthika (PG Student), M.Balaji(ASSP/EEE) and V.Kamaraj(Prof & Head,EEE) presented a paper titled "Nonlinear Modeling and Performance Analysis of Segmented Rotor Switched Reluctance Motor" at the International Virtual Conference on Recent trends on Renewable Energy, Smart Grid, and Electric Vehicle Charging, organised by VIT VELLORE on 09.07.20204.

5. M.Augustein (Part time,Research Scholar), M.Karthika (PG Student), M.Balaji(ASSP/EEE) presented a paper titled "Performance analysis of 6/5 segmented rotor switched reluctance motor" in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020 and received best paper award.

6. Pradheep.S , Ramyabharathi.T , Suruthi.S (Third year UG students) , M. Balaji (ASSP/EEE) presented a paper ," DESIGN AND DEVELOPMENT OF SMART IRRIGATION SYSTEM USING IOT "in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020.

7. Preeti naidu kodidala, Surekha B,Vishnu priya SS,Gayathri N (Final year UG students), M. Balaji (ASSP/EEE) presented a paper ," DESIGN AND DEVELOPMENT OF SMART IRRIGATION SYSTEM USING IOT "in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020.

8. Dr. V. Thiyagarajan, ASSP/EEE, presented the paper titled "Switching Pulse Generation for Multilevel Inverters Using Flip-Flops" in the International Conference "Future Innovations and Research Challenges in Renewable Energy Systems 2020" organized by Bharath Institute of Higher Education and Research, Chennai on 10/07/2020.

Conference Activity

9. Dr. V. Thiyagarajan, ASSP/EEE, presented the paper titled "Analysis of New Cascaded Multilevel Inverter Topology with Reduced Switch Count" in the International Virtual Conference on “AI And MI Applications in Smart Buildings (AMSB2020)" organized by School of Electrical Engineering, VIT University, Chennai on 23/07/2020.

10. Dr.M.Balaji, ASSP/ EEE and Dr.V.S.Nagarajan, ASSP/EEE, along with Shivani K, Suryanarayana P S, Senthil V, Sai Santhosh G V (3rd year students), presented a paper titled “Design and Analysis of Fuzzy Logic Based Speed Controller for DC Motor”, at the International E-Conference On Challenges And Opportunities In Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2020), organized by EEE Department, SRM Easwari Engineering College, Chennai.

11. Dr.V.S.Nagarajan, ASSP/EEE, Dr.M.Balaji, ASSP/ EEE and Dr.V.Kamaraj, Professor and Head, EEE along with Sarvesh Krishna K,Shruthi Kamakshi R,S.Shrimathy,V.Shreemathy (3rd year students), presented a paper titled “Electromagnetic Analysis of Synchronous Reluctance Motor with various Cold Rolled Non – Oriented Silicon Steel Grades”, at the International E-Conference On Challenges And Opportunities In Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2020), organized by EEE Department, SRM Easwari Engineering College, Chennai.

12. Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Switching Pulse Generation Using Logic Gates for Asymmetric 11-Level Inverter" in the 2nd International Conference on Applied Science, Engineering, Pharmacy & Management ICAEPM-2020 organized by IIRM-SDT, Andhra Pradesh on 09/08/2020. This paper received the BEST PAPER PRESENTATION AWARD.

13. Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled " Small Signal Stability Analysis of Multimachine System With DFIG Based Wind Turbine" in the First Virtual International Conference on Renewable Energy Systems (ICRES2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 26/08/2020-28/08/2020.

Conference Activity

14. Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "A New Reduced Switch Count Asymmetric 75-Level Inverter Topology" in the First Virtual International Conference on Renewable Energy Systems (ICRES2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 26/08/2020-28/08/2020.

15. Dr. R. Ramaprabha, ASSP/EEE and G. Ramya, “Implementation of Fractional Order Extreme Seeking controller MPPT for Partial shaded PV System” TEQIP III sponsored international conference on Advances in modeling, control and optimization of electrical systems (ICAES 2020) on August 12 & 13, 2020 conducted by department of EEE, Pondicherry Engineering College, Department of Electrical and Electronics Engineering, Pondicherry Engineering College, Puducherry. Presented by Dr. R. Ramaprabha through online mode on 13/08/2020.

16. M.Karthika (PG Student), M.Augustein (Part time,Research Scholar), M.Balaji(ASSP/EEE) presented a paper titled "Neural Network Based Modeling of Segmented Rotor Switched Reluctance Motor" in International Conference on Advances in modeling, control and optimization of Electrical Systems (ICAES 2020) organised by Pondicherry Engineering College Puducherry on August 12,2020.

17. Dr.R.Seyezhai, ASSP/EEE and R.Indumathy (II Year M.E.(PED) presented a paper titled, “Simulation and Analysis of High Step up Two-phase Interleaved Boost Converter for Auxiliary Power Unit in the Virtual International Conference on Advances in modeling, control and optimization of Electrical Systems(ICAES 2020) organized by Department of EEE, Pondicherry Engineering College, Puducherry 12.8.2020.

18. Dr.R. Seyezhai,ASSP/EEE and M.Tamilarasi (Full-time research scholar) presented a paper titled, “Design ,Analysis and Implementation of Four-Phase Interleaved Boost Converter for Fuel Cells “ in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.

Conference Activity

19. Dr.R. Seyezhai,ASSP/EEE and J.Anto Sheeba (Part-time research scholar) presented a paper titled, “Examination and Analysis of Supply Current Control Strategies for Boost Flyback PFC Converter” in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.

20. Dr.R.Seyezhai,ASSP/EEE, Dr.D.Umarani,ASSP/EEE ,Dr.R.Sujatha, ASSP/Mathematics and S.Madhumitha (III Year CSE), R.Sudiksha (III Year EEE, B) presented a paper titled, “Reliability Examination of Single-phase Quasi Z-source Inverter for PV Applications” in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.

21. Dr.R. Seyezhai,ASSP/EEE, S.Sridhar (IV Year EEE B), S.Srikirthi (IV Year EEE, B) S.Swetha (IV Year EEE,B) and M.Sridhar (Full-time research scholar) presented a paper titled, “Investigation on Single-stage Electrolytic capacitor less AC-DC LED Driver” in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 27.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.

22. Dr.R. Seyezhai,ASSP/EEE, S.Purushothanam (IV Year EEE B), A.Sowmya (IV Year EEE, B) N.Ramakrishnan (IV Year EEE,B) and S.Harika (Full-time research scholar) presented a paper titled, “Design and Implementation of Boost-Buck DC-DC Converter for Battery Charging Applications” in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 28.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.

Conference Activity

23. V. Ramya, Dr. R. Ramaprabha, ASSP/EEE and Dr. M. Balaji, ASSP/EEE "Optimization of Specific Energy of Flywheel Using Differential Evolution and ANSYS Magnetic Software for Composite Material", 1st Virtual International Conference on enewable Energy Systems (ICRES-2020) during Aug 26-28, 2020, Department of EEE, SSN College of Engineering. – Presented by Dr. R. Ramaprabha & Dr. M. Balaji on Aug 27, 2020.

24.Dr. V. Thiyagarajan, ASSP/EEE, presented the paper titled "Digital Logic Circuit Technique based Switching Pulse Generation for Symmetrical 13-Level Inverter" in the Virtual International Conference on Frontiers in Smart Computing System Technologies (ICFSCST - 2020) organized by Scientific Society Group, Chennai during 03/09/2020-05/09/2020.

25. Mrunal Deshpande, Manish Kumar J, Leela Charumathi M, Nitesh Krishna V K , Dhilip Vignesh M S (IV Yr EEE) presented a paper, "Energy Generation Using Pv Panel For Home Appliances", Virtual National Conference on Recent Trends in Power and Energy Engineering Sept 17 and 18, 2020.

26. R.Ramaporselvi, Dr.G.Geetha Mohan, Dr.Mrunal Deshpande presented a paper, "Reducing Congestion Cost In The Multi Area Interconnected Deregulated Power System By Price Area Congestion Management", Virtual National Conference on Recent Trends in Power and Energy Engineering Sept 17 and 18, 2020.

27. Dinesh Ram Kumar Murugan (Student), Nishanth T (Student), Chandru B(Student), Abinaya V(Student), Dr. R. Rengaraj(ASSP/EEE), Dr. G. R. Venkatakrishnan (ASSP/EEE) presented a paper "Implementation of Modified Differential Evolution Algorithm for Hybrid Renewable Energy System" at the Virtual National Conference on Recent trends in Power and Energy Engineering, organised by Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam on 17.09.2020

Conference Activity

28. Dr.R.Seyezhai, ASSP/EEE, Dr.D.Umarani, ASSP/EEE, D.Meenapriya, S.Pavitra & Nandhini Priya (Passed out UG Batch) “Implementation of Solar Docking Station for Smart Phones”, in the Virtual National Conference on Recent Trends in Power and Energy Engineering (RTPEE - 2020) organized by the Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai on 17.9.2020.

29. Dr. R. Ramaprabha, ASSP/EEE, S. J. Indhra Pooja, M. Aishwarya and N. Divyasri, UG students/EEE, “Design and Implementation of Solar Powered Compact Dustbin”, Proceedings of the Virtual National Conference on “Recent Trends in Power and Energy Engineering - 2020", page no. 19, .September 17-18, 2020, Sri Sivasubramaniya Nadar College of Engineering, Chennai presented by S. J. Indhra Pooja UG student through online.

30. Tiwari Rahul (PG student/EEE), Nagarajan V S(ASSP/EEE) and V.Kamaraj(Prof &Head,EEE) presented a paper "Sensitivity Analysis and Design Methodology using Geometrical Parameters of a Ferrite Assisted Synchronous Reluctance Motor" at Virtual National Conference on Recent Trends in Power and Energy Engineering - 2020 (RTPEE - 2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17-18 September, 2020.

31. Nagarajan V S(ASSP/EEE),V.Kamaraj(Prof &Head,EEE), Sreemugi R (UG student, EEE), Rahul S Iyer(UG student, EEE), Rishi S P(UG student, EEE) and Srivatsan G (UG student, EEE) presented a paper " Electric Vehicle Technology - A Review on Motors, Power Converters and Batteries" at Virtual National Conference on Recent Trends in Power and Energy Engineering - 2020 (RTPEE - 2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17-18 September, 2020.

Conference Activity

32. Dr. V. Thiyagarajan, ASSP/EEE, R. Mirdula, (II Year/EEE), V. K. Praveena, (II Year/EEE), M. Sanjana, (II Year/EEE) and V. Vaishnavi (II Year/EEE) presented the paper titled "A K-Type 13-Level Inverter Topology With Minimum Switch Count" in the Virtual National Conference on “Recent Trends in Power and Energy Engineering - 2020" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17/09/2020-18/09/2020.

33. Dr. V. Thiyagarajan, ASSP/EEE, Roshan Darran R, (II Year/EEE), Vallabagurunath M, (II Year/EEE) and Rufus Derrick R (II Year/MECH) presented the paper titled "Smart Street Light Automation" in the Virtual National Conference on “Recent Trends in Power and Energy Engineering - 2020" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17/09/2020-18/09/2020.

34. Suruthi.S, Surya.A, Vivitha.S.U(UG Students), and Krishnaveni.S (ASSP/EEE) presented a paper, “Analysis of A Modified Two Switch Buck Boost Converter”, at the Virtual National Conference on Recent Trends in Power and Energy Engineering – 2020, organized by Sri Sivasubramaniya Nadar College Of Engineering, Chennai on 17.9.2020.

PROJECT NEWS Projects applied by faculty

1. Dr Mrunal Deshpande ASSP/EEE (PI) and Dr Govindraj Research Scientist, SSN RC (Co-PI) applied a project titled, “Fabrication of Bifacial Dye-Sensitized Solar Cells Using Conducting Transparent Counter Electrodes” on 29.07.2020.

