

# REDEEM

VOLUME 11 ISSUE 3

JANUARY 2023

*An  
Eventful,  
Electric  
Extravagance  
awaits...*



**ssn**

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# The Crew!



**FACULTY CHIEF EDITOR**  
**DR. R. LEO**

*"You can do anything you decide to do!"*



*"Be odd in order to be number one!"*

**CHIEF EDITOR**  
**HARSHVARDHINI M**



*"Make each day your masterpiece"*

**CONTENT HEAD**  
**PRANAV A**

*"Design is intelligence made visible"*

**DESIGN HEAD**  
**ABHINAYA R**



# The Crew!

## STUDENT REPRESENTATIVES

### III - A

PRANAV A

ABHINAYA R

### III- B

HIMASAI THUPAKULA

RANGANATH R

RAHUL M

### II - A

DEEPTI K

KAVIASRI J

ARTHIKA N

GOKULA KRISHNAN

### II - B

SINDHU S

RAJAMITHRA

SHRIKAR V

POZHILAN G

# From the HOD Desk



I am delighted to bring out the January '23 edition of REDEEM. This edition features the activities of the department, students and alumni interactions during the fourth quarter of 2022. I am also very happy to share that more than 90 % of our final year students have got their placements. The placement in core companies is quite impressive this time. This edition also covers the journey of a 2018 passed out alumnus , Ms. Sajna, who is currently with IIMB. We hope and work to present more such engaging and interesting activities .



# EDITORIAL

Happy new year to all the readers. Human has to live a life where the earth is proud of bearing him. If you understand some basic common characteristics of mind, you can avoid striving hard for few things in life. You are almost bored by all kind of repeated things in life because the basic characteristic of mind is to get bored of repeated things. Anything interesting today will be of hateful in due course of time. So rather than looking at interested things and getting fooled later, we can train our mind to look fresh at everything all the time. We need to put conscious effort for fresh thinking and feeling to enjoy the beauty of life. All the preconditioning and random thoughts may not allow you live more lively with fresh feelings. Certain people are never seeming to be bored of any circumstances. Their perception of life is different from others. They are full of life and always with brimming enthusiasm and exuberance. If u don't have enough knowledge, skill and exposure, your options in life are limited. You may live in a cocoon life. Unexplored life is not worth living.

Human being is made of two inherent qualities: Nature and Nurture. Nature is what you are born with, while nurture is what you get when your environment impacts you. Therefore, you are hurting yourself if you say you are a procrastinator by nature! Procrastinating is a form of self-harm, and the people who engage in it do so because they cannot manage their negative feelings regarding what they have to do. It has very little to do with time management and more with the insecurities related to the task. To avoid procrastination, you need to rewire how you approach work. When you show self-compassion and offer incentives to yourself, it is easier to overcome procrastination.

Human brain allows us to break barriers and make ground-breaking discoveries about ourselves, it is also a creature of habits that craves comfort beyond most else. The comfort zone is a psychological state where individuals feel safe in their environment and experience low stress and anxiety. So, if you feel safe in this zone, why do you need to leave it? To experience growth, you also need to experience uncertainty. To break out of a rut, you need to break patterns. When you leave your comfort zone and get in touch with your emotions, you rewire your brain to replace the anxiety you feel while trying new things with curiosity. Pushing your boundaries makes you grow your productivity, creativity, and adaptability. They say illiteracy is life sentence, but even educated human are under life sentence as education did not add value to their life. They are prisoners of their mind even after their education. Will to live is even with animals, but as a human there is an option to live with continuous happiness and prosperity, but many are not aware of this option and choose the former. In this new year let's hope we push our boundaries and live with continuous happiness and prosperity to prove that we are human beings

# FROM US TO YOU

Welcome to another edition of REDEEEM!

We hope 2022 was a great year for you and if it was not, then hang in there, everything gets better with time. To be honest this was the only motivation which kept us going for the past year since it was technically the first full year where we had to attend college offline. It is funny how for us, actual college life started when we were almost halfway done with engineering. We experienced our first ever cultural fest along with our juniors. We also witnessed various fun-filled yet informative department activities such as workshops, symposiums which we had read about in this same magazine's previous volumes. It was quite the experience. All these events helped us in managing our academics along with extra curricular activities.

All of a sudden we had offline semester exams where we had to face the anxious environment of exam halls once again after almost two years. It was at this moment we realized the effect of our actions in the past. For example, till the third semester all lab classes were pre-recorded and readings were given to us and our only work was to calculate and get the final answers. However, a sudden change occurred where in the offline semester we had to do the experiment ourselves and get the readings from scratch. We all try to be a new and better version of ourselves on January 1st of every year. The only thing which acts as an obstacle in being this version is the effect of our actions that took place in the previous year. It is precisely described by the butterfly effect theory. It states that "In Chaos Theory, the Butterfly Effect is the sensitive dependence on initial conditions in which a small change in one state of a deterministic nonlinear system can result in large differences in a later state."

This theory makes it clear to us every time why we shouldn't wait for January 1st of every year to make a change in our routine or why we mustn't wait to try to become a better version of ourselves. The smallest of our actions are going to add up to become something large which might help us control the chaos already present in life. You never know what will happen tomorrow. So, whatever it is that your heart craves, do it NOW. Who knows, what you do today might come in handy later!

The REDEEEM editorial team wishes you a very Happy New Year. Hope this year blesses y'all with good grades and great experiences.

-Student Editorial Team  
REDEEEM



# FACULTY ACTIVITIES

## External Recognition

*(Invited lectures, keynote speech, invited for meetings by professional bodies etc)*

Dr.R.Ramaprabha delivered a Expert Talk titled Advances and Applications of Intelligent controller in SPV systems on 10/10/2022 organized by the Department of Electrical and Electronics Engineering, Sri Sai Ram Institute of Technology, Chennai – 44

Dr.R.Ramaprabha delivered a Expert Talk titled Design and Sizing of Standalone solar photovoltaic systems (Fundamental ,design, example) using Matlab on 18/10/2022 organized by the Department of Electrical and Electronics Engineering, Sri Sai Ram Institute of Technology, Chennai – 45

Dr.M.Balaji delivered a Guest Lecture titled Future Trends in Design and Innovation of Electrical Machines on 06/10/2022 organized by Karpagam Institute of Technology, Coimbatore.

Dr.M.Balaji delivered a Guest Lecture titled Fault diagnosis of Electrical machines in EV application on 13/10/2022 organized by Sri Sai Ram Institute of Technology

Dr.M.Balaji delivered a Guest Lecture titled Electrical Motor design for EV applications on 20/10/2022 organized by Sri Sai Ram Institute of Technology

Dr.M.Senthil Kumaran delivered a Workshop Presentation titled Hands on Training in Python Programming on 17/10/2022 organized by Government Arts college Udthagamandalam

Dr.K.Murugesan delivered a Guest Lecture titled Role of Books in shaping the leadership qualities (புத்தகம் என்னும் போதிமரம்) on 07/10/2022 organized by SSN-IIC Extra-Mural Lecture

Dr. R. Seyezhai was an External expert member for a Project titled DDR Meeting for the Project Intelligent Power Management systems on 24/11/2022 organized by CVRDE,Chennai

Dr.R.Ramaprabha was a session chair (26/11/2022) in a Virtual National Conference on on Fuel Cell and Electric Vehicle Technology (FCEVT 2022), organized by the Department of EEE & Department of Chemical Engineering, SSN College of Engineering, Chennai, held during Nov 25-26, 2022.



Dr.V.Thiyagarajan delivered a Guest Lecture titled Electrotechnics on 08/11/2022 organized by Cornerstone Academy, Chennai

Dr.V.Rajini, inaugurated the 'National Conference On Recent trend in Renewable energy " on 30-11-2022 at Adhi parasakthi college of Engg, Kalavai and delivered a plenary talk on a Guidelines to installation of Micro grid set up"

Dr.R.Ramaprabha, Chair Person 2022 IEEE International Conference on Power, Energy, Control and Transmission Systems, Chennai on 09/12/2022 organized by Sri Sairam Engineering College, Chennai

Dr.R.Ramaprabha, Chair Person 2022 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (IEEE-iSSSC2022) on 16/12/2022 organized by GIET University, Gunupur, India & Technically Co-Sponsored by IEEE Kolkata Section, IEEE Bhubaneswar Subsection, IEEE Rourkela Subsection & IEEE USA

Dr.M.Balaji delivered a Keynote Speech titled Fault diagnosis of Electrical machines on 08/12/2022 organized by Sri Sai Ram Engineering College

Dr.S.Tamil Selvi delivered a Guest Lecture titled Battery modeling using evolutionary algorithms on 19/12/2022 organized by Vardhaman College of Engineering, Telangana -IEEE- PES Chapter (online)

## Research Activity

*(National / International journal papers published)*

Madhumitha, S., Sudiksha, R., Seyezhai, R., Umarani, D., Sujatha, R "Binary Decision Diagram Model Based Reliability Prediction of PV Powered Quasi Z-Source Inverter" in International Journal Lecture Notes in Mechanical Engineering, Springer, [https://doi.org/10.1007/978-981-19-3467-4\\_9](https://doi.org/10.1007/978-981-19-3467-4_9) October 2022, Volume , pp 137, ISSN 978-981-19-3466-7, DOI, [https://doi.org/10.1007/978-981-19-3467-4\\_9](https://doi.org/10.1007/978-981-19-3467-4_9), Impact factor 0.19 indexed in Scopus

Makkapati, S., Seyezhai, R., Sridhar, S., Srikirthi, S., Sriram, B., Vikram, V "Design and Simulation of Boost Integrated Half-Bridge LLC Resonant Converter for LED Applications" in International Journal Lecture Notes in Mechanical Engineering, Springer, [https://doi.org/10.1007/978-981-19-3467-4\\_10](https://doi.org/10.1007/978-981-19-3467-4_10) October 2022, Volume , pp 655, ISSN 978-981-19-3466-8, DOI [https://doi.org/10.1007/978-981-19-3467-4\\_41](https://doi.org/10.1007/978-981-19-3467-4_41), Impact factor 0.19 indexed in Scopus

Ramalingam, S., Harika, S., Sowmya, A., Ramakrishnan, N., Purushothaman, S “Simulation and Prototype Development of Solar Assisted Electric Trolley in International Journal Lecture Notes” in Mechanical Engineering, Springer ,[https://doi.org/10.1007/978-981-19-3467-4\\_11](https://doi.org/10.1007/978-981-19-3467-4_11) October 2022, Volume , pp 395, ISSN 978-981-19-3466-9, DOI [https://doi.org/10.1007/978-981-19-3467-4\\_24](https://doi.org/10.1007/978-981-19-3467-4_24), Impact factor 0.19 indexed in Scopus

Bharathi Sankar Ammaiyappan, A., Ramalingam, S “Design and Development of Power Electronic Booster to Extend the Range of Supercapacitor-Powered Electric Bicycle” in International Journal Lecture Notes in Mechanical Engineering, Springer ,[https://doi.org/10.1007/978-981-19-3467-4\\_12](https://doi.org/10.1007/978-981-19-3467-4_12) October 2022, Volume , pp 409, ISSN 978-981-19-3466-10, DOI [https://doi.org/10.1007/978-981-19-3467-4\\_25](https://doi.org/10.1007/978-981-19-3467-4_25), Impact factor 0.19 indexed in Scopus

T. Divya and R. Ramaprabha, “Embedded Switched Z-Source Multilevel Inverter for Grid Interfaced Photovoltaic Systems”, International Journal on Advances in Electrical and Computer Engineering, Vol. 22, No. 3, pp. 43-52, Aug 2022, (Print ISSN: 1582-7445, Online ISSN: 1844-7600), SJR Impact factor 1.01. (DOI: 10.4316/AECE.2022.03005), Scopus Index 0.257 Thomson Reuters Impact factor : 1.01

Dr. R. Ramaprabha, ASSP/EEE., Karthik Rajan, C., Niranjana, R., Kalpesh, J. UG Students, “Modeling Methodology of Flywheel Energy Storage System for Microgrid Applications” – Published online on Sep 30, 2022. in International Journal Recent Advances in Energy Technologies (ISBN: 978-981-19-3467-4). October 2022, Volume Edition 1, pp 191-204, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN:2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_12](https://doi.org/10.1007/978-981-19-3467-4_12) , Impact factor 0.4 indexed in Scopus

