REDEEEM

VOLUME 11 ISSUE 2
OCTOBER 2022

An
Eventful,
ELectric
Extravagance
awaits...

SSN

INDEX

The Crew!

FACULTY CHIEF EDITOR
DR. R. LEO

"You can do anything you decide to do!"

"Be odd inorder to be number one!"

CHIEF EDITOR
HARSHVARDHINI M

"Make each day your masterpiece"

CONTENT HEAD
PRANAV A

"Design is intelligence made visible"

DESIGN HEAD
ABHINAYA R

The Crew!

STUDENT REPRESENTATIVES

IV – A

DINESH P

HARSHINI A

IV – B

SARAYYU MK

SRIHARINI K

VARSHATH S

III – A

PRANAV A

ABHINAYA R

III– B

HIMASAI THUPAKULA

RANGANATH R

RAHUL M

From Our HOD Desk

I am delighted to bring out the October '22 edition of REDEEM. This edition highlights the activities of the department, students and alumni interactions during the third quarter of 2022. My Congratulations to Dr.R. Seyezhai and Dr.R.Ramaprabha for receiving the Best teacher awards. Our student Mr. Kovi Sai Sandeep has made it to the finals of the National qualifiers of InQube 2022.

He is one of the top 32 teams out of 3000, from more than 550 colleges and is attending the finals now. This event is organized by School of Management and Entrepreneurship, Shiv Nadar University, Delhi NCR. I am also very happy to share that 23 of our final year students have got super dream offers. My appreciations to all of them. This edition also covers the journey of 2002 passed out alumni, Ms. Prabha Ramkumar. We hope that the next edition will have lot more interesting activities and features.

"BELIEVE YOU CAN AND YOU'RE HALFWAY THERE"

-THEODORE ROOSEVELT

EDITORIAL

Our view of the world has a fundamental tendency to tilt towards negative. What we see is colored by our belief, thinking and perception. Unless we are alert, we too get hooked to perception of pressure in the environment. Our mind may be designed to look for negative information and hold on to it. It is naturally designed that negative things stuck longer than positive. The misery loves the company, so we gather for complain group rather that stepping forward. The venting will help to get rid of our negative emotion when we talk about people who are driving us crazy, enviable colleagues, friend who never called back, all little wrong things and we forget to talk about good stuff and count our blessings. If we are not part of the solution, then we are part of the problem. We need to be more aware that bad tend to stick quickly and bad tends to propagate itself and make the whole environment unhealthy leading people to feel insecure and unworthy and no longer interested in participating in any public events.

.

Few great attitude people will bounce back quickly but, most others remain there for long time. Even the media shows how Bengaluru drowned but didn't show how it was quickly restored to normal. In a way the whole environment is taking advantage of our weakness and influencing us negatively. If we are not aware, we will be pushed to the downside leading to health and other issues. If we want to come out of these influences, we need to shift our learning focus from knowledge mastery to self-mastery. Value based education is aimed at transforming our consciousness and living. It helps us to live in harmony in all dimensions of our living, namely, thought, behaviour and work as well as all levels of living, namely, Individual, family, society and nature

Attitude, Character formation, discipline thinking, sociability, open mind, curiosity, and some stability, all have to be built over a long period of time by parents, society, environment, experiences etc. Just because you got better mark or better position than the advantaged one does not mean you get successes in the long run. If you look closely in people's life certain value system followed in their family, culture and society gave them the long-time stability to live happily in spite of all odds in life. They are unfazed by pressures and vicissitudes of life. Others stumble down even for ripples in teacups. You can act for a while but can't change your core values which may be good or bad that easily. Everybody want to do creative work and grow but they are helpless. Their efforts are superficial. The early damage to the brain is hard to recover.

The long-time reinforced contents of the subconscious mind are so powerful that make us merely the creatures of habits. Learning to understand and accept this fact takes long time in life. If we dig deep to understand the facts and limitations and work accordingly, we can start to see the glass may be little full than we initially thought. Also, we can retry our mind slowly and steadily using epigenetics and neuroplasticity principles. Only the long-time consistency beat the short time intensity.
What a man can be, he must be. (Abraham Maslow)

"THE DIFFERENCE BETWEEN A GOOD LIFE AND A BAD LIFE IS HOW WELL YOU WALK THROUGH THE FIRE"

– C.G.JUNG

FROM US TO YOU

Welcome to another edition of REDEEEM!

The month of October brings in truck loads of festivities. Navaratri, the 9 days of color, glamor, frolic and fun-filled interactions between friends and relatives is one of the most awaited periods of the year. The word Navaratri itself, instills a mental image of elders laughing in conversation and children running around the house playing. The 9 days end with an auspicious Saraswati Pooja(which is an official no-study day for all the young minds in the house ;)) and Vijaya Dasami- a day symbolizing valor and victory for the entire year ahead.

Oh! How can one forget everyone's favorite festival of the year! That's right. Deepavali- the festival of lights and colors. It's all new dresses and lamps in the morning and deafeningly bright firecrackers in the night. And (yummmmm!) salivating dishes all day long. The festival of Deepavali is said to be the day when Lord Ram returns to Ayodhya after vanquishing the demon king- Ravana. The people of Ayodhya welcome the god-man by lighting lamps, singing songs and dancing all over the city. The REDEEEM editorial team wishes for the destruction of all things negative in your lives and the spread of positive energy within and all around you.

Coming to our magazine, We are mighty pleased to have an edition of REDEEEM that falls in this period. The editorial team had a difficult time choosing which aspect of our festivities to include and which to not- because honestly, we couldn't choose a favorite among them all- except the sweets of course!

This edition includes all aspects of the previous, and more. Starting off with the achievements of our meritorious faculty, moving on to a cultural- Tamil- Section and then on to the creative side of the magazine. The magazine ends with the view of internships and placements and then a word from one of our prized Alumni. Nonetheless, all the pages in the magazine are color-filled and a guaranteed fun read.

With loads of love and wishing you all the very best!

