REDEEM

VOLUME 11 ISSUE 1

JULY 2022

An Eventful, Electric Extravaganza awaits...

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The Crew!

FACULTY CHIEF EDITOR
DR. R. LEO

"You're never too small
to make a difference"

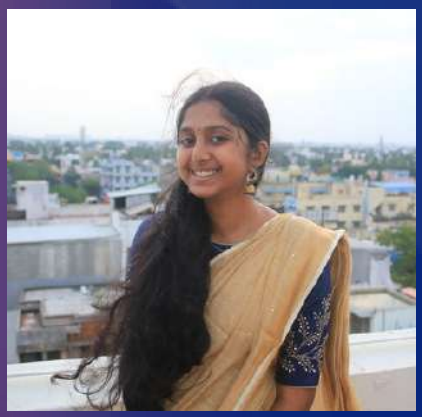
STUDENT EDITORIAL TEAM

CHIEF EDITOR
HARSHVARDHINI M

"The pen is in your hands,
the rest is still unwritten"

CONTENT HEAD
PRANAV A

"Its fun to do the impossible"



DESIGN HEAD
ABHINAYA R

"Colors are the smiles of nature"

The Crew!

STUDENT REPRESENTATIVES

III - A

DINESH P

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SARAYYU MK

TEJASWINI V

II - A

PRANAV A

DEEIKSHANYAA S

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SUNEETH D

SRI RANJINI

HIMASAI THUPAKULA

From Our HOD
Dr. V. Rajini

It gives me immense pleasure to write the foreword to our department's newsletter **'REDEEEM'**. This edition covers the various events from April 2022 to June 2022, with interesting line up of faculty and student achievements, contributions, events conducted, MOUs, industrial visits , efforts for collaborative research, visit by eminent professors abroad, student placement updates and student articles. Hearty congratulations to Dr.R. Seyezhai and Dr.R. Umarani, who have successfully started a start up company ' Shrimitha energy Solutions private Ltd'. My hearty congratulations to Dr.V.Thiagarajan for having received the best YRC officer award and YRC volunteer students for the appreciation received from the district collector of Chengalpattu, Mr. P. Ragulnath IAS. My best wishes for all the students for the semester examinations and hearty congratulations to all the students who got placed in various companies.

Editorial

Individual life appears to consist of series of games with different goals and challenges, that change with time as person matures. We must invest energy in developing whatever skills we are born with, in becoming autonomous, self-reliant, consciousness of our uniqueness and of its limitations. We must also Invest in recognizing, understanding, and finding ways to adapt to the forces beyond the boundaries of our own individuality. In threatening situation, it is natural to mobilize psychic energy, draw it in words and use it as a defence against the threat. But this sometimes exacerbates the experience of inner turmoil, reduces the flexibility of response, and isolates a person from rest of the world, leaving him alone with his frustration.

The experience in early stage of one's life has huge influences in ones later life. Almost every situation we encounter in life presents the possibilities of growth. Most of us become so rigidly fixed in the ruts carved out by genetic programming and social conditioning that we ignore the option of choosing any other course of action.

Living with genetic and social instructions is fine as long as everything goes well, But the moment biological or social goals are frustrated – which in long run is inevitable, a person must have capacity to formulate new goals and create new flow of activity for himself or he will waste his energies in inner turmoil. Animals other than man are not in position to be the cause of their own suffering.

The difference between someone who enjoys life and someone who is overwhelmed by it is a product of a combination of the external factors and the way a person has come to interpret the challenges as threats or opportunities.

One has to strife hard to make life into coherent flow of experiences as there were many invaders of the mind, which are the by-products of tremendous increase in complexity of the cerebral cortex and the symbolic enrichment and evolution of the culture over the period.

The enjoyment in learning starts to disappear as we grow and when earning becomes priority, learning becomes external impositions. After this deprivation, the professional work demands creativeness without bothering the root, so people feel uncomfortable and stressed. People often find less time for their passionate work than for other kind of work which leads to ineffectiveness. Professional assistance in bringing back the root to enjoy learning may help in the long run rather than rigid conditioning which leads to find shortcuts to manage. When we lack raw intelligence, then the natural way is to manage by some means which leads to exploitation of the system. If we no longer derive enjoyment from work with disciplined focus and effort, the pleasure becomes the only source of positive experience. Unless we change our method of study and adapt ourselves to current trends, we become obsolete irrespective of our past achievements.

As long as we obey the socially conditioned stimulus response patterns that exploits our genetical inclination, we are controlled from outside. Somehow the pressured environment will create inherent discomfort which makes people not able to enjoy their work and life We should become independent from dictates of the body and learn to take charge of what happens in mind as we grow. The self, system and society develop sense of false belief on intelligence because of their poor

understanding and people have wrong assumption over it till the day comes to demonstrate it in public. Some live in the sense of wrong belief till they become incorrigible. Experience in life gives you comb after you become bald.

"LIFE IS A SUCCESSION OF LESSONS WHICH MUST BE LIVED TO BE UNDERSTOOD."
— RALPH WALDO EMERSON

From Us To You

A heart striking welcome and greetings, as you find yourself into the Redeeem vol 11's very first edition! A mixed panorama of thrills and excitement kick in as we write this note for you! This edition is predominantly about you and each and every one of us here! its molded and crafted while bearing in mind that this magazine should give each of us our own unique validative insight and enlightenment just like the pages here resonate! Through this edition, we focus on celebrating the individualistic identity of every single reader! And to those in search of the same, there are several sections that'll show you the mirror to pursuit of your identity!

Ever noticed the Flowers? The sunflowers are the best when they bloom under the sun, not as bunches in decor! The roses are what we believe the flagbearers of love and light in today's world, flowers of peace yet thorny while with their stalk! The Jasmine flower's scent smells like haven, but as tiny little flower buds they go unnoticed and invisible! Tulips, the wonder flowers, they signify elegance but we occasionally use them, that too in red or white or yellow, but just how many shades of them do we know? The shades of a tulip alone can make a rainbow, so many sides to this swirl, one we never knew!

All of these flowers, different colors, different appearance, different fragrance and different uses, yet they all are admired for their beauty, grace and individualistic charm and need! Though all these characteristics differ from one flower to another, we see them in their own best n veritable nature. Human Kind is no different, we all speak, behave, act and react differently and this difference is what we term as a person's uniqueness, a quality that defines who we are and what we are to contribute to this world!

With our first issue for the academic year 2022-2023, we would like to present to ya'll this one tall standing notion of appreciating, celebrating and most importantly embracing your individuality, for in the long run my friends, it's this profound nature of yours that'll come along through each turn and tend! Every section will introduce you to our department's glorious achievements, our incredibly talented faculties and their notable accomplishments and the commendable artistic works and writings by our fellow students! Dive in to experience, rejoice and celebrate distinctiveness, for it'll be one roller-coaster ride of authentic honoring!

A work very close to our hearts is now all yours!

Together let's make Redeeem vol-11 a splendid and stirring success! Onwards and upwards!!

With Love,
The Student Editorial Team

"DON'T LET A DAY GO BY WITHOUT ASKING WHO YOU ARE ,
EACH TIME YOU LET A NEW INGREDIENT TO ENTER YOUR AWARENESS."

DEEPAK CHOPRA

Faculty Activity

MONTHLY UPDATES

EXTERNAL RECOGNITION

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

- Dr.R.Ramaprabha delivered a Keynote Speech titled "Design Thinking of Building Integrated Concentrating Solar Photovoltaic System" on 22/04/2022 organized by Department of EEE, Karpagam Institute of Technology, Coimbatore under IIC chapter.

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

RESEARCH ACTIVITY

(National / International journal papers published)

- V. Rajini, V.S. Nagarajan, "Comparative analysis of Synchronous Reluctance Motor with different Permanent Magnet materials" in International Journal Materials Today: Proceedings April 2022, Volume MATPR_31369 indexed in Scopus

- R.Seyezhai & N.Hemalatha, “Implementation of fuzzy MPPT controller for PV based three phase modifed capacitor assisted extended boost q ZSI" in International Journal Applied Nanoscience, Springer, 2022, April, ISSN 2190-5517

- T. Divya, FT-RS/EEE and R. Ramaprabha, ASSP/EEE, "Cascaded Multi-level Embedded type Switched Boost Inverter" in International Journal IEEJ Transactions on Electrical and Electronic Engineering April 2022, Volume 17, pp 539-543, ISSN 1931-4973 / 1931-4981, DOI https://onlinelibrary.wiley.com/doi/10.1002/tee.23540, Impact factor 0.752 indexed in WOS/TR/SD

- V. Thiyagarajan, "Electrical and Mechanical Characteristics Assessment of Wind Turbine System Employing Acoustic Sensors and Matrix Converter" in International Journal Sustainability April 2022, Volume 14, pp 44585, ISSN 2071-1050, DOI https://doi.org/10.3390/su14084404, Impact factor 3.251 indexed in WOS/TR/SD

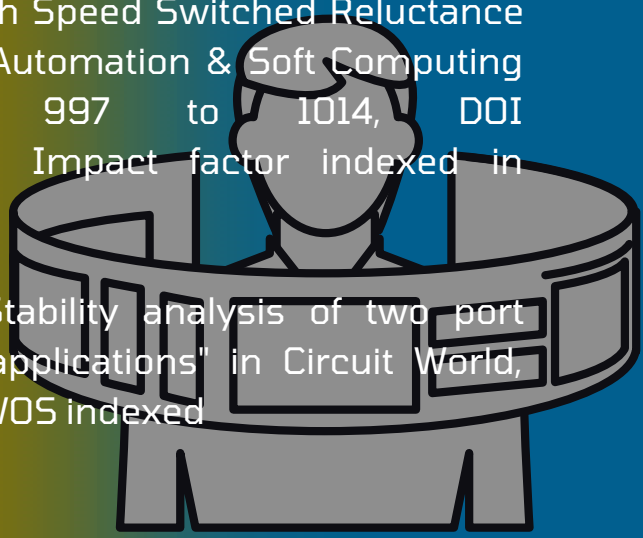
- V. Thiyagarajan, "A Novel Optimization Algorithm for Modifying the Parameter Unit of Solar PV Cell" in International Journal International Journal of Photoenergy April 2022, Volume 22, pp 44571, ISSN 1687-529X, DOI https://doi.org/10.1155/2022/5240115, Impact factor 2.113 indexed in WOS/TR/SD

- R.Seyezhai & R.Sasikala, "Efficient Supply Current Control Strategies for Bridgeless Interleaved AC-DC Converter" in International Journal of Computer Systems Science and Engineering,Vol.43, No.1, 2022, pp.175-191. DOI:10.32604/csse.2022. 022386, WOS Indexed, IF:1.486, May 2022, Volume 43

- R.Seyezhai & S.Devi, "Comparative analysis of Si, SiC and GaN based quasi impedance source inverter" in International Journal Materials Today Proceedings, Elseveir, June 2022, Volume 62, pp 787.

- R. S. Preethishri , J. Anitha Roseline, K. Murugesan and M. Senthil Kumaran, "Optimized Power Factor Correction for High Speed Switched Reluctance Motor" in International Journal Intelligent Automation & Soft Computing June 2022, Volume 35, pp 997 to 1014, DOI https://doi.org/10.32604/iasc.2023.025510, Impact factor indexed in WOS/TR/SD

- V., Rajini. and Amutha W., M. (2022), "Stability analysis of two port renewable energy interface for telecom applications" in Circuit World, https://doi.org/10.1108/CW-12-2021-0303 WOS indexed



CONFERENCE ACTIVITY

(National / International conferences presented)

- R.Seyezhai and P.Lakshmiprabha, "Design and implementation of Bridgeless AC-DC SEPIC PFC Converter with Valley-Fill" in Fourth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2022) conducted by Akshaya College of Engineering; Technology, Coimbatore, and Diligentec Solutions, Coimbatore during Ap.8-9,2022 in Online/India on 08/04/2022.

- Karthika M and Balaji M, "Design and Optimization of 8/6 Switched Reluctance Motor for Electric Vehicle" in International Virtual Conference on Intelligent Robotics, Mechatronics and Automation System (IRMAS 2022) conducted by VIT Chennai in India on 23/04/2022

- Dr. V. Thiyagarajan, ASSP/EEE, "A Comprehensive Review on Energy Storage Systems" in International Ankara Congress on Scientific Research VI conducted by IKSAD Institute in Turkey on 03/04/2022

- Dr. V. Thiyagarajan, ASSP/EEE, Dr. V. Kamaraj, Prof/EEE, "Speed Control of Three Phase Induction Motor Using PLC" in International Scientific Research Conference conducted by Baku Euroasian University, Baku in Azerbaijan on 28/04/2022

- G.R.Venkatakrishnan, R. Rengaraj, M. Rajalakshmi and Dinesh, "Enhanced Differential Evolution Algorithm For Power System Problem Incorporating Renewable Sources" in International Conference on Internet of Things (ICIoT) conducted by SRM Institute of Science and Technology in Chennai on 05/04/2022 Hithu Anand, R. Rengaraj.

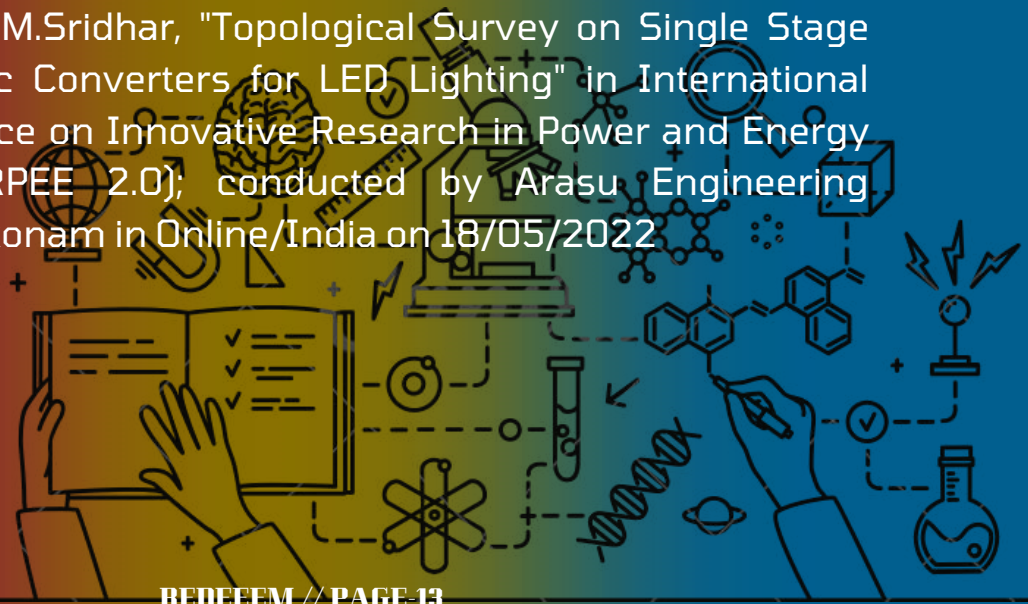
- G.R.Venkatakrishnan, "Energy Bill Minimisation of Dynamic Tariff Bound Residential Consumers by Intentional Load Shifting" in International Conference on Internet of Things (ICIoT) conducted by SRM Institute of Science and Technology in Chennai on 06/04/2022

- G.R.Venkatakrishnan, R. Rengaraj, R.Jeya and Sabari, "Real Time Dynamic Home Surveillance Using Raspberry Node" in International Conference on Internet of Things (ICIoT) conducted by SRM Institute of Science and Technology in Chennai on 06/04/2022

- S.Madhumitha, R.Sudiksha, Dr.R.Seyezhai, Dr.D.Umarani, Dr.R.Sujatha, "Prediction of Reliability for Photovoltaic Quasi Impedance source Inverter" in FIFTH NATIONAL CONFERENCE ON RELIABILITY AND SAFETY(NCRS 2022) conducted by Society for REliability and SAfety (SRESA), Chennai Chapter & Center of Excellence on Safety CriticalmSystems, IIT Madras in association with Indian Institute of Risk and Reliability (IIRR); CSIR-SERC, Chennai; CFR, Chennai, Shiv Nadar University, Chennai in Virtual Mode on 03/11/2022

- R.Seyezhai and M.Saranya, "Simulation and assessment of Soft Switched Interleaved Boost DC - DC Converter" in nternational Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering College, Kumbakonam in Online/India on 18/05/2022

- R.Seyezhai and M.Sridhar, "Topological Survey on Single Stage Power Electronic Converters for LED Lighting" in International Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering College, Kumbakonam in Online/India on 18/05/2022



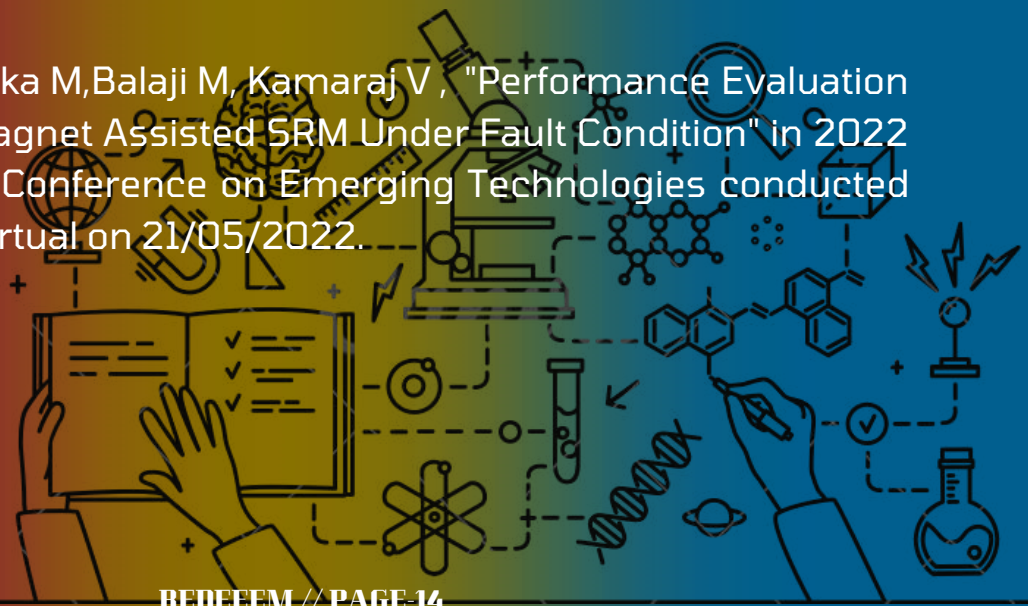
- S.Devi, Dr. R. Seyezhai, R. Nithyashree, UG Student (Passed Out), Rooba shree. K, UG Student (Passed Out), S. Amirdavarshini, UG Student (Passed Out), Selvi. J, UG Student (Passed Out), "Simulation and Realisation of Double Z Network Based VSI for PV Systems" in international Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering College, Kumbakonam in Online/India on 18/05/2022 .