Dr. R. Ramaprabha, ASSP/EEE., N. Ramya Krishnan, PG student, “31-Level RCC Multilevel Inverter for Photovoltaic System Interfacing” – Published online on Sep 30, 2022. in International Journal Recent Advances in Energy Technologies (ISBN: 978-981-19-3467-4). October 2022, Volume Edition 2, pp 109-121, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN: 2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_7](https://doi.org/10.1007/978-981-19-3467-4_7) , Impact factor 0.4 indexed in Scopus



Dr. R. Ramaprabha, ASSP/EEE, E. Oliviya Joselin Komagal, PG student, "An Extended Boost Topology of Z-Source Inverter Suitable for PV Interfacing" – Published online on Sep 30, 2022. in International Journal Recent Advances in Energy Technologies (ISBN: 978-981-19-3467-4). October 2022, Volume Edition 3, pp 95-107, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN: 2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_6](https://doi.org/10.1007/978-981-19-3467-4_6) , Impact factor 0.4 indexed in Scopus

P. Sharmila, M.Senthilkumaran, J. Baskaran , C. Nayanatara, "Heuristic DRP-DG optimization strategy adopted for maximizing total social welfare in the real time Indian utility network" in International Journal IET Renewable Power Generation October 2022, Volume 16, pp 3092 - 3107, ISSN 1752-1424, DOI <http://dx.doi.org/10.1049/rpg2.12560>, Impact factor 3.034 indexed in WOS/TR/SD

Gunasundari S, Meenambal S, Tamilselvi S, Dhanalakshmi R, "Deep Convolution Neural Network in classification of liver tumor as benign or Malignant from Abdominal Computed Tomography" in International Journal IEEE Xplore October 2022, Volume 1, pp 654, ISSN E.ISBN:978-1-6654-1005-2 ,DOI <https://doi.org/10.1109/ICICICT54557.2022.9917986>, Impact factor indexed in Scopus

Pon Ragothama Priya, P., Baskar, S., Tamil Selvi, S. Babulal, C.K, "Optimal Allocation of Distributed Generation Using Evolutionary Multi-objective Optimization" in International Journal Journal of Electrical Engineering and Technology, Springer October 2022, Volume 1, pp 44579, ISSN ISSN : 1975-0102, DOI <https://doi.org/10.1007/s42835-022-01269-y>, Impact factor 1.528 indexed in WOS/TR/SD

B. Lakshmiprabha & R.Seyezhai, "Design and Implementation of Bridgeless AC/DC PFC SEPIC Converter with Valley fill circuit" in International Journal IOP Conference Series ; Material Science and Engineering November 2022, Volume 1, pp , ISSN , DOI [doi:10.1088/1757-899X/1258/1/012058](https://doi.org/10.1088/1757-899X/1258/1/012058), Impact factor 0.25 indexed in Scopus

Manivannan Ragupathi and Rengaraj Ramasubbu, "Performance Prediction of Building Integrated Photovoltaic System Using Hybrid Deep Learning Algorithm" in International Journal Hindawi International Journal of Photoenergy November 2022, Volume 22, pp 44570, ISSN 1687-529X, DOI <https://doi.org/10.1155/2022/6111030>, Impact factor 2.113 indexed in WOS/TR/SD

Thiyagarajan, "Modified 75-level asymmetrical inverter topology with minimal device count and THD" in International Journal AIP Conference Proceedings November 2022, ISSN 1551-7616, DOI <https://doi.org/10.1063/5.0116103>, Impact factor 0.189 indexed in Scopus



V. Thiagarajan, "A mini review on recent advancements in inclined solar still" in International Journal Energy Report November 2022, Volume 8, pp , ISSN 2352-4857, DOI <https://doi.org/10.1016/j.egyr.2022.09.174>, Impact factor 4.937 indexed in WOS/TR/SD

V Rajini, R B Jeyapradha, "Comparison of Isolated DC-DC Converters for Low/Medium Voltage Solid State Transformer applications" in Journal of Electrical and Electronics Engineering, Volume 15, Number 1, May 2022, P-ISSN: 1844-6035

M.Sridhar and R.Seyezhai, "Design and Implementation of Single Stage SEPIC Integrated Parallel Ripple Cancellation Method for LED Lighting" in International Journal Advances in Electrical and Computer Engineering December 2022, Volume 22, pp-1582-7445, DOI 10.4316/AECE.2022.04005, Impact factor 2.5 indexed in WOS/TR/SD

Hithu Anand , R.Rengaraj and G.R.Venkatakrishnan,"A convenient demand response layout for energy efficient residential prosumers" in an International Journal Earth and Environmental Science December 2022, Volume 11, ISSN-44914, pp-1755-1315, DOI doi:10.1088/1755-1315/1100/1/012019, Impact factor 0.45 indexed in Scopus .

M. Saranathan, A.Ravi, K.N.DineshBabu, V. Rajini, K. Achuthan Parthasarathy and S. Tamilselvi,"Automatic Synchronization of Alternator using Numerical Relay" in IEEE Xplore December 2022, Volume 1, E:ISBN:978-1-6654-9790-9, DOI:10.1109/MysuruCon55714.2022.9972420, indexed in Scopus.

V. Kamaraj, R. Rengaraj, G.R. Venkatakrishnan and Mrunal Deshpande, "Performance improvisation of 10 kW grid connected solar photovoltaic system - a case study" in the international journal of Earth and Environmental Science December 2022, Volume 100, DOI 10.1088/1755-1315/1100/1/012010, Impact factor 0.45 indexed in Scopus.

Hithu Anand, R. Rengaraj and G.R. Venkatakrishnan, "A convenient demand response layout for energy efficient residential prosumers" in an International Journal of Earth and Environmental Science, December 2022, Volume 100, DOI 10.1088/1755-1315/1100/1/012019, Impact factor 0.45 indexed in Scopus

## Conference Activity

*(National / International conferences presented)*

Dr. R. Ramaprabha, ASSP/EEE "A Single Phase Multilevel Inverter with Cascaded Basic Units" in 2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT), which was held during 07 – 09, Oct 2022, Organized by conducted by Nagarjuna College of Engineering & Technology, Bengaluru in Hybrid Mode in association with IEEE Bangalore Section in Online Mode on 08/10/2022

V Usha, IV Year/EEE, N Mageshwari, IV Year/EEE, R Rajeshwari, IV Year/EEE, Dr. V. Thiyagarajan, ASSP/EEE, "Analysis of A Modified Multilevel Inverter with Fewer Switches" in International Conference on Scientific Research conducted by Kirsehir Ahi Evran University in Kirsehir, Türkiye on 21/10/2022

R Tamizh Selvan, RS/EEE, Dr. V. Thiyagarajan, ASSP/EEE, "Single and Double Input Voltage Sources Multilevel Inverter Topology with Reduced Switches" in International Conference on Scientific Research conducted by Kirsehir Ahi Evran University in Kirsehir, Türkiye on 21/10/2022

Dr. V. Thiyagarajan, ASSP/EEE, "Three Phase Induction Motor Condition Monitoring with Programmable Logic Controller" in International Conference on Scientific Research conducted by Kirsehir Ahi Evran University in Kirsehir, Türkiye on 21/10/2022

Dheeban S S;Muthu Selvan N B;Umashankar Subramaniam, "Power conditioning of standalone Photo-voltaic system with BLDC motor by Negative-Output Luo Converter" in Power Electronics and Renewable Energy Applications (PEREA) conducted by Government College of Engineering, Kannur in Kerala on 27/11/2020

Madhusudan Saranathan ,Adhitya Ravi, K N Dinesh Babu ,Hari Krishna Achuthan Parthasarathy,V Rajini, S Tamil selvi, "Automatic synchronization of alternators using Numeric relays" IEEE 2nd Mysore Sub Section International Conference (MysuruCon) on 10/11/2022

R.Seyezhai & M.Sridhar, "Comparative Analysis of Different Single-stage PFC Integrated Half bridge LLC Resonant Converter for LED Lighting" in Third International Conference on Power, Energy, Control and Transmission Systems during December 8th- 9th, 2022 conducted by Sri SaiRam Engineering College, Chennai in Online/India on 08/12/2022.

S.Devi, B.Lakshmi Prabha & R.Seyezhai, "Reliability Prediction of Interleaved Boost Converter Using Bayesian Belief Network" in Third International Conference on Power, Energy, Control and Transmission Systems during December 8th- 9th, 2022 conducted by Sri SaiRam Engineering College, Chennai in Online/India on 09/12/2022

R.Seyezhai & K. Indumathi, "Comparative Examination of Interleaved Boost Converter with Voltage Multiplier Cellsfor Auxiliary Power Supply System" in Third International Conference on Power, Energy, Control and Transmission Systems during December 8th- 9th, 2022 conducted by Sri SaiRam Engineering College, Chennai in Online/India on 09/12/2022

R.Seyezhai & B.LakshmiPrabha , "Reliability Prediction of Bridgeless Ac-Dc Sepic with Valley Fill for Led Applications" in Third International Conference on Power, Energy, Control and Transmission Systems during December 8th- 9th, 2022 conducted by Sri SaiRam Engineering College, Chennai in Online/India on 09/12/2022



Dr Leo Raju, "Blockchain based energy transaction in microgrid" in IEEE International conference, INDICON 2022 conducted by CUSAT Kochin, Kerala on 26/11/2022.

Aryan, R. Ramaprabha, Rohit Tripathi and Rashmi Agarwal, "Efficient Performance Testing for PV Array Sets Using Capacitor Charging Method" in 3rd Indo Japan Bilateral Symposium on Futuristic Material and Manufacturing for Sustainable Development Goals (IJBSFMM 2022) conducted by IIT Madras & Nagaoka University of technology, Japan, on 03/12/2022

Anjana Ethirajan and R. Ramaprabha, "Modelling of Grid Connected Hybrid System for Non Linear Load" in 2022 IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) conducted by Sri Sairam Engineering College, Chennai in Online mode on 09/12/2022

R. Ramaprabha, Anjana Ethirajan, N. Abhishek, R. Aswinkumar and G. Balaji , "Investigation on the Role of Super Capacitors in Standalone PV System" in 2022 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (IEEE-iSSSC2022 conducted by GIET University, Gunupur, India & Technically Co-Sponsored by IEEE Kolkata Section, IEEE Bhubaneswar Subsection, IEEE Rourkela Subsection & IEEE USA in Online mode on 16/12/2022

Karthika M, Balaji M, Kamaraj V, "Performance Analysis of SRM Topologies for Electric Three Wheeler Vehicle Application" in 2022 IEEE INTERNATIONAL CONFERENCE ON POWER AND ENERGY conducted by IEEE Power & Energy Society (PES) Malaysia Chapter and IEEE Power Electronics Society (PELS) Malaysia Chapter. in Virtual on 06/12/2022.

Karthika M, Balaji M, Ramya S, Retika M K, Surabhi S, "Design and Analysis of Permanent Magnet Motor for Electric Vehicle Application" in an International Conference on Power, Energy, Control and Transmission Systems (ICPECTS 2022) conducted by Sairam Engineering College in India on 08/12/2022.

P. Sharmila, M. Senthil Kumaran, J. Baskaran, C. Nayanatara, P. Shanmugapriya , "Energy saving through optimal DG Dispatch with DSM for residential consumers" in an IEEE International conference on Power, Energy, Control and Transmission Systems organized by SAI RAM Engineering College in Tambaram/ India on 08/12/2022

Dr Leo Raju, "IOT based Energy Management System using STM32 and AWS IOT" in IEEE ISSSC 2022 conducted by School of Engineering & Technology, GIET University ,Gunupur Odisha on 17/12/2022.