Student Editorial Team
REDEEEM
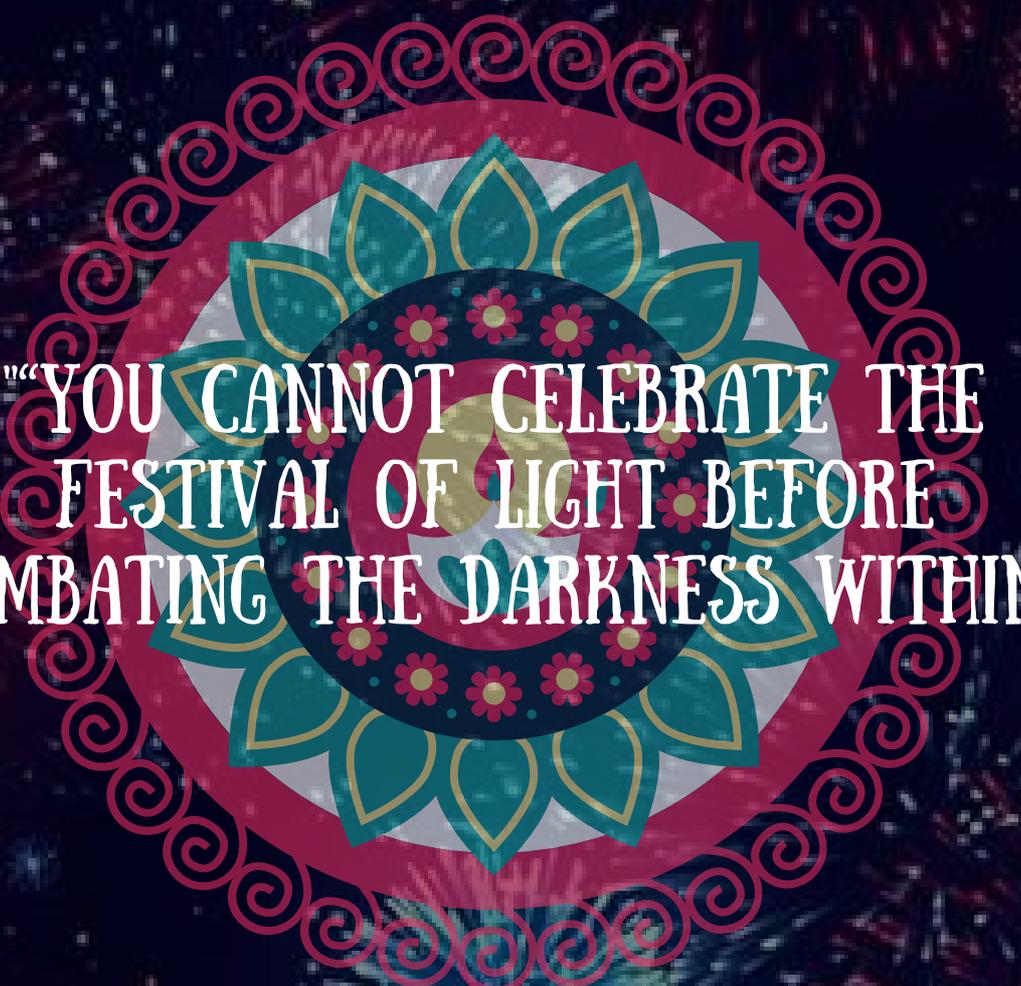
""YOU CANNOT CELEBRATE THE FESTIVAL OF LIGHT BEFORE COMBATING THE DARKNESS WITHIN""

FACULTY ACTIVITIES

External Recognition

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

Dr. R. Seyezhai delivered a Guest Lecture titled "Case Study of Intellectual Property Laws" on 29/07/2022 organized by Karpagam Institute of Technology, Coimbatore.

Dr.K.Usha delivered a Guest Lecture titled "Electromagnetic Field Computation and Modelling of Power Apparatus" on 04/08/2022 organized by Sai Ram Institute of Technology, Sai Leo Nagar, West Tambaram, Chennai - 600044

Dr.V.Rajini delivered a Workshop Presentation titled "Design challenges in Medium voltage High frequency solid state Transformer" on 14/09/2022 organized by VIT Chennai.

Dr.V.Rajini delivered a Workshop Presentation titled "Recent Advancements in Electrical Engineering: A Research Perspective – Series II" on 16/09/2022 organized by VIT Chennai.

Dr. R. Seyezhai delivered a Guest Lecture titled "Reliability Investigtaion of Electric Vehicle using BBN" on 14/09/2022 organized by SRM Institute of Science & Technology, Kattankulathur, Chennai

Dr. R. Seyezhai delivered a Guest Lecture titled "Solar Powered Electric Vehicle" on 20/09/2022 organized by Dr.M.G.R. Educational and Reserach Institute, Chennai

D. R. Seyezhai delivered a Guest Lecture titled "Design of Impedance source inverter & Modulation Strategies" on 22/09/2022 organized by Shrimitha Energy Solutions, SSN Incubation Foundation, Kalavakkam

Dr. R. Seyezhai delivered a Guest Lecture titled "Quasi-Impedance Source Inverter for PV applications" on 16/09/2022 organized by Workshop on, "MATLAB Simulation of Advanced PWM Inverters", SSN College of Engineering, Kalavakkam-603110.

Dr.M.Balaji delivered a Guest Lecture titled "Microprocessor and Microcontroller" on 14/09/2022 organized by Jerusalem College of Engineering

Dr.M.Senthil Kumaran delivered a Workshop Presentation titled "Timers in STM 32 - Lecture and Hands on" on 09/09/2022 organized by SSNCE, Kalavakkam

Dr.M.Senthil Kumaran delivered a Workshop Presentation titled "Interfacing Encoders and BLDC Motor in closed loop system - Lecture & Demonstration" on 10/09/2022 organized by SSNCE, Kalavakkam.

Dr.K.Murugesan delivered a Guest Lecture titled "General Purpose I/O Ports in STM-32 Microcontroller" on 09/09/2022 organized by EEE Department/SSNCE.

Dr.K.Murugesan delivered a Guest Lecture titled "Theory of Encoder" on 10/09/2022 organized by EEE Department/SSNCE.

Research Activity

(National / International journal papers published)

R.Seyezhai, A.Bharathi Sankar Ammaiyappan, N.Heera, P.Keerthana, Mathangi Srinivasan, "Simulation and hardware development of AC-DC power converter for Off- board charger of EV" in International Journal Materials Today Proceedings, Elseiveir July 2022, Volume 62, ISSN 2214-7853.