2. Dr. M. Senthil Kumaran ASSP/EEE (PI) and Mr. Balaji Chandra , Research Scientist /SSN RC (Co-PI) submitted a project titled, “ Deposition and optimization of strontium niobate thin films as efficient UV transparent conducting electrode on 29.07.2020.

Projects applied by faculty

3. Dr. K. Murugesan (PI) and Dr. K. Usha (Co-PI) submitted a project titled, “Investigations on Deep Vision Sensors for Event Based Control” on 29.07.2020.

4. Dr. G.R.Venkatakrishnan (PI), Dr. R.Rengaraj and Dr. V. Kamaraj (Co-PI) submitted a project proposal titled, “Design and Development of fire resistant flexible cable for automotive applications” on 27.07.2020.

5. Dr. S. Tamilselvi (PI), Dr. R. Rengaraj and Dr. G.R.Venkatakrishnan (Co-PI) submitted a project titled,” Fault Detection of solar PV firm using machine learning and thermal image processing”on 27.07.2020.

6. Dr. V. Thiyagarajan and Dr. V. Kamaraj (PI) and Dr. R. Rengaraj and Dr. G.R.Venkatakrishnan (Co-PI) submitted a project titled Design and Implementation of smart controller for variable frequency drive on 27.07.2020.

7. Title: Dr. R. Rengaraj (PI), Dr. G.R.Venkatakrishnan and Dr. S. Karthie (Co-PI) submitted a project titled Design and Development of Low Frequency Magnetic Emission free cables for Electric Vehicles” 0n 27.07.2020

8. Dr. J. Anitha Roseline submitted a project titled Analysis of dynamic stability of a Ball Balancing Robot on 29.07.2020.

9. Dr. R. Rengaraj ASSP/EEE (Knowledge Partner) and Arvind Swamy , Predictive Energy Instruments (Head, New Productive Initiatives) applied a project titled " Intelligent Solar Plant Monitoring System" in the Innovation Voucher Program, Department of MSME, Tamil Nadu on 10.08.2020.

10. Dr. R. Rengaraj ASSP/EEE (PI), Dr. V. Kamaraj Prof/EEE (Co-PI) Dr. G.R. Venkatakrishnan ASSP/EEE (Co-PI), Dr. S. Karthie alias Ayyadurai ASSP/ECE (Co-PI) applied a project titled " Design and Development of Electromagnetic Interference Compatible Cables for Underground Mines" in the Ministry of Mines on 21.08.2020.

Projects applied by faculty

11. Dr Mrunal Deshpande (PI), Dr R Rengaraj (Co-PI) and Dr G R Venkatkrishnan (Co-PI) applied a project titled “Design and Development of a Compact, High Power Density Motor for Conveyers in Mines” in the Ministry of Mines on 04.09.2020.

12. Dr G. R. Venkatakrishnan ASSP/EEE (PI), Dr. K. Sathish Kumar ASSP/CHEM (Co-PI), Dr. R. Rengaraj ASSP/EEE (Co-PI) and Dr R. Prakash ASSP/MECH (Co-PI) applied a project titled, “Design and Development of Energy Efficient Lithium - Graphene Battery for Electric Vehicles in Underground Mines” in the Ministry of Mines on 12.09.2020.

13. Dr. R. Rengaraj ASSP/EEE (Knowledge Partner) and Mrs. Kumatha, MAAS RESEARCH SOLUTIONS LLP applied a project titled " Solar AutoClave" in the Innovation Voucher Program, Department of MSME, Tamil Nadu on 04.09.2020

14. Dr. G.R.Venkatakrishnan ASSP/EEE (Knowledge Partner) and Mr. Maruthupandi, FARMVALLI ORGANICS PVT LTD applied a project titled " Rent A Mini Agri Farm at Home" in the Innovation Voucher Program, Department of MSME, Tamil Nadu on 24.09.2020.

PROJECT NEWS

Student Projects

1. Dinesh P, Jerry Rinaldo S, Kedhar Narayanan, (EEE-A, II Year), Vinu Varshath S, EEE-B, II Year under the guidance of Dr.V Rajini, Prof/EEE applied a project titled “Implementation of Integrated Bidirectional Converter for Electric Vehicle Applications” on 31.07.2020.

2. Barath.V, Bharath Vishal.R, Harish.N & Harshad.S.S, IInd EEE under the guidance of Dr.R.Seyezhai applied a project titled, “Development of Single - Phase Split Source Inverter for Photovoltaic Systems” on 31.07.2020.

Student Projects

3. S.Sridhar,Vikram Vasudevan,S.Srikirthi (IV Year EEE,B) & P. Shree Vishnu (II Year EEE) under the guidance of Dr.R.Seyezhai applied a project titled, “Development of Integrated Boost PFC and Half Bridge LLC Resonant Converter for Led Applications”, on 31.07.2020.

4. R Ramya, S Shanmughapriya & S Swetha (IV year EEE,B) under the guidance of Dr.R.Seyezhai applied a project titled, “Investigation on Active Cell Balancing Topologies for Lithium-Ion Battery”, on 31.07.2020.

5.T.U. Nehadhruwa, S. Rohit Kumar, K. Srihari and S. Srikanth under the guidance of Dr.M.Balaji applied for project titled "Implementation of Four Quadrant Operation of BLDC Motor using STM 32 Microcontroller" on 31.07.2020.

6. Operation of BLDC Motor using STM 32 Microcontroller" on 31.07.20202. Avinash.K, Arjun.S, Barath kumar, Madhuri Shakya (EEE, 3rd year) under the guidance of Dr Mrunal Deshpande applied for project titled, “Generation of Piezoelectricity in common materials” on 29.07.2020.

7. Sivakarthikeyan J, R. Sri Hari, and Suraj Subramaniam N (III Year EEE) under the guidance of Dr. N.B.Muthu Selvan submitted a project titled, " Implementation of Smart Energy Meter using IOT based Cloud Database" on 30.07.2020.

8. A.Anitha, C.Arthi, .B.Bhuvaneshwari , P.Nandhini, (EEE-A, IV Year), R.Abitha and B.Dhivya Devi (EEE-A, III Year under the guidance of Dr.R.Deepalaxmi ASSP/EEE applied a project titled “Design and Implementation of Efficient Controller for DC Servomotor” under Internal student funding scheme on 31.07.2020.

Student Projects

9. Hari Prasath S, M. Venkata Sai Kiran, S. Mohammed Ashik and T.Y. NavinsaiKaarthik (III year B.E. EEE studnets) applied a project titled “Solar PV-powered SRM drive for Light Electric Vehicle” under the guidance of Dr. R. Ramaprabha, ASSP/EEE & Dr. M. Balaji, ASSP/EEE (SSN-IFP scheme).

10. Dinesh Kumar S, Pavankumar Reddy N, Vignesh S and Vinoth S (III year B.E. EEE students) “Implementation of Bidirectional T-Type Multilevel Inverter for Electric Vehicle Applications” under the guidance of applied a project titled Dr. R. Ramaprabha, ASSP/EEE (SSN-IFP scheme).

11. Arivazhagan.J, Nishal Varshan.G.K and Shalinie.S (II year B.E. EEE students) applied a project titled “Design and Implementation of Fused Energy Buffer Circuit using Flywheel Energy Storage System and Boost Multilevel Cascade Inverter” under the guidance of applied a project titled Dr. R. Ramaprabha, ASSP/EEE (SSN-IFP scheme).

12. Vishalini Mariswari S,(III Year EEE B) and Josh Susinth J, (III Year ECE) under the guidance of Dr.R.Seyezhai applied a project titled, “High Gain Interleaved boost converter with VMC for Micro grids” on 14.8.2020.

13. Hashmat J. Banday, (IV Year EEE), PRASANTH S, (IV Year EEE), & Tahoor Ahmad Mir(II Year EEE) under the guidance of Dr.R.Seyezhai applied a project titled, “Design and Development of an Integrated Battery Management System (i-BMS) on 14.8.2020.

14. Sai Santhosh G V (EEE-B, IV Year), Adhi Sankar N, Adhitya S S Bhargav Buss, (EEE-A, II Year), under the guidance of Dr.R.Rengaraj, ASSP/EEE applied a project titled “Non-Intrusive Load Monitoring Using PLC and SCADA” on 27.08.2020.

15. Parithi R (EEE-A, II Year), Sai krishna S, Saiprasath R, Siddharthan A,(EEE-B, II Year), under the guidance of Dr. G.R.Venkatakrishnan, ASSP/EEE applied a project titled " Intelligent Door During Pandemic Situation", on 27.08.2020.

Student Projects

16. Praveen kumar s,yogeshwaran E, vaitheeswaran B (EEE B II year) under the guidance of Dr.V.Rajini, Prof/EEE applied a project titled,"A low cost triple voltage bus, DC-DC onverter for automotive applications" on 25-8-2020.

17. Radhabai CP, Nishath afroza AJ, Tejaswini V (EEE B II year)under the guidance of Dr.V.Rajini, Prof/EEE applied a project titled," Design of DC-DC triple active bridge converters on 31-8-2020 for internal funding.

18. Supraja S, Saran Gantth, (EEE-A, II Year) under the guidance of Dr.P. Saravanan, Associate Prof/EEE applied a project titled “Autonomous Electric Delivery System” on 31.08.2020.

19. Amritha Rao, Anirudh Sethuraman, (EEE-A, II Year) under the guidance of Dr.P. Saravanan, Associate Prof/EEE and Dr. M. Anbuselvi, Associate Professor/ECE, applied a project titled “IoT based Battery Monitoring System for EV” on 31.08.2020.

20. Sriram.R, Praveen.W, Ragavan.B (EEE-B, III Year under the guidance of Dr.S.Krishnaveni, ASSP/EEE applied a project titled “Implementation of Battery-powered DC-DC converter fed motor drive system for agricultural water pumping applications” on 31.08.2020.

21. Rengarajan S, Sankaran K, and Vasanth V (III Year EEE), under the guidance of Dr.N.B. Muthu Selvan, Associate Professor/EEE applied a project titled “Implementation of Energy Efficient Solar DC microgrid” on 31.07.2020.

22. Sriram T S, Tharun Prakash, and Vignesh N (III Year EEE), under the guidance of Dr.N.B. Muthu Selvan, Associate Professor/EEE applied a project titled “A Raspberry PI based XY Plotter” on 31.07.2020.

PATENT INFO

1. Dr.V.Rajini, submitted the reply to FER for the patent titled, Modular intelligent Distribution Transformer " to Indian Patent Office.on 17-8-2020 Application no:201641014396.

SCHOLAR RELATED

1. Dr.R. Seyezhai, (ASSP) attended an online DC Confirmation meeting for the scholar Ms. Radhika conducted by Agni College of Engineering, Chennai.

2. Dr.R. Seyezhai, (ASSP) conducted the fourth online DC meeting for the scholar Mr T.S. Saravanan (part-time) through Zoom platform.

3. Dr.R. Seyezhai, attended an online DC meeting for the scholar Mr. Vasudevan conducted by Jerusalem College of Engineering, Chennai on 18.7.2020.

4. Mr. V. V Rajasegharan, part time research scholar of Dr.R R. Rengaraj has completed his viva - voce examination for his thesis titled " Adaptive Control Strategy of Quasi Z - Source Inverter for PV Grid Integrated System" on 08.07.2020.

5. Mr. Hithu Anand, Part time research scholar of Dr. R. Rengaraj has presented a virtual seminar on " A Lucid Approach to Pricing in a Micro-Grid and Consumer Benefit Smart Grid" on 30/7/2020.

6. Dr.R. Seyezhai, conducted a Zoom meeting for the full-time research scholars regarding the progress of their work.

7. Ms.S.Devividhya (Reg. No. 1524399112) research scholar of Dr.M.Balaji has completed her Ph.D. public Viva-Voce examination on 31st July 2020.