- Lakshmi Praba. B and R. Seyezhai, "Investigation of DC - DC Sepic Valley- Fill Converter Integrated with PV for LED Applications" in international Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering College, Kumbakonam in Online/India on 18/05/2022.

- Sudiksha, Rajalakshmi and R. Seyezhai, "Simulation and Analysis of Landsmann DC - DC Converter for PV Applications" in international Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering College, Kumbakonam in Online/India on 18/05/2022.

- R.Seyezhai, N.B.Muthuselvan and J.Bhuvana, "A Study and Review of Classical, Machine Learning and Deep Learning Methods of Software Reliability Estimation for Safety-Critical Systems" in 8th International Conference on Latest Trends in Science, Engineering and Technology held on May 20 & 21, 2022 conducted by Karpagam Institute of Technology, Coimbatore in Online/India on 20/05/2022.

- Saranya S,Karthika M,Balaji M, Kamaraj V , "Performance Evaluation of Permanent Magnet Assisted SRM Under Fault Condition" in 2022 IEEE IAS Global Conference on Emerging Technologies conducted by IEEE IAS in Virtual on 21/05/2022.

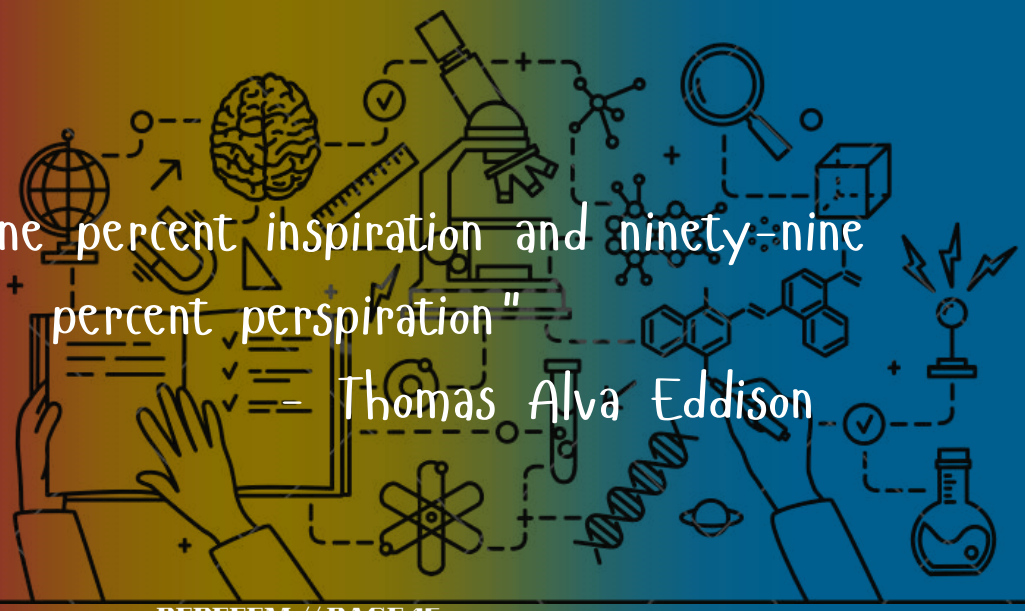


- U. Shajith Ali, "Quasi Z-source DC-DC Converter with Supercapacitor for Photovoltaic Application" in 3rd International conference of Emerging Technologies, conducted by Jain College of Engineering, Belgaum, Karnataka in Jain College of Engineering, Belgaum, Karnataka on 28/05/2022

- Dr. V. Thiyagarajan, ASSP/EEE, "Low Switching Frequency Modulation Technique for 7-Level Symmetric Inverter" in International Conference on Innovative Research in Power and Energy Engineering 2.0 (IRPEE 2.0) conducted by Arasu Engineering College in Kumbakonam on 18/05/2022

- R. Tamizhselvan, Research Scholar Dr. V. Thiyagarajan, ASSP/EEE, "Study and Analysis of Multilevel Inverter Topologies with Reduced Switch Count and Losses" in International Conference on Innovative Research in Power and Energy Engineering 2.0 (IRPEE 2.0) conducted by Arasu Engineering College in Kumbakonam on 18/05/2022

- Vigneshwar S T and Balaji M, "Design and analysis of Belt Driven BLDC motor with IPM for electric scooter application" in International Conference on Electrical Engineering and Multidisciplinary Research conducted by Chennai Institute of Technology in India on 23/06/2022



"Genius is one percent inspiration and ninety-nine percent perspiration"

– Thomas Alva Eddison

- Dr. V. Thiyagarajan, ASSP/EEE, "Modified Asymmetrical Multilevel Inverter Topology with Reduced Circuit Components" in International conference on Latest Trends in Science, Engineering and Technology 2022 conducted by Karpagam Institute of Technology in Coimbatore on 21/05/2022

- B.S.Devika, Gengadevi V, D.Umarani, "High Gain and High Frequency Photovoltaic Power Converters" in International Virtual Conference on Innovative Research in Power and Energy Engineering (IRPEE 2.0); conducted by Arasu Engineering COllege in Virtual Mode on 18/05/2022

- R. Jeya, G.R. Venkatakrishnan, "Placing controller using latency metrics in a smart grid" in international research conference on IoT, Cloud and Data Science conducted by SRM Institute of Science and Technology, Vadapalani in Chennai on 07/05/2022

- V.Rajini, Lavanya (scientist NIWE), Hari Krishna Achuthan , Madhusudan S, Adhitya R, "Comparative analysis of Phasor estimation techniques for PMU applications" in ICECST, conducted by IOP science on 03/06/2022.

- Siddharthan A, Saiprasath R, Pavan Kumar Reddy N, Parithi R, Balaji M "Bluetooth Low Energy and Cloud based Building Automation System" in Third International Conference on Materials, Computing and Communication Technologies conducted by Annai Vailankanni College of Engineering, in Virtual on 20/06/2022

- Dhivyadharshini S, Harini C, Mythili M, Nithishri B, Balaji M, "Design of DC-DC Converter for Hybrid Energy Storage Systems" in Third International Conference on Materials, Computing and Communication Technologies conducted by Annai Vailankanni College of Engineering, in Virtual on 20/06/2022

- Reshmika Janani M, Sowmya G, Srividhya S, Vishwa Raj V, Balaji M, "Design of DC-DC Boost Converter for Solar Powered Electric Vehicle" in Third International Conference on Materials, Computing and Communication Technologies conducted by Annai Vailankanni College of Engineering, in Virtual on 20/06/2022

National Conference

- Mr Rajeev Shevgaonkar, North Star Electricals Pvt. Ltd.Indore, India Dr Mrunal Deshpande, "A Brief Review of Recent Technological Trends In Distribution Transformers" in TRAFOTECH DT, National Conference on Distribution Transformers, Usage, Regulation and Innovation conducted by IEEMA in Delhi on 06/05/2022

PROJECT NEWS

(List project applied as well as project sanctioned)

- Dr.R.Seyezhai & Dr. D.Umarani received external funding for the project titled “Eco-Friendly Solar Photovoltaic Pole for Multi-utility" on 01/04/2022 from the funding agency AU-NLCIL Innovation Hub for Energy, Environment & Sustainability – ‘ANIHEES for a duration of 2 years.

- Dr. V. Kamaraj, Dr. R. Ramaprabha and Dr. M. Balaji (Faculty coordinators) applied for a proposal for AICTE-INAE Distinguished Professorship Scheme on 11.04.2022 to the funding agency AICTE for a duration of 1 Year for a funding amount of Renumeration for the Speaker. The applicant for the external expert is Shri. S. Madivaanan, Scientist ‘G’, Additional Director (Ret), CVRDE/DRDO, Avadi.

- Dr. R. Ramaprabha as PI and Dr. M. Balaji as Co-PI applied for a External funded project titled "Implementation of IoT based EV Charging Station using PV-Wind System" on 12/04/2022 to the funding agency AICTE for a duration of 3 Years for a funding amount of 50.09 lakhs Rupees

- Dr.N.B Muthuselvan Submitted Project Proposal titled,"Failure Mode Analysis and Reliability estimation of drive Motor in EV" under Core Research Grant

- Dr. Dhanalakshmi M, Dr. Jansi SellaVeluswami, Dr. Anbuselvi M, Dr. Vijayalakshmi P, Dr. Vijayan sundaravel, Dr. Senthil Kumaran M, Dr. Ramakrishnan R, Dr. Rajinikumar Palaniyappan. applied for an External funded project titled "Smart agents for geriatric functional empowerment and dignified sustenance" on 10/05/2022 to the funding agency SERB - SUPRA for a duration of 3 years for a funding amount of 79,50,954 Rupees

INTERNALLY FUNDED PROJECTS FACULTY INFO

Letter of sanction for IFP by Dr.V.Rajini, Dr.Vijaysekar and Dr. Devesh Raj for Rs 7 lakhs on "Design and development of an efficient electric trike power train for Indian automotive sector" was given on April 1,2022.

Dr.Vijaysekar

Dr.V.Rajini

Dr. Devesh Raj

IFSP 48 projects got sanctioned and president handed over the sanction letters worth 8,65, 000 on May 25,2022.

PATENT INFO

(Patent filed, query answered etc)

- P. Saravanan Associate Professor/EEE/SSNCE, Mr. L. Ananda Padmanaban SRF/ SERB Project applied for a National patent for Design titled "Design and Development of Axial Flux Switched Reluctance Motor for EV applications" on 12/04/2022

- M. Aishwarya, N. Divyasri, S. J. Indhra Pooja (2020 Passed out UG students) Dr. R. Ramaprabha Dr. M. Balaji (Asso. Profs/EE) & Dr. V. Kamaraj (Prof./EEE) received a FER report for a National patent for Idea titled "A Solar Powered Compact Dustbin Assembly" on 22/04/2022

"OWNING YOUR STORY IS THE BRAVEST THING YOU'LL EVER DO"
- BRENE BROWN

FDP/WS/WEBINAR ATTENDED

(List events attended by faculty, excluding conferences)

- Dr.R.Leo attended 2 Day Faculty Development Program titled "INDUSTRY 4.0" on 02/04/2022 organized by IEEE Madras Section at chennai

- Dr.V.Thiyagarajan attended 2 Day Faculty Development Program titled "Industry 4.0" on 02/04/2022 organized by IEEE India Council at Online

- Dr.V.Thiyagarajan attended 1 Day Faculty Development Program titled "National Intellectual Property Awareness Mission" on 11/04/2022 organized by SSN College of Engineering & Intellectual Property Office, India at Kalavakkam

- Dr.R.Leo attended 5 Day Faculty Development Program titled "Multi Agent and Microgrid Concept" on 06/06/2022 organized by GIAN and Malavia National Institute of Technology at Jaipur

- Dr.V.Rajini attended 2 Day Workshop titled "Workshop on SSN-SNUC-HCL Partnership" on 11/04/2022 organized by SSN-SNUC-HCL P at SNUC and presented the research on "Smart Grid technologies"

- Dr.P.Saravanan attended 2 Day Workshop titled "TechKnow-2022" on 23/04/2022 organized by Anna University at CEG Guindy

- Dr.N.B. Muthuselvan attended 1 Day Webinar titled "POWER CONVERTERS AND DRIVES FOR ELECTRICAL VEHICLES" on 04/04/2022 organized by Institution of Engineers, India at Kolkatta

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

- Dr.N.B. Muthuselvan attended 1 Day Seminar titled "National Intellectual Property Awareness Mission (NIPAM)" on 11/04/2022 organized by Intellectual Property Office, India at Chennai

- Dr.N.B. Muthuselvan attended 1 Day Webinar titled "IP Rights for Green Energy Initiatives in StartUps" on 19/04/2022 organized by NIDHI PRAYASEE 2020, Department of Science & Technology, Govt of IndiaChair, IEEE IAS Student Branch Chapter, IIT Roorkee at Roorkee

- Dr.N.B. Muthuselvan attended 2 Day Webinar titled "Cyber Security Issues & Challenges in Smart Power Systems" on 20/04/2022 organized by National Power Training Institute (Southern Region) at Neyveli

- Dr. R. Seyezhai attended 1 Day Webinar titled "Awareness Programme on Intellectual Property Rights Under NIPAM" on 04/05/2022 organized by Vivekananda Institute of Technology, Bangalore at Online

"Exploration is curiosity put into action!"

– Dan Walsh

EVENTS CONDUCTED

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

- Dr.R.Seyezhai organized a Distinguished Lecture titled IEEE -PELS, Madras Chapter in association with EEE dept, SSNCE on "Single-Phase Inverter Control Techniques for Interfacing Renewable Energy Sources with Micro-Grid: Series Connected Inverter Topologies with Active and Reactive Power Flow Control along with Grid Current Shaping" at EEE, SSNCE on 22/04/2022

- Dr.R.Seyezhai & Dr.S.Sureshkumar organized a Webinar titled SSN-IIC & "National Intellectual Property Awareness Mission (NIPAM)" conducted an online IPR awareness/training program for the students at SSNCE at Online event on 11/04/2022

- V.Rajini and Dr. Tamilselvi organized a Workshop titled "Power system protection using smart relays (S4S)" on 09/04/2022

- Dr. R. Seyezhai, Dr. R. Ramaprabha & Dr. M. Balaji organized a Workshop - EEE & SSN- IIC titled "Process Design and Development (Using Microcontrollers)" at EEE Department on 12/04/2022

- Dr.K.Murugesan, ASP/SSNCE organized a Workshop titled "Tamizh Thiruvizha (தமிழ்த் திருவிழா) " at Main Auditorium on 12/04/2022

- Dr.R.Seyezhai & Dr.S.Sureshkumar organized a Workshop titled "Design Thinking based New Product Innovation" at Mini Auditorium on 04/05/2022.

Seminars Conducted,

- Dr.V.Rajini and Dr.V.S. Nagarajan organized a Invited Guest Lecture titled "Power Electronics for Renewable energy" at seminar hall EEE on 23/05/2022. The speaker was Dr. Jeyaraj Selvaraj, Deputy Director, centre for renewable energy, University of Malaya, Malaysia.

- Dr.R.Seyezhai & Dr.D.Umarani organized a Workshop titled SSN-IIC organized a workshop on, "Field Visit to Pre-incubation Unit" at SSNCE on 09/06/2022.

EVENTS ATTENDED

TECHKNOW 2022

Two Day Event organized by All India Manufacturers Organization (AIMO) on 22 nd and 23 rd April 2022

ABOUT THE EVENT:

All India Manufacturers Organization in association with Anna University and Consortium of Indian Associations, Consortium of Self-Financing Professional, Arts and Medical colleges conducted a 2-day Event Techknow 2022 during 22 nd and 23 rd April 2022 at Vivekananda Auditorium, Guindy. During the 2-day event, Speakers from various Institutions, Industry, Policy Makers participated and delivered lectures on growing technology, project areas, funding agencies and the opportunities present. The invited speakers detailed about the 7 growing sectors and created away for the students to focus on employment and employability. Faculty membersand students from various colleges and universities attended the event in offline mode and also more than 15,000 students attended the event in the online mode.

The Seminar wad inaugurated by Mr. Sunil Barthwal, IAS (Secretary, Ministry of Labour & Employment, Govt of India), Prof. Anil Sahasrabudhe (Chairman, AICTE, New Delhi), Mr. S Krishnan, IAS (Additional Chief Secretary Industries Department, Govt of Tamil Nadu) and Dr.D Karthikeyan, IAS (Principal Secretary, Higher Education Secretary, Govt of Tamil Nadu).

The final event was graced by Mr. M K Stalin, Chief Minister of Tamil Nadu, Dr. K Ponmudi, Minister for Higher Education and Mr. Thangam Thenarasu, Minister for Industries and 2000 job offers to the outperforming students.

Dr. M Pandikumar and Dr. P Saravanan from the Department of Electrical and Electronics Engineering Department attended the 2-day event along with following students of the EEE department - M Rahul Manikandan (II-year EEE), Shivani R S (II-year EEE), SWETHA. G (II-year EEE), Rahul J (II-year EEE), Amaan Meer (II-year EEE), S. Arjun (II-year EEE).

Dr. M Pandikumar and Dr. P Saravanan, Associate Professors, Department of EEE, SSNCE

BOS MEET

The PG BOS meeting was held on May 21, 2022.

MEMBERS OF BOARD OF STUDIES

Name of the Faculty	Designation	Category
Dr. C. Christopher Asir Rajan	Professor Pondicherry Technological University Puducherry	University Nominee
Dr. S. Senthil Kumar	Associate Professor Department of EEE National Institute of Technology, Trichy	Experts from Outside Parent University
Dr. Sreedevi	Professor School of Electrical Engineering VIT University, Chennai	Experts from Outside Parent University
Mr.J.Balakrishnan	Director Project Development Vestas, Chennai	Expert from Industry
Mr. S. Bharathkumar	Caterpillar	Meritorious Alumnus
Dr. V. Rajini	Professor & Head, Department of EEE SSNCE	Chairperson
All the faculties of Department of Electrical and Electronics Engineering		

INDUSTRY COLLABORATION

(List all interactions, visits, MoUs etc with industries)

- Dr.V.Rajini arranged for a visit to research labs at EEE by ashok leyland team for possible R & D collaboration and consultancy on 24-03-2022

- Dr.R.Seyezhai and Dr.S.Sureshkumar, ASSP/Mech submitted the quarter-1 and quarter-2 report of SSN-IIC4.0 in the IIC Portal on 13-03-2022

- Dr.R.Seyezhai and Dr.S.Sureshkumar, ASSP/Mech completed the pre-qualifier for ARIIA- 2022 ranking in the ARIIA Portal on 08-03-2022

- Dr. R.Seyezhai, and Dr.D.Umarani, demonstrated "the solar based trike using hybrid sources, Li-IOn battery charging unit and E-bicycle" in the 'Renewable Energy Conversion laboratory' to the team from Ashok Leyland and discussed about the reliability analysis of EV on 24-03- 2022

- Dr.R.Rengaraj, received an amount of Rs 32,951 against his ongoing consultancy work on "Performance Improvement of High Speed Extrusion and Rewinding Lines Wires and Cables" on 22-03-2022 for solution providing.