Venkatakrishnan GR, Rengaraj R, Rajalakshmi M, "An efficient energy management in smart grid based on IOT using ROAWFSA technique" in International Journal Soft Computing July 2022, ISSN 1432-7643, DOI https://doi.org/10.1007/s00500-022-07266-7, Impact factor 3.732 indexed in WOS/TR/SD

Dr. R Jeya, G.R.Venkata Krishnan, C. Rajesh Babu, "Traffic Sign Classification and Recognition using LE-NET Technique" in International Journal INTERNATIONAL JOURNAL OF EARLY CHILDHOOD SPECIAL EDUCATION July 2022, Volume 14, pp 544, ISSN 1308-5581, DOI NA, Impact factor 1 indexed in WOS/TR/SD

Anjana Ethirajan, FT-RS/EEE and R. Ramaprabha, "Mathematical Modeling of Buck Converter with Relay Feedback" in International Journal of Circuits, Systems, and Computers July 2022, Volume 31, pp Article No. 2250191 (13 pages), ISSN ISSN (print): 0218-1266| ISSN (online): 1793-6454, DOI https://doi.org/10.1142/S0218126622501912, Impact factor 1.278, indexed in WOS/TR/SD

V.Rajini, Lavanya (scientist NIWE), "Comparative analysis of Phasor estimation techniques for PMU applications" in International Journal of Physics September 2022, ISSN ser 2325012010, DOI https://iopscience.iop.org/article/10.1088/1742-6596/2325/1/012010, indexed in Scopus

Mahadevan J , Rengaraj R , Bhuvanesh A, "Applications of continuous ant colony optimization and multi-objective hybridized differential evolution for the best location of microcontroller-built FACTS techniques" in International Journal Neuro Quantology September 2022, Volume 20, pp 6419, ISSN 1303-5150, DOI doi:10.14704/nq.2022.20.8.NQ44666, Impact factor 0.413 indexed in Scopus

V. Thiyagarajan, "Amelioration of power quality in a solar PV fed grid-connected system using optimization-based selective harmonic elimination" in International Journal Electrical Engineering September 2022, Volume , pp 2775, ISSN 1432-0487, DOI https://doi.org/10.1007/s00202-022-01556-x, Impact factor 1.63 indexed in WOS/TR/SD

Conference Activity

(National / International conferences presented)

Surabhi S Retika M.K and Balaji M, "COMPARATIVE ANALYSIS OF PMSM WITH PERMANENT MAGNET-ASSISTED SRM" in Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022) conducted by Jerusalem College of Engineering in Virtual on 08/07/2022

Karthika M and Balaji M, "Design and Analysis of SRM topologies for EV application" in Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022) conducted by Jerusalem College of Engineering in Virtual on 08/07/2022

Preetha C and Balaji M, "Design Optimization of Permanent Magnet Synchronous Motor" in Fourth International Conference on Emerging Trends in Science, Engineering & Technology (ICETSET 2022) conducted by Jerusalem College of Engineering in Virtual on 08/07/2022
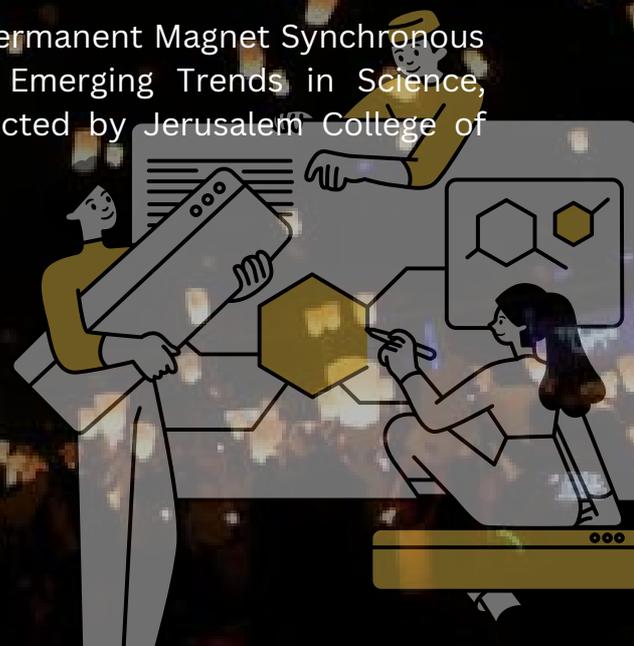
Project News

(List project applied as well as project sanctioned)

Dr.K.Usha/EEE/SSNCE applied for a External funded project titled "EXPERIMENTAL ANALYSIS AND OPTIMIZATION OF ELECTRIC FIELD DISTRIBUTION AROUND POLYMERIC INSULATORS IN EXTRA HIGH VOLTAGE TRANSMISSION LINES" on 13/10/2021 to the funding agency DST SERB for a duration of 3 years for a funding amount of 3000000 Rupees and the same was sanctioned on 13/07/2022

Dr. R. Ramaprabha as PI and Dr. M. Balaji as Co-PI applied for an External funded project titled "Design and Development of Photovoltaic fed Embedded type Z-source Multilevel Inverter suitable for Indian Grid" on 15/07/2022 to the funding agency MNRE for a duration of 3 Years for a funding amount of 86.44 lakhs Rupees.

Dr.V.Rajini and Dr.S.Tamilselvi applied for an External funded project titled "Learning assisted fault management system for preventive and corrective maintenance of PV systems with heterogenous faults under uncertainties" on 05/08/2022 to the funding agency MNRE for a duration of 3 years for a funding amount of 4302720 Rupees

Dr.V.Rajini and Dr.V.S. Nagarajan applied for an External funded project titled "Design and Development of Energy Efficient Flux Intensifying Spoke Motor Drive with Rare earth free magnet for high capacity solar pumps and irrigation systems for hilly regions" on 08/08/2022 to the funding agency MNRE for a duration of 3 years for a funding amount of 4287600 Rupees

Dr.V.Rajini and Dr.S.Tamilselvi applied for a External funded project titled "Development of Rare Earth Magnet Free Spoke Type Flux Intensifying Motor Drive For Last Mile Transportation" on 16-Sep-2022 to the funding agency DST-SURE for a duration of 3 years for a funding amount of 300000 Rupees

Events Attended

Dr. R. Seyezhai attended an 8 Day online Faculty Development Program titled "Integration of Energy Sources", during 01.09.2022-08.09.2022 organized by Mailam Engineering College

Dr. R. Seyezhai attended 5 Day virtual hands on training internship program titled "Internet of Things" on 05/09/2022, organized by Mahendra College of Engineering

Webinar Attended

(List events attended by faculty, excluding conferences)

Dr.M.Balaji attended 5 Day Faculty Development Program titled "Opportunities ,Scope and Challenges in DC Microgrids" on 04/07/2022 organized by St.Joeseph's College of Engineering at Online

Dr.M.Balaji attended 5 Day Faculty Development Program titled "Power Electronics Converters' Applications in Microgrid and Vehicular Technology" on 20/07/2022 organized by NIT Rourkela at Online

Dr.R.Leo attended 5 Day Faculty Development Program titled "Deep Learning tools and its applications" on 25/07/2022 organized by Sri Sairam Engineering College, Chennai through online.