SCHOLAR RELATED

8. Ms Ramaporselvi R (reg No: 1524399764) research scholar of Dr Mrunal Deshpande presented virtual seminar on" Optimum location of renewable energy generated for congestion management in deregulated power system using PSO" on 13.07.2020.

9. Dr. N.B.Muthu Selvan attended a virtual Doctoral Committee Meeting for Confirmation of Provisional Registration of Mr.N.Jeyaprakash conducted on 31/07/2020 through at Department of EEE, St. Joseph's College of Engineering, Chennai – 119.

10. Mrs. Senthamil Selvi (Reg No: 2011173040) Part time research scholar of Dr. M. Senthil Kumaran has completed her viva - voce examination for his thesis titled, "Voltage Security Assessment in Power System" on 24/07/2020.

11. Dr. R. Ramaprabha, ASSP/EEE conducted synopsis meeting for her PhD candidate Ms. K. R. Shanmuga Vadivu on 19/08/2020 through online mode.

12. Dr. R. Ramaprabha, ASSP/EEE attended DC meeting on 19/08/2020 through online mode.

13. Dr. R. Ramaprabha, ASSP/EEE attended DC meeting for PhD candidate at department of EEE, VIT University as DC member on 31/08/2020.

14. Dr.R.Seyezhai, (ASSP) attended an online DC Synopsis meeting for the scholar Ms.V.Krithika conducted by SRM Institute of Science and Technology, Kattankulathur on 29.8.2020.

15. Dr.R. Rengaraj, (ASSP) conducted the Synopsis meeting for the scholar Mr Hithu Anand (part-time) through Zoom platform on 01.09.2020.

SCHOLAR RELATED

16. Dr.R.Seyezhai, ASSP/EEE attended an online DC meeting for the scholar Ms.Gomathi conducted by Saranathan College of Engineering, Trichy on 04.09.2020.

17. Dr.R.Seyezhai, ASSP/EEE conducted the DC confirmation meeting for the part-time scholar Ms.Anton Sheeba at SSNCE on 19.09.2020.

18. Dr. R. Ramaprabha, ASSP/EEE conducted synopsis meeting for her PhD candidate Ms. T. Divya on 14/09/2020 through online mode.

19. Dr.N.B, Muthu Selvan (ASSP) conducted the Confirmation DC meeting for the scholar Mr S S Dheeban (part-time) through Zoom platform on 26 – 09- 2020.

20. Dr.N.B, Muthu Selvan (ASSP) conducted the Research Seminar meeting for the scholar Mr S S Dheeban (part-time) on 25 – 09 – 2020 at EEE Seminar Hall.

FDP/WEBINAR/WORKSHOPS ATTENDED

1. Dr.V. Rajini, Pro/EEE, attended a workshop for Marghadharshaks organised by AICTE on 30-6-2020.

2. Dr.R. Rengaraj, ASP/EEE has attended a National Level FDP on " Microgrid: Operation & Control" organized by Department of Electrical and Electronics Engineering, SSN College of Engineering on July 16 - 18 2020.

3. Dr.R. Rengaraj, ASP/EEE attended a Webinar on " Simulation of Electric Vehicle Using MATLAB SIMULINK" organized by Guru Nanak Institute of Technology on July 07, 2020.

FDP/WEBINAR/WORKSHOPS ATTENDED

4. Dr.R. Seyezhai, attended the online FDP titled, “Virtual Teaching-Learning Process & Mental Status”, Organized By Department Of Education, Sadhan Chandra Mahavidyalaya, South 24 Parganas, West Bengal on 29.6.2020 to 5.7.2020.

5. Dr.R.Seyezhai, completed the two week online FDP “Machine Learning for Computer Vision” jointly organized by Electronics and ICT Academies during June 29 - July 8, 2020 under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” of the Ministry of Electronics and Information Technology (MeitY), Government of India during 29.6.2020 to 8.7.2020.

6. Dr. R. Ramaprabha, ASSP/EEE attended a 5 days Faculty development program on "Contemporary Challenges in Electrical Engineering and Aiding Technologies" during June 06-10, 2020 organized by Department of EEE, St. Joseph's College of Engineering, Chennai. Timings: 03.00 pm to 05.00 pm.

7. Dr. R. Ramaprabha, ASSP/EEE attended a 5 days Online Faculty development program on "Applications of Artificial intelligence for Modern Power system" during Jul 20-25, 2020. (Timings: 10 am to 11.30 am & 12.30 pm to 02.00 pm).

8. Dr.M.Balaji, attended Faculty Development Program on "Contemporary Challenges in Electrical Engineering and Aiding Technologies” organised by St.Joseph's College of Engineering during 06.07.2020 to 10.07.2020.

9. Dr. V. Thiyagarajan, ASSP/EEE, has participated in Faculty Development Program on “Automation in Industrial Revolution” organised by Kalasalingam Institute of Technology, Virudhunagar during 29/06/2020 - 01/07/2020.

10. Dr. V. Thiyagarajan, ASSP/EEE, has attended the TEQIP-III sponsored Faculty Development Programme on “Power Electronic Applications to Renewable energy systems and Energy storage systems” organised by the National Institute of Engineering, Mysuru during 06/07/2020-10/07/2020.

FDP/WEBINAR/WORKSHOPS ATTENDED

11. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a National Level FDP on " Microgrid: Operation & Control" organized by Department of Electrical and Electronics Engineering, SSN College of Engineering on July 16 - 18 2020.

12. Dr.N.B. Muthu Selvan , ASSP/EEE, attended AICTE sponsored - Six days online STTP on, “Mitigation Of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices – II” from 17th August to 24th August 2020, organised by the Department of Electrical & Electronics Engineering, R.M.D Engineering College, Chennai.

13. Dr.R.Deepalxmi, ASSP/EEE, attended Online Faculty Development Program on “Recent Trends and Opportunities in Electricity: Generation, Transmission and Distribution” organized by School of Electrical Engineering, VIT University, Chennai Campus, during 17-21 August, 2020.

14. Dr. V. Thiyagarajan, ASSP/EEE, has participated and successfully completed TEQIP-III Sponsored Five days Faculty Development Program on “Renewable Power Generation, Control and Grid Integration” organized by Indira Gandhi Institute of Technology, Sarang during 10/08/2020 - 14/08/2020.

15. Dr. V. Thiyagarajan, ASSP/EEE, has attended AICTE sponsored online STTP on "Cyber Security And Resilience Of Smart Grid (CSRSG)" organised by KCG College of Technology, Chennai during 27/07/2020 - 01/08/2020.

16. Dr. V. Thiyagarajan, ASSP/EEE, has attended the online workshop on “Virtual Conduct of Electric Drives Lab" using MATLAB software organised by SRM Institute of Science & Technology, Ramapuram Campus, Chennai on 02/08/2020.

FDP/WEBINAR/WORKSHOPS ATTENDED

17. Dr. V. Thiyagarajan, ASSP/EEE, has attended AICTE sponsored six days online STTP on "Digital Controllers for Power Electronics Applications" organised by Syed Ammal Engineering College, Ramanathapuram during 03/08/2020 - 08/08/2020.

18. Dr. V. Thiyagarajan, ASSP/EEE, has attended the Webinar on "Learn to Create Twitter Bot using Python" organised by Diazonic Labs on 16/08/2020.

19. Dr. V. Thiyagarajan, ASSP/EEE, has attended the STTP on "Recent Trends and Challenges in Smart Grid Technology" organised by Sri Ramakrishna Engineering College, Coimbatore during 17/08/2020 - 21/08/2020.

20. Dr. R. Ramaprabha, ASSP/EEE attended the webinar on "Open Book Test" organised by the department of EEE, SSNCE by Prof.Ganesh Samudra on Aug 11, 2020 from 06:30 PM to 08.00 PM.

21. Dr. R. Ramaprabha, ASSP/EEE attended the webinar on Simulation of Electronics Projects using Proteus Software delivered by Dr. M Muruganandam, Ibri College of Technology, Ibri, Sultanate of Oman on 14th August 2020. The event is conducted by Department of EEE, SSNCE.

22. Dr. R. Ramaprabha, ASSP/EEE attended the webinar on Machine Learning Basics for Electrical Engineering on 21st August 2020 between 05:30 PM to 07:00 PM delivered by Dr. Vijayalakshmi.P, Karpagam Academy of Higher Education (Deemed to-be University), Coimbatore, Tamil Nadu, India The event is conducted by Department of EEE, SSNCE.

23. Dr.R. Seyezhai/ASSP/EEE, attended the online FDP titled, “Flipped Class room”, Organized By School of Engineering and Technology, Anjuman -I-Islams Kalasekar Technical Campus, New Panvel, Maharastra on 15.8.2020.

FDP/WEBINAR/WORKSHOPS ATTENDED

24. Dr.V. Rajini, Prof/EEE, attended a workshop on "Aspects of Outcome based education and use of software" organised by SVCE on 6 to 8-8-2020.

25. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Faculty Development Program on “Industrial Automation and Control” organized by SLN College of Engineering during 29/08/2020-01/09/2020.

26. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Faculty Development Program on "Industrial Automation using PLC/SCADA with IoT" organized by VIT University, Chennai during 21/09/2020-25/09/2020.

27. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Faculty Development Program on "Recent Research Advances in Electrical Engineering" organized by Government College of Engineering and Technology, Jammu and University Institute of Engineering and Technology, Chandigarh during 26/09/2020-30/09/2020.

OTHER EVENTS

1. Dr.R. Seyezhai, ASSP attended the A Two - Day National Level E-Workshop on Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming organized by Faculty of Humanities and Science, Adayalampattu Phase II Campus, Dr.MGR Educational and Research Institute, Chennai during 11-12, July 2020.

2. Dr. R .Seyezhai, attended the webinar on, “Solar Photovoltaic as Emerging Technology for Sustainable Energy Solution & Some studies on Advanced Materials for Solar Cell Application" organized by IMPS College of Engineering & Technology on 16.7.2020.

3. Dr.R. Seyezhai, ASSP attended the webinar on,”FDP Outcome Based Education Software “ organized by Vmedulife on 16.7.2020.

OTHER EVENTS

4. Dr. R. Ramaprabha, ASSP/EEE attended a Webinar on “Integration on Renewable Energy Systems with Microgrid”’ organized by Department of Electrical and Electronics Engineering, Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada on 01.07.2020, Time : 12 pm to 1.30 pm.

5. Dr. R. Ramaprabha, ASSP/EEE attended an Industrial Webinar on “Power System Protection in Digital Era” organized by EEE Department, Velammal Engineering College, Chennai. Jul 01, 2020 Time : 04:30 pm to 06:00pm.

6. Dr. R. Ramaprabha, ASSP/EEE attended a webinar on “Post COVID-19 Challenges on Healthcare Field for Budding Engineers” conducted by PSNA Engineering College, Dindigul, India on July 7 between 10 am to 11 am.

7. Dr. R. Ramaprabha, ASSP/EEE attended IEEE - ABET Webinar on Accreditation and Quality of Engineering Education in South Asia on July 8, 2020 between 6 pm to 8.30 pm.

8. Dr. R. Ramaprabha, ASSP/EEE attended Webinar on “Control System and its Applications” conducted by Jai Shriram Engineering College, Tirupur on July 8, 2020 between 10 am to 11.30 am.

9. Dr. R. Ramaprabha, ASSP/EEE attended webinar on Evolution of Automotive Electronics” on July 18 organized by PSNA College of Engineering and Technology, Dindigul, Tamilnadu on 18.07.2020 (between 11 am to 12.15 pm) - Resource Person Mr. Karthik Jyothilekshmi, Senior Technical Lead, Mercedes - Benz R&D India, Bengaluru, Karnataka.