- M/s Comcast team had interactions with HODs. They also interacted with the students of EEE, ECE and CSE

- Dr.V.Rajini and Dr.R.Seyezhai, Prof/EEE presented the work on Electric vehicle to HCL Team

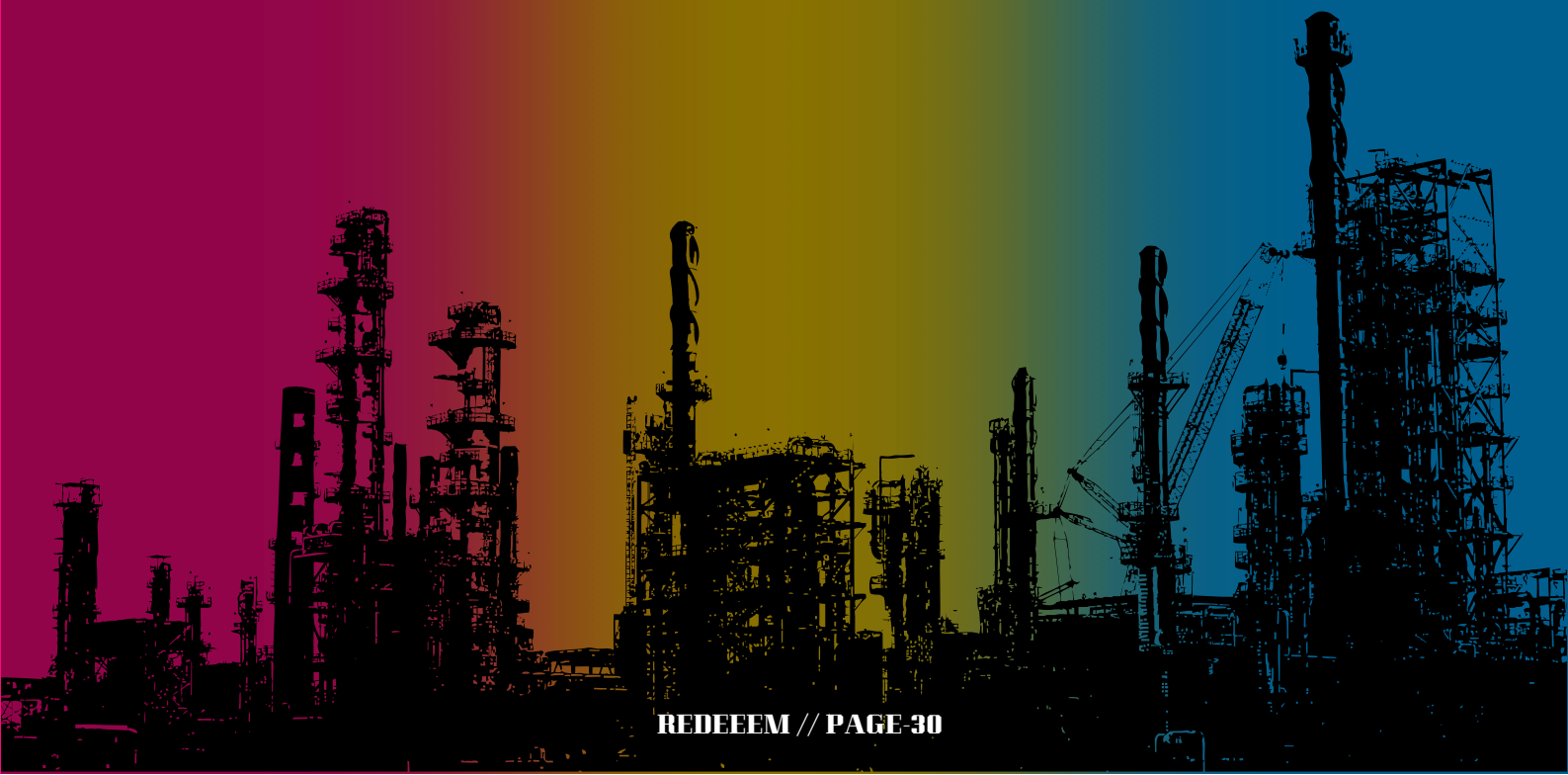
- Dr V Rajini and Dr Mrunal Deshpande had telephonic discussion with Mr Rajeev Bhave, Director Vishwas Power Engineering Services, Nagpur regarding internship of students and MOU.

- Dr V Rajini and Dr Mrunal Deshpande had telephonic discussion with Mr Shridhar Gokhale, CEO Indotech Transformers, Kanchipuram regarding internship and placement of students, visit to the industry and possible collaboration with the industry.

- Dr.V.Rajini, Dr.V.S. Nagarajan, Visited Ashok Leyland on 25-5-2022 regarding consultancy work.

- Dr.V.Rajini and Dr. R. Seyezhai Physical Mode Visit to HCL Facility at Ambattur for Power electronics-based projects. Meeting held at HCL, Ambattur for the benefits of research scholar on 06/06/2022

"In the word of alogorithms, hashtags and followers,
know the true importance of human connection"



MOU WITH NUMERIC UPS

MOU with Numeric UPS on April 23 , 2022

Mr. Satpal Singh, CEO , numeric ups addressing students on "Role of electrical engineers in manufacturing industry" .

NOTABLE VISITS AND GUEST LECTURES

SANJEEB KUMAR PANDA,

PROFFESOR- NATIONAL UNIVERSITY OF SINGAPORE

visited our Department of EEE and gave a guest lecture on 23/04/22

The department of EEE organized a Guest lecture Session on "POWER ELECTRONICS FOR RENEWABLE ENERGY" on 23.5.2022 (from 11 am to 12 noon) at Seminar Hall, EEE.

The guest lecture was delivered by, **Associate Prof. Dr. Jeyraj A/L Selvaraj,** Deputy Director and Associate Professor, Um Power Energy Dedicated Advanced Centre (UMPEDAC), University MALAYA, Malaysia.

- **Team Ashok Lyland with Principal, HOD's of EEE,ECE and mechanical department on 24/03/2022.**

- **HCL team Visited SSN on April 11 and 12. They visited EEE Research Labs.**

Dr.V.Rajini presented the research capabilities and possible research collaboration in the area of Smart grid in a Workshop organized by HCL.

- **Dr. Nagarajan and our HOD Dr.V.Rajini visited Ashok Leyland on 25/05/22**

- **The leadership team from Comcast visited our campus on 04th of May '2022. An interactive session with the students was held at Main auditorium.**

- **Team EVtron visited SSN EEE on May 31 for testing of their prototype. Initial testing was done at HV lab Dr.V.Rajini. Dr. Senthilkumaran, Balaji C- SSN RC coordinated this. EV- Tron is likely to sign MOU with EEE.**

ALUMNI INTERACTION

TRIBUTE - ANNUAL ALUMNI MEET

Annual Alumni Meet, Tribute happened on April 30,2022. Outstanding Alumni award was conferred on **Mr. Karthik IPS** of EEE Department**.** Outgoing office bearers conducted the proceedings and handed over the baton to the on- boarding team of alumni office bearers

Cake cutting with children on stage

Outstanding Alumni awardee

Band Performance – Staccato- held the crowd in full control and frenzy.

ALUMNI DAY VISIT

Vijayakumar, Karuppasamy , Lavakumar, Lakshmi Prasad, from 2005 batch with their families and Brindha (PG Alumni) visited EEE department on TRIBUTE Annual Alumni meet on April 30,2022.

Nagarajan, Poornima, Sharmila, Upasanah, Harinee from 2007-11 batch and Prajay from 2018 batch participated in Alumni meet.

Farewell to Dr. R. Anitha

Dr R Anitha was given a farewell on 6th May 2022. HOD handed over memento to her. She left the college after nearly two decades of teaching, faculties shared their experiences and cherished the memories

SKILL DEVELOPMENT COURSES

Timestamp	EMAIL ADDRESS	NAME	NAME OF THE COURSE	COURSE COMPLETED FOR THE MONTH OF	DURATION	STARTING DATE OF THE COURSE	ENDING DATE OF THE COURSE
5/6/2022 13:57:26	sowrirajang@ssn.edu.in	SOWRIRAJAN.G	INTRODUCTION TO ELECTRIC VEHICLE TECHNOLOGY	May-2022	2 hrs	5/1/2022 7:00:00	5/1/2022 9:00:00
5/11/2022 10:04:42	jeyakumarg@ssn.edu.in	JEYAKUMAR G	Fundamental of Circuit Analysis	May-2022	2 Weeks	4/25/2022 10:00:00	5/10/2022 14:40:00
5/26/2022 8:21:15	jeyakumarg@ssn.edu.in	JEYAKUMAR G	Beginner Level English	May-2022	2 Months	3/25/2022 10:00:00	5/25/2022 15:00:00
5/31/2022 15:41:58	porchelvanl@ssn.edu.in	L.Porchelvan	Computer Networks (Foundation)	May-2022	One day	5/25/2022 12:30:00	5/25/2022 15:15:00
5/31/2022 18:02:43	vivekananthank@ssn.edu.in	K VIVEKAANANTHAN	Understanding Basic Electricity	May-2022	3 hrs	5/25/2022 9:00:00	5/25/2022 12:15:00
6/1/2022 11:46:47	sowrirajang@ssn.edu.in	G.SOWRIRAJAN	BATTERIES AS ALTERNATIVE ENERGY SOURCE	May-2022	3 HRS	5/20/2022 20:00:00	5/21/2022 23:00:00
6/2/2022 13:39:02	lalg@ssn.edu.in	G Lal	Microsoft Excel 2019 beginners	May-2022	12days	5/1/2022 8:00:00	5/11/2022 9:37:00

YOUTH RED CROSS FELICITATION

Dr V Thiagarajan and EEE final year YRC student volunteers have received appreciation from Indian Red Cross Society (IRCS), Chengalpattu District on 31/05/2022. The certificates were received from Thiru A R Rahul Nadh, IAS, District Collector, Chengalpattu.

Student Activity

STUDENT EXTERNAL RECOGNITION CO-CURRICULAR

(All activities where students participate or win – academic competitions, hackathons, all type of activities covered by Invente)

Under the guidance of Dr.S.Krishnaveni, a team of students MARUTHAM RATHNA VALLI M, KEERTHANA S Participated in the competition IEEE Madras Section Student Project Funding (SPF 2021-22) Organized by IEEE Madras Section at B.M. Birla Planetarium, Chennai and won the First Prize!

RANK HOLDERS

Year	Semester	Name of the 1st Rank Holder	GPA%	Name of the 2nd Rank Holder	GPA%
Current Final Year B.E EEE	V	Akalya A (183001007)	9.86	Vignesh N (183001118)	9.77
		Medarametla Venkata Sai Kiran (183001050)			
		Rengarajan S (183001069)			
		Vishal Easwaramoorthy (183001122)			
	VI	Koupendra D B (183001043)	9.73	Dinesh Kumar S (183001026)	9.59
	VII	Divyashree D (183001028)	9.74	Ashwini M (183001014)	9.61
				Deekshitha S (183001019)	
		Rengarajan S (183001069)		Dhruv Kapoor (183001025)	
				Dinesh Kumar S (183001026)	
				Saikrishna S (183001076)	
Current Third Year B.E EEE	III	Akash P (193001005)	9.86	Amritha Rao V N (193001008)	9.68
		Jaysurya RA (193001307)		Anirudh S (193001009)	
	IV	S Pooja(193001072)	9.63	Mirudini V (193001065)	9.5
		S Rajadurai (193001081)		Priyadharshini S S (193001078)	
Current Second Year B.E EEE	I	KONDRAGUNTA SUHITHA(203001047)	9.86	SHIVANI R S (203001093)	9.80
		M THAGA SHERIFF(203001115)		E ARAVINDHAN (203001017)	
		THUPAKULA HIMA SAI (203001117)		KUMARESH N (203001050)	
		KETHA SURYA PRAKASH REDDY (203001046)			
		AMAN PANJIYAR (203001010)			
		HARINI V B (203001035)			
	II	Kondragunta Suhitha (203001047)	9.57	Mona Abishek A(203001057)	9.5
		Pavvithra M (203001067)			
		R Ranganath (203001077)			
Current Final Year M.E PED	I	Sarumathi T (204001003)	9.68	Preetha C (204001002)	9.14
	II	Sarumathi T (204001003)	9.91	Preetha C (204001002)	9.64
	III	Sarumathi T (204001003)	9.80	Preetha C (204001002)	9.00

SCHOLARSHIP AWARDEES

Students selected for Merit Scholarship 2021-2022

S.No.	Register No.	Name	Year	Mode of Seat
1	203001047	KONDRAGUNTA SUHITHA	II	MGM
2	203001115	M THAGA SHERIFF	II	MGM
3	203001117	THUPAKULA HIMA SAI	II	MGM
4	203001046	KETHA SURYA PRAKASH REDDY	II	MGM
5	203001010	AMAN PANJIYAR	II	SWS
6	203001074	RAGHUL S J	II	MGM
7	193001072	S POOJA	III	SWS-AFW
8	193001005	AKASH P	III	SWS-AFW
9	193001065	MIRUDINI V	III	SWS
10	193001081	S RAJADURAI	III	MGM
11	193001079	RADHA BAI C P	III	SWS
12	193001119	VAITHEESVARAN B	III	SWS-AFW
13	183001069	RENGARAJAN S	IV	MGM
14	183001050	MEDARAMETLA VENKATA SAI KIRAN	IV	MGM
15	183001043	KOUPENDRA D B	IV	MGM
16	183001052	MOHAMMED ASHIK S	IV	SWS
17	183001007	AKALYA A	IV	SWS
18	183001122	VISHAL EASWARAMOORTHY	IV	MGM

Students Selected for Merit Cum Means Scolarship 2021-2022

S.No.	Register No.	Name	Year	Mode of Seat
1	2010970	JUJJURI SRI VENKATA SAI PRANEETH	II	MGM
2	1910006	BARATH V	III	SWS
3	1911562	SURYA P	III	SWS/LE
4	181002179	VASANTH V	IV	SWS-FG

Students selected for Vidya Gyan Students Scholarship 2021-2022

S.No.	Register No.	Name	YEAR	Mode of Seat
1	2010072	APRAJITA JAISWAL	II	MGM-VG
2	183001047	MADHURI SHAKYA	IV	MGM-VG

Students Selected for Rural Scholarship 2021-2022

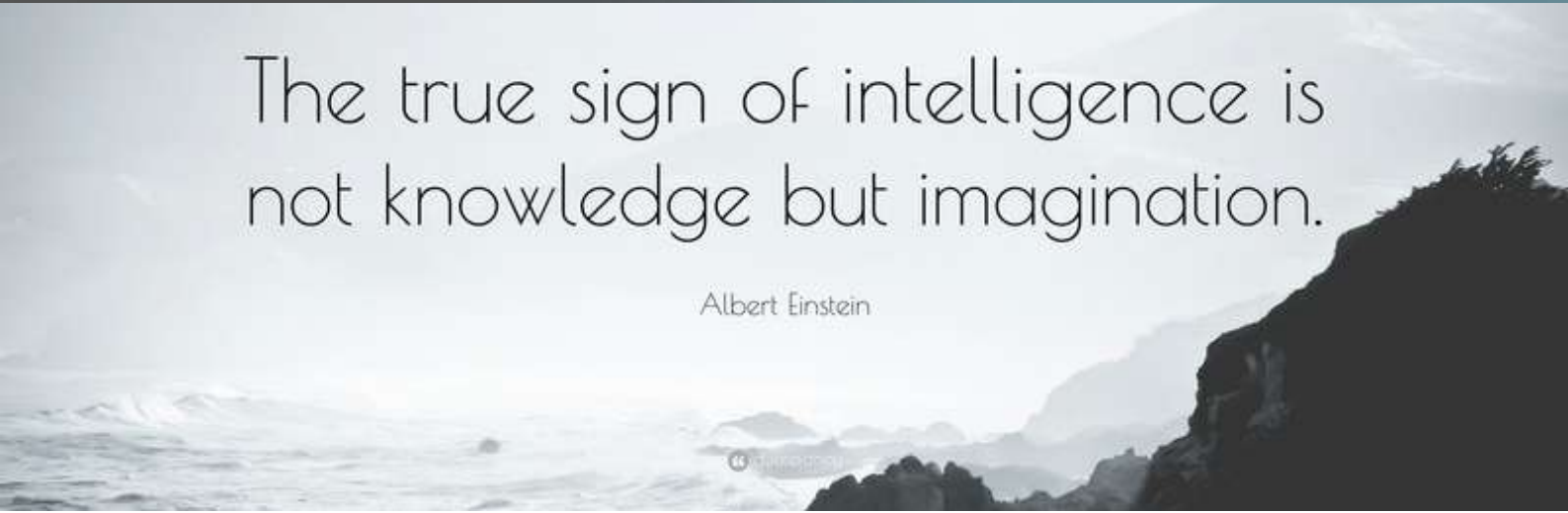
S.No.	Register No.	Name	Year	Mode of Seat
1	2010449	POOVIZHI A	II	MGM-RURAL
2	2010461	SNEKA C	II	MGM-RURAL
3	2010464	ABINAYA A	II	MGM-RURAL
4	2010821	VADUHAMMAL V	II	MGM-RURAL
5	1910206	JAYASURYA G	III	MGM-RURAL
6	1910699	RAJESHWARI R	III	MGM-RURAL
7	1910473	USHA V	III	MGM-RURAL
8	1910276	MAGESHWARI N	III	MGM-RURAL
9	183001045	LOGESHWARAN S	IV	MGM-RURAL
10	183001103	SUBITSHA R	IV	MGM-RURAL
11	183001002	ABARNA A	IV	MGM-RURAL
12	183001114	USHA K V	IV	MGM-RURAL

Students Selected for Alumini Scholarship 2021-2022

S.No.	Register No.	Name	YEAR	Mode of Seat
1	203001048	Kovi Sai Sandeep	II	MGM
2	183001023	Dhivya Devi B	IV	SWS

Students Selected for Award of Classical Carnatic Music -Vocal & Instrument Scholarship for the year 2021-22

S.No.	Register No.	Name	YEAR	Mode of Seat
1	193001009	Aniruth Sethuraman	III	MGM
2	193001112	Supraja S	III	MGM