Dr. R. Seyezhai attended 5 Day STTP titled ISTE Sponsoed one week short term traning Program on, "Opportunities, Scope and Challenges in DC Micro Grids" (04.07.2022- 08.07.2022) on 04/07/2022 organized by St.Josephs College of Engineering, Chennai at Online

Dr. R. Seyezhai attended 30 Day Master Class titled "30 Days Master Class on Electric Vehicle Design" on 01/07/2022 organized by PanTech Solutions, Chennai at Online
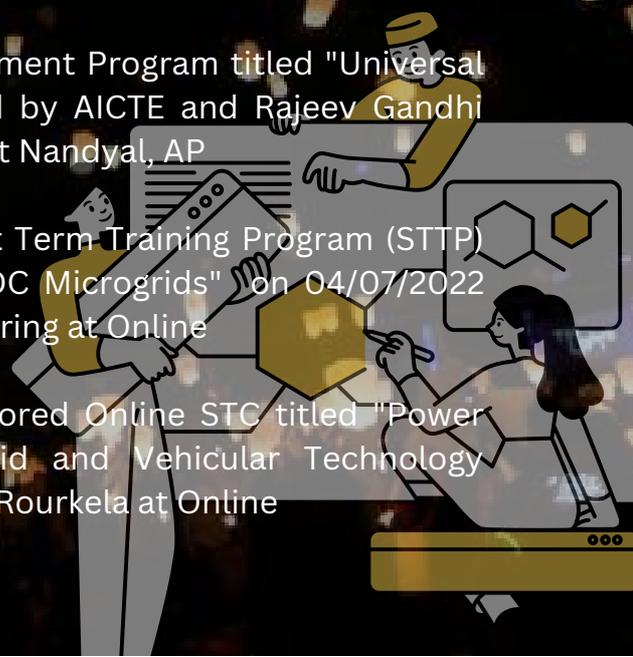
Dr.R.Leo attended 2 Day Workshop titled "Block chain and its application" on 14/07/2022 organized by VIT Chennai through online

Dr.R.Leo attended 1 Day Workshop titled "Protecting your IP- Case Studies on Litigation" on 09/07/2022 organized by IIC-SSN at Chennai.

Dr.R.Leo attended 5 Days offline Faculty Development Program titled "Universal Human Values (UHV-II)" on 23/08/2022 organized by AICTE and Rajeev Gandhi Memorial College of Engineering and Technology, at Nandyal, AP

Dr.R.Ramaprabha attended 5 Day One Week Short Term Training Program (STTP) titled "Opportunities, Scope and Challenges in DC Microgrids" on 04/07/2022 organized by ISTE & St. Joseph's College of Engineering at Online

Dr.R.Ramaprabha attended 5 Day NaMPET sponsored Online STC titled "Power Electronics Converters' Applications in Microgrid and Vehicular Technology (PECAMVT-2022)" on 20/07/2022 organized by NIT Rourkela at Online

Dr.R.Leo attended 5 Day Workshop titled "Designing and Modelling of IoT, AI & ML Systems" on 01/08/2022 organized by AICTE, Arm Education and STMicroelectronics at NewDelhi

Dr. R. Seyezhai attended Six day Faculty Development Program(FDP) on, " "Integration of Energy Sources", during 01.09.2022-08.09.2022 on 01/09/2022 organized by Mailam Engineering College at Online.

Dr. R. Ramaprabha, ASSP/EEE participated & Completed successfully 2 Weeks (Hybrid Mode) ATAL Faculty Development Program on "Digital Twin for Electric Vehicles", during Sep 12 -23, 2022. on 12/09/2022 organized by ATAL & Department of Electrical and Electronics Engineering, Aarupadai Veedu Institute of Technology, Vinayaka Missions Research Foundation (Deemed to be University), Paiyanoor – 603 104, Chengalpattu District, TamilNadu,India

Dr.R.Leo attended 12 Day Faculty Development Program titled "DATA SCIENCE : A REVELATION OF THE MODERN DIGITAL ERA" from 29/8/2022 to 10/09/2022 organized by SRM Institute of Science & Technology, Ramapuram Campus at Chennai

Dr. R. Ramaprabha, ASSP/EEE attended short term course (STC) on "Smart Grid and Renewable Energy Sources" conducted by Department of Electrical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh (O. Plan No. ICT-103) during Aug 29- Sep 02, 2022

Events Conducted

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

Dr.R.Seyezhai & Dr.S.Sureshkumar organized a Workshop titled SSN-IIC Organized a workshop on, "Protecting your IP- Case Studies on Litigation" . at Off line event on 09/07/2022

Dr. R. Ramaprabha & Dr. M. Balaji organized an Invited Guest Lecture titled "Awareness and Projects in DRDO Labs" at EEE Department on 11/07/2022

Dr.V.Rajini, Dr.R.Seyezhai, Dr.D.Umarani organized a Seminar titled "Reliability Modeling of Power Converters" on 09/08/2022

Dr.V.Rajini, Dr.R.Seyezhai, Dr.D.Umarani, Dr.G.R.Venkatakrishan organized a Invited Guest Lecture titled "How to Seek Purpose in life and Achieve it" at EEE Department on 22/08/2022

Dr. V. Rajini, Dr. V. Kamaraj, Dr. R. Seyezhai, Dr. R. Ramaprabha & Dr. M. Balaji, Department of EEE and ISTE-Faculty Chapter Organized Two Day Online Workshop on "Simulation of Power Converters Using MatLab" during Aug 01-02, 2022 at EEE Department on 01/08/2022

Dr. V. Rajini, Dr. R. Rengaraj, Dr. G.R. Venkatakrishnan, Dr. Mrunal Deshpande organized a Workshop titled "Industrial Automation using PLC and SCADA at Online" on 06/08/2022

Dr. V. Rajini, Dr. V. Kamaraj, Dr. R. Seyezhai, Dr. R. Ramaprabha & Dr. M. Balaji, Department of EEE Organized a Faculty Development Programme (FDP) on "Renewable Energy Systems Laboratory" during Sep 26 – 29, 2022. The details

M.Senthil Kumaran , K.Murugesan & K.Usha organized a Workshop titled "HANDS-ON WORKSHOP ON REAL TIME CONTROL APPLICATIONS OF STM 32- SERIES I" at SSNCE/ EEE / Project LAB on 09/09/2022.