Dr. V. Thiyagarajan, ASSP/EEE, "Analysis, Design and Implementation of PLC and SCADA Based Three Phase Induction Motor Control" in ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VII organized by Institute of Economic Development and Social Researches, Turkey in Turkey on 04/12/2022



Sathyabharathi K, IV Year/EEE, Mohamed Ismail M, IV Year/EEE, Sneha S, IV Year/EEE, Dr.V Thiyagarajan, ASSP/EEE, "A Compact Symmetrical 7-level Inverter Module for Electric Vehicle Applications" in ANKARA INTERNATIONAL CONGRESS SCIENTIFIC RESEARCH-VII conducted by Institute of Economic Development and Social Researches, Turkey in Turkey on 04/12/2022

S Akshaya, II Year/EEE, S Harini Sree, II Year/EEE, A R Jayashree, II Year/EEE, D Khavipriya, II Year/EEE, Dr. V Thiyagarajan, ASSP/EEE, "IOT BASED SMART ENERGY METER" in ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VII conducted by Institute of Economic Development and Social Researches, Turkey in Turkey on 04/12/2022

R Tamizh Selvan, RS/EEE, Dr. V. Thiyagarajan, ASSP/EEE, "Study and Analysis of New Multilevel Inverter Topology With Fewer Switches" in Third International Hasankeyf Scientific Research and Innovation Congress conducted by International Science and Art Research Center, Turkey in Turkey on 18/12/2022

S Akshaya, II Year/EEE, S Harini Sree, II Year/EEE, A R Jayashree, II Year/EEE, D Khavipriya, II Year/EEE, Dr. V Thiyagarajan, ASSP/EEE, "IOT Based Smart Energy Meter in Third International Hasankeyf Scientific Research and Innovation Congress" conducted by International Science and Art Research Center, Turkey in Turkey on 18/12/2022

S Akshaya, II Year/EEE, S Harini Sree, II Year/EEE, A R Jayashree, II Year/EEE, D Khavipriya, II Year/EEE, Dr. V Thiyagarajan, ASSP/EEE, "Design of IOT Based Smart Energy Meter For Home Appliances" in Third International Hasankeyf Scientific Research and Innovation Congress conducted by International Science and Art Research Center, Turkey in Turkey on 18/12/2022

## Project News

*(List project applied as well as project sanctioned)*

Dr.R.Seyezhai & Dr.M.Pandikumar applied for an External funded project titled "Design, Development and AI Based Life Time Prediction of Quasi Z-source Inverter for Photovoltaic Applications" on 07/10/2022 to the funding agency DST-SURE for a duration of 3 years .

Dr. Sakthivel Murugan, Dr. K. Murugesan and Dr. M.Senthil Kumaran applied for an External funded project titled "Hybrid underwater energy harvesting system using ocean water and solar cell" on 07/10/2022 to the funding agency DST-SURE for a duration of 3 years for a funding amount of Rupees 28,00,234

Dr Mrunal Deshpande (PI) EEE/SSNCE and Dr R Govindarajan, Research scientist, SSNCE applied for an External funded project titled “Development of black phase Formamidinium lead triiodide-based hybrid perovskite light absorber with improved thermal stability for solar cell applications” on 22/11/2022 to the funding agency UGC-DAC-CSR for a duration of 3 years.

Dr.V.Rajini, balaji Bhargav, Balaji, Tamilselvi applied a funded project titled "Fabrication of high-performance LiBs using novel TMD-based anode materials and estimation of their remaining useful life for underwater applications" on 30/12/2022 for NRB funding agency, funding amount of Rs.59,71,000.

Dr.R.Seyezhai & Dr.D.Umarani applied an External funded project titled “Eco-Friendly Solar Photovoltaic Pole for Multi-utility" on 30/12/2022 for the funding agency AU-NLCIL Innovation Hub for Energy, Environment & Sustainability – ‘ANIHEES

## Webinar Attended

*(List events attended by faculty, excluding conferences)*

Dr.V.Thiyagarajan attended 11 Day Faculty Development Program titled “Power Electronics Applications to Renewable Energy Systems, Electric Vehicles, and Intelligent Control” on 10/10/2022 organized by Sri Sai Ram Institute of Technology, Chennai at Chennai

Dr.R.Ramaprabha attended 2 Day Faculty Development Program titled “IoT and Machine Learning for Electrical Engineering” during Oct 28-29, 2022 conducted by Department of EEE, SSN College of Engineering on 01/11/2022 organized by EEE, SSNCE at Online

Dr.M.Balaji attended 5 Day Faculty Development Program titled “MATLAB - Artificial Intelligence and Optimization Techniques” on 21/11/2022 organized by St.Joseph's College of Engineering at Online

Dr. R. Seyezhai attended 1 Day Webinar titled “Announcement of Performance of IICs organized by MoE” on 18/11/2022 organized by MOE at Online

Dr.R.Deepa Lakshmi attended 1 Day Webinar titled “Patent awareness program titled “Intellectual Property Rights” on 04/11/2022 organized by National Intellectual Property Awareness Mission (NIPAM) office of Controller General of Patents, Designs, and Trade Marks at SSNCE

Dr.V.Thiyagarajan attended 1 Day Webinar titled “Overview of voltage regulator modules in 48V bus based data center power systems” on 18/11/2022 organized by IEEE Industrial Electronics Society at Online



Dr.V.Thiyagarajan attended a 2 Day Faculty Development Program titled "Smart Grid Simulation" on 21/12/2022 organized by Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology at Chennai.

Dr. R. Seyezhai attended a 1 Day Workshop titled "Workshop on Teaching and Learning" by Dr.Praveen Garimella on 15/12/2022 organized by SSN College of Engineering.

Dr.R.Ramaprabha attended 1 Day Workshop titled workshop on "Teaching and Learning " by Dr. Praveen Garimella" on 15/12/2022 organized by SSNCE .

Dr. V.Rajini attended a 1 Day Workshop titled Workshop on "Teaching and Learning" by Dr.Praveen Garimella on 15/12/2022 organized by SSN College of Engineering .

Dr. V.Rajini attended 1 Day Workshop titled "T" Methods of class room disruptions" by Prof. Ganesh Samudra on 16/12/2022 organized by SSN College of Engineering.

## Events Conducted

*(List workshops, seminars, webinars, conferences etc conducted)*

DR.R.Seyezhai, P/EEE. Dr.S.Sureshkumar, ASSP/Mech & Dr.P.Kayathry, ASSP/ECE organized a Workshop titled SSN-IIC & SSN-NSS conducted an Awareness Program on, "Wings to Your Dreams – Know UPSC – Understand the Passion to Serve from Conclave of Experts" at Off line event on 18/10/2022

Dr. V. Rajini, Dr. V. Kamaraj, Dr. R. Seyezhai, Dr. R. Ramaprabha & Dr. M. Balaji organized a Workshop titled "Two Day National Workshop on Application of Machine Learning in Electric Drives" during October 7 - 8, 2022 at EEE Department on 07/10/2022

Dr. R. Seyezhai, Prof./EEE, Dr. R. Ramaprabha, ASSP/EEE and Dr. M. Balaji, ASSP/EEE organized a Workshop titled "Innovative Product Development using Microcontroller" under SSN-IIC at EEE Seminar Hall on 21/11/2022

Dr.R.Ramaprabha, and Dr.M.Balaji organized a Invited Guest Lecture titled Awareness and Projects in DRDO Labs at Online on 07/11/2022

Dr.S. Chithra, ASP/IT Dr.K.Murugesan, ASP/EEE Dr.V. Mahesh, ASP/BME organized a Workshop titled "National Educational Day- Elocution Compitition (both Tamil & English)" at EEE Department- Seminar Hall on 22/11/2022



Dr. V. Rajini (Prof. & Head/EEE) & Dr. R. Ramaprabha (ASSP.s/EEE) organized a Invited Guest Lecture titled “An Industry Interaction session for UG IV-year students for improving their project work to meet industrial needs” on Nov 16, 2022. Mr. M. Mohana Krishnan, Electronics Engineer, Valeo India Private Limited, Chennai interacted with the students. This event is the initiative from Dr. V. Rajini, HoD/EEE to improve the quality of student’s projects. Dr. R. Ramaprabha, Asso. Prof./EEE arranged for this session as project coordinator. at EEE Seminar Hall on 16/11/2022

Dr V Kamaraj, Dr V Thiyagarajan, Dr N B Muthu Selvan organized a Seminar titled Research Scholar Seminar Series-1 on “Fault Detection and Identification Strategy for DC-DC Converter Interfaced Microgrids” at SSN COLLEGE OF ENGINEERING on 02/11/2022

Dr V Kamaraj, Dr V Thiyagarajan, Dr N B Muthu Selvan organized a Seminar titled Research Scholar Seminar Series - 2 on “Embedded Type Switched - Inductor Switched Boost Multilevel Inverter for PV Array Interfacing” at SSN COLLEGE OF ENGINEERING on 09/11/2022

Dr V Kamaraj, Dr V Thiyagarajan, Dr N B Muthu Selvan organized a Seminar titled Research Scholar Seminar Series - 3 on “SF6 Alternatives – A Laboratory Testing Approach” at SSN COLLEGE OF ENGINEERING on 16/11/2022

Dr V Kamaraj, Dr V Thiyagarajan, Dr N B Muthu Selvan organized a Seminar titled Research Scholar Seminar Series - 4 on “Big Data Analytics in the Power Sector” at SSN COLLEGE OF ENGINEERING on 24/11/2022

Dr V Kamaraj, Dr V Thiyagarajan, Dr N B Muthu Selvan organized a Seminar titled Research Scholar Seminar Series - 5 on “Transactive Energy Framework for Community Microgrid with Demand Response Management” at SSN COLLEGE OF ENGINEERING on 30/11/2022

Dr V Thiyagarajan, Associate Professor, EEE Dr R Anantharaj, Associate Professor, Chemical Engineering organized a Conference titled “Second National Conference on National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT 2022)” at SSN COLLEGE OF ENGINEERING on 25/11/2022

IEI & IIC organized a Seminar titled "Performance Evaluation of an Electric Vehicle in Real-World" at SSNCE on 03/12/2022.

# Industry Collaboration

V.Rajini obtained a consultancy grant for Product Development in Design and development of BMS for an amount of 300000 for a period of 0.5 years in the area of Power electronics

## Other Items

*(Any item not covered above)*

Dr.V.Rajini attended the elsevier connect program at 'The park' Chennai

Mr.Chandran, CEO SSN iFound visited EEE department and 4 incubating ideas were presented

Dr. R. Ramaprabha, Asso. Prof./EEE reviewed 3 papers for 2nd IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC 2022) to be held during December 15 ~ 17, 2022, GIET University, Gunupur, India, IEEE Conference Record No:56467, Technically Co-Sponsored by IEEE Kolkata Section, IEEE Rourkela Subsection & IEEE USA – Sep 29, 2022.

Dr. R. Ramaprabha, ASSP/EEE along with Dr. V. Kamaraj, P/EEE & Dr. M. Balaji, ASSP/EEE met Mr. Chandran, CEO, SSN Incubation centre to discuss about the filed patent to find out whether it can be pitched for commercialization on Oct 06, 2022.

Ms. T. Divya (Reg No. 18223991161) full-time PhD student of Dr. R. Ramaprabha, ASSP/EEE submitted her thesis on Oct 06, 2022

Dr. R. Ramaprabha, Asso. Prof./EEE reviewed 1 paper for Renewable and Sustainable Energy Reviews (Elsevier)

Dr. V. Thiyagarajan, ASSP/EEE has reviewed the papers submitted for the Virtual International Technical Conference on Control in Electric vehicles and Smart grid with Renewable Energy Synergies (VIT-CES-RES) organized by School of Electrical Engineering, Vellore Institute of Technology, Chennai, from 28/10/2022 - 29/10/2022.

Dr. V. Thiyagarajan, ASSP/EEE, chaired the technical paper presentation session for the International Conference on Scientific Research organized by Kırşehir Ahi Evran University, Kırşehir, Türkiye on 21/10/2022.

Dr. R. Leo , ASSP/EEE has reviewed Two WOS Journal papers, one paper in Energies MDP Journal and the other in Sustainable Cities and Society, Elsevier journal during November 2022.

Dr. V. Thiyagarajan, ASSP/EEE has reviewed the papers submitted for the International Journal of Renewable Energy Research (IJRER), ISSN: 1309-0127.

Dr. V. Thiyagarajan, ASSP/EEE has appointed as a technical program committee member for 3rd International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2023) held in Qingdao, Shandong, China, from July 7 to 9, 2023.

Dr. R. Leo , ASSP/EEE has reviewed Two WOS Journal papers, one paper in the Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis Journal and the other in Mathematical Problems in Engineering and Society, Hindavi journal during December 2022.

## Student External Recognition Co-curricular

Under the guidance of Dr. R. Rengaraj & Dr. M. Suresh, ASP, Mech a team of students Mech Mavericks Participated in the competition i-cube Organized by Sri Venkateshwara College of Engineering at Sri Venkateshwara College of Engineering, Sriperumbudur and won Second Prize

“When duty calls, that is when  
character counts.”