INTERNALLY FUNDED PROJECTS STUDENT INFO

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	M. Jassem Galla N.V. Sai Sreeya III Year EEE	Dr. V. Rajini	Design and implementation of comprehensive drive systems for synchronous reluctance motor	18 Months	**Budget: Rs.20000** **Items Approved:** 1.Multilevel Inverter 2.DC-DC Converter 3.Battery Pack* 4.Speed Encoder 5.Hall Effect Sensor 6.Current & Voltage Sensor 7.Miscellaneous
2	Amaan Meer Daawood II Year EEE D.S. Tharun Kumar Prashobh Saji James II Year ECE	Dr. V. Rajini	Machine learning assisted autonomous automobile prototype with ECU integration	2 Years	**Budget: Rs.23000** **Items Approved:** 1.Arduino Uno 2.Raspberry Pi 3.Arduino Nano 33 BLE Sense 4.Ultrasonic Sensors 5.Image Sensor 6.Battery Charger* 7.Rechargeable Battery Back 8.Chassis for Prototype 9.Wifi & GPS Module 10. Miscellaneous
3	S. Sivaramaganesh R. Sivasubramanian I. Yashwanth Prakash Kumar IV Year B.S. Abishek, II Year	Dr. V. Kamaraj	Performance analysis of induction and permanent magnet motors for industrial fan applications	2 Years	**Budget: Rs.20000** **Items Approved:** 1.Permanent Magnet Motor (Stator & Rotor Material)* 2.NdFeb Magnets 3.Permanent Magnet Motor Rotor 4.Industrial Fan Arrangement 5.Miscellaneous
4	P.C. Sivan Sriman III Year	Dr. Mrunal Deshpande	Mechatronic design of a vertical take-off and landing airplane	1 Year	**Budget: Rs.19000** **Items Approved:** 1. KK2 1.5 Flight Controller 2. Arduino Microcontroller Boards 3. 3s 2200maH LiPo battery with charger 4. 2 2300kv brushless motors 5. 2 30A brushless ESCs 6. 6 metal-geared servos 7. 2.4 Ghz transmitter and receiver 8. Carbon Fibre Spars 9. Foam Board 10. Miscellaneous

5	M. K. Sarayyu G. Jayasurya Raman Gopal Chirania III Year	Dr. V. Rajini	Design and development of five phase induction motor drive system	18 Months	**Budget: Rs.25000** **Items Approved:** 1.Mosfet power switches 2.Signal conditioning circuits 3.PCB 4.Voltage & Current Sensors 5.Arduino Uno 6.Miscellaneous
6	S. Amrutha V. Raghavendra R. Sethuram Gautham II Year	Dr. K. Usha	Health care monitoring system using light fidelity	1 Year	**Budget: Rs.15000** **Items Approved:** 1. Arduino Uno 2. Bread Board 3. PCB 4. Photodiode Light Sensor 5. 1.8 inch LCD Display Module 6. Temperature Sensor 7. Heart Rate Sensor 8. Digital Temperature Humidity Sensor 9. Buzzer 10. Miscellaneous
7	P. Pradeep R. Rohin K.L. Sabarish J. Tarun	Dr. R. Seyezhai	Implementation of hybrid powered source for an electric assisted bicycle	1 Year	**Budget: Rs.26000** **Items Approved:** 1. Speedometer & Display unit for battery voltage
	II Year				
					2. Maxwell super capacitor bank 3. Controller IC for power converter 4. Miscellaneous
8	R. Ajay Kumar M. Balaji S. Charan P. Surya III Year	Dr. R. Ramaprabha	Implementation of super-lift multilevel inverters for photovoltaic interfacing system	18 Months	**Budget: Rs.25000** **Items Approved:** 1. 2P2T Switches 2. IGBT with driver circuit 3. Diodes 4. Arduino Mega Kit 2560 with ADC & DAC 5. Materials for circuit design, passive components and fabrication 6. Inductors, Capacitor, Regulators, Transformers for control circuit 7. Miscellaneous

9	G. Jaya Abhinaya V. Mirudini III Year	Dr. M. Pandikumar	Solar based charging station for E-Vehicle	1 Year	**Budget: Rs.8000** **Items Approved:** 1. Solar Panel & Tilting mechanism* 2. Charge Controller 3. Miscellaneous

10	J. Harshini Ansheela Sahoo C. Jazlyn III Year	Dr. J. Anitha Roseline	Indoor positioning system using OMNI wheel robot	1 Year	**Budget: Rs.28000** **Items Approved:** 1. ESP 32 microcontroller 2. Li polymer battery 3.7 V 3. Li polymer battery 11.1 V 4. Voltage regulator 5. Sharp IR sensor 6. IMU sensor 7. Motor driver 8. Encoder motor 9. Omni wheels 10. Miscellaneous
11	V.Vaishnavi V.K. Praveena M. Sanjana III Year	Dr. M. Senthil Kumaran Dr. R. Leo	IoT based home automation using STM32	10 Months	**Budget: Rs.19000** **Items Approved:** 1. STM32 2. PIR motion sensors 3. IDR sensors 4. Temperature & humidity sensors 5. Current sensors 6. Generic motor 7. 4 channel 5v relay module 8. Miscellaneous
12	S. Dhinesh A.D. Kaviyamalar S. Keerthana M. Marutham Rathna Valli	Dr. S. Krishnaveni	Energy monitoring and power factor correction for domestic loads using smart meter technology	1 Year	**Budget: Rs.16000** **Items Approved:** 1. PIC16F877A microcontroller
	III Year				2.SIM900A GSM Module 3.Zigbee Xbee module S2C 4.Energy Meter* 5.Current Sensor 6.Voltage Sensor 7.Miscellaneous
13	R.Bharani S.Guru Prasath R.A. Jaysurya J. Suresh Kumar III Year	Dr. V. Rajini	Real time transformer monitoring system with prognosis of faults and determination of remaining useful life	1 Year	**Budget: Rs.15000** **Items Approved:** 1.3 Phase transformer * 2.Current transformer 3.Potential transformer 4.Arduino Mege Kit 2560 5.Node MCU Wi-Fi module 6.LCD display & DC supply 7.Miscellaneous
14	S. Infantselvan B. Iniyavan K.S. Manish III Year	Dr. N. B. Muthuselvan	Automatic vehicle accident detection and rescue through Arduino and IoT	1 Year	**Budget: Rs.15000** **Items Approved:** 1. 5vpower supply 2. GSM SIM 800 L 3. Engine Fan 4. Accelerometer Sensor 5. GPS GY-GPS 6 MV2 6. Ardunio UNO R3 7. 16x2 LCD display 8. Buzzer 9. Pressure Sensor 10. Miscellaneous

15	V. A. Ayush S. Balaji B. Binesh Kumar J. Harish Shankar	Dr. M. Balaji	Design and implementation of vehicle theft and fuel theft detection system	1 Year	**Budget: Rs.12000** **Items Approved:** 1. Arduino 2. GPS Module 3. GSM Module 4. Buzzer 5. LCD Display 6. Voltage Regulator 7. ADLX 335 8. Ultrasonic Sensor 9. Ignition Key 10. DC Motor with relay 11. Miscellaneous
16	Navneet Krishna G. Jeevanandham	Dr. S. Tamilselvi EEE Dr. K.P. Gopinath Chemical	Adsorptive removal of impurities in the transformer oil retaining the oil properties	1 Year	**Budget: Rs.25000** **Items Approved:** 1. Servo transformer Oil 2. Borosilicate bottles 3. Amber RB Flasks 4. Test tubes 5. Aluminium transformer oil sampling flasks 6. Miscellaneous

17	N. Thenmozhi S. Swarna II Year EEE U. Bhavwana II Year IT	Dr. R. Leo	IoT and Ardunio based energy management of micro-grids	10 Months	**Budget: Rs.16000** **Items Approved:** 1.Arduino Mege Board 2.Node MCUESP 8266 Module
					3.Potentiometers 4.Miscellaneous
18	S. Supraja K. Saran Gantth G. Manigandan R. Sathya Priyaa III Year	Dr. P. Saravanan Dr. V. Kamaraj EEE Dr. K.S. Gayathri IT	Autonomous electric delivery system	1 Year	**Budget: Rs.21000** **Items Approved:** 1. Raspberry Pi 2. Motor & Wheels 3. Display Screen with keyboard 4.Frame of the vehicle 5.GPS module 6.Stereo Camera 7.Battery Back* 8.Miscellaneous
19	G.G. Uppili Narasimhan M. Prathyumnan K.S. Sasikaran II Year	Dr. D. Umarani	Analysis and implementation of power electronic converter for solar assisted electric card	1 Year	**Budget: Rs.25000** **Items Approved:** 1.Flexible PV Panel 2.MPPT charge controller 3.PWM IC Controller 4.Miscellaneous

20	P. Akash S. Akash S. Aravindan A. K. Arvinth III Year	Dr. V. S. Nagarajan	Design and development of spoke type PMSM motor for electric trike application	2 Years	**Budget: Rs.25000** **Items Approved:** 1.Rotor Core 2.Shaft 3.Ferrite Magnets 4.Miscellaneous

21	M. Mohamed Ismail K. Sathya Bharathi S. Sneka III Year	Dr. V. Thiyagarajan	A symmetrical compact-module multilevel inverter (CM-MLI) for electric vehicle applications	1 Year	**Budget: Rs.19000** **Items Approved:** 1.IRF 840 - Power MOSFET 2.BUP314 3.TLP250 4.Voltage Regulator 5.Arduino Mega 2560 6.Miscellaneous
22	Amritha Rao Anirudh Sethuraman Bhargav Bussa III Year	Dr. G.R. Venkatakrishnan Dr. R. Rengaraj	IoT based predictive maintenance of battery	18 Months	**Budget: Rs.20000** **Items Approved:** 1.Arduino 2.Node MCU 3.DHT22 Sensor 4.Voltage Sensor 5.Battery 6.Charger 7.Miscellaneous
23	Dhruv Kapoor IV Year D. Suneeth II Year	Dr. Mrunal Deshpande	Design and development of a quadrature double boost DC-DC converter	1 Year	**Budget: Rs.7000** **Items Approved:** 1.MOSFET 2.Diodes 3.Resistors 4.Capacitors 5.Inductors 6.Extension Board 7.Hylum Sheet 8.Solar Panel (50 W, 12 V)* 9.Miscellaneous
24	T.U. Nehadhruwa S. Rohit Kumar K. Sriharini S. Srikanth III Year	Dr. M. Balaji	Design and implementation of smart street lighting system using Raspberry Pi	10 Months	**Budget: Rs.12500** **Items Approved:** 1.Raspberry Pi 2.R PI Camera Module 3.PIR Sensor 4.LDR Sensor 5.Current Sensor 6.GSM SIM800 7.WIFI ESP-8266 8.Battery* 9.Miscellaneous
25	S. Sriranjini S. Sneha II Year EEE M. Benasir II Year ECE	Dr. R. Leo	IoT and app based novel robust smart energy management and demand side management of microgrids	10 Months	**Budget: Rs.19000** **Items Approved:** 1.Arduino Mega Board 2.Node MCU ESP 8266 Module 3.Potentiometers 4.Miscellaneous
26	M. Barathkumar IV Year R. Sathyaprakash II Year	Dr. V. S. Nagarajan	Performance evaluation ferrite assisted synchronous reluctance motor in comparison with IPMSM and BLDC motor for electric bike application	2 Years	**Budget: Rs.27000** **Items Approved:** 1.Ferrite Assisted Synchronous Reluctance Motor (Stator & Rotor) 2.Ferrite Magnets 3.Interior Permanent Magnet Motor Rotor 4.BLDC Rotor 5.Miscellaneous

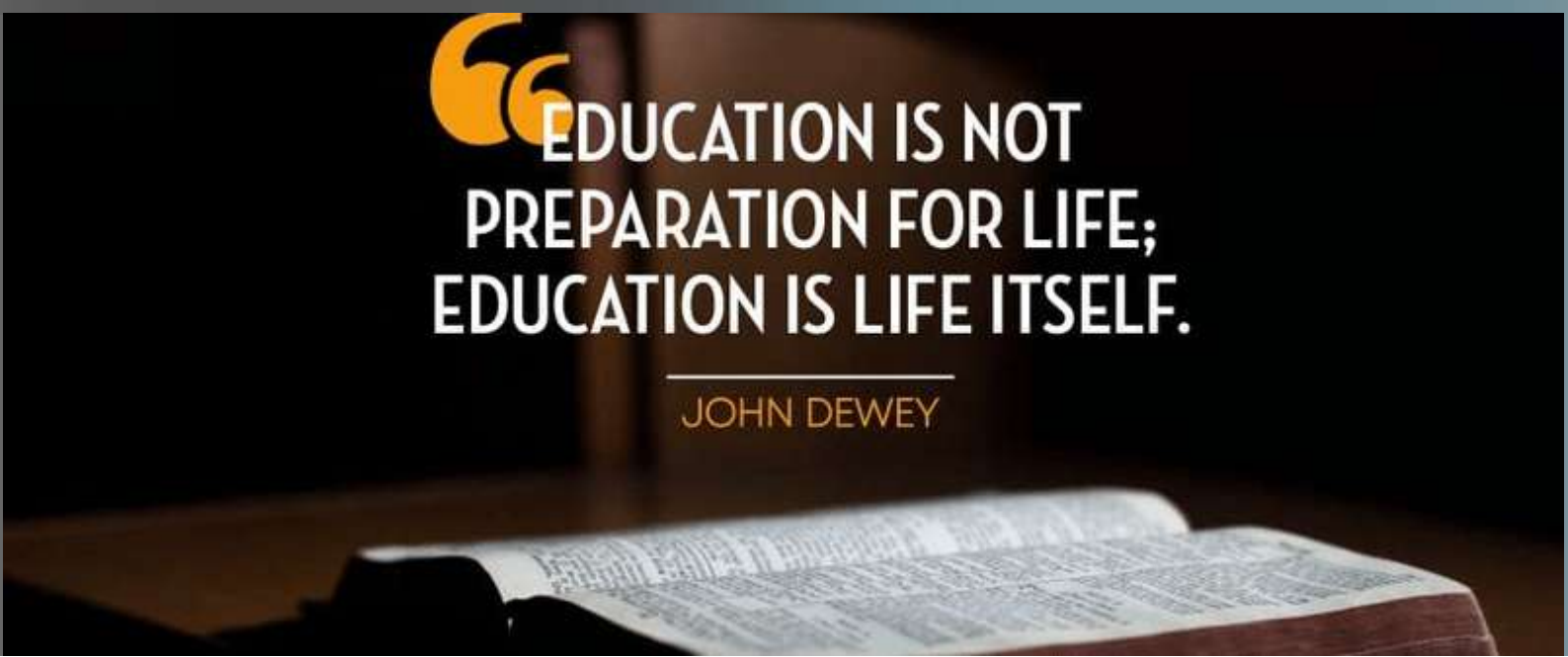
27	P. Dinesh S. Jerry Rinaldo Kedhar Narayanan S. Vinu Varshath III Year	Dr. V. Rajini	Implementation of integrated bidirectional converter for electric vehicle applications	2 Years	**Budget: Rs.20000** **Items Approved:** 1. Li-Ion battery* 2. Battery connectors & Holders* 3. Inductors 4. Capacitors 5. MOSFET Switches, 25 V, 10A 6. Optocoupler, 4N37 7. Driver ICs 8. PIC Microcontroller, PIC16F877A 9. Voltage and Current Sensors 10. Voltage regulators 11. Miscellaneous
28	C. Brindha C. Stuward Candy Mohan III Year	Dr. R. Ramaprabha	Design and implementation of integrated quadratic boost-zeta converter for photovoltaic applications	18 Months	**Budget: Rs.24000** **Items Approved:** 1.Opto-coupler Module 2.IGBT (FGB5N60UNDF) 3.Diodes, IN4008 4.Arduino Mege Kit 2560 with ADC & DAC 5.Miscellaneous
29	R. Maniraja M.R. Gowtham	Dr. M. Balaji	Design and implementation of multilevel inverters	10 Months	**Budget: Rs.22000** **Items Approved:** 1. ICE40HX1K-TQ144 FPGA Development Board 2. MOSFET/IGBT Power Module 3. Gate driver unit 4. 1 KVA, 230V/230V isolation transformer * 5. Miscellaneous
30	A.S. Sai Akash V. Bharathraj Rajadurai III Year	Dr. R. Leo	IoT Based optimal building energy management using arduino	1 Year	**Budget: Rs.24000** **Items Approved:** 1.Arduino Mega 2.PIR Motion Sensors 3.IDR Sensors 4.Temperature and Humidity Sensors 5.Current Sensors 6.Arduino Pre loaded NOOBA SD card (16 GB) 7.Generic Motor 8.4 Channel 5v Relay module 9.Miscellaneous

31	A. J. Nishath Afroza C.P. Radha Bai V. Tejaswini III Year	Dr. V. Rajini	DC-DC triple active bridge converter	2 Years	**Budget: Rs.20000** **Items Approved:** 1. Li-ion Battery* 2. Battery connectors and holders* 3. Inductors 4. Capacitors 5. MOSFET switches 6. Optocoupler 7. Driver IC's 8. PIC Microcontroller for pulse generation 9. Voltage Regulators 10. Voltage and Current Sensors 11. Miscellaneous
32	B. Ayswarya P.A. Vaisshnavi III Year	Dr. S. Krishnaveni	Solar energy interfaced residential battery energy storage system using two stage structure	14 Months	**Budget: Rs.12000** **Items Approved:** 1. Battery, 12 V/5Ah* 2. Solar Panel, 12 V/40W* 3. Gate pulse generation development board 4. Miscellaneous
33	Gaddam Jyothsna S. Kaviya III Year	Dr. M. Pandikumar	Low cost solar-grid utility hybrid load sharing system for agricultural DC load	1 Year	**Budget: Rs.2000** **Items Approved:** 1.Solar Panel & Tilting Mechanism* 2.Charge Controller* 3.Miscellaneous
34	V. Barath R. Bharath Vishal N. Harish S.S. Harshad III Year	Dr. R. Seyezhai	High gain split source inverter for photovoltaic systems	1 Year	**Budget: Rs.24000** **Items Approved:** 1. MOSFET switch module with driver 2. Inductor 3. Fast recovery diodes and capacitors 4. FPGA stick board 5. Digital multimeter 6. Rheostat 7. Miscellaneous
35	N. Adhi Shankar P. Gunasekaran S. Manoj Balaji III Year	Dr. M. Balaji	Design and implementation of bidirectional DC-DC converter for electric two wheeler application	1 Year	**Budget: Rs.8000** **Items Approved:** 1.Battery* 2.MOSFET 3.Microcontroller 4.Driver Circuit 5.Miscellaneous

36	R. Sriganesh Rajadurai III Year	Dr. M. Pandikumar	Design and development of low-cost solar powered electric vehicle	1 Year	**Budget: Rs.24000** **Items Approved:** 1.Solar PV Panels 2.Charge Controller 3.Miscellaneous

37	V. Usha N. Mageswari R. Rajeshwari III Year	Dr. V. Thiyagarajan	A novel 15-level asymmetrical inverter with reduced number of switches	1 Year	**Budget: Rs.19000** **Items Approved:** 1.IRF 840 - Power MOSFET 2.BUP314 - IGBT 3.TLP250 - Optocoupler 4.Voltage Regulator ICs - 78L05, LM317 5.Arduino Mega 2560 6.Miscellaneous
38	M. Vallaba Gurunath R. Roshan Darran V. Shakti III Year	Dr. K. Murugesan Dr. R. Leo	IoT based energy management system using STM32	1 Year	**Budget: Rs.21000** **Items Approved:** 1.STM32 2.PIR Motor Sensors 3.IDR Sensors 4.Temperature & Humidity Sensors 5.Current Sensors 6.Miscellaneous

39	A. R. Gokul Raghavan P.R. Hari R. Vignesh Ram III Year	Dr. V. Thiyagarajan	Home automation system using IoT	1 Year	**Budget: Rs.19000** **Items Approved:** 1.ESP8266 Wifi Module 2.Relay Driver IC 3.Atmega Microcontroller 4.Arduino UNO r3 5.Miscellaneous
40	R. Sriganesh A. Anirudh III Year	Dr. R. Sundareswaran Dr. S. Sampath Kumar Mathematics	Centrality measures in neutrosophic graphs	1 Year	**Budget: Rs.8000** **Items Approved:** 1.Seagate Desktop 4TB External Hard Drive HDD 2.Miscellaneous



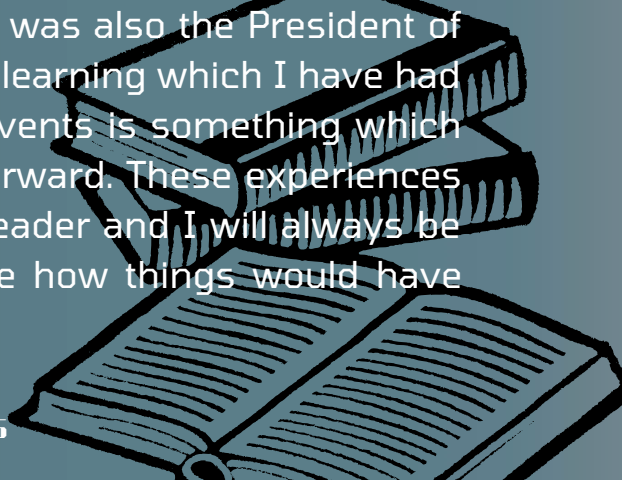
Best Outgoing Student

SOORYA S

Hello everyone. This is Soorya S from IVth year EEE and I'm here to share my experience at SSN.