Dr.V.Rajini, Dr.R.Seyezhai, Dr.D.Umarani organized a Workshop titled "Matlab Simulation of Advanced PWM Inverters at Physical" on 16/09/2022

Industry Collaboration

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

Dr.V.Rajini, interacted with M/s, Nex Gen Powersys and presented her research at their sanfrancisco office for research collaboration on 01-07-2022

Dr.V.Rajini, interacted with M/s, Nex Gen Powersys and Rizel technologies for collaboration on 22-07-2022

Dr.V.Rajini visted Valeo Industries for R&D Collaboration

"Dr.V.Rajini conducted online discussion with M/S Nextgen power sys about consultancy work on 7/09/2022

A start up company E -Samarp Technologies Pvt Ltd has been incorporated under SSN Incubation foundation. Dr.V.Rajini and Dr.V.S.Nagarajan are the founders and directors of the company on 02/09/2022

Other Items

(Any item not covered above)

Dr.R.Seyezhai & Dr.D.Umarani submitted the progress report for the second quarter to the ANIHEES Coordinator, Anna University, Chennai-25. on 13/07/2022 to the funding agency AU-NLCIL Innovation Hub for Energy, Environment & Sustainability – 'ANIHEES for the funded project "Eco-Friendly Solar Photovoltaic Pole for Multi-utility"

Dr.N.B. Muthuselvan reviewed a research article in International Journal titled, "Electric Power Systems Research" on 04-07-2022

Dr.N.B. Muthuselvan reviewed a technical research paper in Journal of The Institution of Engineers (India): Series B (IEIB) on 04-07-2022

Dr R.Leo has reviewed two International Journal paper one in International Journal of Electrical Power and Energy Systems and the other in IEEE Access on 2022-07-15

Teaching abilty test was conducted for Faculty recruitment drive 2022 for four days (8,9,10 and 18-8-2022 for 51 candidates) by the EEE Interview Panel

NIRF Team(Dr.V.Rajini, Dr. K.S. Vijay sekar, Dr.Ramapraba, Dr. G . satheesh kumar) presented the SoM NIRF analysis details to president on Aug 05, 2022 and Aug 18, 2022

Dr.V.Rajini acted as a panel member for the interview - SSN admissions for 3 days (24-26 -8-2022)

Dr.V.Rajini Attended JRF Recruitment meeting in virtual mode as a Research Coordinator on 02/08/2022.

Dr.V.Rajini acted as panel member for Faculty recruitment 2022 along with external experts from IITM and CEG

Dr. R. Ramaprabha, ASSP/EEE conducted the work discussion and progress review meetings for 5 SSN Internship students guided by her on the following dates: July 23, 26, 27, 28, Aug 03, 04, 10, 11, 17, 19 and Aug 24, 2022

Dr. R. Ramaprabha, ASSP/EEE attended meeting to finalize the PG-NBA file allocation meeting with PG NBA coordinators on Aug 04, 2022

Dr. R. Ramaprabha, ASSP/EEE submitted 2 project proposal to National Innovation Contest (IIC) through https://yukti.mic.gov.in on Aug 16, 2022

R. Ramaprabha and Dr. M. Senthil Kumaran, ASSPs/EEE arranged hands-on training and practice of basic programming using Spartan 6 FPGA Development board on by M/s. Invent Logics, Chennai on August 27, 2022 at 11.30 a.m. at LIC Lab

Dr. R. Ramaprabha, ASSP/EEE arranged demonstration of the usage of Tektronix digital storage oscilloscope (DSO) by M/s. Sinetec Technologies (Tektronix Channel Partner), Chennai on August 27, 2022 at 10.00 a.m. at LIC Lab

2 Batches of UG students under the guidance of Dr. R. Ramaprabha, ASSP/EEE presented their Internally funded student project progress on 27.08.2022.

Batch 1: G. Brindha and C. Stuward Candy Mohan, "Design and Implementation of Integrated Quadratic Boost- Zeta converter for Photovoltaic Applications".
Batch 2: R. Ajay Kumar, M. Balaji, S. Charan and P. Surya, "Implementation of Super-Lift Converter Multilevel DC/AC Inverters Using Solar Photovoltaic Energy System"

Dr.K.Usha Conducted JRF Recruitment meeting in virtual mode as Principal investigator on 02/08/2022.

Dr.P..Saravanan Attended Board of Studies Meeting as member in Anamacharaya technical institute of Technology, Tirupati on 05/7/2022

Dr.P..Saravanan Acted as a Question paper setter for end semester examination , July 2022 for Anamacharaya technical institute of Technology, Tirupati

Dr.V.Rajini attended HoDs meeting with president, Principal, VP and other Hods on 1/9/2022

Dr.V.Rajini reviewed a chapter titled"ACTIVE SUSPENSION CONTROL OF FULL CAR MODEL USING BAT OPTIMIZED PID CONTROLLER" for IGI global book on 10/09/2020

Dr.V.Rajini conducted the faculty meeting to discuss CO-PO mapping through performance indicators and to discuss NIRF Ranking details on 10/09/2022

Dr.V.Rajini reviewed a book chapter titled,"Artificial intelligence-based approaches in vehicular power energy application" for IGI global book on 12/09/2022

Dr.V.Rajini had interaction with Nex Gen, santaclara USA for consultancy work on 07/09/2022

Dr. Premanand chandramani, Dr. Jayaparvathy and Dr. K K Nagarjan were transfered from ECE department to EEE department on 01/09/2022

Dr.V.Rajini attended Result passing board meeting-IV and VI semesters-May2022 on 12/09/2022

Dr.V.Rajini served as a panel member for faculty recruitment in EEE on 30/08/2022

Dr.V.Rajini and Dr.V. Kamaraj evaluated 5 oral presentations and 6 poster presentations on SSN doctorate scholars day on 07/09/2022

Dr.V.Rajini attended the meeting reg the cyber security at SSN on 13/09/2022
IQAC academic audit was conducted by external auditor on 23/09/2022

Dr.V.Rajini attended the meeting reg the cyber security measures at SSN on 21/09/2022

Dr.R.Seyezhai, P/EEE received the Best Teacher Award (EEE Department) during the Teacher's Day celebration on 05.09.2022

The following 5 students successfully completed their internship under "RESEARCH INTERNSHIP SCHEME – JULY 2022, SSNCE" started from July 21, 2022 under the guidance of Dr. R. Ramaprabha, ASSP/EEE and completed the procedures on Sep 09, 2022.