- William Safire



# Alumni Interaction

Alumni meet on Saturday 7th Jan 2023



# Department EEEEvents

## *Workshop on Application of Machine Learning in Electric Drives*

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

Department of Electrical and Electronics Engineering organized National Workshop on Application of Machine Learning in Electric Drives during October 7 - 8, 2022. Ms. N. Laxmi, Software Engineer – AIML, Prodapt Solutions, Chennai delivered a lecture titled “Introduction to Machine Learning” and Shri. Sitangshu Sekhar Biswas, Scientific Officer- F, BHAVINI, Kalpakkam delivered a lecture titled “Application of Machine Learning for Induction Motor Drives”. Number of Participants were 56



**Ms. N. Laxmi, Software Engineer – AIML, Prodapt Solutions, Chennai**

**Two Day National Workshop on Application of Machine Learning in Electric Drives during October 7 - 8, 2022**

**Shri. Sitangshu Sekhar Biswas, Scientific Officer- F, BHAVINI, Kalpakkam**

nuclear fission: subdivision of a heavy atomic nucleus, such as that of uranium or plutonium, into two fragments of roughly equal mass.



# Industry Interaction

*ft. Mr. M. Mohana Krishnan, Electronics Engineer, Valeo India Private Limited*

An Industry Interaction session for UG IV-year students for improving their project work to meet industrial needs was arranged on Nov 16, 2022. Mr. M. Mohana Krishnan, Electronics Engineer, Valeo India Private Limited, Chennai interacted with the students. He insisted that the dedication & hard work of the students to complete the fruitful projects. He also emphasized the need for the product development through projects to meet industry expectations. He motivated the students by sharing his experience as PG student at EEE/SSN. He also shared how he effectively utilized the advance research facilities at department labs. He spent a full day to review the projects of students and gave his suggestions for improvements. This event is the initiative from Dr. V. Rajini, HoD/EEE to improve the quality of student's projects. Dr. R. Ramaprabha, Asso. Prof./EEE arranged for this session as project coordinator.





# Industry Interaction

*ft. Mr. G. Kamalesh, Specialist- Electric Vehicles at Tata Elxsi India Private Limited*

On November 14, 2022, there was a session of Industry Interaction for fourth year undergraduate students, with the goal of enhancing the students' project work, so that it better satisfies the requirements of the industry. Students in the fourth year of Section A had a conversation with Mr. G. Kamalesh, Specialist- Electric Vehicles at Tata Elxsi India Private Limited, Chennai. He emphasised the need of the students' perseverance and effort to successfully accomplish the worthwhile projects during the course of their Undergraduate studies. In addition to this, he underlined the importance of the product development accomplished through projects to fulfil the requirements of the industry. He inspired the students by relating his experiences as a postgraduate student at EEE/SSN. In addition to that, he discussed how he made efficient use of the modern research facilities available at the department labs. He devoted a whole day to analyse the project work carried out by the students and providing valuable feedback on its improvement. This event is an initiative of Dr. V. Rajini, Head of Department of EEE, to enhance the overall quality of undergraduate student projects. The project coordinator, Dr. Muthu Selvan N B, Associate Professor, EEE, organised this event.



Industry Interaction  
IV Year EEE Students  
14<sup>th</sup> Nov, 2022  
**Mr. G Kamalesh,**  
Specialist – Electric Vehicle  
Tata Elxsi India Private Limited



# *Workshop on Innovative Product Development using Microcontroller.*

Conveners: Dr. R. Seyezhai, Prof./EEE, Dr. R. Ramaprabha, ASSP/EEE and Dr. M. Balaji, ASSP/EEE

Department of Electrical and Electronics Engineering organized National Workshop on “Innovative Product Development using Microcontroller” under SSN-IIC on Nov 21, 2022. Mr. Dinesh Natarajan, Director Welkinrim Technologies, Chennai is the Speaker for this workshop. Around 100 students participated in this event. The objectives of this program are to orient the students towards product development and motivate them towards entrepreneurial ventures and also illustrate the process involved in the product development. The participants were apprised about product development using microcontroller. The speaker discussed about the need for innovation and the process involved in product development. He shared his experience and demonstrated a few products that his team has developed. He motivated the students to become entrepreneurs.





# *Second National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT - 2022)*

## CONFERENCE CHAIRS

Dr. V. Rajini, HOD/EEE, SSN CE

Dr. K. Sathish Kumar, HOD/Chemical, SSN CE

## CONVENERS

Dr. V. Thiagarajan, Associate Professor/EEE, SSN CE

Dr. R. Anantharaj, Associate Professor/Chemical, SSN CE

Department of Electrical and Electronics Engineering and Department of Chemical Engineering has jointly organized “Second National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT-2022)”, November 25-26, 2022. FCEVT -2022 is the premier interdisciplinary platform to deliver the latest developments and innovative research results in Fuel Cell and Electric Vehicle Technology for all professionals, researchers and engineers. The conference will serve as a forum to discuss high level scientific issues, exchange state of the knowledge in pure and applied sciences, and initiate collaborative research among various scientific groups. As a result, we would like to take significant steps forward in our journey to develop and implement green fuel technologies in electric vehicles. The research in this field is quite difficult and has a lot of scope for advancement. The theme of the conference attracted around 125 submissions from various institutions including

- AMET University, Chennai,
- Vel Tech University, Chennai
- Bharath Institute of Higher Education and Research
- University of Technology and Applied Sciences -Salalah
- Bannari Amman Institute of Technology, Sathyamangalam
- Sri Sairam Institute of Technology, Chennai
- Saveetha Engineering College, Chennai
- Sona College of Technology, Salem
- SRM TRP Engineering College, Tiruchirappalli
- Arasu Engineering College, Kumbakonam

The inaugural function was followed by keynote talk by Dr. D. Kalpana, Principal Scientist, CSIR - CECRI - Madras Unit. As the conveners of this conference, we heartily express deep sense of gratitude to our Management, Principal, Head of Department, Keynote Speaker, Participants, and all those who helped us to organize this National Conference and made it a grand success.

FCEVT EEE SSN is presenting





9:29 AM | FCEVT Conference

FCEVT EEE SSN is presenting





9:43 AM | FCEVT Conference

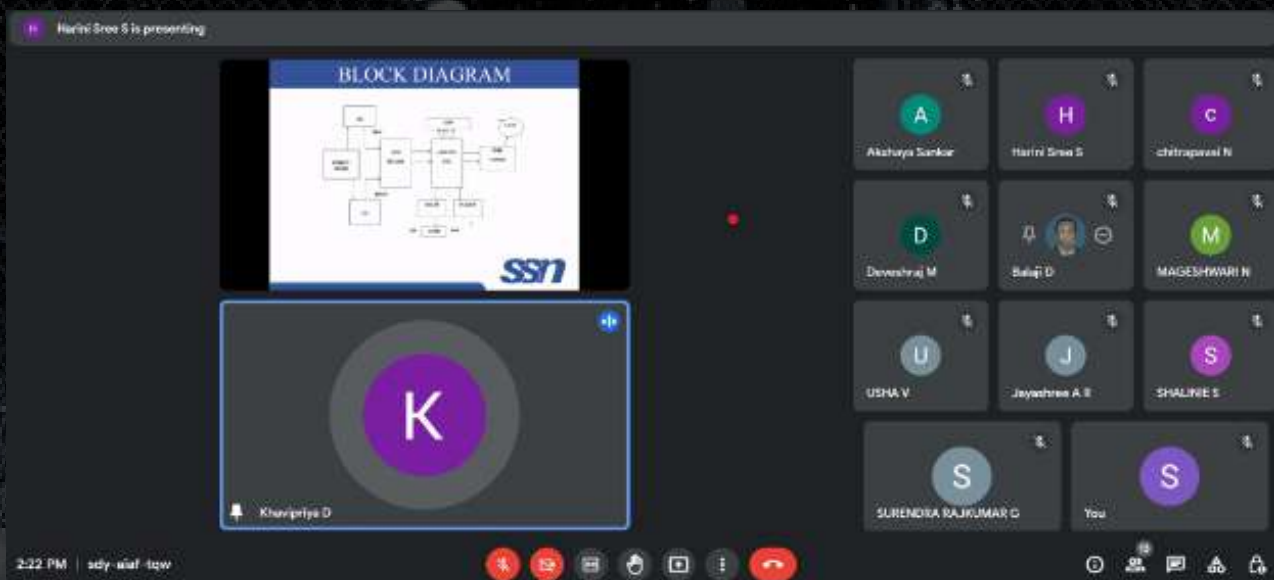
Kalpana Girdharan is presenting





10:12 AM | FCEVT Conference





# INVENTE'22

Invente'22, an event awaiting to see an offline release for about two straight years, finally had its golden return despite many hurdles this year! We as a department came forward to conduct and relish the experience of this extravagant event. There were multiple committees set up for governing and managing various events, and every event had two event heads from the final year leading it, followed by a group of third and second year students helping to organise it! We can thus conclude that Invente'22 was indeed an event that was well planned and perfectly executed as a team, by the members of the EEE department.

One can owe all of the praise and gratitude for making all of this work to our respected HOD. Dr. Rajini V, and Prof. Nagarajan, they made sure to encourage and motivate us to do the best of our works to put up this event. The event day was nothing less than a memorable celebration of young n talented minds. It was a great experience for the entire department and especially the members of the student council from AEEE, to have conducted a magnanimous event like this and as I sum-up, there's just more eagerness and excitement to make all of the magic happen once again next year!!

- Harshvardhini M, 3rd year EEE



# A peak into the events

## Ideate:

It is an extended hackathon that kindles the passionate engineering minds to shape up their attractive ideas, that serves to solve a real-time problem or as a token of technological advancement. This is a team event and each participant in the team must register individually through the official invente7.0 website and acquire a pass to participate in the events.

## Tentkotta:

Tentkotta being a non-technical event that received an unexpected number of participants. Starting from the "Go with the flow", till the "Panchathanthiram", the event room was completely filled with energy and the fellow volunteers managed to take care of the crowd with ease. Go with the flow is a round where team saying a movie name to which the other team guesses the name of the movie which has the starting letter same as that of the previously mentioned movie name's last letter.

Panchathanthiram is the finale round where five clues depict a movie and rivalry was at its peak. Every round was fun-loaded, and the participants were well engaged as they all had to decode the clues and answer within the countdown.

It was a great experience on the whole.

## IPL Bidding:

Firstly we would like to thank the Management for believing in us and giving us this flagship event. Right from day 1 we started working on the event by creating powerpoint presentations, Paddles, Player Database, Rules Framework. We took the help of Volunteers who helped us complete the tasks. We were well prepared for the event. On the event day, we got huge response that we expected but still we conducted the round 1 which was quiz based without any hassle. Then the Round 2 shortlisted teams were called and they were enthusiastic and they came way before the start of the event. The second round was interesting with all the teams fairly competing and it was a close encounter. At the end all the participants enjoyed the event and said this was the most authentic auction experience we have ever had.

## D-Sim:

The D-SIM event was attended by four teams from two different colleges. First round consisted of 20 multiple choice questions for 30 minutes. Second round consisted of three simulation questions (answer any 2 - 10 marks each) from digital logic and power electronics. Duration of second round was 45 minutes.

1st place was secured by AKASH K of ECE department, SRM EASWARI ENGINEERING COLLEGE with a cumulative score of 24. 2nd place was secured by JAGESH.J and KISHORE.B of EEE department, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY with a cumulative score of 19. The winners were given a certificate and the cash prize in form of a cheque.

#### Paper presentation:

Paper presentation was one of the technical events that took place during invente. This was an event where in academic research papers from diverse fields of engineering and technology were judged based on their content by a distinguished panel of judges. The response for the event was overwhelming and there were numerous submissions from students of esteemed universities. Innovative solutions were explored for common day to day problems. The winning submission detailed the possibility of solving a classification problem by using machine learning algorithms. The evaluation round can be summed up to a brainstorming session where the participants and their ideas were put to test. Overall it was one of the successful events and the students who took part were all praises for the smooth conduct of the event. After all the world needs nerds and it was a pleasure to bolster the budding creators!