Before joining this college I have heard that it provides so many opportunities for people who want to pursue their passion as well as shine in academics. Hence I was very excited the moment I got to know that I got a seat at SSN. Rightly so in the start of first year itself, I could see a ton of opportunities opening up for me.

From my early days singing has been one of the most important things in my life and I have always wanted to express that talent with people and perform at various stages. In my schooling days I wasn't able to truly bring out the singer in me as the opportunities were always very less and teachers wanted the students to be very invested in studies only. But SSN is a place where we can pursue our passion apart from the academics which comes along with it. One of the things which I'm most grateful for in my college days is the SSN Music Club. Right from the start all I've gotten from the club is encouragement. From jamming in various meets with the music club people, performing for almost all the functions which involve the club inside College and going out for culturals and winning in a lot of prestigious universities, these 4 years have given me the experience of a lifetime. I was also the President of the Music Club in my final year and the sheer learning which I have had as to how to manage people and organize events is something which might be extremely helpful for me moving forward. These experiences have helped me grow as a singer and as a leader and I will always be grateful to this college because I'm not sure how things would have panned out if I was at a different college.



Apart from this, being in the EEE dept has really helped me throughout these 4 years. The faculties have been very supportive and have always encouraged me in various regards. This has also helped me fair well in academics as well as my passion. I want to share one specific instance during one of my interviews which I attended during the placement season. Apart from asking several questions regarding the domain, the interviewer was very invested in asking about my extracurriculars and how I managed both academics and this throughout my college life. Having a passion and working towards it is as important as fairing well in academics and when the right platform is provided, it's up to us to grab those and make commendable improvements within ourselves. I'm forever grateful to the club and the college which has also got me to receive the best outgoing student of EEE Department in this academic year. Happy to share this experience!

Thank you!

"A DREAM DOESN'T BECOME REALITY THROUGH MAGIC ; IT TAKES SWEAT, DETERMINATION, AND HARD WORK."

- COLIN POWELL

Department EEEvents

Ethnic day'22

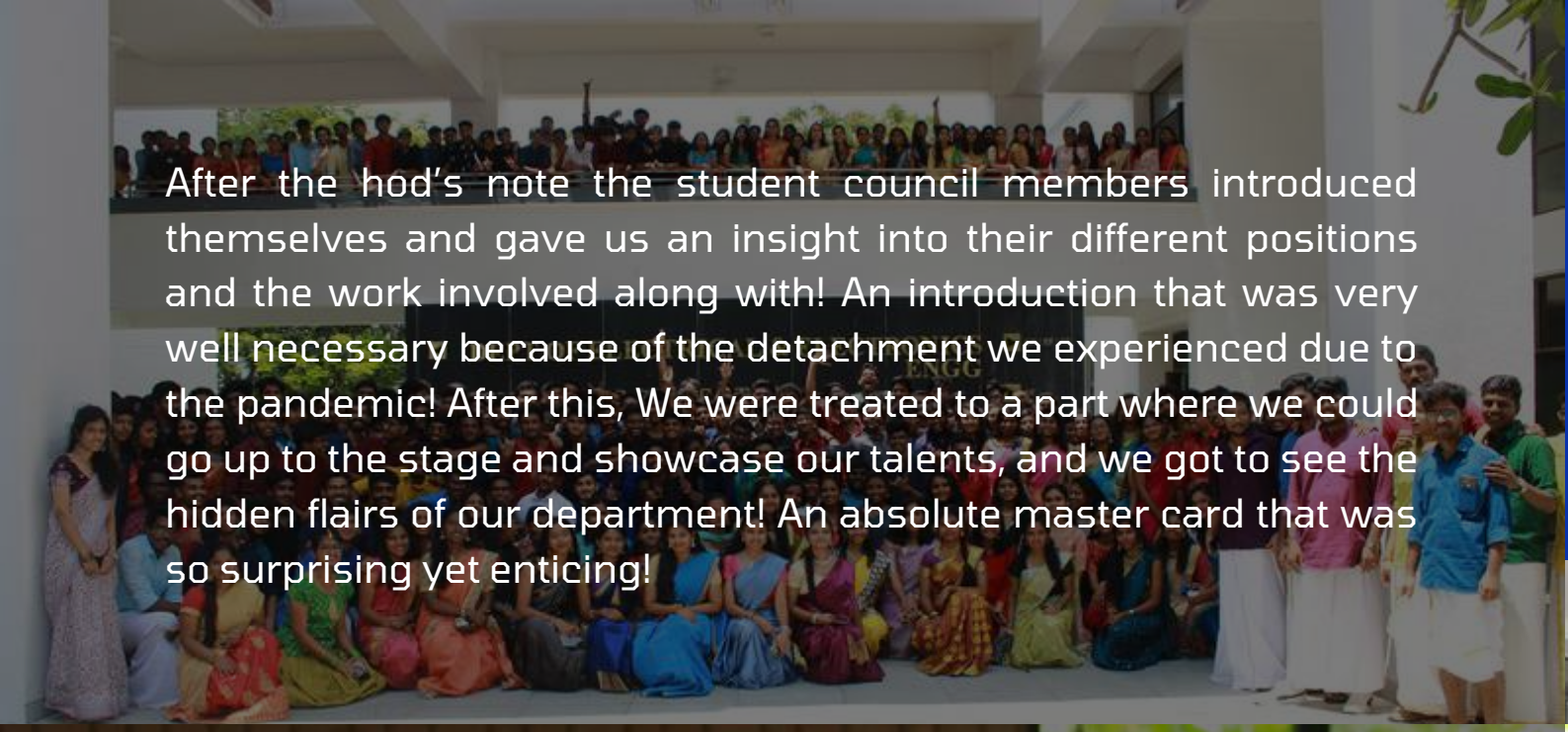
– Harshvardhini M, 2nd Year

"A nations culture lies in the hearts and in the soul of its people"

- Mahatma Gandhi

A pause from the perilous run, a look back to the roots and most importantly a reassurance of our identity is what this year's forerunning event The Ethnic Day was all about! The Student's Council came up with this genius of an idea, of celebrating an Ethnic Day for our Department, this year and Our HoD Dr. Rajini V graciously gave us permission for the same! The day preceded with anxious and expectant minds, only to pave way for a fun and vibrant showdown!

It was the dawn of 29th April 2022, we all came dressed up in traditional attires! The boys chivalrously dressed up in dhotis and the girls charmed the day, wearing sarees! Full of excitement, we waited for the reveal of what this day was all about! Around 9am we were present in the seminar hall, and our hod shedded light on the significance of this day and the celebration. She called this day as a reminisce of who we are and where we all belong irrespective of where we are and what we do! She said, What our authentic roots and culture depicts and how enthralling and enriching they are is to be known and felt among us! She asked us to never forget this indigeneity of ours, for one who stays grounded to his/her roots is the one who'll find his/her way back home- the place where our heart will always be!



After the hod's note the student council members introduced themselves and gave us an insight into their different positions and the work involved along with! An introduction that was very well necessary because of the detachment we experienced due to the pandemic! After this, We were treated to a part where we could go up to the stage and showcase our talents, and we got to see the hidden flairs of our department! An absolute master card that was so surprising yet enticing!

The talent showcase was followed by a photography session that covered the whole department and one could feel the chills of the magnanimous wholeness in the crowd. A perplexing crew of Electrical and Electronics Engineers in the making, all dressed concordantly in ethnic outfits, was a dream site to watch!
They say,

"The more you praise and celebrate life, the more there is in life to celebrate!"

Proving it true was an event like the ethnic day for our department. All of us, with different and wide ranged work and expectations to meet up with, came together to take a pause and celebrate our own selves and the musings of similarities and soulness that we hold as students in the department! I have immense gratitude towards our beloved HoD, and the student council members for giving us The Ethnic Day, an event like no other to cherish and reminisce! Here's looking forward to the event in the upcoming years of my undergraduate life, to reassure, recall and relish my originality and its beauty!

Let's take a look at how colourful The EEE Department was that day!

- HOD's Note

- All of us in one frame

- Men in Black

- Second year EEE-B Folks

- Second year EEE-A Folks

- What's an event without some fun

Third Year Gallery

REDEEEM team '21

PICTURES COURTESY AND SHOUTOUT TO OUR DEPARTMENT'S VERY TALENTED PHOTOGRAPHRERS

NAVEEN KRISHNA V
KUMARESH NATARAJAN
PRANAV A
MANIKANDAN S
JAYACHANDRAN JAYARAMAN

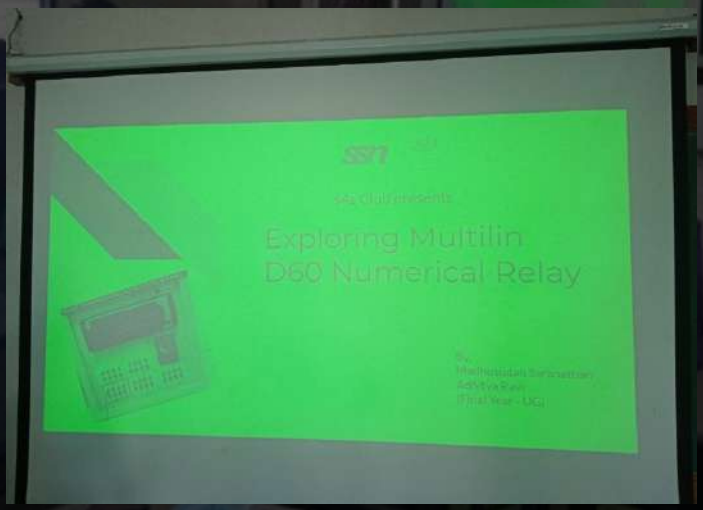
"The greatest oak was once a little nut who held its ground."

Exploring Multilin D60 Numerical Relay – A s4s club event

-Madhusudan Saranathan, Final year

Power systems are undergoing a dramatic transition as a result of the penetration of new disruptive technologies, and because old electric grids were not designed with these technological breakthroughs in mind, they must undergo significant change to support them. Additionally, operation of a power system requires both, practical expertise and a solid grasp of Electrical Engineering. With this in mind, Adhitya R. (Final Year/EEE) and myself organized sessions for juniors as part of the s4s (Student for Student) club. The events held aimed at providing insights on digital power system protection by conducting various experiments on GEs' Multilin D60 Numerical Relay, an equipment which is a part of the newly established smart grid laboratory at our department.

In the first session the students were introduced to numerical relays, how the relays have evolved over time and introduction to Enervista Software which is used to configure the relay. Over 25 students from third year enrolled and attended the event.



The second and third sessions focused on enlightening them with the concepts of in-rush current. The same was analyzed by energizing an Induction motor and a transformer with the help of the numerical relay in AC Machines Lab. We also had an informal discussion on how a distribution transformer is protected (Fog horn fuse, Isolators) from various untoward incidents.

A few more hands on session have been planned, where we'll help the students recreate our projects and thereby passing on the knowledge and experience gained through our projects. We would like to thank Dr. K N Dineshbabu for providing us with the knowledge to work with the state of the art equipment. We would also like to thank Dr. V. Rajini and Dr. S. Tamilselvi for their constant support, without which this event wouldn't have been successful.

Industrial Visit '22

Dr. Mrunal Deshpande arranged industrial visit to Indo Tech Transformers Ltd. for II-year EEE students. As per day entry was restricted to 46 students the visit was arranged for three days to accommodate both the sections of II yr. First day June 8, Dr. Mrunal Deshpande and Dr. V. Rajini accompanied the students. Second day, Dr. R. Ramaprabha & Dr. M. Balaji accompanied the students. Third day Dr. R. Leo & Dr. K. Murugesan accompanied the students. The students had a close look at various methods of placing the windings of transformer, transformer assembly and impulse testing.

Indo Tech Transformers Ltd. manufactures electrical power and distribution transformers. The Company also produces related electronic and computer hardware, pre-stressed cement casting products and mobile substation transformers. After entering into the company, we were assembled in a seminar hall. The company technical person gave an introduction about the company and the safety precautions to be followed during the visit. The production manager allotted a technical team who at the site explained different stages of assembling open ventilated dry type transformers, special transformers and power transformers. High rated transformers of 100 kVA/11 kV & 2500 kVA/33 kV, etc were the main attraction. The company manufactures a range of power transformers between 5 MVA/33 kV to 315 MVA/400 kV including two winding, three winding transformers and auto transformers. The medium sized power transformers are manufactured at the Thirumazhisai facility and the Extra High Voltage (EHV) transformers are manufactured at its state-of-the-art facility located at Kancheepuram. These transformers are manufactured under sterile conditions and with the best available materials and processes. It was good technical experience.

Day 1

Day 2

Industrial Visit to Indo Tech Transformers Ltd., Chennai

Day 3

My First IV Experience

-Suhitha K,
2nd Year

The Department of EEE conducted an industrial visit to the students of the second year despite the hectic schedule. Let's discuss what we have gone through in this IV.

IV was conducted from 08/06/22 to 10/06/22 and the entire second year was divided into batches. Two batches per day paid their visit to INDO TECH, KANCHIPURAM which manufactures large power transformers. At the entrance, the staff of INDOTECH asked us to put on our masks as they strictly follow the covid rules. The first Batch, which consisted of 23-25 students, was taken to explore the industry. Once the first batch finished their visit, the other batch was taken inside. A guide from INDO TECH guided us and briefly explained how the transformers are manufactured. Firstly, we went through the WINDING department and got to know about the types of windings such as SHIELD, LAYER, and DISC windings, and how they are winded. They had 11 machines out of which 10 machines were horizontal and one vertical to perform this winding. Later, we went through the SIZING department and then to the various units of the industry. Safety measures were strictly followed during the entire visit; helmets and goggles were provided by the staff.

Overall, it was a very good experience that let us get to know things in a more practical way. This was our first IV and it was quite impressive. Head of the Department, Dr. V. Rajini mam, Associate professors of our department Dr. Mrunal Deshpande, Dr. R. Ramaaprabha, Dr. R. Leo accompanied us and let this all happen in an easier and efficient way. I would like to thank our department for letting us experience this and for always being supportive of us.

சாரல் தமிழ் மன்றம் பற்றி டாக்டர். கே.முருகேசனுடன் நேர்காணல்

- தீப்ஷிகா. செ, அபிநயா. அ

1. சாரல் தமிழ் மன்றத்தை தொடங்கியது யார் ? அது எப்பொழுது தொடங்கப்பட்டது?

இந்த சாரல் தமிழ் மன்றம் தொடங்கப்பட்டதற்கான காரணம் மாணவர்கள் பலர் தங்களுக்கு தமிழ் மொழி சார்ந்த மன்றம் வேண்டும் என விரும்பி கேட்டுக்கொண்டனர்.எனவே முன்னாள் தலைமையாசிரியர் டாக்டர் .சாலிவாகனன் அவர்கள் டாக்டர்.கு. முருகேசன் அவர்களிடம் தாங்கள் இந்த தமிழ் மன்றத்தை தலைமை ஏற்று நடத்த வேண்டும் என கேட்டுக்கொண்டார். அந்த சமயம் ,2004 ஆம் ஆண்டு செப்டம்பர் மாதம் மின் மற்றும் மின்னணு பொறியியல் துறையில் Symposium நடந்து கொண்டிருந்தது .அந்த symposium-க்கு பாரதியார் பல்கலைக்கழகத்தின் முன்னாள் துணைவேந்தர் அவர்கள் தலைமை விருந்தினராக பங்கேற்றார். அவர் ராமாயணம் ,மகாபாரதம் மற்றும் திருக்குறள் போன்ற தமிழ் இலக்கியங்களில் நன்கு புலமை பெற்றவர். அதே சமயத்தில் மின்னணு துறையிலும் புலமை பெற்றவர் .எனவே டாக்டர். சாலிவாகனன் அவர்கள் தமிழ் மன்றத்தை இவர் தொடங்கி வைத்தால் நன்றாக இருக்கும் என எண்ணினார். எனவே அவரை தலைமை விருந்தினராக வைத்து தொடங்கப்பட்டதுதான் இந்த சாரல் தமிழ் மன்றம்.

2. இந்த தமிழ் மன்றத்திற்கு சாரல் தமிழ் மன்றம் என பெயர் வைத்ததற்கான காரணம் என்ன ?

கலை மற்றும் அறிவியல் கல்லூரிகளில் தமிழ் என்பது ஒரு பாடமாகவே உள்ளது. அங்குள்ள அனைத்து மாணவர்களுக்கும் தமிழ் நன்கு தெரியும். ஆனால் பொறியியல் மற்றும் மருத்துவக் கல்லூரிகளில் தமிழ் ஒரு பாடமாக இல்லை. பொறியியல் கல்லூரிகளில் தமிழ் என்பது ஒரு தூரல் போல அங்கங்கு உள்ளதால் மாணவர்களே இதற்கு "சாரல் தமிழ் மன்றம்" என பெயர் வைத்திருக்கலாம்.