10. Dr. N.B.Muthu Selvan attended a Webinar on, "Robotics-Connecting Engineering Minds", by Dr. S.K. Saha, IIT Delhi on 22nd July 2020.

OTHER EVENTS

11. Dr. R. Ramaprabha, ASSP/EEE attended Webinar on “Fault diagnosis in Wind Energy systems using Machine Learning” delivered by Dr. Kenneth E. Okedu, Associate Professor, Department of Electrical and Computer Engineering, National University of Science and Technology, Sultanate of Oman conducted by Department of EEE, SSN College of Engineering, Kalavakkam on July 28, 2020 between 10.30 am to 12.00 noon.

12 Dr. R. Ramaprabha, ASSP/EEE attended Webinar on “Intellectual Property Rights and Hegemonic Relations: Indian Experience in the Protection of Traditional Knowledge” conducted by Christ University Nodal Office, Vazhuthacaud, Thiruvananthapuram, Kerala on July 28, 2020, 06.00 pm to 07.00 pm.

13. Dr.R.Deepalaxmi, ASSP/EEE, attended Webinar titled " Utilizing AI for Hardness Testing” conducted by ZwickRoell training through virtual forum on 30-06-2020.

14. Dr.R.Deepalaxmi, Asso.Prof/EEE attended Webinar titled “ Machine Learning for Nonlinear System Identification” organized by School of Electrical Engineering, VIT University, Chennai on 11-07-20.20.

15. Dr.R.Deepalaxmi, Asso.Prof/EEE , attended Technical Training Program on “ Power Electronics Using MATLB (code O)” conducted by IETE Mumbai in association with Pantech E-learning during 13-07-2020 to 17-07-2020.

16. Dr. V. Thiyagarajan, ASSP/EEE, has attended the online training on “Introduction to PLECS Tool for Power Electronics Applications” organised by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada during 02/07/2020-06/07/2020.

OTHER EVENTS

17. Dr. V. Thiyagarajan, ASSP/EEE, has actively participated in the Technical Education Quality Improvement Programme (TEQIP-III) sponsored International Workshop on “Electric Power Grid Modernisation: Trends, Challenges and Opportunities” organised by the National Institute of Engineering, Mysuru during 20/07/2020 - 24/07/2020.

18. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a STTP on " Grid Connected and Islanded Microgrid Design using HOMER Pro" handled by Power Projects, Chennai, organized by Department of Electrical and Electronics Engineering, St.Joseph’s Institute of Technology on July 13th to15th 2020.

19. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Artificial Intelligence" organized by Bharat Institute of Engineering and Technology on June 27, 2020.

20. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Embedded Systems" organized by Pantech E Learning on July 06, 2020.

21. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Simulation of Electric Vehicle Using MATLAB SIMULINK" organized by Guru Nanak Institute of Technology on July 07, 2020.

22. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Industry 4.0" organized by Pantech E Learning on July 03, 2020.

23. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Robotics" organized by K.S.R College of Engineering on July 04, 2020.

24. Dr. G.R.Venkatakrishnan, ASP/EEE has attended a Webinar on " Latest Trends in Green Energy Technologies" organized by Sridevi Women's Engineering College on July 02, 2020.

OTHER EVENTS

25. Dr. Alagu Dheeraj, attended a Webinar on "Innovation: What, Why & How?", organized by organized by IEEE India Council, IEEE Bangalore Section on 19/07/2020.

26. Dr. Alagu Dheeraj, attended a Webinar on “Assessing loss in your Transformer and Life Cycle cost with a case study “, organized by NPC INDIA on 22/07/2020.

27. Dr. Alagu Dheeraj, attended a Webinar on “Geographical Information System (GIS)”, organized by NPC INDIA on 27/07/2020.

28. Dr. Alagu Dheeraj, attended a Webinar on “Webinar on Fault diagnosis in Wind Energy systems using Machine Learning”, Organized by Department of Electrical and Electronics Engineering SSN College of Engineering, Kalavakkam – 603110 on 28/07/2020.

29. Alagu Dheeraj, attended a Webinar on “Challenges in reducing Operating costs in Electrical Equipments/Systems”, organized by NPC INDIA on 29/07/2020.

30. Dr. Alagu Dheeraj, attended a Webinar on “Managing Stress During Turbulent Times”, organized by NPC INDIA on 30/07/2020.

31. Dr.V.S.Nagarajan, attended a webinar titled “Fast Analytical Modeling of PM Assisted Synchronous Reluctance Machines for Automotive Applications”, organized by PEMC research group of University of Nottingham.

32. Dr.R.Deepalaxmi, ASSP attended the “Panel Discussion on Online Education Challenges in Assessment and Open Book Examinations “ organized by ACM Chennai, IEEE CS Madras & CSI Chennai on 27 th, August 2020.

OTHER EVENTS

33. Dr.R. Seyezhai, ASSP/EEE attended the webinar series on," Research Challenges in Power Electronics & Power Systems" organized by Department of EEE, Balaji Institute of Technology & Science, Warrangal during Aug.5-7, 2020.

34. Dr Mrunal Deshpande attended two Day Webinar on "Advanced Materials for Energy Storage and Fuel Cell Applications "organized by School of Physics, Gangadhar Meher University, Sambalpur, Odisha.

35. Dr Mrunal Deshpande attended key user online training programme arranged by Panopto on 11.9.2020.

36. Dr.R. Seyezhai, ASSP/EEE attended the three-day Short-Term Training Program (STTP) on "Innovative Smart Grid Technologies" organized by the Department of EEE, SSN CE, during 2-4 September 2020.

37. Dr.R.Seyezhai, ASSP/EEE attended the online training programme on Panopto organized by SSN School of Advanced Career Education on 11.9.2020.

38. Dr. R. Ramaprabha, ASSP/EEE attended the webinar on IoT – Its Significance and Applications on 24th August 2020 delivered by Dr. N. B. Prakash, National Engineering College, Kovilpatti, Tamil Nadu, India The event is conducted by Department of EEE, SSNCE.

39. Dr. R. Ramaprabha, ASSP/EEE attended 3 day National Level Virtual Short Term Training Programme on "Innovative Smart Grid Technologies" during September 02-04, 2020. The event was conducted by Department of EEE, SSNCE.

OTHER EVENTS

40. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Short Term Training Programme on "Recent Trends in Artificial Intelligence Techniques with its applications" organized by Kalinga University, Raipur during 01/09/2020 & 02/09/2020.

41. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Short Term Training Program on "Power Electronics Applications to Industrial Systems" organized by NIT Silchar during 07/09/2020 - 11/09/2020.

42. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Short Term Training Programme on " Emerging Trends in Robotics and its Applications" organized by PSNA College of Engineering and Technology, Dindigul during 09/09/2020 - 14/09/2020.

43. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the Webinar on “Application of Solar PV System in Remote Areas” organized by Radhakrishna Institute of Technology and Engineering, Bhubaneswar on 09/09/2020.

44. Dr. V. Thiyagarajan, ASSP/EEE, has participated in the International Webinar on "Guide for Ethical Leadership" delivered by Dr. David Zettel, Adjunct Professor, Mount Mary University, USA and organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai on 19/09/2020.

45. Dr.V. Rajini, Prof/EEE, attended a workshop on "2-Day National Open Workshop on Getting Aligned to the Publishing Process Confirmation" conducted by Elsevier on 25-9-2020 and 29-9-2020

46 Dr.N.B. Muthu Selvan , Associate Prof/EEE, AICTE sponsored - Six days online STTP on, “Mitigation Of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices – III” from 14th to 19th September 2020, organised by the Department of Electrical & Electronics Engineering, R.M.D Engineering College, Chennai

EVENTS CONDUCTED

Workshops

1. Dr.V.Rajini ,Prof/EEE , convened an online capacity building workshop on E content development for digital learning. Conveners: Dr.V. Kamaraj, Dr.V. Rajini. Co-ordinators: Dr.K.Usha Dr.S. Krishnaveni, Dr Alagu Dheeraj.

Webinars

1. Webinar was arranged on 27th July 2020 on topic : IOT based solutions: Industry 4.0 for LV Distributed Systems. It was delivered by Mr Dev Chandra Kuril of ABB Organizers: Dr. V. Kamaraj, Dr Mrunal Deshpande, Dr R Rengaraj, Dr G Venkatakrishnan and Dr V Thiyagrajan.

2. Webinar was arranged on 29th July 2020 on topic : Role of Engineers at Different Stages In Life Cycle Management of Transformers. It was delivered by Mr Rajeev Bhave, Director of Vishwas Power Engineering Services Private limited Nagpur, Maharashtra Organizers: Dr. V. Kamaraj, Dr Mrunal Deshpande, Dr R Rengaraj, Dr G Venkatakrishnan and Dr V Thiyagrajan.

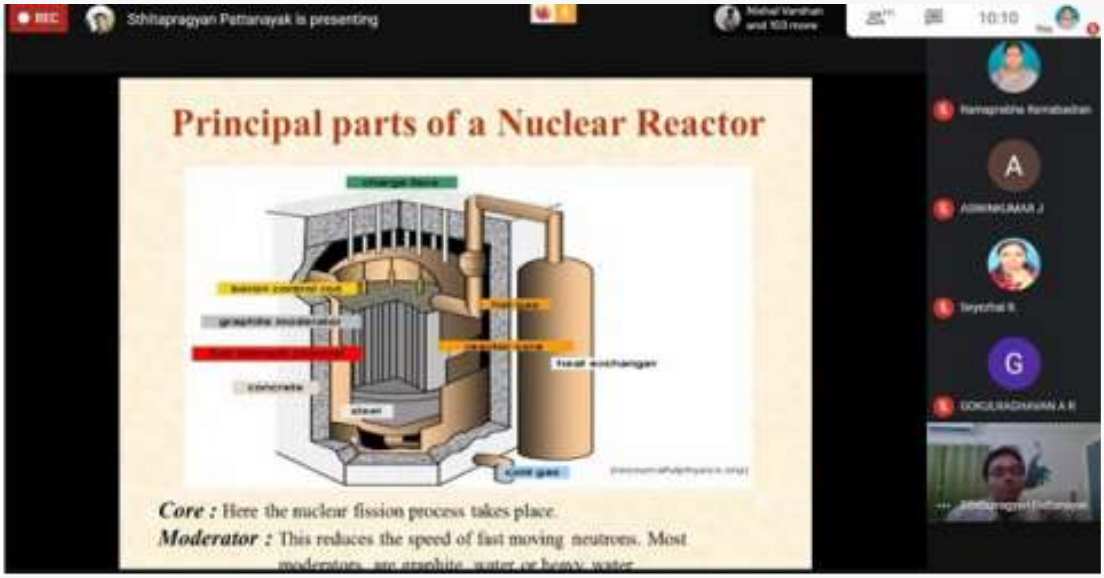
3. Dr. Kenneth E. Okedu, Associate Professor, Department of Electrical and Computer Science Engineering, National University of Science and Technology, Oman delivered a Webinar on the topic "Fault diagnosis in Wind Energy systems using Machine Learning" organizers Dr.R.Leo and Dr.M Pandiakumar. on 28.07.2020.

4. A Webinar was delivered by Mr Rajeev Shevgaonkar, Managing partner, North Star, Pune on the topic: "Transformers: Diagnostic techniques for life enhancement" on 7th August 2020. Organizers: Dr. V. Kamaraj, Dr. Mrunal Deshpande, Dr. R Rengaraj, Dr. G R Venkatakrishnan and Dr. V.Thiyagrajan.

Webinars

5. A Webinar was delivered by Mr. Ganesh Samudra, Professor, National University, Singapore on the topic: “Open Book Test” on 11th August 2020. Organizers: Dr. V. Kamaraj and Dr.R.Deepalaxmi.