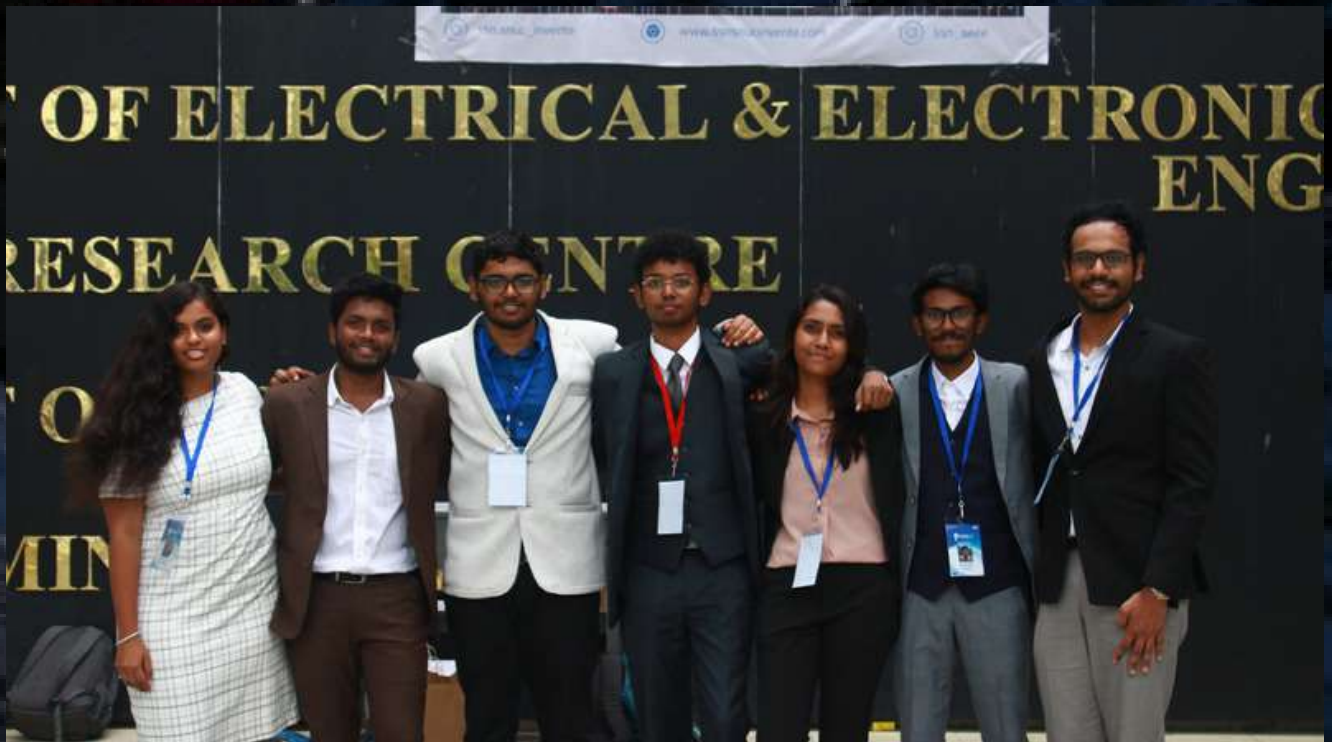
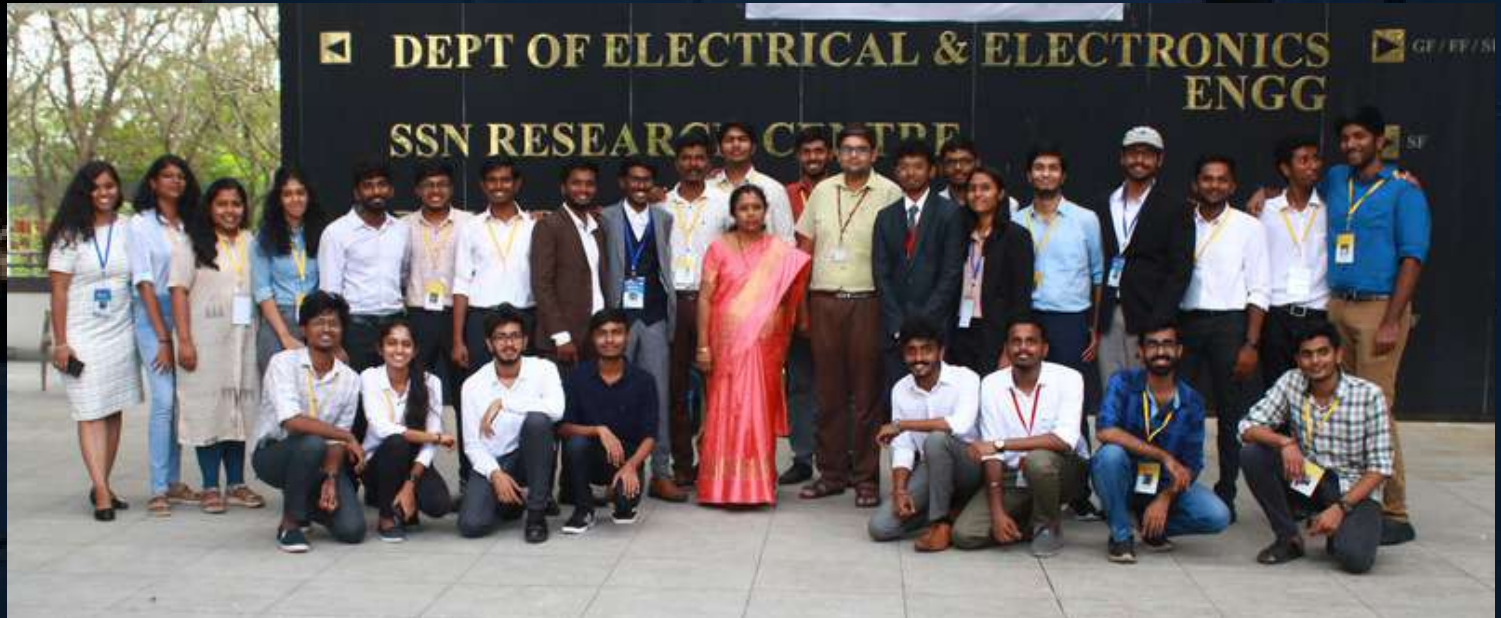
#### Inventino:

Inventino was one of EEE's flagship events for the past few years and we were ecstatic when the department agreed to conduct it this year; we thank our HOD for it. The event comprised two rounds, first round was a quiz on basic electronics and microprocessors. With the help of 2nd and 3rd-year student volunteers, we prepared quiz questions for the first round, the volunteers were much more excited than us as it was their first offline Inventa and supported us to conduct the event seamlessly. Even though the participation was underwhelming we gave our best to make it memorable for everyone.

After the first round was over, the shortlisted teams were called and given hardware models with each of them choosing a problem statement (based on the marks scored in the quiz). They were asked to build efficient solutions along with a short presentation. Every team did their best and came up with creative solutions. The solution and presentations were evaluated, and the prizes were awarded.



# INVENTE'22 - GALLERY



# மொழி வளம்

எஸ் எஸ் என் பொறியியற் கல்லூரி ஆசிரியர்கள், மாணவர்கள் மற்றும் பணியாளர்கள் சார்பாக இந்த ஆண்டின்(2022) சிறந்த கொடைவள்ளல் என்று போற்றப்படும் பத்மபூஷன் டாக்டர் சிவ் நாடார் அவர்களுக்கு வாழ்த்துக் கவிதை

கண்ணதாசன் காரைக்குடி  
கமலஹாசன் பரமக்குடி  
அடிகளார் குன்றகுடி  
ஐயா, நீங்களோ தூத்துக்குடி!

தூத்துக்குடியில்  
கடலில் முத்தெடுப்பர்கள் !  
உன் அன்னை கருவில்  
கண்டெடுத்த முத்து நீங்கள்!

வாம சுந்தரி ஈன்றெடுத்த  
வரலாற்று நாயகனே !  
இந்த ஆண்டுமட்டுமா(2022)- எப்பொழுதும்  
வாரிக் கொடுக்கும் வள்ளலே!

நீங்கள் பிறந்ததோ மூலப்பொழி  
நீங்கள் படித்தோ தமிழ்வழி!  
நீங்கள் கொடுப்பதோ தனிவழி!  
அதுவே பலர் வாழ்வில் உயர்வுக்கு வழி!

உங்கள்  
குடும்பத்தில் எட்டில் ஒன்றாகப் பிறந்தீர்கள் !  
யாரும் எட்டாத உயரத்தை அடைந்தீர்கள்!  
இந்திய செல்வந்தர்கள் பட்டியலில் -நீங்க  
இடம் பெறும்படி உயர்ந்தீர்கள் !

உங்கள் குடும்பத்தில் எல்லோரும்  
சட்டம் படித்தவர்கள் !  
நீங்கள் மட்டும்தான் சரித்திரம் படைத்தீர்கள் !  
பொறியியல் படித்து புதுமைகள் படைத்தீர்கள் !



உங்கள் குழந்தைப் பருவத்தில்  
எலிசபெத் இராணியை வரவேற்றீர்கள்! -பின்பு  
இராணியே உங்களை வரவேற்கும்  
அளவிற்கு உயர்ந்து  
நியூட்டனின் விதியை நிஜமாக்கினீர்கள்!

நீங்கள் படித்த கல்லூரியோ (பி எஸ் ஜி) கோவையில் இருக்கிறது  
நீங்கள் படைத்த கல்லூரியோ(எஸ் எஸ் என்) மாணவர்கள் தேவையில் இருக்கிறது !  
நீங்கள் உருவாக்கிய பல்கலைக்கழகமோ வான் முட்ட உயர்ந்து நிற்கிறது !  
பலரை வாழ்கையில் உயர்த்த இருக்கிறது!

நீங்கள்  
65-ல் இந்தியை எதிர்த்தீர்கள்!  
25-ல் இந்தியை கரம் பிடித்தீர்கள்!

நீங்கள் படித்த காலத்தில் படிப்பை முடித்ததும்  
அரசாங்க வேலைக்குப் போவார்கள் !  
நீங்கள் மட்டும் தனி அரசாங்கமே  
அமைக்கப் போனீர்கள்!

அரசு வேலை என்பது ஓர் இராஜ்ஜியத்தில்  
பூஜ்ஜியமாக இருப்பது.  
சுய வேலை என்பது பூஜ்ஜியத்தில்  
இராஜ்ஜியம் அமைப்பது.  
நீங்கள் ஜீரோவிலிருந்து வந்த ஹீரோ!

குடிசையில் பிறந்த எச். சி .எல் -ஐ  
கோபுரமாக உயர்த்தியது  
உங்கள் உழைப்பு!

கல்வி கற்று  
நீதி வழங்கும் குடும்பத்தில்  
நீங்கள் தான்  
கல்வி கற்கவே  
நிதி வழங்குகிறீர்கள் !

உண்மையில்  
ஏழை மாணவர்களின்  
கண்ணீர் துடைப்பது  
அவர்களின் கர்சீப் அல்ல  
உங்களின் ஸ்காலர்ஷிப்!



இந்தியாவின் வல்லரசுக் கனவை  
நிறைவேற்ற  
ஆண்டுதோறும் பல கிராமப்புற மாணாவர்களின்  
கல்விக் கனவை நிறைவேற்றுகிறீர்கள் !  
இந்திய நாட்டின் வளர்ச்சி  
கிராமத்திலிருக்கிறது என்றார்கள் .  
ஆம்!  
ஒரு கிராமத்தில் தோன்றிய உங்கள் வளர்ச்சிதான்  
அறுபதாயிரம் குடும்பங்களுக்கு  
வாழ்க்கை கொடுக்கிறது!

அரை நூற்றாண்டு கால  
அயராத உழைப்பிற்கும் சேவைக்கும்  
அரசு வழங்கிய  
மனிமகுடம்தான்  
பத்மபூஷன்!  
பல்கலைக் கழகம் வழங்கியது தான்  
மதிப்புரு முனைவர் பட்டம்!  
பல பத்திரிகைகள் வழங்கியது  
கொடைவள்ளல் என்னும் பட்டம்!

21 ஆம் நூற்றாண்டின்  
இந்திய திருநாட்டின்  
தமிழ் நாயகனே!  
நீங்கள் உடல் நலமும்  
உள்ள பலமும் பெற்று  
வான்முட்டும் புகழோடு  
வாழ்க பல்லாண்டு!