3. இந்த சாரல் தமிழ் மன்றத்தில் சேர வேண்டும் என தங்களுக்கு எப்படி தோன்றியது ? ஒரு ஆசிரியராகவும் ,சாரல் மன்றத்தின் தலைவராகவும்நீங்கள் நேரத்தை எப்படி சமாளிக்கிறீர்கள்?

எனக்கு சிறுவயதில் இருந்தே தமிழின் மீது பெரும் ஆர்வம் இருந்தது. நான் ஓய்வு நேரங்களில் கூட தமிழ் புத்தகங்களை தான் படிப்பேன். நான் பள்ளிக்கூடம் பயிலும் போது பேச்சுப்போட்டி ,கட்டுரைப் போட்டி போன்ற போட்டிகளில் பரிசுகள் வெல்வேன். இதுபோன்று தமிழின் மீது எனக்கு இருந்த ஆர்வம்தான் இந்த சாரல் தமிழ் மன்றத்தில் என்னை சேர தூண்டியது. மேலும் மனிதர்களுக்கு வாழ்வில் இரு தேடல்கள் உள்ளது . ஒன்று பணத்தேடல் மற்றொன்று மனத்தேடல். நான் பணத்தேடலுக்காக இந்த ஆசிரியர் பணியையும் ,என்னுடைய மனத்தேடலுக்காக சாரல் தமிழ் மன்றத்திலும் பணிபுரிகிறேன்.

4. இந்த சாரல் தமிழ் மன்றத்தின் முக்கிய நோக்கம் என்ன?

பொதுவாக அனைத்து மன்றமும் ஒரு குறிக்கோளை கொண்டிருக்கும். மாணவர்கள் இரண்டு விதமாகப் படிக்க வேண்டும் . ஒன்று ஆற்றைப் போல படிக்க வேண்டும்,மற்றொன்று காற்றைப்போல படிக்க வேண்டும்.

ஆற்றைப்போல படிப்பது என்பது இரு கரைகளுக்கு நடுவே படிப்பது . அதாவது நமக்கு கொடுத்த பாடத்திட்டத்தை படிப்பது. ஆனால் இந்த பாடத்திட்டத்தில் இல்லாத நிறைய விஷயங்கள் நமது வாழ்க்கைக்கு தேவைப்படும். இந்தப் பாடத்திட்டத்தின் மூலம் தெரிந்து கொள்ளாததை நாம் இந்த மன்றத்தின் மூலம் தெரிந்து கொள்ளலாம். இவ்வாறாக மாணவர்களின் திறமைகளை வெளிப்படுத்துவதே இந்த மன்றத்தின் முக்கிய நோக்கமாகும்.

5.கல்லூரிக்கு புதியதாக வரும் முதலாமாண்டு மாணவர்களுக்கு இந்த சாரல் தமிழ் மன்றத்தைப் பற்றி எவ்வாறு தெரியப்படுத்துவீர்கள் ?

ஒவ்வொரு ஆண்டும் முதலாமாண்டு மாணவர்ளுக்காக Orientation program நடைபெறும்.

அந்த நிகழ்ச்சியின் இறுதியில் கல்லூரியில் உள்ள ஒவ்வொரு மன்றத்தை பற்றியும் அந்த மன்றத்தின் தலைமை பொறுப்பில் உள்ள மாணவர்கள் பேசுவார்கள். அதைப்போன்று சாரல் தமிழ் மன்றத்தில் அந்த ஆண்டு தலைமைப் பொறுப்பில் உள்ள மாணவர் சாரல் மன்றத்தைப் பற்றியும் ,அதில் நடைபெறும் போட்டிகள் மற்றும் நிகழ்ச்சிகளை பற்றியும் கூறுவார். மேலும் முதலாமாண்டு மாணவர்களுக்கு மட்டும் விழிப்புணர்வு நிகழ்ச்சிகளை இந்த சாரல் தமிழ் மன்றம் நடத்துகிறது.

6. முதன்முதலில் சாரல் மன்றம் தொடங்கிய போது எப்படி இருந்தது? இப்பொழுது அதன் வளர்ச்சி எப்படி உள்ளது?

முதன்முதலில் சாரல் தமிழ் மன்றம் தொடங்கிய போது மாணவர்களின் எண்ணிக்கை குறைவாகவே இருந்தது ஏனென்றால் அப்பொழுது நகர்ப்புற மாணவர்கள் அதிகமாக இருந்தார்கள். ஆனால் இப்பொழுது கிராமப்புற மாணவர்கள் மற்றும் அரசுப் பள்ளிகளில் பயின்ற மாணவர்களும் உள்ளதால் ,மேலும் அவர்கள் தமிழ் மீது கொண்ட ஆர்வத்தின் காரணமாக தமிழ் மன்றத்தில் மாணவர்களின் எண்ணிக்கை அதிகமாகவே உள்ளது.

7.சாரல் தமிழ் மன்றத்தின் சாதனை என நீங்கள் எதை நினைக்கிறீர்கள்?

சாரல் மன்றத்தில் நாம் எடுத்து வைக்கும் ஒவ்வொரு அடியும் சாதனைதான். தனக்கு தமிழ் தெரியும் என்று கூறினால் அதனை அவமானமாக நினைப்பார்களோ என்ற நிலை மாறி ,அனைவரையும் தமிழில் பேச வைத்ததற்கு காரணம் இந்த தமிழ் மன்றம் தான். பள்ளிக் காலங்களில் நான் மேடை ஏறி பேசியதில்லை எனக் கூறிய பல மாணவர்கள் இந்த மன்றத்தின் மூலமாக தைரியமாக மேடை ஏறி பேசுகிறார்கள். மேலும் கவிதை ,கட்டுரை மற்றும் சிறுகதைகளையும் எழுதுகிறார்கள். இந்த தமிழ் மன்றத்தில் பறை, சிலம்பம் மற்றும் கரகம் போன்றவைகளும் கற்றுத்தரப்படுகிறது .மாணவர்கள் இதை கற்றுக்கொள்வதோடு மட்டும் விட்டுவிடாமல் பல கல்லூரிகளுக்கு சென்று கலை நிகழ்ச்சிகளில் கலந்து கொண்டு பரிசுகளை வென்று இருக்கிறார்கள். இவை அனைத்துமே சாரல் மன்றத்தின் சாதனைகள்தான்.

8. இந்த சாரல் தமிழ் மன்றத்திற்கு தேவையான பொருளாதார செலவுகளை நீங்கள் எவ்வாறு சமாளிக்கிறீர்கள் ?

ஆரம்ப காலகட்டத்தில் மற்ற மன்றங்களைப் போல் வெளியிலிருந்து வந்த ஆதரவால் தான் இந்த தமிழ் மன்றம் இயங்கிக் கொண்டிருந்தது. பின்னர் புதிய தலைமுறை என்ற செய்தி தொகுப்பு முதன்முதலில் புதிய தலைமுறை என்ற புத்தகத்தை இரண்டு வாரத்திற்கு ஒரு முறை வெளியிட்டது. இந்த புத்தகத்தை மாணவர்களிடம் பிரபலப்படுத்த வேண்டும் என்பதற்காக சில விழாக்களை அவர்கள் நடத்தினார்கள் . அதற்கான பரிசுப் பொருட்களையும் அவர்களே வழங்கினார்கள். அதன் பிறகே புதிய தலைமுறை என்று செய்தி தொகுப்பு ஆரம்பிக்கப்பட்டது.பின்னர் நான்கு தமிழ் பேசக்கூடிய பெண்களுக்கு வேலை வாய்ப்பு தருகிறோம் எனவும் விளம்பரப்படுத்தினார்கள். அவர்களின் முக்கிய நோக்கம் என்னவென்றால் பல மாணவர்களுக்கு தமிழ் மொழி மீது ஆர்வம் வர வைக்க வேண்டும் என்பதுதான்.

அதன்பிறகு தமிழ் மீது ஆர்வம் உள்ள பலரிடம் இருந்து இந்த தமிழ் மன்றத்தை இயக்குவதற்கான ஆதரவு கிடைத்தது. மேலும் பல மாணவர்களின் பெற்றோர்கள் தமிழ் மீது பற்று கொண்டிருந்த காரணத்தினால் அவர்களிடம் இருந்து ஆதரவு கிடைத்தது. இவ்வாறு சாரல் தமிழ் மன்றத்தின் பொருளாதாரத்தை சமாளிக்க முடிந்தது.

"மகிழ்ச்சி என்பது ஒரு மனிதனுக்கு இருக்கும் பொக்கிஷம்! எவ்வளவு அதிகமாக பகிர்கிறீர்களோ, அவ்வளவு அதிகமாக வளரும்!!"

Students Corner

Sports Achievements

The Anna university team won Bronze medal in ALL INDIA INTER UNIVERSITY CHESS TOURNAMENT by getting silver in SOUTH ZONE INTER UNIVERSITY CHESS TOURNAMENT and Thaga Sheriff, 2nd Year bagged the 1st Board - runner up prize.

Sakthi Santhosh C , 2nd year- Sports Captain, along with our collge cricket team won Runners up in Cricket tournament conducted by RMK College of Engineering

College Sports Day Awardees

Long Jump
M Sam Alan Anthony,3rd Year- Gold

Carrom
Kaviya S, 3rd Year - Silver

Table Tennis
Vinu Varshath S,3rd year - Silver

Interyear Men's Football
Kumaresh Natarajan, 2nd Year - Silver
Sasikaran S, 2nd Year- Silver

Men's Badminton
Aman Panjiyar, 2nd Year - Silver

Men's Tennis
Rajadurai S, 3rd Year - Silver

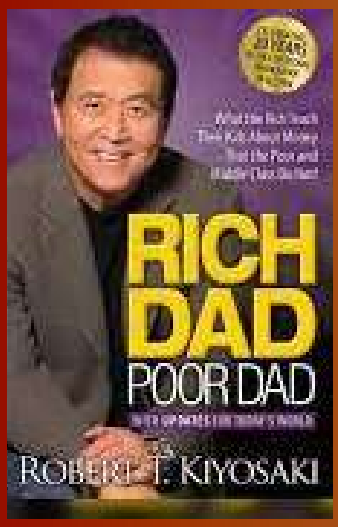
Men's High Jump
Ganesh Raja MR,2nd Year - Bronze

"WINNING ISN'T GETTING AHEAD OF OTHERS. IT'S GETTING AHEAD OF YOURSELF."

The Writers Point

Book Review- Rich Dad Poor Dad

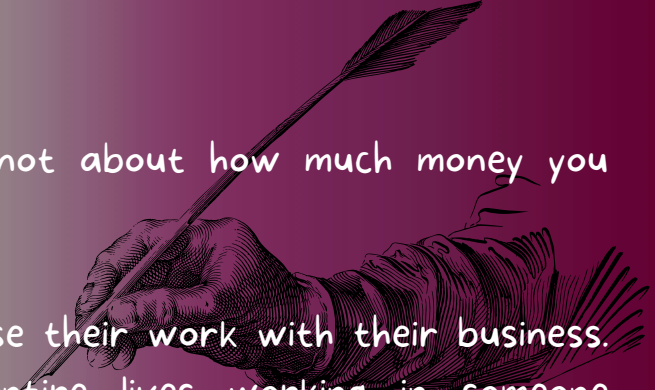
Rich dad poor dad is a book written by Robert T. Kiyosaki and Sharon Lechter in 1997. This book covers the financial aspect. The author, Robert has written about the two different point of views. One of them is from the rich dad's point of view and other is from the poor dad's point of view. Poor dad is his biological father and rich dad is his friend, Mike's father.



Robert was confused and not clear in choosing the idea among the two dads. The reason behind this confusion is because the advice of both the dads were completely contradicting. One advised him to study well, secure good grades and get into a safe job with a lot of benefit, other one advised an entirely different method of making money. Both the dads had tremendous respect for education and learning.

According to the rich dad, the traditional method of learning, ie., sending your children to school and securing good grades are not the ways to become rich, they are the ways to work for money. He believes making money work for them requires a different technique of learning and Robert did learn that from the rich dad. Rich dad explained this point of view over and over: "The poor and the middle class work for money. The rich have money work for them."

This book explains the way how rich people work to make money entirely different from the way common people do and describes the difference between wealth and debt.



It draws home the point that it is not about how much money you make, but about how much you save.

Robert states that many people confuse their work with their business. In other words, they spend their entire lives working in someone else's business and making other people rich. Rich people invent money, other people work for them to earn the money. The author states "The single most powerful asset we all have is our mind. If it is trained well, it can create enormous wealth."

Subsequent chapters have elaborated on tax advice. The author states that the rich understand power of company structure and tax code and every legal means to minimize the tax burden. Even though rich people earn more, middle and lower class pay more tax. There are 2 types of investors: Investment packages and Professional investors. They explain the different methods how people invest. Technical skills of financial skills- Accounting, Investing, Understanding markets, Law are discussed in brief.

Reading this book has helped me to understand the importance of learning. The details about money given in this book are incredible. One can understand why some people become rich and some people remain poor. This book inspired me and was an eye opener regarding financial aspects and the different ways how to learn efficiently. This book helps us to develop our own path of freedom. Reading this book at an early age will definitely help to understand how financial systems can be managed personally. This is a highly recommended book if you really want to get a good grasp on financial management and earning.

- Deeikshanya S
2nd year EEE-A

"EXCESSIVE FEAR AND SELF-DOUBT THAT WERE THE GREATEST DETRACTORS OF PERSONAL GENIUS."

Human Perceptions and Logarithms

Lately I have been struck by the deep realisation that a very slow but profound change has been sneaking up on me : the years that formerly crawled are now racing by. Where are the long, restful winters I knew as a schoolgirl? If it seemed like forever to get through the fifth grade, what happened to last year? Why do we now seem so rushed by life? Where are all the things we wanted to accomplish, but never seemed to find time for?

Let's rewind. Back in the nineteenth century, a very general description of sensory perception was developed by Earnest Heinrich Weber and Gustov Theodore Frechner, known as "Weber - Frechner law" . Weber found that,

over a range of stimulus intensity, the minimum amount by which stimulus must be changed for the change to be noticed is directly proportional to the stimulus. After rediscovering the relationship, Frechner showed that this indicated that the intensity of sensation is proportional to the logarithm of the intensity of stimulus.

$\Delta I/I = K$

Where K is the constant.

I is the intensity of stimulus. And ΔI is the change in the intensity of stimulus.

But wait! What does that even imply? It forms the mathematical ground for the Logtime hypothesis, which when put in simple words implies that human perception is Logarithmic. The Logtime hypothesis is consistent with the widely accepted

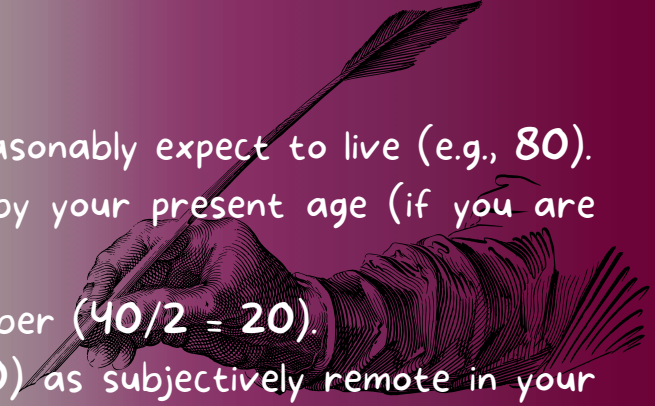
description of perception of physical stimuli like the loudness of sound as being Logarithmic in nature. Human mind judges the length of a long period of time such as a year by comparing it with the current age. For example, a year adds 10% to the life of a ten-year-old, by 5% to that of a twenty-year-old. For the twenty year old two years are required to add 10%.

The Logtime hypothesis is that it is this percentage that we perceive not the yearsthemselves! To the twenty-year-old , two years will seem to pass as quickly as one year for a ten-year-old. Similarly three years to a thirty-year-old and four years to a forty-year-old and so on.

Time and again studies show that Mind time and Clock time are different. Our subjective experience of a linear clock time is logarithmic , stretched out at the low end and compressed at the high end. Exiled from the objective nature of time, our subjective reality of time is a manifestation of our mind. Yes you read it right. Your time is happening in your mind's eye.

Is that old saying "life is short" starting to make sense? Since we seem to be hurtling toward oblivion at an accelerating pace, an obvious question is: how much time do we have left on our subjective scale, i.e., how much longer will life seem to last?

At the risk of further depressing the reader, a simple way to more precisely judge the time remaining is to perform the following calculations:



1. Assume an age to which you may reasonably expect to live (e.g., 80).
2. Divide this assumed age of death by your present age (if you are 40, then 80/40 = 2).
3. Divide your present age by this number (40/2 = 20).
4. The result is a "reference age" (20) as subjectively remote in your past as your assumed age of death (80) is in your future. Consider the years from that point in your life (age 20) to the present (age 40): the time you have left (40 to 80) should seem about as long.
5. Your present age is the geometric mean of the reference age and the assumed age of death, and becomes closer to the arithmetic mean as your present age approaches the latter. In old age, therefore, you can assume linearity: each future year will seem almost as long as each past year back to the reference age. (In other words, the worst is over!)

As we navigate through this discussion, we can not ignore many crucial and unanswered questions.

What is being compared? Is there a real biological clock counting the days, or is the flow of data into the brain used . Is the experience of time itself logarithmic or is it the retrospection of experience that is logarithmic? How does one's health, particularly relating to memory, affect time perception? And why does it happen at all? What is the need of perceiving Logarithmically?

Surely a rich and exciting field of investigation drawing use of insights from a multitude of domains of science and philosophy.

– *Maleeha Bhatt*
2nd year EEE-A

"PERCEPTION PRECEDES REALITY."

A Corner to Ponder- II

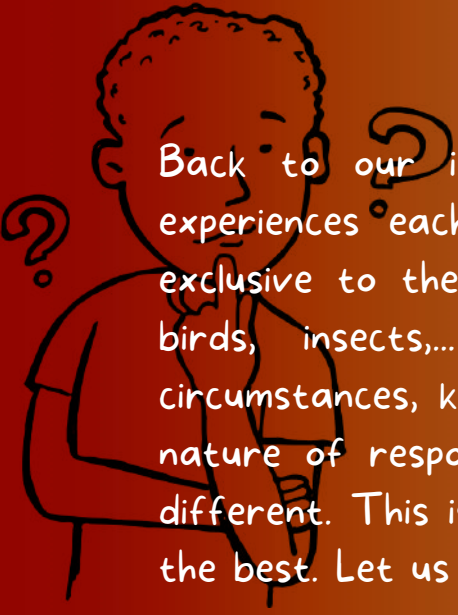
Identity- The only invaluable asset

A very warm welcome to the second installment in the 'A Corner to Ponder' series. It's really gratifying to have you here. This edition marks the beginning of a new era of REDEEEM magazines under the direction of a new team. So let's make this quite the read.