6. Dr. R. Ramaprabha, ASSP/EEE and Dr. R. Seyezhai, ASSP/EEE arranged an Industry Guest lecture on “Overview of Nuclear Power Plants” on 19.09.2019. The lecture was delivered by Shri. Sthithapragyan Patnaik, Scientist Officer ‘C’, RMD, FBTR, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam.



National Level Faculty Development Program on Microgrid Control and Operation

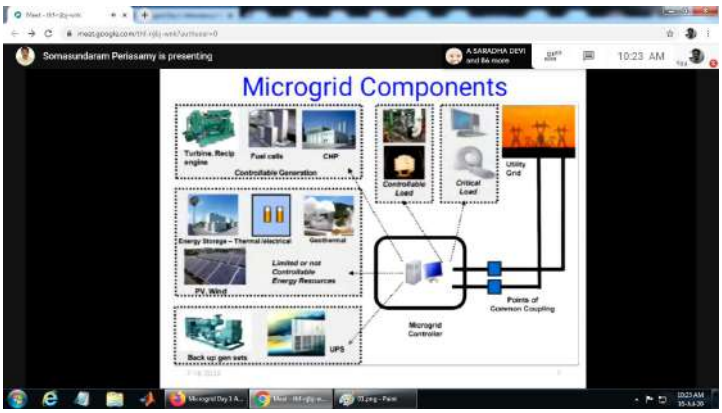
Date: 16-18th September 2020

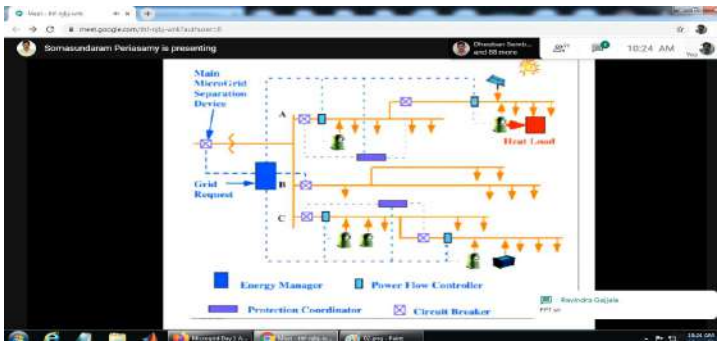
Mode: Online-Google Meet

Coordinators : Dr. N.B. Muthuselvan, Dr. M. Devesh Raj and Dr. V. Thiyagarajan, Associate Professor/EEE.

Number of Participants: 250

Day	Resource Person
16-07-2020	*Dr. P. Somasundaram,* Professor, Department of Electrical and Electronics Engineering, College of Engineering Guindy, Anna Uniuversity, Chennai. **Title: Introduction to Microgrid Operation and Control**
17-07-2020	*Dr. P. Raja,* Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirapalli **Title: Protection Schemes in Microgrid**
18-07-2020	*Dr. N.B. Muthu Selvan,* Associate Professor, Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai **Title: Design of Solar Panel for Microgrid Operation and performing Load flow studies**





International Level Virtual Faculty Development Programme on "Green and Sustainable Technology for Next Generation "

EEE/FDP/2 Department of EEE and Department of Chemical Engineering jointly organized the **International Level Virtual Faculty Development Programme on "Green and Sustainable Technology for Next Generation "** during 21/08/2020- 30/08/2020.

The **keynote speakers** are:
Dr Mohamed Kheireddine Aroua, Sunway University, Malaysia
Dr Tamal Banerjee , IIT-Guwahati, Assam, India
Dr R. Anantharaj, SSN CE, Tamil Nadu, India
Dr Ramesh Gardas, IIT Madras, Tamil Nadu, India
Dr T. Kannan, Masdar Institute of Science & Technology, Abu Dhabi, UAE
Dr Shraeddha Tiwari, ICT- Mumbai, Maharashtra, India
Dr Hitendra M.Patel, Sardar Patel University, Gujarat, India
Dr Tejwant Singh Kang, Guru Nanak Dev University, Punjab, India
Dr Ing. Anoop Kishore Vatti, Manipal Institute of Technology, Karnataka, India
Dr K. Sathish Kumar, SSN CE, Tamil Nadu, India

Organizers:
Dr R. Anantharaj, Associate Professor, Chemical Engineering
Dr V. Thiyagarajan, Associate Professor, EEE
Dr D. Gnana Prakash, Associate Professor, Chemical Engineering
Dr K. Sathish Kumar, Associate Professor, Chemical Engineering

The global problems of environmental degradation have forced the society to rethink about the way of development and evolve the concept of sustainable development. Indeed, the new environmentally friendly technologies are fundamental to attain sustainable development.

Various green initiatives are being taken to maintain and improve the quality of environment that might flourish on the new resource efficient and sustainable thinking society of the future.

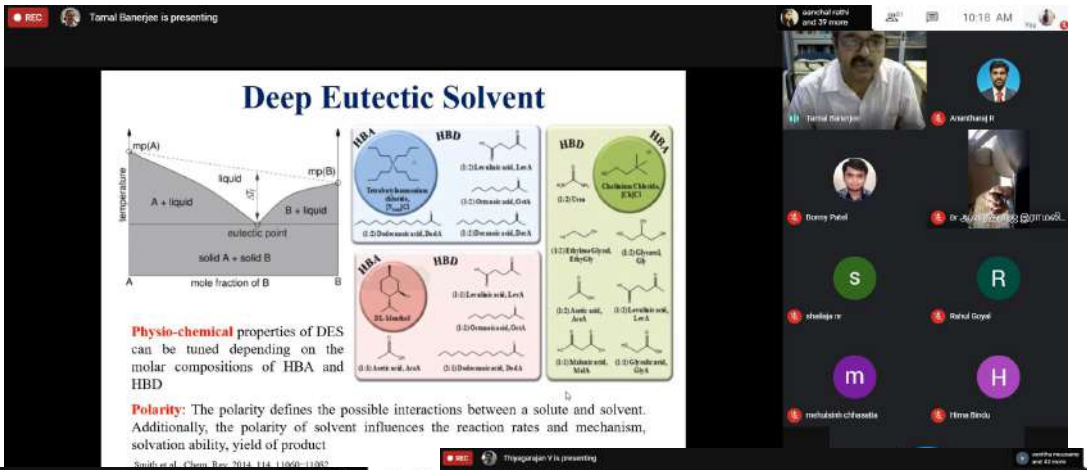
International Level Virtual Faculty Development Programme on "Green and Sustainable Technology for Next Generation "

The main objective of this FDP is:

- To create awareness on green chemical technology and applications for sustainable development in chemical industry.
- Cheering the faculty to pursue research in the field of separation process with green solvent.

About 100 participants from various institutions including IIT Madras, IIT Guwahati, IIT Roorkee, Ahmedabad University, Annamalai University, Anna University, VIT Chennai, Amity University Rajasthan, Central University of Jharkhand, CSIR-National Physical Laboratory and University of Calcutta.

All the technical session was very interactive and the participants gained much knowledge about the green chemical technology and its applications. We thank all the keynote speakers and participants of this FDP.



First Virtual International Conference on Renewable Energy Systems (ICRES-2020)

EEE/INC/1 The Department of Electrical and Electronics Engineering organized the **First Virtual International Conference on Renewable Energy Systems (ICRES-2020)** during Aug 26-28, 2020. This conference aims to bring together the academia and other knowledge in this sector to brainstorm for a greener and cleaner future.

85 papers have been received and 60 papers have been shortlisted. More than 50 papers have been registered for the conference. The conference received national participation across all states in India which include papers from IITs, NITS, IIITDM, Anna University, reputed universities and engineering colleges, two international participants and industry participants.

This conference gave an invaluable platform for the Academicians and industries to converge upon the various ways of utilizing renewable energy sources and its emerging technologies. Peer reviewed accepted and presented papers in the conference will be published in “Springer Proceedings in Energy” as two volumes following the Springer guidelines.

First volume covers the papers related to renewable energy sources and power conversion technologies and second volume is related with e-mobility and smart grid.

The technical programme details are:
Inaugural address by Dr. Prahlad Vadakkepat, Professor, National University of Singapore, Singapore on 26/08/2020.

Keynote – 1: Power Converters for Electric Vehicle by Dr. L. Ashok Kumar, Professor/EEE, PSG College of Tech., Coimbatore on 27/08/2020·

First Virtual International Conference on Renewable Energy Systems (ICRES-2020)

Keynote – 2: Future of Electric Machines by Dr. Nabeel Shirazee, e-Propelled Inc., USA on 27/08/2020 ·

Keynote – 3: Structural Options to Wane Component Count in Multilevel Inversion by Dr. S. Jeevananthan, Professor/EEE, Pondicherry Engineering College, Puducherry on 28/08/2020·

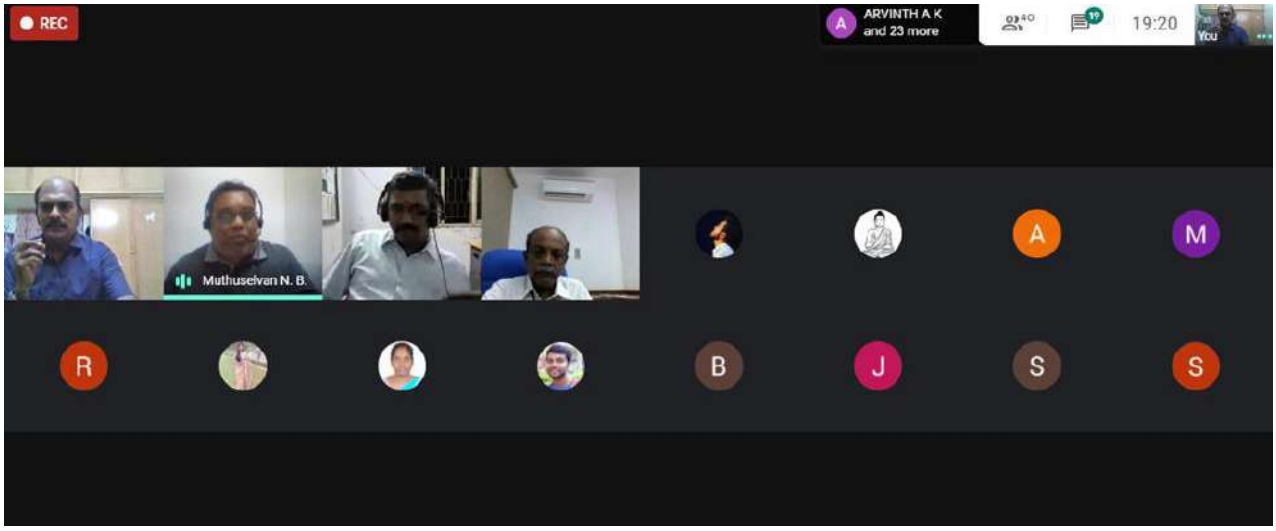
Keynote – 4: Navigation towards the New Normal in Education by Dr. Jayashri Ravishankar, Deputy Head of School (Education), School of Electrical Engineering and Telecommunications, UNSW, Sydney, Australia on 28/08/2020·

There are around 8 technical sessions and session chairs are from reputed academic institutions and industries & Internal subject experts.

53rd Engineer's Day Celebration

Professional Body: SSN IEI Students' Chapter
Date: 15th September 2020
Mode: Online-Google Meet
Coordinators : Dr. N.B. Muthuselvan, Associate Professor/EEE.
Number of Participants: 150

Day	Resource Person
15-09-2020	*Mr. B.Murugavel* Chief Consulting Officer – Tap2Connect Technologies, Chennai **Title: Engineers for Self Reliant India – Role of Industry 4.0**



National Conference on Recent Trends in Power and Energy Engineering

EEE/NC/1 The Department of Electrical and Electronics Engineering organized the **Virtual National Conference on Recent Trends in Power and Energy Engineering (RTPEE-2020)** during Sep 17-18, 2020.