• Neelima M (III Year B. E.- EEE), National Institute of Technology
Calicut Photovoltaic Curve Tracer (4 weeks)

• Mohanraj S (II Year B. E.- EEE) of K Ramkrishnan College of Engineering, Samayapuram, Trichy – Development of Multi-input DC-DC Converters for Renewable Energy System Interfacing (5 weeks)

 Karuppaiah A R (II Year B. E.- EEE) of K Ramkrishnan College of Engineering, Samayapuram, Trichy - Development of Simple MPPT technology for PV array (5 weeks)
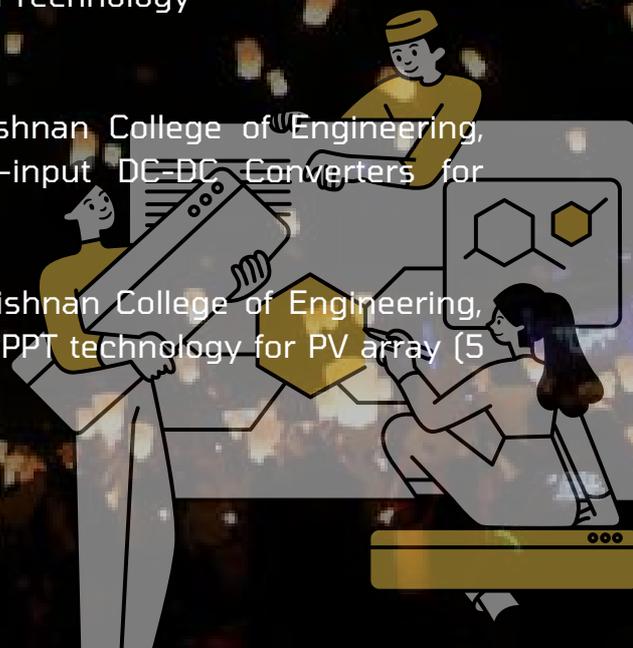
Suswin Ganesh R (II Year B. E.- EEE) of K Ramkrishnan College of Engineering, Samayapuram, Trichy - Study on self-cleaning methods for PV Panels (4 weeks)

•Balamurugan P (II Year B. E.- EEE) of K Ramkrishnan College of Engineering, Samayapuram, Trichy - Literature survey and Solutions to EV vehicle explosions in India (4 weeks)

Dr. R. Ramaprabha, ASSP/EEE received Best Teacher Award (EEE department) during the Teacher's Day Celebration on Aug 05, 2022

Dr. R. Ramaprabha, Asso. Prof./EEE reviewed 2 papers for 2nd IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC 2022) to be held during December 15 ~ 17, 2022, GIET University, Gunupur, India, IEEE Conference Record No:56467, Technically Co-Sponsored by IEEE Kolkata Section, IEEE Rourkela Subsection & IEEE USA – Sep 20, 2022

Orientation program for Scholarship for Potential Undergraduate Rural Students (SPURS) admitted in the AY 2022-23 was organized by DR. K.Murugesan from 5-09-2022 to 23-09-2022.

Dr. V. Thiyagarajan, ASSP/EEE has reviewed the papers submitted for the IEEE 19th India Council International Conference INDICON 2022, organized by IEEE India Council during 24/11/2022-26/11/2022

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

Dr. V. Thiyagarajan, ASSP/EEE has reviewed the chapters submitted for the upcoming book titled "Handbook of Research on Battery Management Systems and Routing Problems in Electric Vehicles" published by IGI Global Publisher, 2022.

Dr. V. Thiyagarajan, ASSP/EEE, chaired the technical paper presentation session for the International Congress on Innovation Technologies & Engineering, organised by Ege University, Izmir, Türkiye on September 04, 2022.

Dr.V.Rajini arranged an internship meeting with students of third and final year and M/S. Qmax Ion technologies on 14-9-2022

Gunasingraj J (III Year B. E.- EEE) of K Ramkrishnan College of Engineering, Samayapuram, Trichy - has successfully completed the External internship project titled "Building Energy management using IOT and Machine Learning" from July21 to August 31,2022 under the guidance of Dr. R. Leo

Alumni Interaction

(Any activity involving Alumnus)

1) 2002 batch Alumni reunion meet was held at SSN CDC block on August 6th, 2022.

Navaneeth, Nandakumar, Shiva, Arvind, Rajkumar, Naveen, Jayaprakash, Sampath, Senthil, Vijay.
Left to Right Seated,
Prabha, Rekha, Nagalaxmi, Mythili, Gayathri, Priscilla, Lalita.

2) Mr.Pradeep Kumar 2009 EEE Alumnus presented a Lecture titled How to Seek Purpose in life and Achieve it at SSN mini auditorium on 22/08/2022

How to Seek Purpose in Life and Achieve it?

Resource person: Mr.Pradeepkumar a.k.a Prady
                    CEO – Neil Patel Digital India
                    Founder and CEO – Stan Ventures
Date: 22.08.2022

Venue: Mini Auditorium, Sri Sivasubramaniya Nadar College of Engineering

The pep talk on "How to seek purpose in life and achieve it" was organised under the auspices of IIC, Sri Sivasubramaniya Nadar College of Engineering on 22.08.2022. Around 200 participants including faculty members, undergraduate and post graduate students attended the event. Mr. PradeepKumar, CEO of NP Digital India and Stan Ventures was the speaker for the Pep Talk.

Objectives of the activity:

1. To activate and motivate an entrepreneurship aspirant.
2. To exert higher level of efforts to achieve his/her entrepreneur goals.
3. To stimulate someone to take a desired course of action and inspire with the success story of his own.

Briefing of the activity:

Firstly, the gathering and the resource person was warmly greeted and introduced with brief profile.

The resource person shared his own entrepreneurial success story.