Everyone is born as a formatted storage drive- clean and ready to fill in all the empty space with memories, experiences and internal thought process. These factors are what tip the scales in one's thinking process. They subconsciously modify one's thought stream and when that process goes on for a considerable amount of time, it begins to define one's character.

A prevalent topic when conversing about identity is the concept of an 'identity crisis'. Identity crisis, put in simple terms, is when a person doesn't know who they are (Though I am not sure you can answer that question with any given resource).

It is perfectly normal for us, young adults, to not know how to respond to certain situations or emotions, even ones of extreme self-doubt. Just think of it this way- the space in your storage drive is just half filled. There is still a world's worth of experiences to go through, both good and bad. And by the time you're done with that journey, I am sure that there is a high chance your question is answered.

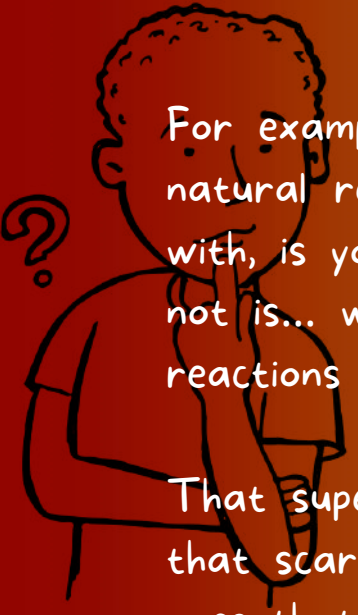


Back to our initial topic. Everyone swims their own sea- the experiences each individual goes through is completely unique and exclusive to them alone. When two beings (be it humans, animals, birds, insects,... you name it) are put through the same circumstances, keeping the test environment completely identical, the nature of response (or the response itself) is at times completely different. This is a very natural reaction and sometimes, works for the best. Let us try understanding why this is the way it is.

The decision that an individual takes is affected by numerous reasons- in rational beings, it may be affected by the values they are taught or rather, the values that they've caught over the years, the weightage they give to the society they live in, their role in said society, the past experiences they've had with the same or a similar situation, the effect of several other environmentalfactors, their mindset at that given moment... as you might've realized by now, the list doesn't seem to end... This, along with the billion other decisions they've taken along their own path molds a person's brain and influences all their forthcoming actions. It is totally normal and a positive reaction arising from a cognitive thought process.

These actions, both subconscious and fully focussed ones, are the starting steps in defining a 'you'. So by now, we've reached the conclusion that the only person that defines you is you alone, along with all the experiences you've had and your reactions to each and every one of them.

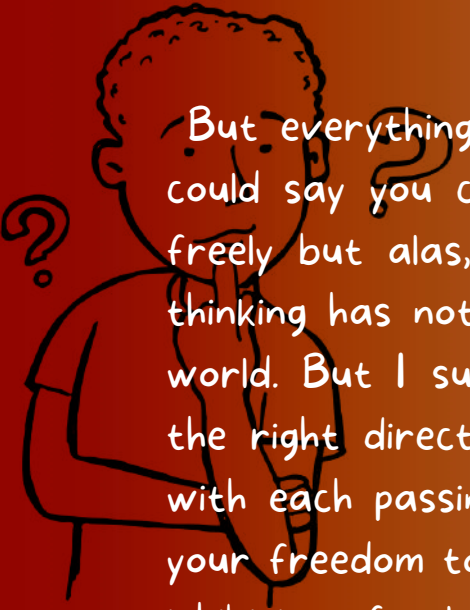
So your response to a given situation is unique to you alone. Granted, people might sometimes do the same thing.



For example, let's say you're face to face with a tiger... the natural response you or anyone in that situation will end up with, is your mind yelling at you to 'Run'. Whether you do or not is... well, a topic for another day :) . Your unique set of reactions define who you are. That's what makes you, well, you.

That superset includes your reaction to things you hate, ones that scare you, ones that make you go weak in the knees, or ones that increase your Dopamine. As I've said countless times before(in this same article), your responses are unique. They don't have to agree to all the norms laid by one (or all) society(-ies). To argue, imagine how boring the world would be if there was only one original person, you, and all others are copies of you again. Yeah, now you realize it. No standards set by someone else have to accommodate you. You set your own standards, your own rules, your own responses to everything in your life. I strongly emphasize that if something makes you happy, it doesn't have to make sense to anybody else.

Now that we've said all that, we also have to emphasize on being oneself. This is nothing new to any of you. There is absolutely no point in imitating others. You are just borrowing a cheap, imperfect copy of their character which will just fade away with time. There will always come a time when you will be required to fill in as someone else. But trust me when I say, that never works. Because the real you, your set of coded character-data will always come to the spotlight in the end. A better alternative is to freely exercise your own magic to face any stumble life might throw at you. Though incomplete, it is yours right from the roots and no one can steal (or replace) that from you.



But everything in reality isn't all sunshine and daisies. I wish I could say you can express your affinity to anything or anyone freely but alas, things aren't that free just yet. The way of thinking has not "modernized" yet in many countries across the world. But I sure can assure you that the world is heading in the right direction for now, with countries changing their laws with each passing day, gradually bringing the world in-tune with your freedom to express your likes and dislikes, attachments and inhibitions freely.

I think it's time to wrap this up so let's get right to it. You are who you want to be. Given the right guidance and an ample amount of time, I'm sure the golden version of each and every one of you will shine so bright, blinding the rest of the world in your aura. In short, you are the only one in the driver's seat. Make sure you turn the wheel in the right direction so that the scenery around you is something you'd love to live the rest of your life in. I wish all of you the best of luck in your journey to find the real you!

- Pranav A
2nd year EEE-A

A VERY VERY HAPPY PRIDE MONTH Y'ALL !

Vantage Of Verses

YOU

I sit still, Take out a quill,
Filled with ink, Glowing in dark.
To write something optimistic.
I replay the day,
Moments and minutes.
I couldn't ever trace you.
Yet, all I could write about is 'you',
Those angelic eyes

I turn on the radio.
To sing along and frolic,
Yet, all I could dream about is 'us',
Dancing on a rainy night,
In the candle light,
Hands and souls intertwined.

I go to the garden,
To water the crotons.
And relish the sunset.
Yet, all I could think about, is 'you'.
Passing love notes,
With no words.

I sit near the window,
To look at the crescent,
And trying not to commit the sin,
Of Leaving it unadmired.
Yet, dear!!
All I couldsee is 'us'.
Whispering darkest secrets,
Into unveiled souls.

- *Himasai Thupakula*
2nd year

WHERE TO?

Where to? I ask my fast fleeting foot!
Strolling through those tides and slides,
Ambitiously seeking the finish line!
What's victory, the reach or the breach?

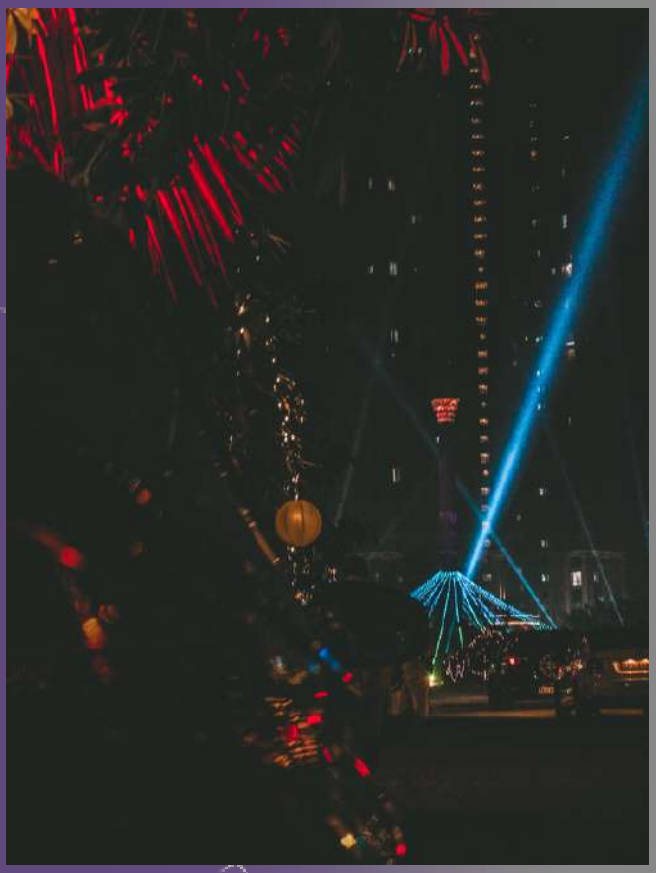
Where to? I ask my hastily hurried hands!
Moving in sync with the ticking trio on the wall,
Thriving towards a never-ending eight hour!
Who decides, If I should make or break?

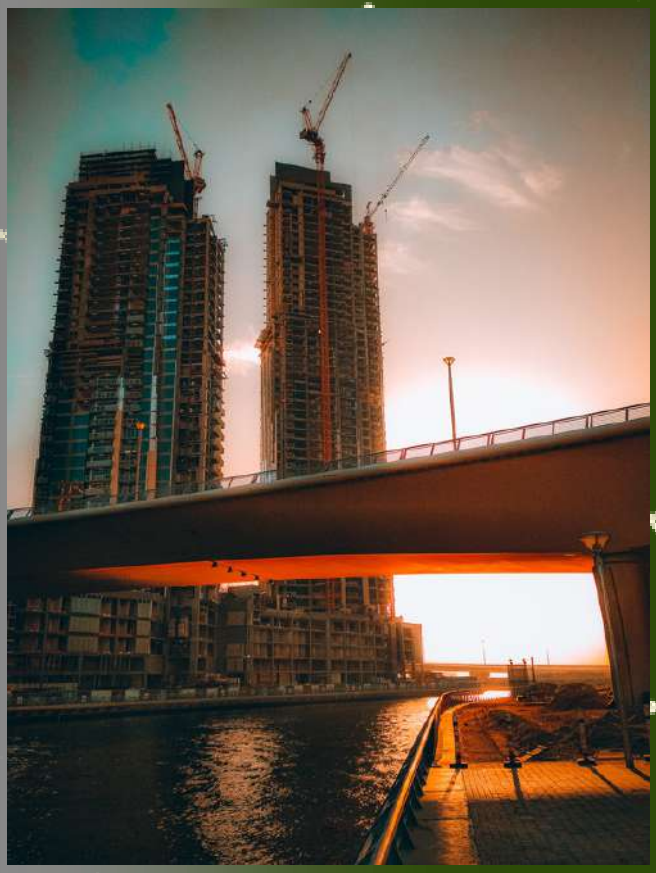
Where to? I ask my muddled mind!
Running around hopelessly, to get through!
A voice so loud that never has a say!
Who gives the call, to stay in line or to shine?

Where to? I ask my bewildered heart!
Each beat like an awakening drum roll!
Racing calmly, it whispers into my soul,
It's you, who decides where to....!

- Harshvardhini Madhiazhagan
2nd year

Mystic Lenses





– Kumaresh Natarajan
2nd year

Mystic Lenses

– Manikandan Selvaraj
2nd year

Mystic Lenses

– Jayachandran
2nd year

– Sai Akash
3nd year

"TAKING PICTURES IS SAVORING LIFE INTENSELY, EVERY HUNDREDTH OF A SECOND."

.The Degree Aftermath.

Placements, Internships, Higher Studies – Tips from the best!

#1 PLACEMENT TALK

- Madhusudan Saranathan, IVth Year

Company: Wood PLC (Wood India Engineering & Projects Private Limited)
Role: Graduate Engineer Trainee - Electrical
Category: Dream (Core)
Type: Core – Electrical Engineering
Description: FTE
CTC: 4.8 LPA

Wood PLC is a British multinational consultancy, engineering and project management company. Wood PLC in India gets a lot of projects pertaining to oil and gas. Responsibility of an electrical engineer is to create a distribution network right from a 33kV substation to 415 V rated loads (Few deliverables include SLDs, Cable sizing and Routing, Earthing layout, Lighting, Substation Layout, Load List, Hazardous Area classification and so on). The placement process for WOOD was held OFFLINE at the CDC. The recruitment process with Wood started with a pre-placement talk briefing the objectives of the company and details on the role that is being offered by them.

STAGE 1 – APTITUDE AND TECHNICAL TEST:

An aptitude test was conducted for 30 minutes which consisted of questions testing out quantitative aptitude, verbal aptitude and logical reasoning. The difficulty level was moderate and the quants questions required time to solve. Post aptitude test, we had our technical assessment which comprised of MCQ and descriptive type questions. Questions were from Transmission & Distribution (skin effect, Ferranti effect, proximity effect, cables – construction/grading), Protection of Power systems [Circuit Breaker (Types of breakers, breaker time), Evaluation of short circuit current], Transformers (performance parameters), Induction machine and few questions pertaining to simulation softwares (EMTP/PSS/Power Factory).

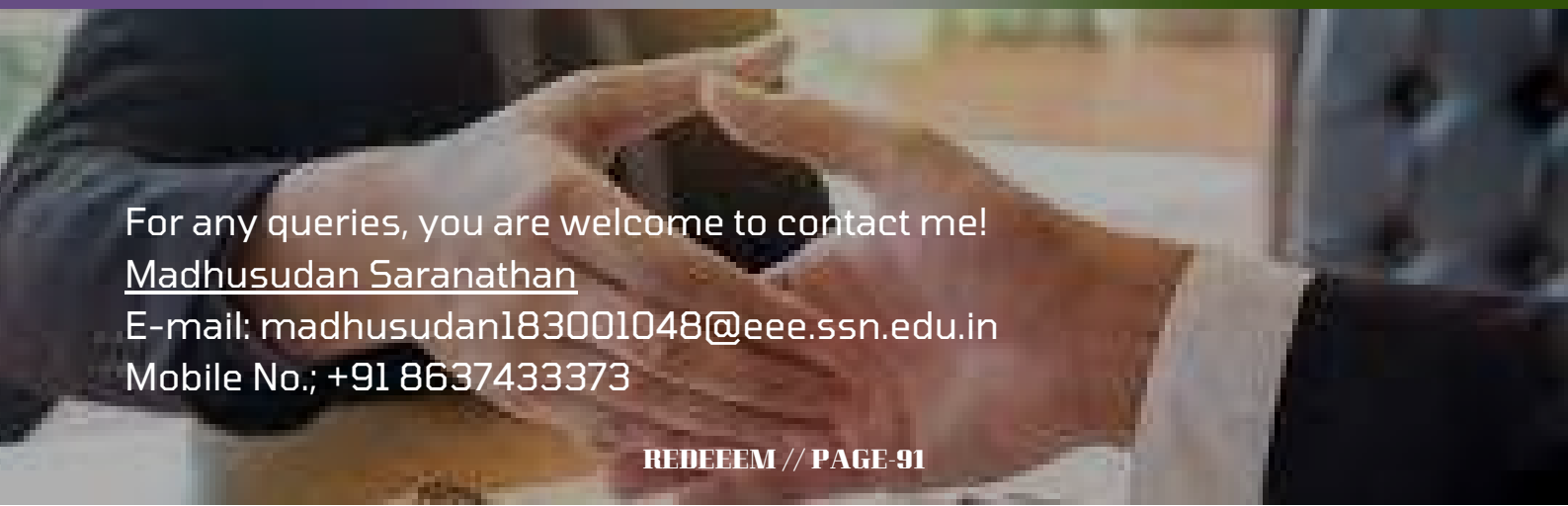
In descriptive questions we had to:

- Draw a layout of a transformer and label any five parts of it. (It'd be better if you could label everything you know and not restrict to the given number)
- Draw a house plan with optimal lighting placement given dimensions of the house. The question also asked us to pictorially depict at least one appliance in the room. (This question was asked to test us on how we practically apply a few concepts we learn, in household and how observant we are. They don't go in deep while evaluating)

Shortlisting to the next round was based on our cumulative performance in Stage 1.

STAGE 2 – TECHNICAL & HR INTERVIEW:

The interviewer was at Wood's HoD-Electrical division. He was kind and soft spoken. The whole interview was more of a technical discussion on various electrical concepts. Initially, I was asked to reason out my answers for a few questions that were asked in the technical test and was given a chance to ponder upon questions I got wrong in the test. I was also asked questions based on my projects and achievements that were listed in my resume. The interview went for about 45 to 50 mins. My HR interview happened simultaneously where I was asked questions about my family. Questions on why I didn't write GATE/ pursue masters abroad came up during the interview. The whole process takes a lot of time and requires patience (results came out on the same day, so we had to wait until then). A solid grasp on basic "electrical" concepts and being cool-headed would be helpful in acing the placement process with WOOD.



For any queries, you are welcome to contact me!
Madhusudan Saranathan
E-mail: madhusudan183001048@eee.ssn.edu.in
Mobile No.; +91 8637433373

#2 THE INTERN STORY

Internship Experience - Mckinsey & Company

- Hari Prasath S, IVth Year

Name: Hari Prasath S
Organisation: McKinsey & Company
Stipend: 60000
Role (FTE): Junior Capabilities and Insights Analyst

I am a Capabilities and Insights Intern in B2C pricing practice. McKinsey, as the name suggests, has a lot of expectations and values. Providing deliverables before deadlines, Problem solving, increasing my knowledge, solving client's problems and providing perspectives are the key aspects to focus on. It was a high work pressure environment, with people expecting us to do things efficiently and correctly within a short span of time.

I had all these in mind, on my first day as an intern. My goals were to understand the methodology and doing things the McKinsey way. Since, there was a career path switch from electronics to data analytics, I didn't expect much on my technical part but ended up learning way more than what I expected. All those Problem Solving calls with the experts and specialists made me look into things with a new perspective. Looking back, I can proudly say that, I've adapted to this lifestyle well, understanding the granularity and the seriousness of the mistakes and problems and solving it in an optimized way. This Internship, was an eye opener for me, as I understood the corporate way of doing things and this will definitely help me in my career

My Experience at Microchip Technologies

- Parithi R , IVth year

Name: Parithi R
Department: EEE (batch 2018-2022)
Company : Microchip Technologies
Type: Core
On Campus /Off Campus: On Campus
Stipend: 21,000 per month

I was placed in Microchip Technologies via on campus placement. It was an Intern+FTE offer. My internship at microchip commenced on 23th February of this year. Initially, it was an online internship for a month due to covid restrictions and after April it was converted to an In-office internship.