RTPEE-2020 is the premier interdisciplinary platform to deliver the latest developments and innovative research results in the area of power and energy engineering for all professionals, researchers and engineers.

This conference aims to foster interaction in the area of power and energy engineering with a specific focus to smart grid, IOT, renewable energy, cyber security in power system and its applications among researchers from both academia and industry.

Based on this theme, RTPEE - 2020 has attracted around 93 papers from various of our nation including papers from IITs and NITs.

We have accepted around 42 papers after peer review. Out of which 36 papers have been registered for the conference. RTPEE - 2020 provided a platform for meeting researchers, widen professional contact and create new opportunities, including establishing future collaborations.

The technical programme details are:·
Inaugural address by Mr. V. Ramakrishnan, Director, TORP Systems Pvt. Ltd, Chennai·

Keynote – 1: Delivered by Dr. M.P. Selvan, Associate Professor/EEE, NIT Trichy on 17/09/2020·

National Conference on Recent Trends in Power and Energy Engineering

Keynote – 1: Delivered by Dr. M.P. Selvan, Associate Professor/EEE, NIT Trichy on 17/09/2020.

Keynote – 2: Dr. K. Vijayakumar, Assistant Professor/ECE , IIITDM Kanchipuram on 18/09/2020 ·

Keynote – 3: Dr. K. Selvajyothi, Assistant Professor/ECE, IIITDM Kanchipuram on 19/09/2020·

There are around 5 technical sessions for this conference.

The conference was organized by :
Dr. V. Kamaraj (Prof. & Head/EEE),
Dr. R. Rengaraj, (ASSPs/EEE)
Dr. V.S.Nagarajan, (ASSPs/EEE)
Dr. V. Thyiagarajan (ASSPs/EEE) and
Dr. G.R.Venkatakrishnan (ASSPs/EEE).

Short Term Training Program

1. EEE/STTP/1,Mr. S.V. Sreeraj, Director, Emcog Solutions delivered a speech on " Programming Enhanced Mid Range PIC Microcontrollers using MPLABX IDE and Digital Proteus" from July 20 - 22, 2020. Organizers: Dr. S. Tamilselvi, Dr.R.Rengaraj, Dr. G.R.Venkatakrishnan, Dr. V. Thiyagarajan.

National Level Virtual Short Term Training Program on “Molecular Simulation: From Chemical Structure to Green Separation Process"

Conveners:
Dr R. Parthiban, Professor & Head, Chemical Engg.,
Dr V. Kamaraj, Professor & Head, EEE

Coordinators
Dr R. Anantharaj, Associate Professor/ Chemical Engg.,
Dr V. Thiyagarajan, Associate Professor / EEE,
Dr K. Sathish Kumar, Associate Professor/ Chemical Engg.,
Dr D. Gnana Prakash, Associate Professor/ Chemical Engg.,

Department of Chemical Engineering and Department of Electrical and Electronics Engineering has jointly organized National Level Virtual Short Term Training Program on "Molecular Simulation: From Chemical Structure to Green Separation Process” during July 20-22, 2020.

The main objective of this workshop is to introduce the participants to various molecular simulation techniques with special emphasis on current engineering problems.

About 100 participants from various institutions including IIT Guwahati, IPS Academy Indore, Annamalai University, Ahmedabad University, Amrita Vishwa Vidhyapeetam, Savitribai Phule Pune University and SSN College of Engineering had participated in the workshop.

National Level Short Term Training Program On "Innovative Smart Grid Technologies"

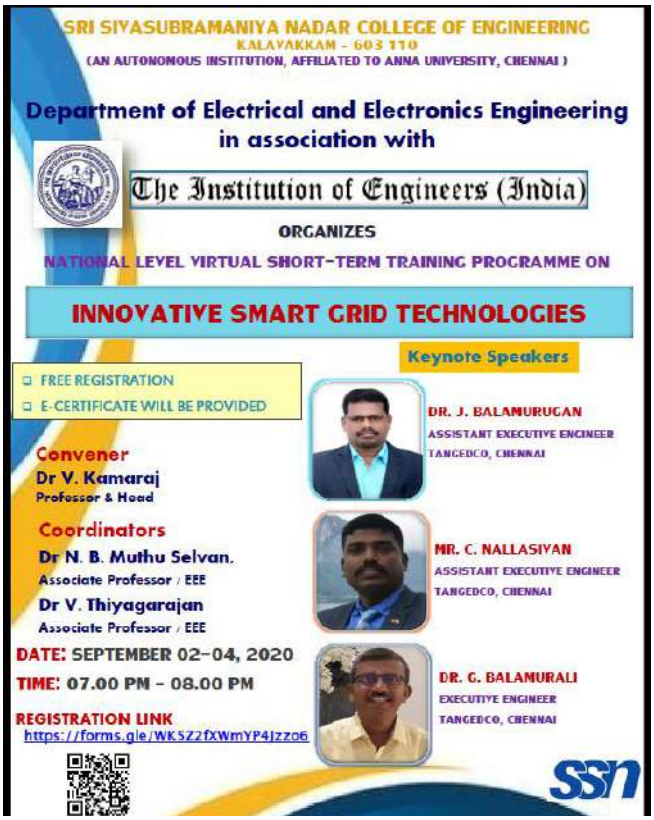
Date: 2-4th September 2020

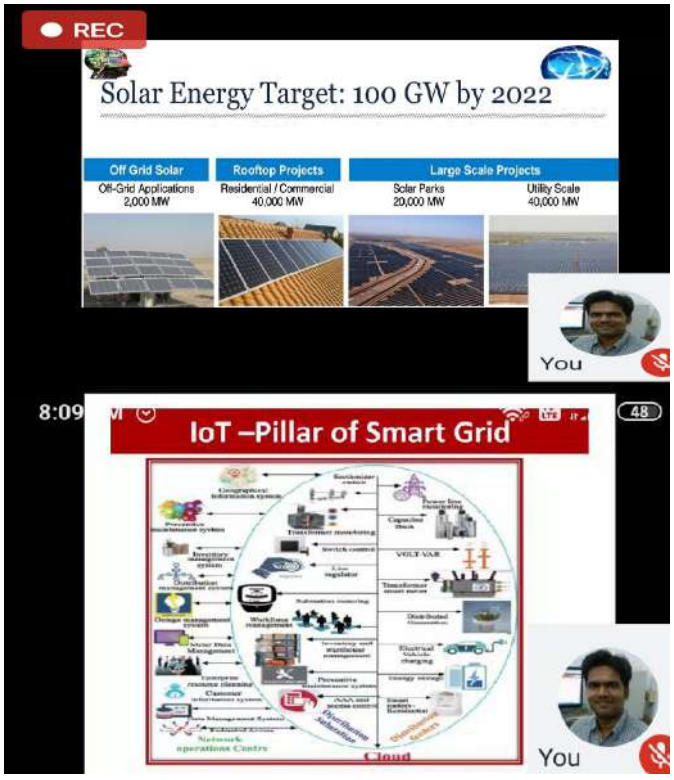
Mode: Online-Google Meet

Coordinators : Dr. N.B. Muthuselvan and Dr. V. Thiyagarajan, Associate Professor/EEE.

Number of Participants: 250

Day	Resource Person
02/09/2020	Dr. J. Balamurugan, Assistant Executive Engineer, TANGEDCO, Chennai **Title: Introduction to Smart Grid**
03/09/2020	Mr. C. Nallasivan, Assistant Executive Engineer, TANGEDCO, Chennai **Title: Automation in Metering for Smart grid technologies**
04/09/2020	Dr. G. Balamurali, Executive Engineer, TANGEDCO, Chennai **Title: Innovative Smart Grid Technologies**





MISCELLANEOUS ACTIVITIES

1. Dr.V. Rajini reviewed two papers for journal of rural studies and one paper for ASEJ, Elsevier

2. Dr.R. Seyezhai, ASSP attended the dry run virtual meet for PG programs organized by SSNCE.

3. Dr.R. Seyezhai, (ASSP) attended and presented about the department in the virtual open day programme for PG on 18.7.2020 organized by SSNCE.

4. Dr.R. Seyezhai, ASSP completed the online coursera course titled, Introduction to Machine Learning "on 15.7.2020.

5. Dr.R. Seyezhai, ASSP completed the online coursera course titled, Renewable Energy and Green Building Entrepreneurship' on 14.7.2020.

6. Dr. R. Ramaprabha, ASSP/EEE completed an 2 hours online non-credit course on "Spreadsheets for Beginners using Google Sheets" authorized by Coursera Project Network and offered through Coursera with Excellent Grade on July 17, 2020 and received the online certificate.

7. Dr. R. Ramaprabha, ASSP/EEE/EEE completed 4 weeks online course on "Introduction to Data Analysis Using Excel" offered by Rice University through Coursera with Excellent Grade on July 21, 2020 and received the online certificate.

8. Dr. R. Ramaprabha, ASSP/EEE attended contact session conducted by Dr.C. Aravindan between 02.00 pm to 03.00 pm, July 10, 2020.

9. Dr. R. Ramaprabha, ASSP/EEE attended a GMeet session on "Open Forum on Innovations and Best Practices in Education" conducted by Dr.C. Aravindan between 09.30 am to 11.00 am, Jul 24, 2020.

MISCELLANEOUS EVENTS

10. Dr. R. Ramaprabha, ASSP/EEE reviewed the following papers: 2 papers for Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (Taylor & Francis); 1 paper for IET Generation, Transmission & Distribution; 1 paper for COMPEL; 1 paper for IEEE Transactions on Power Electronics. 3 papers for IEEE PES POWERCON (Bangalore Chapter) which was held during 14 Sep - 16 Sep 2020.

11. Dr. R. Ramaprabha, ASSP/EEE appointed as reviewer for 2020 IEEE International Symposium on Sustainable Energy, Signal Processing & Cyber Security (IEEE-iSSSC 2020) which will be held during 16-17 Dec 2020 organized by GIET University, Gunupur, Odisha.

12. Dr.M.Balaji, completed Coursera guided project "Introduction to Python" and "Support Vector Machine Classification in Python" .

13. Dr Mrunal Deshpande reviewed four papers for "International Conference on Renewable Energy Systems (ICRES2020)" organized by SSN College of Engineering during August 26-28, 2020.

14. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Matrix Methods” with a grade of 87.3% authorized by University of Minnesota and offered through Coursera. It was a five week course and the instructor for the course is Dr. Daniel Boley, University of Minnesota.

15. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Control of mobile robots” with a grade of 100% authorized by Georgia Institute of Technology and offered through Coursera. It was a seven week course and the instructor for the course is Dr. Magnus Egerstedt, Georgia Institute of Technology.

MISCELLANEOUS EVENTS

16. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Renewable Energy and Green Building Entrepreneurship” with a grade of 100% authorized by Duke University and offered through Coursera. It was a three week course and the instructor for the course is Dr. Chris Wedding, Duke University.

17. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Introduction to battery-management systems" with a grade of 87% authorized by University of Colorado System and offered through Coursera. It was a four week course and the instructor for the course is Dr. Gregory Plett, University of Colorado System.

18. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Electric Utilities Fundamentals and Future " with a grade of 100% authorized by University of Colorado System and offered through Coursera. It was a five week course and the instructor for the course is Dr. Melissa Wood, University of Colorado System.

19. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the online course titled “Natural Gas" with a grade of 100% authorized by University at Buffalo & The State University of New York and offered through Coursera. It was a four week course and the instructor for the course is Dr. Tom Russo, President, The State University of New York.

20. Dr. V. Thiyagarajan, ASSP/EEE reviewed papers for "International Conference on Renewable Energy Systems (ICRES2020)" organized by SSN College of Engineering during August 26-28, 2020.