**கு. முருகேசன்**  
**இணை பேராசிரியர்**  
**மின் மற்றும் மின்னணுவியல் துறை**  
**ஸ்ரீ சிவசுப்ரமணிய நாடார் பொறியியல் கல்லூரி**  
**காலவக்கம். சென்னை.**





# STUDENT'S CORNER

## ACHIEVEMENTS

### *EYES ON THE PRIZE*

"The Basketball - Anna university zonal basketball competition for women was conducted on the 24th of November 2022 in SSN College of Engineering. After a month of solid practice, camping, and practicing from 2 hours a day to 6 hours a day, my team worked hard toward the goal of winning the tournament. The first match was the direct semi-finals that took place around 9 am against SRM Easwari Engineering College where we won the match with a score of 33 - 4. The finals took place around noon against St. Joseph's college of engineering. Our team couldn't put in our best, so we lost the finals against St. Josephs. Understanding all the mistakes we made, we strive to come back strong. Better than ever."

Aswathy R, II year





The price of success is hard work,  
dedication to the job at hand, and the  
determination that whether we win or  
lose, we have applied the best of  
ourselves to the task at hand.

- Vince Lombardi



# Expanding my Outlook

## ENVISION

I'm Aswin from 2nd year A sec. I write this article to share my experience towards the ENVISION Conference which is India's 1st energy festival that's jointly organised by IITM Research Park ,Taramani , Chennai along with IESA (Indian Energy Storage Alliance). This conference happened from 3rd Nov 2022 to 5th Nov 2022 @ IITM Research Park, Taramani ,Chennai.In this 3-day energy conference a lot of global issues like global warming, climate change & constant usage of conventional fossil fuels leading to shortage of fuels were discussed.

On Day 1, Dr. Ashok Jhunjhunwala, President, IITMRP gave a keynote address about the conference as an overview on the very 1st day. Dr. Milind Kulkarni (Reliance Industries) gave a talk on Techno – Economics which gave us an insight into the generation of renewable energy sources. Dr. R. Gopalan (ACRI) &Dr. Rahul Walawalkar (IESA) gave the guest lecture on energy storage systems. Prof. Satyanarayanan Seshadri (IITM) gave a lecture on how to enhance the energy efficiency of our country with the help of advanced technology which's getting developed day by day. Also, group discussion was conducted on these topics among the panelists.



On Day 2, Prof. Manu Santhanam & Prof. Ajay Shukla (IITM) along with Dr. Samik Nag (TATA Steel) gave a lecture on decarbonisation of construction of cement & steel. Prof. Uday Khankhoje (IITM) gave us an insight into wireless power transmission which was extremely mind-blowing. Randheer Singh (NITI Aayog) spoke on the topic 'Electrification of Transportation & Mobility'. Prof. Aravind Kumar (IITM) gave a guest lecture on Green Hydrogen where he gave details about green chemistry & all details about Carbon Footprint like how it's formed, how it can be eradicated for living a pollution free life in the future. A group discussion on the above topic was conducted. Also, they gave us a tour of the research park where they showed their battery engineering centre, they showed us the manufacturing & processing of electric vehicles. They had a lab to recycle the wastes which they produced. Also, they have an incubation cell for budding employees.

On Day 3, Dr. K. Balaraman (NIWE) & Srijith Menon (UK Embassy Research) gave us a lecture on the topic "Offshore Wind" where they spoke about advancements in wind energy & problems faced on using the wind energy. Prof. Aravind Kumar (IITM) gave us an insight into how energy storage systems can also be used for a longer duration of time. Finally, a panel discussion happened on the topic 'Climate Finance'.

Overall , I learnt a lot of interesting things & was amused to learn about the new facts. I express my gratitude to Dr. P. Kaythry ,(ASP), ECE & NSS Programme Officer, SSNCE for giving me an opportunity to be a part of this great Indian energy festival. I'll try to implement the inputs which I received from the conference with our fellow college mates through lectures or activities under the Sustainability Club which is to be formed soon to educate the college on these issues as these are alarming right now & they question our survival if the present trend continues in the upcoming days...

Aswin S, II year





# Leaving a Mark

# Project Conference Report

This is the report based on the conference Ankara organized by Turkey on December 02.12.2022 and Head of the session was Prof V. Thiagarajan Associate professor of Electrical and Electronics Department. We did our paper presentation on the topic of "IOT BASED SMART ENERGY METER" and another conference held on 26.11.22 organized by SSN College of Engineering the session Chair persons were Dr M Devesh Raj, Associate professor, Department of EEE, SSN college of engineering and Dr D Balaji Associate professor, department of chemical engineering , SSN college and the topic of our paper presentation is "IOT BASED SMART ENERGY METER".

The things discussed were dealt with present problem such as the demand for electricity is increasing at a constant rate in the population and is being utilized for various purposes, hospitals, etc. So, it is becoming more and more complicated to handle electricity maintenance. By using IOT based smart energy meter we can fix this problem. This paper mainly deals with the smart energy meter, which utilizes the features of embedded systems. The energy consumption can be monitored by using an electric device called smart energy meter, and the general outline of the project and implementation were presented and at the end, a question and answer session was held, for both the conferences we were provided with online certificates.

Akshaya S, II year

[illegible]

# A CORNER TO PONDER

-Pranav A, III-A

## *Ep- 4: Is it Black & White or Grey?*

Hey people! It feels like I wrote an article under this heading just yesterday. But when I do look back, it has been almost four full months. The past few months have been chaotic... to say the least. With all of us running from one exam to another, I am immensely grateful that breathing is an involuntary action. But now, with all that frenzy behind us, it is time for some introspection. So let us take a couple of minutes to slow our lives down and focus just on ourselves- with nothing prodding at your minds, nothing but pure silence around you. Ah! I can almost just feel my eyes closing and drifting off to sleep... Anyway... we have a task at hand now- we must look within ourselves, judge our actions and determine if we're on the right path.

This edition, I'd like to express my gratitude to all who've helped me become me. So, naturally, anyone would start with their parents, move on to their teachers, their school/college, their neighborhood and so on... I am no different. But if I were to start listing out all, we'd probably be here until the next edition. So what I would like to address today is the small things that occur daily in your life change your outlook in some way- big or small, it doesn't matter. Take this section for instance. This area in the magazine has become my home of sorts. Whatever task I do or don't do, I make sure that I write an article for this section. It has been the listener to all the nonsense my mind comes up with- without a speck of judgment.

Whenever I talk about this section, I cannot forget its readers. Oh boy do I love you all! There are several people who've been with 'A corner to ponder' since its first installment and are consistently giving constructive criticism every time the magazine goes live. These people will always have a special area in my heart. I am better with every article only because of their comments and suggestions. Your suggestions and comments just push me to write better, to relate better and to entertain you all better. Without that, the writing style and the content would've been stagnant.

And then there's that special group of people who get to read this section even before the magazine is published. Only they know how many blunders I make- ranging from the silliest of spelling errors to extremely complex sentences I come up with. They're also the kind of people who relate to anything I write and can understand each word to its full depth. To them, I express my heartfelt gratitude. Nothing I do will compare to how much you've all contributed to the existence of this magazine.



Now you must be wondering why I am beating around the bush and despite reaching the 500 word mark, I have not breached the main theme yet. What I'd like to tell you all today is, bluntly, to express your gratitude in some form to people who deserve it. Be it your mother, who forces you out of your bed with new methods everyday; your dad who is there for you whenever, even though he doesn't show it. Must I mention our friends? They're the people who bring out the worst kind of chihuahua in us but are also the ones who push us to be better everyday. And try talking to them about your problems, they always give you a patient hearing. They try their best to provide a solution- it might not work, but isn't it the intent that matters? There will be that one activity in everyone's life that will give them instant happiness when they just think about it. Be thankful for that venture which pulls you up from the deepest wells you've dug yourself into. Like I said, these are the major divisions to gratitude.

Looking at the shadowed ones, isn't there always that one senior you can always count on to explain things to you without making you feel like an idiot? There's also that professor who compensates for others- be it in marks or the number of free hours given ;) That one person who was in your life for just a brief amount of time but caused a magnitude of changes in it. So, summing it all up, I'd like to let you know that I'm forever indebted to all of you, human or passion, and that nothing I do will change the fact that it has, in some form or another, helped me outgrow and evolve.

In just two paragraphs, we've mentioned so many things we have to be thankful about. And by just talking about this, my heart warms up to a great extent. All of this is just for one person. Imagine people being grateful for every little thing that happens- that would just fill up the world with genuine joy. This seems like a better alternative to moping around, doing nothing don't you think?

Talking in absolute terms, the line that determines gratitude is a solid line separating the white from the black. One of the very few concepts in the universe that isn't the usual gray is gratitude. The feeling of thankfulness cannot be traded for anything. Gratitude cannot be bartered for. No matter how much you try to pay back, it does not change the fact that a person has helped you with something. When something is right from your perspective, it is predefined that it is right when directed at you as well.

It is now time to bid you all farewell, and I do hope and pray that all of you help each other without any ill intent towards the receiver. It is truly said that life is a circle. Anything you give out is sure to come back to you in a force greater than what you've sent it out with. Do your little to make this utopia of an ideal world a reality. And please do express your appreciation to all those who deserve it. Go hug your mom and dad. Go hug your friend(or slap them, if that's your love language, but please don't have my head for it later ;) ). Make them know and feel what you feel for them.



# Vantage Of Verses

*Rocks to stumble,  
Twigs to trip,  
Spines to bruise,  
Fast flowing rides screaming this ain't a cruise!*

*Come to think of it, it's still quite sought!  
It's Rocky yet greenish n bedded,  
Trippy but blossoms to cure,  
And spiny but quenches jus right!*

*Every tear is a hidden treasure,  
And every fear is it's guarding door,  
Enroute to your inner hollow,  
You need to suspend inorder to float!*

*- Harshvardhini M, 3rd year*



# Vantage Of Verses

*Falling off the cliff;  
Hands I saw,  
Familiarly disguised,  
Laughter I heard;  
Evil it was,  
Said I deserved.  
I did know I do not.  
Screams went unheard.  
For the harpy got no listening aid.  
Amidst dark sky;  
Moon I saw.  
Oh good heavens!  
I'm still alive, I wondered.  
It's been centuries,  
Whispered the wolf,  
Howling at the lune.  
For the reason,  
I never knew.  
For the purpose,  
I'd never know.*