He added that his aim was to find out what the specific characteristics of entrepreneurs are and how they affect the attitude towards and performances in the entrepreneurial activities.

He talked about the motivational factors for an entrepreneur willing to start a relatively successful business instead of finding a job in the labour market

He also discussed on the biggest challenges faced for being an entrepreneur, and the factors that helped him keep the process going when facing and overcoming the obstacles in the business.

Especially when globalization and digitalization are changing the whole world and the ways of working and thinking, has also presented what challenges this new world has brought, and what action should be taken to remove the obstacles and turn challenges into opportunities to improve the business and get it to a new level.

The session concluded with the note on the practical takeaways for an entrepreneur. The participants of the event expressed their appreciation and got motivation by a real success story of an entrepreneur.

TEACHER'S DAY 2022

Dr. R. Seyezhai Prof./EEE and Dr. R. Ramaprabha, Asso. Prof./EEE received Best Faculty Award for the academic year 2020-2021 during the Teacher's Day celebration on Sep 05, 2022.

Farewell to Dr. Alagu Dheeraj

Dr Alagu Dheeeraj madam was given a farewell on September 6th. She worked in SSN EEE for almost two decades. . All faculty members shared their memories and experiences of working with her. HOD gave memento on behalf of all the faculties.

Farewell to Mr. A Balasubramaniam

Mr A Balasubramaniam was given a farewell on September 26th. He worked in SSN EEE for 15 years. All faculty members shared their memories and experiences of working with him. HOD gave memento on behalf of all the faculties.

SSN Doctorate Scholars Day

EEE research scholar's Participation in SSN Doctorate Scholars Day on Sep 07, 2022. 5 Oral & 5 Poster presentations from EEE -FT Research scholars.

ORAL PRESENTATION

P No	Title of the Abstract	Name of the Student	Name of the Supervisor
EE			
P-1	Fault Detection and Identification Strategy based on Luenberger Observer for Bidirectional Interleaved Switched Capacitor DC-DC converter interfaced microgirds	B. S. Nalina	Dr. V. Kamaraj
P-2	Comparative Analysis of Different Single Stage PFC Integrated Half Bridge LLC converter for LED Street Lighting	M. Sridhar	Dr. R. Seyezhai
P-3	Embedded type switched-inductor switched boost multilevel inverter	T. Divya	Dr. R. Ramaprabha
P-4	Fabrication of TiO_2 photoanode for Bi facial dye sensitized solar cells	Trupti Sutar	Dr. Mrunal Deshpande
P-5	Modified Modular Multilevel Inverter (MMI) topology for Solar Photovoltaic Applications	D. Ragul	Dr. V. Thiagarajan

POSTER PRESENTATION

| PP No	Title of the Abstract	Name of the Student	Name of the Supervisor
EEE			
PP-1	Design and implementation of bridgeless AC/DC PFC SEPIC converter with valley-fill circuit	B Lakshmi Praba	Dr. R. Seyezhai
PP-2	Comparative analysis of high gain impedance source inverter for photovoltaic applications	S. Devi	Dr. R. Seyezhai
PP-3	Mathematical Modeling of Buck Converter using Relay Feedback	Anjana Ethirajan	Dr. R. Ramaprabha
PP-4	Design and Analysis of Switched Reluctance Motor for Three-Wheeler Electric Vehicle Application	M. Karthika	Dr. M. Balaji
PP-5	Analysis of BLDC Motor for Electric Scooter Application	S.T. Vigneshwar	Dr. M. Balaji

Department EEEvents

"Protecting your IP- Case Studies on Litigation"- Workshop

1.SSN-IIC 4.0 organized a workshop titled, "Protecting your IP- Case Studies on Litigation" on 09.07. 2022.The resource person for the workshop was Dr.V.E.Annamalai, Principal/SSNCE who discussed about various interesting infringement case studies followed by an active interactive session with the participants. This event was conducted in offline mode and coordinated by Dr.R.Seyezhai, P/EEE and Dr.S.Sureshkumar, ASSP/Mech.

"Awareness and Projects in DRDO Labs"- Invited Guest Lecture

Dr. R. Ramaprabha, Asso.Prof./EEE and Dr. M. Balaji, Asso.Prof./EEE arranged an invited guest lecture (online mode) on "Awareness and Projects in DRDO Labs" UG, PG & PhD students on July 11, 2022 between 10.30 am to 12.00 noon. The lecture is delivered by Shri. S. Madivaanan, Scientist 'G', Additional Director (Ret), CVRDE/DRDO, Avadi, Chennai. 30 students attended this lecture.
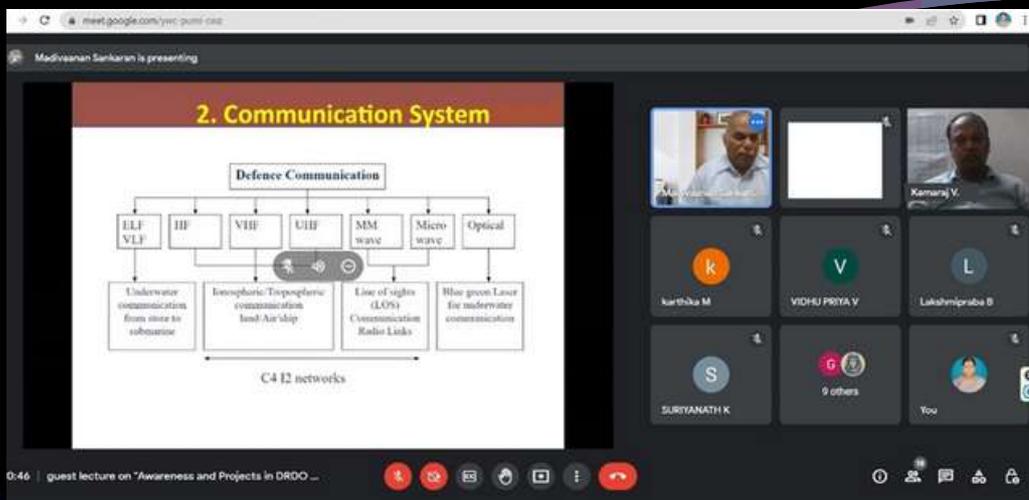
Department of EEE and ISTE-Faculty Chapter Organized Two Day Online Workshop on "Simulation of Power Converters Using MatLab" during Aug 01-02, 2022

Conveners: Dr. V. Rajini (Prof. & Head/EEE) and Dr. V. Kamaraj (Prof./EEE)