21. Dr P Saravanan Completed an online course titled, “Introduction to Python, authorized by Coursera Project Network, offered through Coursera, 8th July 2020

MISCELLANEOUS EVENTS

22. Dr.V.S.Nagarajan, has successfully completed a course on “AI for Everyone” in Coursera offered by deeplearning.ai.

23. Dr.Mrunal Deshpande reviewed four papers for ICRES on 2.8.2020.

24. Dr.Mrunal Deshpande was a member of admission committee for handling related queries during the month of July and August 2020.

25. Dr.N.B. Muthu Selvan, participated in “Antakshiri” program conducted in view of Teachers day celebration at SSNCE along with Dr. V. Thiyagarajan and Mr. S. Srinivasan.

26. Dr.N.B. Muthu Selvan, participated in “Quiz Competition” program conducted in view of Teachers day celebration at SSNCE along with Dr. V. Thiyagarajan.

27. Dr.Mrunal Deshpande, Dr M Devesh Raj, Dr R Deepalxmi , Dr Tamilselvi and Dr V Thiyagarajan acted as proctor in admission counselling committee from 24.8.2020 to 27.8.2020.

28. Dr. V. Thiyagarajan, ASSP/EEE, has acted as Session Chair for the First Virtual International Conference on Renewable Energy Systems (ICRES-2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai on 28/08/2020.

29. Dr. Mrunal Deshpande, ASSP/EEE, acted as Session Chair for the First Virtual International Conference on Renewable Energy Systems (ICRES-2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai on 28/08/2020.

MISCELLANEOUS EVENTS

30. Dr. V. Thiyagarajan, Associate Professor/EEE, has successfully completed the online course titled "Programming Fundamentals" with a grade of 100% authorized by Duke University and offered through Coursera. It was a four week course and the instructor for the course are Dr. Andrew D. Hilton, Associate Professor, Dr. Genevieve M. Lipp, Assistant Professor and Dr. Anne Bracy, Senior Lecturer, Duke University.

31. Dr. R. Ramaprabha, ASSP/EEE reviewed the following papers: 1 paper for IJEPES (Elsevier); 1 paper for JES; 1 book chapter for Springer; 1 paper for IETE Journal of Research.

32. Dr. V. Thiyagarajan, Associate Professor/EEE, has successfully completed the online course titled "Electrodynamics: Electric and Magnetic Fields" with a grade of 100% authorized by Korea Advanced Institute of Science and Technology(KAIST) and offered through Coursera. It was a five week course and the instructor for the course is Dr. Seungbum Hong, Associate Professor, Korea Advanced Institute of Science and Technology.

33. Dr. V. Thiyagarajan, Associate Professor/EEE, has successfully completed the online course titled "Electrodynamics: Analysis of Electric Fields" with a grade of 100% authorized by Korea Advanced Institute of Science and Technology(KAIST) and offered through Coursera. It was a five week course and the instructor for the course is Dr. Seungbum Hong, Associate Professor, Korea Advanced Institute of Science and Technology.

34. Dr. V. Thiyagarajan, Associate Professor/EEE, has successfully completed the online course titled "Electrodynamics: An Introduction" with a grade of 100% authorized by Korea Advanced Institute of Science and Technology(KAIST) and offered through Coursera. It was a five week course and the instructor for the course is Dr. Seungbum Hong, Associate Professor, Korea Advanced Institute of Science and Technology.

MISCELLANEOUS EVENTS

35. Dr. V. Thiyagarajan, Associate Professor/EEE, has successfully completed the online course titled "Excel Skills for Business: Essentials" with a grade of 96% authorized by Macquarie University and offered through Coursera. It was a six week course and the instructor for the course are Ms. Nicky Bull, Excel Consultant, Macquarie University, Dr Prashan S. M. Karunaratne, Lecturer - Macquarie University and Dr Yvonne Breyer, Associate Professor, Macquarie University.

36. Dr. R. Ramaprabha, ASSP/EEE conducted a zoom meeting for III year project students (2 batches who got internal funding) to review the progress & discuss the further plan to proceed the project on 14.08.2020 between 09.00 PM to 10.30 PM.

37. 7 The GMeet was conducted on Aug 22, 2020 to discuss/trial run for the forthcoming international conference ICRES 2020 between 7 pm to 8 pm. The members of the meeting are Dr. R. Seyezhai, Dr. R. Ramaprabha, Dr. M. Balaji and Dr. M. Pandikumar, ASSPs/EEE.

38. Dr.R.Seyezhai, ASSP/EEE as a panelist attended B.E./B.Tech Interview counseling work on 248.2020 & 25.8.2020.

39. Dr.R.Seyezhai, ASSP/EEE attended the online Zoom meeting regarding the B.E./B.Tech Interview counseling on 15.8.2020.

40. All EEE Department Faculties attended the online meeting regarding the Open book test by Dr.Ganesh Samudra, NUS, Singapore on 11.8.2020.

41. Dr.G. R. Venkatakrishnan reviewed a book proposal for Taylor & Francis Group, LLC.

42. Dr.V. Rajini reviewed two papers for journal of rural studies and one paper for ASEJ, Elsevier.

MISCELLANEOUS EVENTS

43. Dr.V.Rajini acted as interview panel member for SSN admissions 2020 from 24-8-2020 to 27-8-2020.

44. Dr. V. Rajini reviewed a paper for International Journal of Energy for a Clean Environment Title of Article: Manuscript ID: IJECE-35251. Enhancement of Energy Efficient Distribution Generation integrated with Solid State Transformer using Improved Rider Optimization Algorithm.

45. Dr Mrunal Deshpande chaired a session at Virtual National Conference on Recent Trends in Power and Energy Engineering Sept 17 and 18, 2020.

46. Dr. Mrunal Deshpande and Dr M Balaji Conducted Project Viva Voce for IV yr EEE on 22.9.2020 with Dr V Rajini and Dr R Rengaraj as Examiners.

47. Dr. K. Murugesan organized the placement training program through Microsoft Team online tool for our Rural scholarship students (from 2nd year to Final year) in association with Mr Cooper on 26-9-2020 & 27-9-2020.

48. Dr.R.Seyezhai,ASSP/EEE chaired a session in the Virtual National Conference on Recent Trends in Power and Energy Engineering (RTPEE - 2020) organized by the Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai on 17.9.2020.

49. Dr.R.Seyezhai, ASSP/EEE presented the project submitted to DST in online mode on 9.9.2020.

50. Dr.R.Seyezhai, ASSP/EEE attended the online class committee meeting for the IV year EEE students at SSNCE.

51. Dr.MrunalmDeshpande, ASSP/EEE attended the online class committee meeting for the III year EEE students at SSNCE.

MISCELLANEOUS EVENTS

52. Dr.R.Seyezhai, ASSP/EEE acted as Internal Examiner for the Online Project work Phase-2 Viva-Voce Examination for the final year M.E.(PED) on 24.9.2020.

53. Dr.R.Seyezhai, ASSP/EEE reviewed the paper for the Virtual International Conference on Electrical Energy Systems (ICEES - 2021) to be held during February 11-13, 2021 at SSNCE.

54. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the a course titled "How Things Work: An Introduction to Physics" authorized by University of Virginia and offered through Coursera. It was a eight week course and the instructor for the course is Dr. Louis A. Bloomfield, Professor, University of Virginia.

55. Dr. R. Ramaprabha, ASSP/EEE reviewed the following papers: 1 paper for Electric Power Components and Systems; 1 paper for International Journal of Electrical Power and Energy Systems; 1 paper Solar Energy (Elsevier); 1 paper for SN Applied Sciences (Springer); 1 paper for IEEE International conference (ICEES2021, SSNCE); 4 papers for 2020 IEEE International Symposium on Sustainable Energy, Signal Processing & Cyber Security (IEEE-iSSSC 2020, Gunupur, Odisha) which will be held during 16-17 Dec 2020 organized by GIET University.

56. Dr.V.S.Nagarajan was a session chair for Virtual National Conference on Recent Trends in Power and Energy Engineering - 2020 (RTPEE - 2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17-18 September, 2020.

57. Dr.S. Krishnaveni reviewed a paper for the Journal of Food processing and preservation for Wiley publication.

58. Dr. V. Thiyagarajan, ASSP/EEE, has successfully completed the a course titled "Solar Energy Systems Overview" authorized by University at Buffalo and The State University of New York, and offered through Coursera. It was a three week course and the instructor for the course is Dr. Gay E Canough, University at Buffalo.

MISCELLANEOUS EVENTS

59. Dr. V. Thiyagarajan, ASSP/EEE has reviewed the papers submitted for the "4th International Conference on Mechanical, Electric and Industrial Engineering (MEIE2021)" organized in Kunming, China during May 22-24, 2021.

60. Dr.V. Rajini acted as the session chair in International conf on renewable energy systems ICRES 2020 organized by the Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering on 28-8-2020.

61. Dr.V.Rajini acted as the session chair in National Conference on Recent Trends in Power and Energy Engineering (RTPEE - 2020) organized by the Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering RTPEEE 2020 on 18-9-2020.

INTERNSHIP DIARIES

I got an opportunity to intern at BHAVINI (Bharatiya Nabhikiya Vidyut Nigam Ltd.), Government of India Enterprise, Department of Atomic Energy, Kalpakkam. The project focuses on the estimation of Rotor flux of Induction Motor using Artificial Neural Network. It was a great experience and exposure to work at BHAVINI under guidance of Dr. Sitangshu Sekhar Biswas.

Our project finds the rotor flux of squirrel cage induction motor using Artificial Neural Network(ANN) since it has the capability of function approximation. Using ANN the relationship between input and output is determined. The actual values are noted from themodel and compared with the values from ANN.

MATLAB software along with its nnstart toolbox is given to train Neural Network. It helps us to find the relation between input and output. Levenberg-Marquardt Algorithm is used to do so. Finding inverse rotor constant help us to find the rotor flux.

- R SUDIKSHA
3rd year

STUDENT ARTICLE

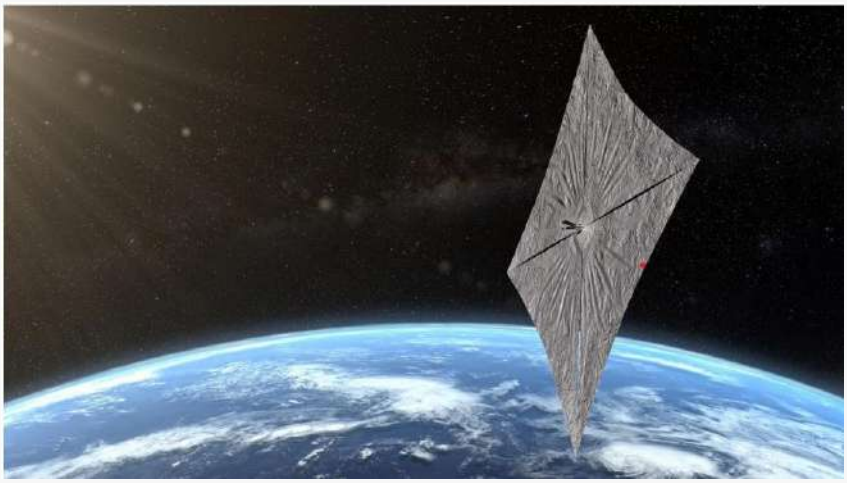
How Photons Help Us Sail The Cosmos

By: Tharun R Prakash, 3rd year.

On November 3rd 1973, the Mariner 10 probe set sail for Venus where it gave us our first close-up look of the planet, all the while lending its gravity to boost the probe's velocity to its next destination, Mercury. This mission gave humankind many of its first experiences with space travel.
It was the first time a gravity assist had ever been performed using a planet's gravity.