*-Himasai Thupakula 3rd year*



# Mystic Lenses



V Shrikar, II year



Khaviyapriya, II year





Harini Sree S, II year

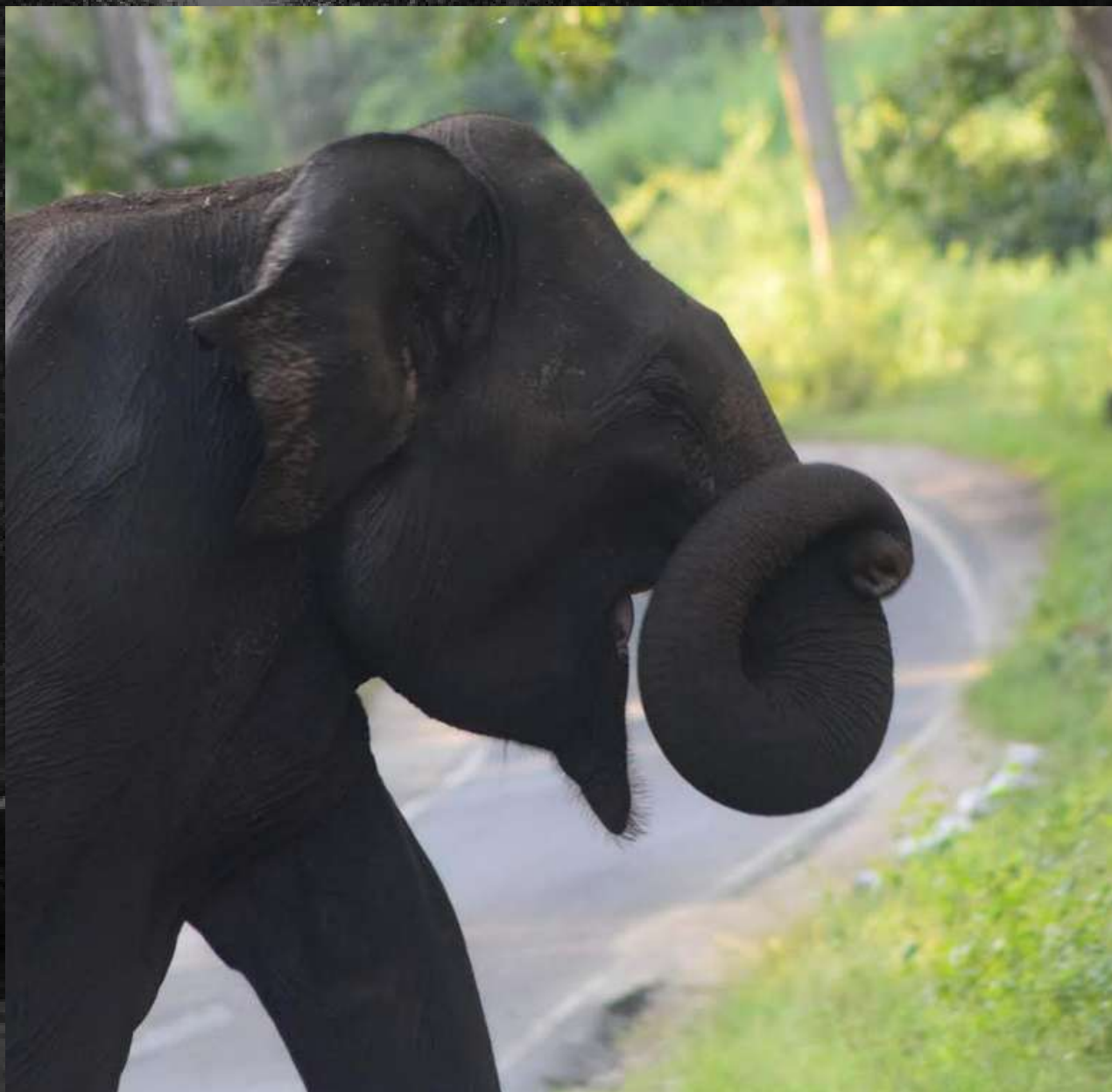


Alfred Jerlin, II year



Sweathaa, II year





Alfred Jerlin, 11 year

# SWIRLING INK



R Aarthi, II year





*Lokshanaa S* 😊

Lokshanaa S, II year



Anusha, II year





Harshvardhini M, III year

# THE DEGREE AFTERMATH

## Placement Experience

*-Arun Changotra*

Company Name : Crayon Data

Role: Associate Engineer

Category: Super Dream

Type: IT

Description: FTE

CTC: 10+ LPA

Mail ID: arun193001014@eee.ssn.edu.in

Contact No: 8082286162

Online Test Experience:

First round was a online screening test. It was pretty simple three basic coding question. This round was mainly framed to filter bulk of candidate after this round 36 candidates shortlisted for first technical round.

Interview Experience:

Round 1 - Technical Interview I:

After online test this was first technical round. I would recommend you to go through all the details mentioned in your resume technical as well as non-technical stating reasons too. As usual I was asked to introduce myself, projects, achievements etc. Just mention as much technical as possible, initially they asked me about my projects in my case it was mainly from my core only, after which he asked me why I want to join IT as I am from core so juts prepare a logical acceptable answer with reasons supporting you. After he gave me one simple coding question which I was able to solve next to that few puzzles was passed to me as it was time bound so be quick as much as possible next to that he asked about few theoretical concepts of oops ,and my language which I mentioned (C++/C). (This round was mainly designed in such a way that certain pre framed question were passed to us by different interviewers to mainly analysis the response time of students which can be mainly through puzzles)



## Round 2 - Technical Interview II:

After round 1 second round of shortlisting was done on the same day. This round was conducted by same interviewer so performance analysis was done. This round he passed three coding question including 1 question which he asked to explain logic only as I was not that much confident with syntax later, he asked me about SQL, Python concepts but I am from core department, so stating that as a reason I said NO and convinced to learn in future. As winding up with interview he gave me a chance to ask question (don't ever miss the chance as it will provide you a way to engage the interviewer deeply)

## Round 3 – HR Interview:

This round was too conducted on same day basic hr question like why you want to join it, tell me about your family background, hobbies etc. was asked. More of behavioral question was asked. This was not an elimination round so she explained me about the work culture, mode of working and how the onboarding process will take place etc.

Be true and confident on whatever you know. That's enough to take you where ever you planned.

Feel free to contact me anytime :) !!

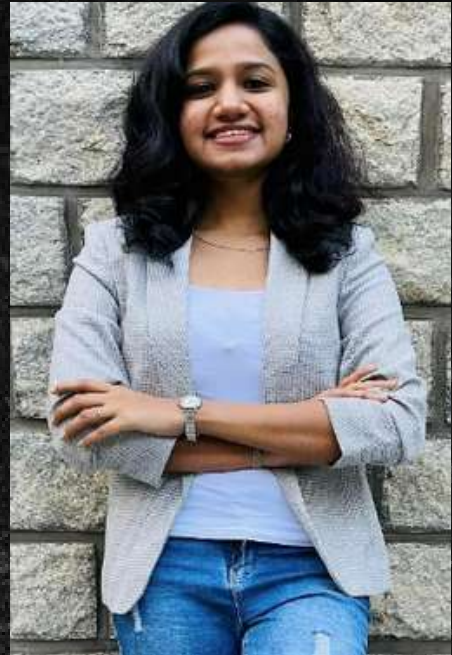


Dedication sees dreams  
come true.

- Kobe Bryant

# ALUMNI SPEAKS

I graduated from SSN with my cohort in 2018 after which I was working for The DOW Chemical Company as an electrical engineer for three years. Having been in the driver's seat for several engineering projects and having interacted with key stakeholders, I have realized technical skills alone cannot build a product/service if not for a sound business intuition. With my engineering experience, a degree in management would be the stepping stone to upskill myself with the business acumen that gives technology its direction. I went on to pursue my MBA from the prestigious Indian Institute of Management in Bangalore. I've grown up listening to people telling me that life is perfect with IIM tag but no one really told me what happens inside. This question made me take a step back and ponder about it. And I've come to realise that MBA teaches you way more than the glorified job with a heavy pay cheque. Here are my five most important takeaways.



**Power of prioritizing:** There are several opportunities all around you. You have the option of participating in running events, athletic competitions, working on your start-up, doing live projects, or following your passion in lieu of concentrating only on your studies, earning a high GPA, and graduating with a medal. The ability to coordinate everything is superhuman power. And in the chance that you take way more than you can chew, chaos is the word. MBA teaches you to make sensible, manageable decisions.

**People & Networks:** You begin to meet some fantastic people on campus once the initial newbie excitement fades away. You start to question whether you've been living in a cocoon all these years after hearing the stories of these folks. There is always an amazing person nearby who will motivate you or inspire you. These programs also bring together a diverse group of students from various countries, host events and guest lectures from industry leaders. This provides you with valuable networking opportunities that can help you make connections and build relationships for your career.



**Branding:** You learn the importance of Branding not just for businesses but for yourself. No one will come and spoon-feed you an opportunity to you. You will fight for it. And it is so important that you create a brand for yourself and ensure that you communicate that brand to people around you. Nobody is going to do that for you.

**Failures:** If you've been an overachiever throughout your life, life will slap you with hard hitting reality! You will realise that all along, you've been swimming in a pond but things aren't the same in the ocean and that brings a mammoth shift in your perspective. And it keeps you grounded. You will fail multiple times. Learn to get up and dust yourself off way more than you can imagine.

**Collaboration:** The program cultivates the importance of teamwork right from Day1. Students have to work on group projects, case studies, case competitions, organizing committees all as teams. There is no individual fame. This teaches you the importance of team effort and the dynamics of working in a group and sets the foundation for managing teams in large global organizations.

If you are aspiring to pursue an MBA, put in your 100% for the CAT exam. As competitive as the exam is, it prepares you for the life you want to lead in the future. The preparation itself teaches you time management, resilience, diligence and the art of doing smart work. And the course is a gift in itself. As convocation is nearing in April this year, I look back at the plethora of experiences that this degree has given me. Personally, this course has changed the way I approach any problem, has given me the confidence to face pressure, trained me to work under time-indense constraints, helped structure my thought process and has given me wonderful opportunities. After I graduate, I will go on to take up the role of a Brand Manager at P&G. This has been more than just a degree. This has been a transformation.

**Sajna Gokulakrishnan**  
EEE, Batch of 2018  
IIMB

Either Run the Day or the Day Runs You

– Jim Rohn

# Scholarship Report

S.No.	Name	Scheme Name
1	AARTHI R	7.5 Scholarship
2	VARALAKSHMI P	7.5 Scholarship
3	NANDAGOPAL G	7.5 Scholarship
4	SATHRAPATHY R	7.5 Scholarship
5	JANANIS SRI K G	7.5 Scholarship
6	SATHIYA L	7.5 Scholarship
7	ASWIN S	BC and MBC Scholarship
8	GANESH M	BC and MBC Scholarship
9	AJAY KUMAR R	BC and MBC Scholarship
10	KRISHNA VASAN R	Prime minister's scholarship scheme for central armed police forces and assam rifles
11	SEENU GANESH S	Post matric scholarship for students with disabilities
12	MOHAMED ISMAIL M	Merit-cum-means scholarship for professional and technical courses cs
13	RAMYALAKSHMI G	Pragati scholarship scheme for girls(degree) for technical education
14	SHRUTHIESHREYAA	Pragati scholarship scheme for girls(degree) for technical education
15	THIRUMALAI M	Central sector scheme of scholarships for college and university students
16	INIYA RAJASEKARAN	Pragati scholarship scheme for girls(degree) for technical education
17	KAMESH SRINIVASAN	Aicte – swanath scholarship scheme ( technical degree)
18	SANJAY M S	Central sector scheme of scholarships for college and university students
19	S SINDHU	Pragati scholarship scheme for girls(degree) for technical education
20	POOVIZHI A	Pudhumai Penn Scholarship Scheme
21	JAYASURIYA G	Pudhumai Penn Scholarship Scheme
22	MAGESHWARI N	Pudhumai Penn Scholarship Scheme
23	VADUHAMMAL V	Pudhumai Penn Scholarship Scheme
24	SUGANTHI S	Pudhumai Penn Scholarship Scheme
25	PERARASI S	Pudhumai Penn Scholarship Scheme
26	VARALAKSHMI P	Pudhumai Penn Scholarship Scheme
27	SATHIYA L	Pudhumai Penn Scholarship Scheme
28	ABINAYA A	Pudhumai Penn Scholarship Scheme
29	AARTHI	Pudhumai Penn Scholarship Scheme



# Placement Report

S.No.	Name	Company	Category	Role
1	Adhi Shankar N	Enquero - A Genpact Company	Super Dream	Software Engineer
2	Akash P	Everstage	Dream	Solution Specialist
3	Akshayapriya T	Citi Bank	Super Dream	Software Development Analyst
4	V N Amritha Rao	Wood PLC	Core	Graduate Engineer Trainee
5	Annapoorna V	Deloitte USI	Dream	Analyst - Data Application Studio
6	Ansheela Sahoo	Microchip Technology	Super Dream	WSG-Application Engineer
7	Arivazhagan J	Enquero - A Genpact Company	Super Dream	Software Engineer
8	Aswin kumar J	Mastech InfoTrellis India Pvt Ltd.	Dream	Associate
9	Ayswarya B	Shell	Dream	Process data engineer
10	Ayush V A	Cognizant	Regular	Programmer Analyst Trainee
11	Balaji S	Mastech InfoTrellis India Pvt Ltd.	Dream	Associate
12	Barath V	Microchip Technology	Super Dream	Engineer I - Corporate Applications
13	Bharath Vishal R	Microchip Technology	Super Dream	Engineer I - Software
14	Bhargav bussa	Everstage	Dream	Solution specialist
15	Bineshkumar B	Comcast	Core	Development Engineer-I
16	Brindha G	Hyundai Motors India Ltd	Core	Graduate Engineer Trainee
17	Dhinesh S	Comcast	Core	Development Engineer-I
18	Dhivya Shri A	Optum	Super Dream	Full Stack Engineer
19	Dinesh P	Daimler India Commercial Vehicles Ltd.	Core	Graduate Engineer Trainee
20	Ganesh M	Wood PLC	Core	Graduate Engineer Trainee
21	Gokul Raghavan AR	Cognizant	Regular	Genc-Elevate
22	Gunasekaran Pandiyan	Mastech InfoTrellis India Pvt Ltd.	Dream	Associate.
23	Hari P R	MBit Wireless	Dream	Development Engineer-1
24	Hariharasudhan KK	MRF Tyres	Core	Electrical Engineer - Maintenance
25	Harish N	Citi Bank	Super Dream	Software Development Analyst
26	Harish Shankar J	MBit Wireless	Dream	Associate Engineer
27	Harshini J	Natwest	Super Dream	SDE
28	Hema Nandini R	Daimler India Commercial Vehicles Ltd.	Core	Graduate Engineer Trainee