While I was an online intern, I was given enough time to brush up the necessary skills needed for the role. I was assigned to a project based on the PCIe protocol and I was given some individual tasks in the project. My team was so helpful and they provided necessary guidance to understand the project and my tasks. Once I started going In-office, I started exploring the hands-on experience of my project. And I was also allowed to spend quite some time understanding the PCIe protocol as my project was based on that protocol. I spent 2-3 weeks on that and in the end of that learning, I set up a knowledge transfer session for my team to share my understanding and learning outcomes with them. I was provided with various courses related to company policies and corporate guidelines which were so helpful for me to understand the company better. And I also took a Lab guidelines test to gain access to the lab.

From May onwards, I started providing my maximum bandwidth into my task. While working on that task, I learnt windows driver development, various concepts of OS and hardware-software interaction. Apart from the technical aspects, the working environment was so good. The people were nice here. And the company was so caring about their employees. In conclusion, my internship which I'm currently doing here at microchip is great. It helped me gain a lot of knowledge in the vast sea of electronics, gave me the opportunity to work hands-on on some of the leading technologies and it gave me a good work-life balance.
Thanks, SSN CDC and Microchip Technologies for providing me with this wonderful Opportunity

#3 CRACKING THE MASTER'S CODE!

M.S. Experience and tips - North Carolina State University!

- Ashwini Muralidharan , IVth Year

Applying to a Graduate school in the United States in pursuit of higher education is both tedious and taxing. It requires a number of steps, both before and after acceptance from a university. Students in their final or pre-final years who are considering getting their Master's in the US are sometimes confused by the entire process due to a general lack of awareness and assistance from seniors. That need not necessarily be the case in this journey, especially when one plans ahead and takes things one step at a time.

The first step begins with deciding on the degree and coursework you want to pursue and the major associated with it. It involves both gathering experience from people studying and working in the field and understanding whether you personally have interest in it or not. The next stage is to narrow down the universities to which you wish to apply. This is a key phase because each university application costs between $80 and $150. It may be impracticable to apply to every institution you desire, so you will have to pick certain universities. Visit each university's required department's website and look at the research areas they focus on, their coursework, the labs and research infrastructure they have, the professors and their research concentration, the peer network, the scholarships they offer, tuition fees, graduate requirements, and, most importantly, the deadline for application submission. An ideal list would contain around 7-9 universities, out of which at least 2 should be high-ranked, ambitious universities (ones that are somewhat above your profile, but not impossible to obtain), 3 moderate universities (those that meet your profile and are likely to accept you), and 3 safe universities (ones that are below your profile and are very likely to accept you).

The next step is to take the standardized exams, which include the GRE (Graduate Record Examinations) and the TOEFL (Test of English as a Foreign Language). Due to the pandemic circumstances, most institutions have waived the GRE. Nonetheless, it is strongly suggested to take it up as many universities would consider it if you send them your scores. The TOEFL, on the other hand, is required for all students because we are from a non-native English-speaking country. I would also recommend that you take these exams in a testing center, as home tests have been condemned for being fraudulent.

The TOEFL, on the other hand, is required for all students because we are from a non-native English-speaking country. I would also recommend that you take these exams in a testing center, as home tests have been condemned for being fraudulent.

It is advisable to take the GRE during the months of June-July with 2 months of preparation. Further, take TOEFL a month or 2 after the GRE exam with sufficient preparation. Another benefit of choosing universities before taking these exams is that the GRE and TOEFL allow you to send free test results to a maximum of 5 universities, which would normally cost roughly $27 per university. These universities are to be entered at the time of the examination, and if you have already decided, it saves you a lot of money.

Next, begin applying to all colleges through their graduate admissions websites. Fill out the basic personal and academic information. The Resume, Statement of Purpose (SoP), Transcript, and Letters of Recommendation (LoR) are some of the most typical and critical documents you will need to upload. Your graduate school resume will be very different from your professional resume. Transcripts may be obtained from the college"s Exam cell, which you will need to scan and upload. The SOP plays the most significant role in your graduate admission, hence it must be crafted diligently because it is the sole direct interaction between you and the admissions committee. Each institution has its own SOP specifications, so you'll have to tailor your SOP to meet the requirements of each and every university. Do not copy any pre-existing SoP from the internet or from your seniors - it is the fastest way you will get rejected. Next, you will require at least three letters of recommendation.

Make sure the recommenders are people you've known for a long time. It would be preferable if you had done research projects under their supervision and they have taught you in class. Universities often favour Academic LoRs over Professional LoRs and hence, it is suggested that you do not submit more than one professional LoR.

Once all these documents are ready, upload them in respective university application portals and submit them by paying the application fee. It is recommended to submit the applications at least a month before your priority deadline of applications, and even earlier for the universities that have rolling admissions (admits based on first-come, first-served basis). The procedure that follows the admission is just as exhausting as the one that preceded it.

It entails receiving a financial statement from the bank and forwarding it to the university so that they can complete your i20 documentation, which will allow you to apply for the necessary F1 (student) visa. Finally, following the interview, you receive your visa, hunt for a place to reside outside of campus (since on-campus services are generally highly expensive), buy the necessary items, and move to the United States for your masters. These were the key phases of my master's journey and it successfully resulted in my admission into. North Carolina State University, at the department of Electrical Engineering. It may seem overwhelming, but it is a gradual process that ultimately culminates to fruition

Graduate Program at Georgia Institute of Technology!

- SWETHA S, 4th Year

Due to my interest in electronics and VLSI design in specific, I chose to apply for the graduate program to pursue in the US as it is ranked high in the technology world. Apart from this, a master's degree is favoured for a VLSI design, which also pushed me into looking at this as a favourable path moving forward from my undergraduate college.

I started by preparing for the GRE. It is divided into 3 sections: Verbal, Quantitative and Analytical writing analysis. I spent most of my verbal preparation learning a bunch of vocabulary by using flashcards. As I have a weakness in data analytics, I practised a lot of quantitative problems. In general, I took a lot of practice tests and learnt strategies to approach my mistakes from YouTube videos. I took my exam in October and got a score of 317 and a 4.5 in AWA. Based on my profile and GRE score, I chose to apply to 8 public universities in the US, 4 ambitious reach, 2 moderate reach and 2 safe reach. I chose them based on each university based on the research topics under professors and also prospective job opportunities post-graduation.

They all required a statement of purpose, three letters of recommendation, and a resume. I spent around a month finalizing my SOP as I wanted to get various opinions from my seniors who had done this before. I used Grammarly to double-check the semantics of my SOP.

"The only thing standing between you and outrageous success is continous progress"

- Dan Waldschmidt

It was a bit challenging to limit my words to about 700 words as that did not leave much room to get into a lot of detail. I got my letters of recommendation from two of my professors from the department and one from my internship. I had been editing my resume regularly, which came in clutch at the end. I had finished my application process around mid-December, and it was time to just wait as you hear back from universities only around march-April. By the end I had gotten 2 rejects and 6 admits, one of them being my dream university, Georgia Institute of Technology, which is where I plan to attend for Fall 2022. Post-admits season, I had chosen my university and now had to apply for an I20 to get my student VISA, which is still ongoing. Overall, this process was a bit stressful but definitely rewarding in the end!

.ALUMNI SPEAKS.

The joys and perils of life abroad

- Prajay Raghu
Batch of '16

Moving abroad and starting over in a new country is one of the most challenging yet exhilarating experiences one can go through. Life as you know it will change – and we're not just talking about addresses and your laundry detergent. You're thrown into a sea of change as you're forced to battle with some familiar inhibitions but mostly unfamiliar expectations.

I've lived in Berlin and Amsterdam over the last six years with brief stints in London, New York City and Bangalore. I've truly loved my time in all these cities and am constantly thankful for the privilege I've had in being able to have different kinds of experiences that have shaped me into the person I am today.

Apart from teaching you vital survival skills, living abroad empowers you with financial stability, strong personal development, and friends for life from all over the world. I'm going to particularly highlight some of my most important lived values that I experienced during the last four years.

The good stuff

Patience - When I first moved to Germany, I was taken aback at the amount of due process and redtape that was required to integrate into the system. Some people adjust quickly and some take longer, but I learned the hard way that patience is one of the most important virtues that help you get settled in quickly. Whether it's ordering a meal or opening a bank account or learning directions or making friends, the ability to keep hustling and remain optimistically patient often makes a world of difference.

Agency - Life abroad empowers you to be your own boss. The ratio of risk to reward remains consistently high. You are the architect of your dreams and the sole owner of your decisions. Success and failure of outcomes matter less. What matters more is ownership and controlling the process to set up the right frameworks for decision-making in your life. The freedom that comes inherently from these situations is an important hallmark of who you choose to be as a person and what you do with your life.

Acceptance - A large part of life abroad is learning to fight your internal battles. It forces you to step out of your comfort zone and think objectively. The people you meet and the experiences you face demand openness and acceptance. The intersection of rich cultures and diverse perspectives enable you to reckon with your pre-conceived notions, do away with rigid opinions, and inform a non-negotiable ethos of inclusivity and acceptance.

Chasing the stories - The thrill of the unknown and the promise of new places always brings about a strong sense of excitement and hope. Living abroad will give you stories to tell for the rest of your life. The sub-conscious skills you develop include the ability to have great conversations, interact effortlessly with new groups of people, unwavering maturity, and a high degree of independence.

Mindset and preparedness - Once you cross the initial few hurdles of settling in, the days go by quickly and you start becoming a professional problem solver without even realising it. You are endowed with a sense of indelible confidence and you naturally work on solving higher quality problems in your life. Going through challenges in a foreign land instills some core values like generosity and integrity because you realize how difficult it is to do things initially without help. It makes you want to help others and pay it forward. Life comes full circle when you go from the slightly anxious newcomer to the seasoned veteran who actively guides people with commonly faced problems.

"THE ONLY TIME YOU SHOULD LOOK BACK, IS TO SEE HOW FAR YOU HAVE COME!"

The not-so-good stuff

Home is where the heart is - One of the biggest downsides to living abroad is that being away from family never gets easier. One of the most bitter pills to swallow is knowing that life back home goes on with or without you. You will miss festivals and birthdays of friends and family. There will be renewed nostalgia on video calls or when you have cravings for dosa in a foreign land. Even when you do visit for a short stint, goodbyes never get easier - because it always feels like you're leaving a part of yourself back in the place that you've known all your life. There is a new-found appreciation for the life you left behind, and a strong urge to make the most of every moment whenever there is a chance to relive it.

All is not rosy however - with travel, new places and new people, it never is. The more places you see, the more you realise that no one place has them all. You are left longing for pieces of different memories that you experienced in different places. This dichotomy extends to people and relationships too. The more time you spend abroad with a large international community, the more numerous and profoundly varied your experiences are - to the point that you now have multiple ideas of home. The relationships you've cultivated across continents have spread their roots deep enough for you to feel like you belong in two different places at the same time, and not feeling completely connected in either.

Conclusion

This is not to say that it good or bad because preferences, goals and circumstances differ greatly in each of our lives. My intention through this article is to present a realistic view of what my experiences were. The important thing though is that the same experience might be different for each of us, and the only way to find out what we like is by experimenting without fear. I would strongly urge those who have the means to spend some time abroad, because the joy of finding yourself and turning the unknown into your backyard is truly unparalleled. The life lessons you learn stick with you for life.

If we're all on this planet for typically no longer than 70 years, what are we really doing if we're not chasing our dreams, doing right by the people we love, and being happy?

"THE BAD NEWS IS TIME FLIES.
THE GOOD NEWS IS YOU'RE THE PILOT."

Placement Report

Name	Company Placed	Category	Type	CTC (in LPA)	Job Description	Job Role
S.Aarthi	L and T construction	Dream	Core	6	FTE	GET
Abarna.A	Mr.Cooper	Dream	IT	6	Intern+FTE	Analyst-Trainee
Abhinaya R	CTS	Regular	IT	4.5	Intern+FTE	Programmer Analyst Trainee
Abitha R	Cognizant	Regular	IT	4	Intern+FTE	Programmer Analyst Trainee
Aishwarya Srinivasan	Deloitte	Dream	IT	7.6	FTE	Analyst
Akalya A	Cognizant	Regular	IT	4	Intern+FTE	Programmer analyst trainee
Sujit Aluru	LTI	Dream	IT	6.5	FTE	GET
Anand Kumar M	Wipro	Regular	IT	3.5	FTE	Project Engineer
Anand Kumar M	WIPRO	Regular	IT	3.5	Intern+FTE	Project Engineer
Anusha Vasanthi V	Cognizant	Regular	IT	4	Intern+FTE	Programmer Analyst Trainee
Arjun.S	Comcast	Dream	IT	6	Intern+FTE	SDE
Avinash.k	MBit wireless	Dream	Core	7.5	FTE	Development Engineer
BALAJI R	MBIT WIRELESS	Dream	Core	5	FTE	Associate Engineer
BARATHKUMAR M	Presidio	Dream	IT	6.1	FTE	Associate Engineer
Cathirvel Balamurugan	Amadeus Software Labs	Super Dream	IT	11.77	Intern+FTE	Software Engineer - Development
Deekshitha S	Citibank	Super Dream	IT	13.81	FTE	Technical Analyst
Dhanush Gajaraj	Tazapay	Dream	IT	6.6	Intern+FTE	Software
Dharani T	O9 solutions	Dream	IT	9.11	FTE	Functional consultant
Dhivya devi B	O9 solutions	Dream	IT	9.11	FTE	Functional/technical consultant
Dhivyadharshini S	Cognizant	Dream	IT	6.75	Intern+FTE	Programmer Analyst
DINESHKUMAR.S	O9 Solutions	Dream	Management	9.11	FTE	Functional Consultant/Technical consultant(not specified)
Divya Bharathi.S	Hitachi Energy	Dream	Core	6	FTE	Management trainee
Divyashree D	Optum	Super Dream	IT	13.81	FTE	Software Engineer
Pa.Hari Krishna Achuthan	Deloitte	Dream	Management	7.6	FTE	Analyst
Harini C	ComCast	Dream	Core	6	Intern+FTE	CPE
V.Harini	Optum	Super Dream	IT	13.81	FTE	Software developer
Hari prasath.S	McKinsey	Super Dream	Management	10	Intern+FTE	Junior Analyst
Jayapriya S	Cognizant (Gen C)	Regular	IT	4	Intern+FTE	Programmer Analyst Trainee
Jeevitha D	Optum	Super Dream	IT	13.4	FTE	Software Engineer
Kaavyaa Shri S	Comcast	Dream	Core	6	Intern+FTE	Cyber security team
Kabilan C	Mphasis Limited	Dream	IT	6	FTE	Software Engineer
Keerthi Chidhamparanathan	Accenture	Dream	IT	9	FTE	Advanced Engineer
Koupendra D B	Salesforce	Super Dream	IT	11.9	Intern+FTE	Associate Technical Consultant
Koupendra D B	Salesforce	Super Dream	IT	11.9	Intern+FTE	Associate Technical Consultant
Krithika R	Presidio	Dream	IT	6.1	Intern+FTE	GET
LOGESHWARAN S	Mphasis	Dream	IT	6	FTE	Software engineer

Madhuri Shakya	Trane technologies	Dream	Core	6	Intern+FTE	GET
Madhuri Shakya	Trane technologies	Dream	Core	6	Intern+FTE	GET
Madhusudan Saranathan	Wood PLC	Dream	Core	4.8	FTE	GET - Electrical
Manikandan S	Softcrylic	Regular	IT	3.6	Intern+FTE	Software Engineer
Medarametla Venkata Sai Kiran	O9 Solutions	Dream	Management	9.11	FTE	Consultant
Mohamed Adhil	Tekion	Dream	IT	6	Intern+FTE	Front end developer
Mohammed Ashik S	MBit Wireless	Dream	Core	7.5	FTE	Development Engineer
Mujahith Thameem	Infosys	Regular	IT	3.6	Intern+FTE	Systems Engineer
Mujahith Thameem	Mphasis	Dream	IT	6	FTE	Software Engineer
A Muthiah	Latentview Analytics	Dream	IT	6.5	FTE	Data Analyst
Mythili M	O9 solutions	Dream	IT	9.1	FTE	Functional/Technical consultant
Navinsai Kaarthik T Y	Deloitte	Dream	IT	7.6	FTE	DAS
Neythra Jayaprakash	Optum	Super Dream	IT	13.8	FTE	Software Engineer
Nishitha Saraswathi A	Temenos	Dream	IT	6.3	Intern+FTE	Software engineer
Parithi R	Microchip	Super Dream	Core	10.55	Intern+FTE	Engineer I - Software (UNG Applications)
Prasanna Kumar T	McKinsey	Super Dream	Management	10	Intern+FTE	Junior Data Analyst
Praveen.W	Comcast	Dream	IT	8.25	Intern+FTE	Software developer
Ragavan	O9 solutions	Dream	Management	9.11	FTE	Technical/Functional consultant
T.V.Rajalakshmi	Optum	Super Dream	IT	13.81	Intern+FTE	Software Engineer
Ramya S	Accolite	Super Dream	IT	11	Intern+FTE	Software Engineer
Rengarajan S	Microchip	Super Dream	IT	10.55	Intern+FTE	Engineering 1- Software UNG Applications
Reshab S	Latentview analytics	Dream	IT	6.5	FTE	Analyst
Reshmika Janani M	Mbit Wireless	Dream	Core	7.5	FTE	Development Engineer
Retika M.K.	Comcast	Dream	Core	8.25	Intern+FTE	Development Engineer 1 (C&SP)
Rishikumar S	Comcast	Dream	Core	8.25	Intern+FTE	Cyber security
Sai Arun V	Deloitte	Dream	IT	7.6	FTE	USI consultant
Saikrishna S	Deloitte	Dream	IT	7.6	FTE	Deloitte Application Studio
Saiprasath R	Comcast	Dream	Core	8.3	Intern+FTE	Development Engineer
Sanjay Balasubramanian	Tata Consultancy Services	Regular	IT	3.9	FTE	Software Engineer
Sanjay M	Latentview analytics	Dream	Management	6.5	FTE	Analyst- entry level
Sankaran K	Comcast	Dream	IT	8.25	Intern+FTE	Intern, QA engineer 1
Sathish Kumar	Pinnacle infotech	Regular	IT	3	Intern+FTE	Software developer engineer
Shaherudeen S	O9 Solutions	Dream	Management	9.11	FTE	Functional Consultant
Shalini S	Optum	Super Dream	IT	13.81	FTE	Software Engineer
Shrruthy Laya C	Temenos	Dream	IT	6.3	FTE	Software Engineer
Shruthi C K	Optum	Super Dream	IT	13.8	FTE	Software Engineer
SHRUTHI J	DOW CHEMICALS	Dream	Core	8.3	Intern+FTE	Electrical Engineer

Sharma P	Qspiders	Regular	IT	3.5	Intern+FTE	Software developer and testing
Srija S	Datanutts IT solutions	Regular	IT	4.2	Intern+FTE	Junior software developer

"Every ending is creating the space and opening for an,

Amazing New Beginning!"