It was the first time 2 planets had been visited up close in a single mission, and it was the first-time solar pressure had been used to control a spacecraft's attitude, but that wasn't by actual design.This mission came incredibly close to being a complete failure as a result of debris floating around the spacecraft interfering with the star tracking navigation camera. This occurred more frequently as the brightness of the particles increased as Mariner 10 approached the sun.

Mariner 10 managed to complete its gravitational slingshot by Venus and was now limping on to Mercury but was quickly running out of nitrogen, the propellant needed to perform these manoeuvres. To solve this problem, the engineers came up with a genius plan. By tilting the solar panels, they could use solar pressure, the force exerted by photons, to control its roll and stabilize its position.



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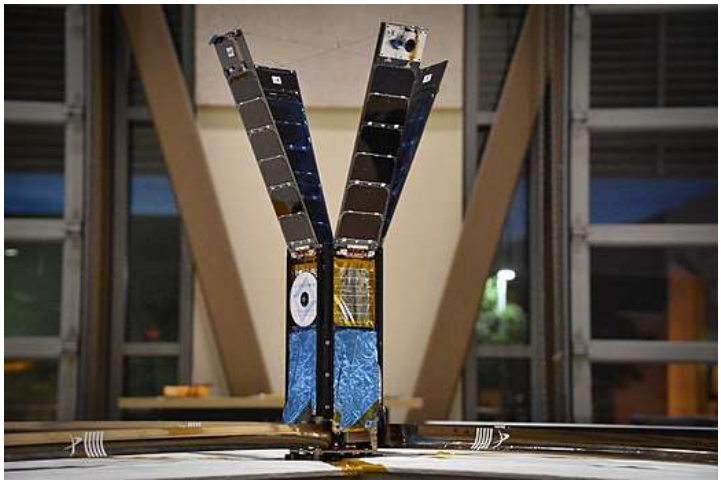
A huge moment that proved the viability of solar sails for future use in spacecraft. In 2019, LightSail -2 provided a valuable technology demonstration of solar sails ability to provide control at a very low cost for small satellites. LightSail 2 was a project by the Planetary Society, a company formed by Carl Sagan [He taught me how a 4th dimension – Tesseract would work], Bruce Murray and Louis Friedman back in 1980, to raise funds for exciting missions through crowdfunding. Currently run by Bill Nye – The Science Guy

LightSail 2 is a tiny craft weighing just 5 kilograms and 11.3 centimetres in width and 34 centimetres long, but when deployed, the sails had an area 32 metres squared. This compact size allowed it to rideshare on a Falcon Heavy mission in June 2019, launching into orbit around the earth at 720 kilometres.When LightSail 2 is moving away from the sun, it faces its sail towards the sun to maximize the acceleration. Then, as it moves back towards the sun turns on its side so the solar sail is slowed down, but as the earth blocks the sun for about half of its orbit, we are only really getting thrust for about one-quarter of its orbital period.



This regular adjustment of orientation will make a solar sail in planetary orbit heavily dependent on reliable control moment gyros, and as the sail grows in the area the more demanding this requirement will be both on the size of the equipment needed, and the energy required, but the technology does exist [Nanotech FTW!]

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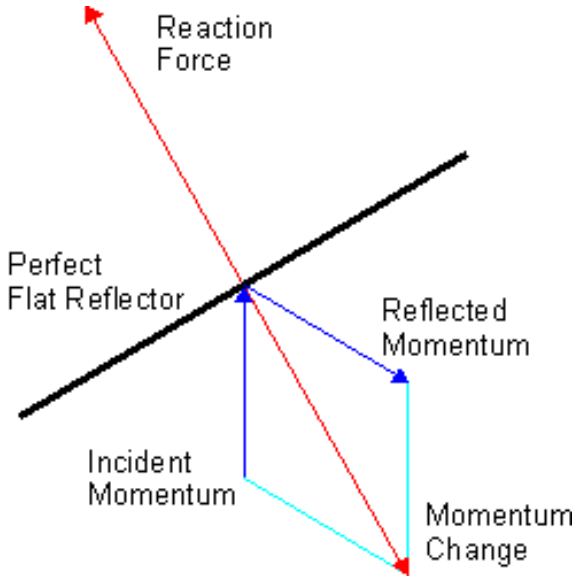
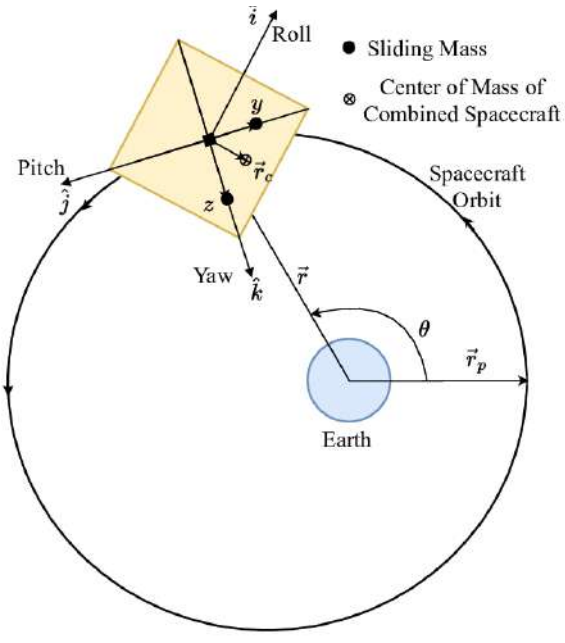
By performing this manoeuvre every period, LightSail 2 managed to raise its apogee by 2km in its first week of solar sailing. But the orbit energy of LightSail 2 is actually decreasing. he increasing apogee of LightSail 2 has proven that solar sailing could be a useful technology for future space missions, but I'm not sure why we needed to prove that since Mariner 1 did that 40 years ago....it in the least provided additional data and design verification for future solar sails.

One of the most important application is perhaps it could be an early warning system for solar flares.Anyone familiar with Kepler's laws of orbital mechanics will know this is difficult, as any object orbiting closer to the sun will have a higher velocity and shorter orbital period.

So solar sails are the perfect solution for this, and they will be able to achieve more thrust the closer they get to the Sun.

If we had suitable materials that could be both extremely thin, reflective, light and heat resistant, we could sail even closer to the sun to perform sun diving manoeuvres to capture the Sun's energy to increase our velocity and explore the outer solar system.





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13	Sowmya A	LTI	Dream	6.5
14	Sreemugi Ramasubramanian	Citibank	Super Dream	13.7
15	Sridhar S	TCS Digital	Dream	7.2

THE PLACEMENT EXPERIENCE

Student name: Karthick J, Ratish Kumar S

Company: L&T Infotech (LTI -Dream)

First Round:

LTI team checks for the eligible student with criteria and shortlist them for the first round of online test. The company basically comes with two packages and getting into the respective package depends upon the performance in the online test. The online test consists of Basic Quantitative, Aptitude, Verbal, Logical Reasoning, Psychometric (Fun part and important as well) also simple programs that can be done with any programming language of our choice. After completion of the online test the performance will be analyzed and students will be marked for Level 1 or Level 2.

THE PLACEMENT EXPERIENCE

Second Round:

The next round after the online test was Technical interview (15mins) had to face an individual interview, some of the questions were academic oriented, technical internships related to the job, projects that completed or in progress and student's role in it.

Third Round:

After the technical round there was a HR interview(10mins) ,this round had simple HR questions and checking on the confirmation for signing two years' service agreement and willingness for relocation. Finally, another round of HR interview (5mins).This was for a final confirmation on the various known terms and conditions.

General Suggestions:

1. Have a good resume. Mention your skills and qualifications that you are confident of! It is the selling point!!
2. Be strong with the CS/IT papers you had in college. Be strong in one coding language. (in case of IT companies). Revise all the EEE papers from the beginning till the time of placements. (for core companies).
3. CGPA is the basic criteria. 7+ is good. 8+ is great advantage.
4. For management companies, holding a position of responsibility adds a great value.
5. Talk to seniors to get know of the processes and how to handle them on a personal level.
6. Practice aptitude and coding!

Student name : Ramya R
Company: Amadeus software labs (Super Dream)
Criteria: 90%/9+ CGPA in 10th and 12th, 8+CGPA in BE. No diploma students.

First Round:

It was a mix of tech and aptitude test with 2 coding problems on HackerEarth platform. The weightage given to every question was based on the difficulty level of the question. It wasn't a section-wise split up but a mixed bag of questions in no particular order.

THE PLACEMENT EXPERIENCE

First Round (contd):

The numerical reasoning questions were quite straightforward, verbal and coding problems were of moderate difficulty and the technical MCQs were based on simple algorithms, time complexity analysis and basics of data structures.

Second Round:

It was SHL test. It had numerical reasoning and verbal aptitude of higher difficulty. The key for this round was time management as the time duration was pretty short.

The Interview:

It was a single interview with both Technical and HR questions. The interview was for 45 mins. So the interface for the interview was split into 3. The problem solving skills, data structures and algorithms and OOPs concepts were tested. I was also given riddles and simple math problems.

Student name : Deekshitha S
Company: Citibank (**For Intern)**

First Round:

It was an online test hosted on amcat platform. It had questions on computer programming fundamentals (MCQs), general aptitude questions and a programming section. I practiced aptitude questions from websites like indiaBix.com, practiceaptitudetests.com, etc to get the speed and get myself familiarised with online tests. Timing is key! For programming, I brushed through the theory content available in sites like geeksforgeeks and practiced them in hackerrank.

Second Round:

This was an interview round that took around 30-45 minutes. I was mainly asked questions from C++ and java, little bit of SQL.

THE PLACEMENT EXPERIENCE

Second Round (contd):

Moving on, I had to explain my projects. Then, I faced a couple of basic questions based on IoT, Artificial Intelligence and Machine Learning. Then, I was asked about the positions I've held in the college and how did I manage them. Later, they asked me more of HR based questions and recent technology related questions which were follow ups to whatever I had told them during the interview.

Third Round:

This was a very quick pure HR round. They went through my resume. They were pretty impressed at the various positions of responsibility I have held and they were asking questions about organizing events and the stress management. Also, they tested my inquisitiveness towards emerging computer technologies and software Then, I also faced the general HR questions.

The internship selection process happened alongside the placement processes. One thing, I would definitely say is that talking to seniors really helped me with respect to the interviews. The do-s and dont-s. The type of questions that can be expected. GeeksforGeeks was really helpful for the interviews.

My suggestions would be:

For developing resume, of course Microsoft Word is a great option! But, it is good to check out the following websites:

1. canva.com
2. www.latex-project.org
3. Overleaf.com
4. NovoResume.com

For preparing for the tests and interviews:

1. Geeksforgeeks
2. Hackerrank
3. w3schools
4. sanfoundry
5. studytonight
6. IndiaBix.com

THE UPSC DREAM

Ms. Prithika Rani M, Batch of 2018, Secured a rank of 171 in the Civil Services Examination 2019 and has been selected for the prestigious Indian Foriegn Service (IFS).

Over the past few months, a lot of people have asked me whether civil services was a childhood dream.Unlike most people,my passion for civil services developed only during my stint at SSN. At SSN,I was exposed to people coming from diverse backgrounds which not only opened my eyes to the difficulties faced by different sections of the society but also to different viewpoints. I still remember the time,I attended an event organised by Lakshya to listen to Sylendra Babu sir who is still an inspiration today.

I took the difficult decision of opting out of placements to prepare for this exam. I made sure that I researched as much as possible since I was planning to some some of the most fruitful years of my youth surrounded by books taking up an exam which has one of the least success rates in the country .

I truly consider myself lucky and one of the blessed souls to have cleared this exam in the first attempt itself. This journey wasn't very long but it wasn't easy either. As I start my journey in government service,I hope I do all my well wishers proud and carry forward the values I hold close to my heart. I am also truly indebted to my college. In SSN,let it be the sports complex or my department, I found a community who still continue to inspire and uplift me to this day.

EEE

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