29	S.Infantselva	Comcast	Core	Development Engineer-I
30	Iniyavan B	Tekion	Dream	Quality Analyst
31	Jaya abhinaya G	Wood PLC	Core	Graduate Engineer Trainee
32	Jayasurya G	Comcast	Core	Development Engineer-I
33	JAYSURYA RA	Renault Nissan Technology and Business Centre India	Core	Graduate Engineer Trainee
34	Jazlyn C	Comcast	Core	Development Engineer-I
35	Jerry Rinaldo	Optum	Super Dream	Full Stack Engineer
36	Kaviya Malar AD	Tekion	Super Dream	Associate software engineer
37	Keerthana S	Deloitte USI	Dream	Deloitte application studios-Analyst
38	Madhangir G	Comcast	Core	Development Engineer-I
39	Manish K S	TCS	Regular	Associate engineer
40	Manoj Balaji S	Comcast	Core	Development Engineer-I
41	Marutham Rathna Valli M	Optum	Super Dream	Full Stack Engineer
42	R. Mirdula	Optum	Super Dream	Full Stack Engineer
43	Mirudini Vijayakumar	Citi Bank	Super Dream	Software Development Analyst
44	Mohamed Ismail M	Innova Solutions	Regular	Software developer
45	T U Nehadhrwa	Eurofins IT solutions	Super Dream	Associate Software Engineer
46	Nishal Varshan G K	Innova Solutions	Regular	SDE
47	Nishath Afroza A J	Eurofins IT solutions	Super Dream	Associate Software Engineer
48	Pooja S	Optum	Super Dream	Full Stack Engineer
49	Pradeep Kumar M	Citi Bank	Super Dream	SDE
50	Praveena V K	Optum	Super Dream	Full Stack Engineer
51	Praveen Kumar S	Microchip Technology	Super Dream	Engineer-1
52	Priyadharshini S S	Comcast	Core	Development Engineer-I
53	Radha Bai C P	Optum	Super Dream	Full Stack Engineer
54	Rahul H	Microchip Technology	Super Dream	Engineer 1
55	Rajadurai S	MBit Wireless	Dream	Development Engineer-1
56	RAJESHWARI R	Comcast	Core	Development Engineer-I
57	S Rohit Kumar	Comcast	Core	Development Engineer-I
58	Roshan Darran R	Comcast	Core	Development Engineer-I
59	Sai Akash A S	Mastech InfoTrellis India Pvt Ltd.	Dream	Associate
60	Sam Alan Antony M	Comcast	Core	Development Engineer-I
61	M.Sanjana	Citi Bank	Super Dream	Software Development Analyst
62	Saranganth K	Comcast	Core	Development Engineer-I
63	Sarayyu M K	Technip Energies	Core	Graduate Engineer Trainee



64	Sathyapriyaa R	Optum	Super Dream	Full Stack Engineer
65	Shree Vishnu P	Comcast	Core	Development Engineer-I
66	Sriganesh R	TransUnion	Dream	Analyst
67	Sriharini K	Optum	Super Dream	Full Stack Engineer
68	Srikanth	Natwest	Super Dream	Software Engineer
69	Sukumari Madhavan	Technip Energies	Core	Graduate Engineer Trainee
70	Suresh Kumar J	McDermott	Core	Associate Electrical Engineer
71	Tahoor Ahmad and	Amadeus Software Labs	Super Dream	Software Engineer (Development)
72	Pa Valsshnavi	Mastech InfoTrellis India Pvt Ltd.	Dream	Associate
73	Vaitheesvaran B	Microchip Technology	Super Dream	Engineer 1
74	Vallaba Gurunath M	Comcast	Core	Development Engineer-I
75	Varshini M	Citi Bank	Super Dream	Software Development Analyst
76	M Veeravaagu	TCS	Regular	Assistant System Engineer-Trainee
77	Vishnu	Comcast	Core	Development Engineer-I

The height of your accomplishments will  
equal the depth of your convictions.

- William F. Scolavino

# GATE

The **Graduate Aptitude Test in Engineering (GATE)** is an examination conducted in India that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science for admission into the Masters Program and Job in Public Sector Companies.

**Exam eligibility:** Any candidate who has already completed any government approved degree program in Engineering / Technology / Architecture / Science / Commerce / Arts is eligible for appearing in the GATE 2023 exam. There is no attempt limit.

The examination is of 3 hours duration, and contains a total of 65 questions worth a maximum of 100 marks. The examination for all the papers is carried out in an online Computer Based Test (CBT) mode where the candidates are shown the questions in a random sequence on a computer screen. The questions consist of some Multiple Choice Questions or MCQs (four answer options out of which only ONE is correct, which has to be chosen). Remaining questions may be of Multiple Select Questions or MSQs (four answer options out of which ONE or MORE than ONE is/are correct, hence correct options need to be chosen) and/or Numerical Answer Type questions or NATs (answer is a real number, to be entered via an on-screen keypad and computer mouse).

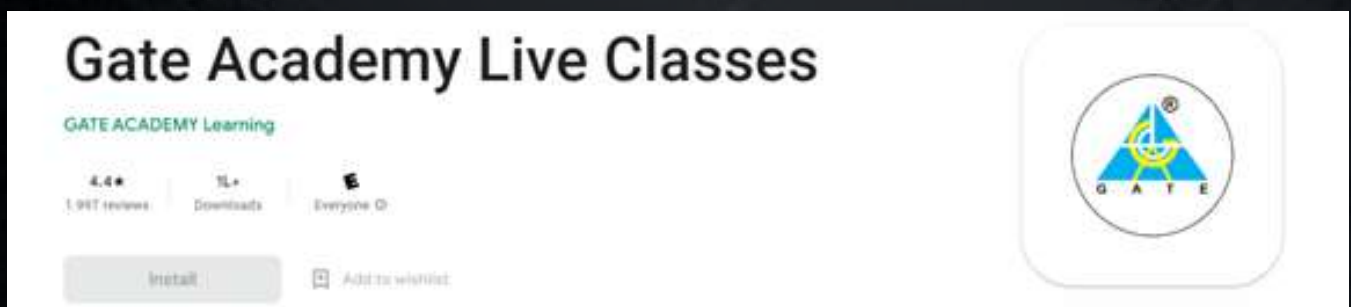


## SYLLABUS:

- **Verbal Ability:** English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.
- **Numerical Ability:** Numerical computation, numerical estimation, numerical reasoning and data interpretation.
- Engineering Mathematics
- Technical Ability

## Resources for GATE Preparation:

### APP:



### WEBSITES:

Khan Academy produces micro lectures in the form of YouTube videos. In addition to micro lectures, the organization's website features practice exercises and tools for educators. All resources are available for free to anyone around the world. This website is among the very few websites which facilitates the download feature for their users.

Website link: <https://www.khanacademy.org>.

YouTube channel link:

<https://www.youtube.com/user/khanacademy>

## **Prep tips for GRE:**

- Take mock test to evaluate your preparation and to concentrate on your not so strong topics.
- For the aptitude section focus mainly on the questions asked on past years question paper. Only about 2-3 questions are asked that were not repeated in the previous year papers
- Focus mainly on these topics for scoring above 30 marks out of 70 in the technical section:
  - 1) Circuit Theory
  - 2) Control System
  - 3) Electrical Machine
  - 4) Power System
  - 5) Power Electronics
  - 6) Signals and Systems
  - 7) Digital and Analog systems
  - 8) Measurement and Instrumentation
  - 9) Electromagnetic Theory
- Attend a minimum of 5 Mock test series so that you are familiar with the model of Examination and can solve optimal number of questions in the given time limit correctly.

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



# CROSSWORD



Scan Me for Answers



# CROSSWORD



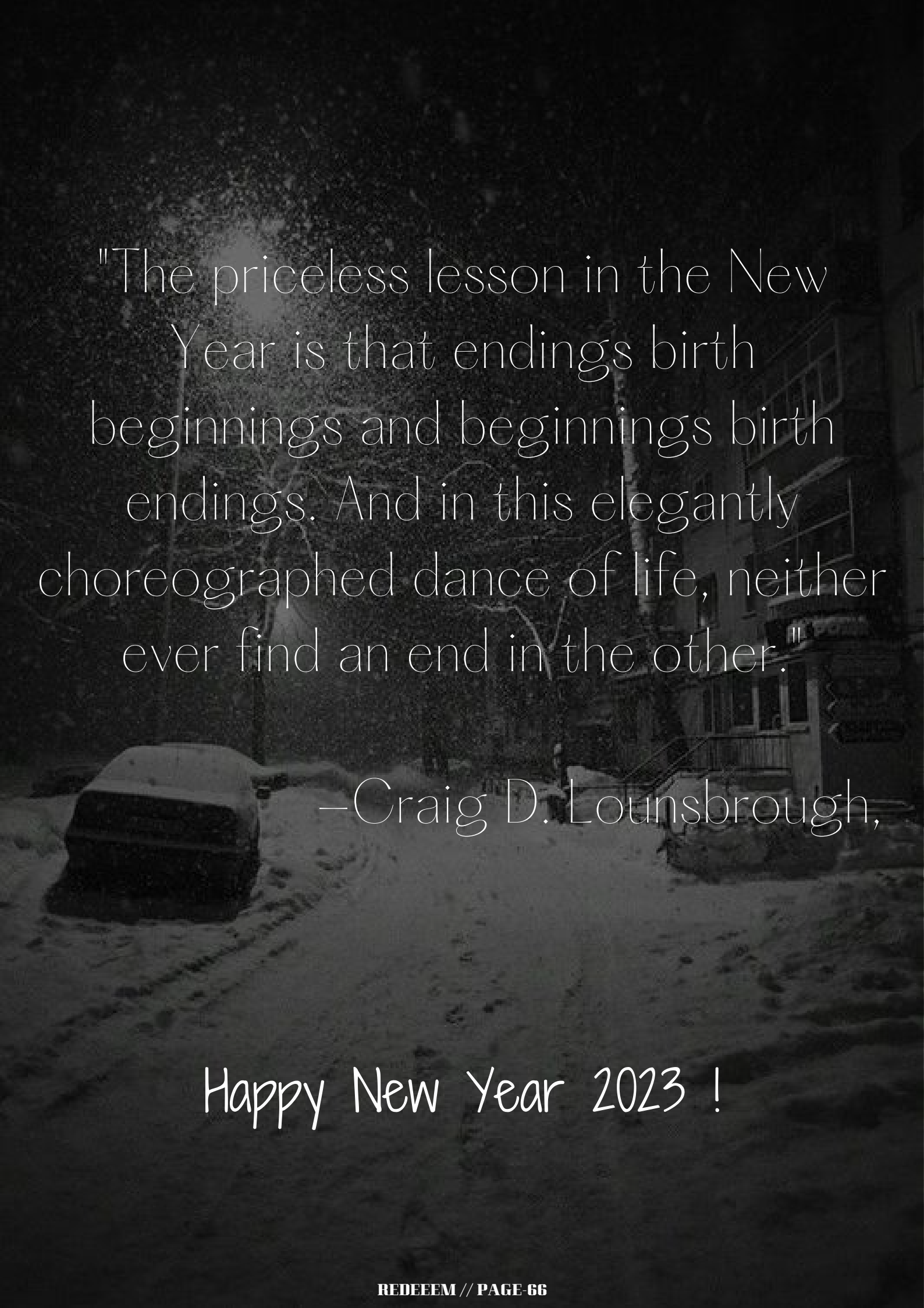
## ACROSS

4. A characteristic of a secondary cell
7. Current is considered to be the movement of \_\_\_\_\_.
9. A voltage source that converts chemical energy to electrical energy
10. The part of an atom that has no electric charge

## DOWN

1. A device that opens or completes an electrical path
2. The term used to designate electrical pressure
3. One coulomb passing a point in one second
5. A resistive component that is designed to be temperature sensitive
6. A voltmeter is used in \_\_\_\_\_ with the circuit.
8. It is used to measure current.





"The priceless lesson in the New Year is that endings birth beginnings and beginnings birth endings. And in this elegantly choreographed dance of life, neither ever find an end in the other."

—Craig D. Lounsborough,

Happy New Year 2023 !