Event Coordinators: Dr. R. Seyezhai (Prof./EEE), Dr. R. Ramaprabha & Dr. M. Balaji (Asso. Profs./EEE)

Number of Participants: Registered – around 331; Successful completed - 188

Speakers:

• Day 1/Session I: "Brief Introduction on MatLab/Simulink" by Dr. R. Ramaprabha, Asso. Prof./EEE
• Day 1/Session II: "Design and Simulation of DC-DC Converters" by Dr. R. Ramaprabha, Asso. Prof./EEE
• Day 1/Sessions III: "Design and Simulation of SPWM Inverter" assisted by Dr. R. Seyezhai, Prof./EEE
• Day 2/Session IV: "Simulation of Quasi Z-source Inverter" Dr. R. Seyezhai, Prof./EEE
• Day 2/Session V: "Simulation of Electric Drives" by Dr. M. Balaji, Asso. Prof./EEE, Asso. Prof./EEE.
• Day 2/Sessions VI: "Self-Practicing Sessions" assisted by Dr. R. Seyezhai, Prof./EEE, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE
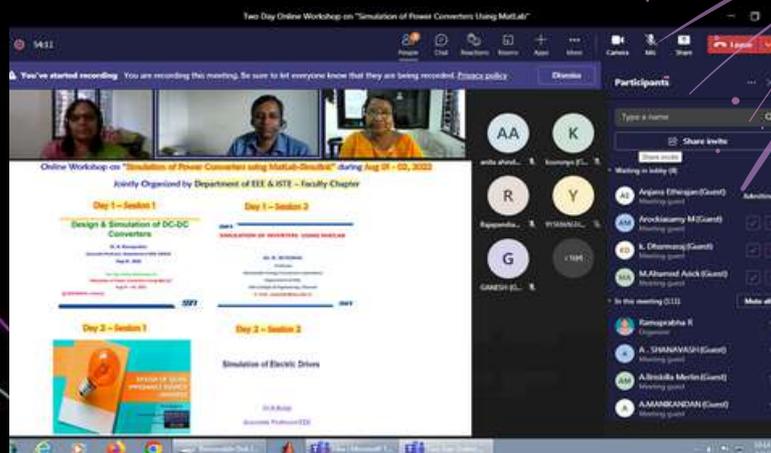
1. Dr. R. Ramaprabha and Dr. M. Senthil Kumaran, ASSPs/EEE arranged hands-on training and practice of basic programming using Spartan 6 FPGA Development board on by M/s. Invent Logics, Chennai on August 27, 2022 at 11.30 a.m. at LIC Lab. The following members have been trained: Dr. M. Senthil Kumaran, Dr. R. Ramaprabha, Dr. M. Balaji, Dr. K. Murugesan, Dr. P. Saravanan, Associate Professors/EEE and Mr. R. Alagar Raju, Mr. G. Jeyakumar, Mr. L. Porchelvan, Lab Assistants/EEE.

2. Dr. R. Ramaprabha, ASSP/EEE arranged demonstration of the usage of Tektronix digital storage oscilloscope (DSO) by M/s. Sinetec Technologies (Tektronix Channel Partner), Chennai on August 27, 2022 at 10.00 a.m. at LIC Lab. The following members have been trained: Dr. R. Ramaprabha, Dr. M. Balaji, Dr. M. Senthil Kumaran, Dr. K. Murugesan, Dr. P. Saravanan, Dr. S. Krishnaveni, Associate Professors/EEE; Ms. Anjana Ethirajan, Mr. D. Ragul, Ms. M. Karthika, Mr. S. T. Vigneshwar, Full-time Research Scholars/EEE; Mr. K. Karthik, JRF/EEE; Mr. S. Sowri Rajan, Mr. G. Pradeep Kumar, Mr. K. Vivekananthan, Mr. G. Jeyakumar, Mr. G. Lal, Lab Assistants/EEE.

3. Dr. R. Ramaprabha, ASSP/EEE arranged demonstration of the usage of Keysight EDUX1052A digital storage oscilloscope (DSO) by Mr. Narasimhan, Senior Application Manager, Elmack Engg. Services, Chennai on August 30, 2022 at 02.00 p.m. at LIC Lab. The following members have been trained: Dr. R. Ramaprabha, Dr. M. Senthil Kumaran, Dr. M. Pandi Kumar, Dr. S. Krishnaveni, Associate Professors/EEE; Ms. Anjana Ethirajan, Mr. D. Ragul, Ms. M. Karthika, Mr. S. T. Vigneshwar, Full-time Research Scholars/EEE; Mr. K. Karthik, JRF/EEE; Mr. S. Sowri Rajan, Mr. G. Jeyakumar, Mr. G. Lal, Mr. L. Porchelvan, Lab Assistants/EEE.

National Level Webinar on
INDUSTRIAL AUTOMATION USING PLC & SCADA
6th August, 2022

The department of EEE organized a National Level webinar on INDUSTRIAL AUTOMATION USING PLC & SCADA in association with First Logic Automation, Chennai, on August 6th, 2022. The main aim of this webinar is to make familiar with the practical knowledge of the Industrial Automation and recent technologies being utilized to accomplish modern Industrial Automation. Organizing this workshop is to impart the basics of electrical automation in the understudies and give them a stage to deal with, in the near future. The most utilized guiding force behind a computerized modern plant is a "Programmable Logic Controller" also known as a PLC. PLCs alongside certain other essential fixings like Sensors, Motors, Actuators, Valves, Conveyors, Boilers, SCADA Systems, Computers and some more, makes a genuine computerized producing plant. This workshop helps students from every engineering background to develop the basics of engineering and expand their logic. This workshop gives a brief exposure to industrial and process automation, introduction to PLC and SCADA and hands on experience on PLC. This workshop attracted 150 participants from various colleges in India.

Keynote Speaker – Mr. A.Ramesh Kumar, Managing Director, First Logic Automation, Chennai

Organizers

Dr. R. Rengaraj
Dr. G. R. Venkatakrishnan
Dr. Mrunal Deshpande

"Reliability Modeling of Power Converters"
August 9, 2022

Preamble

The Department of Electrical and Electronics Engineering of Sri Sivasubramaniya Nadar college of Engineering, kalavakkam in association with IEEE Power Electronics Society (PELS), Madras Chapter conducted the seminar on "Reliability Modeling of Power Converters" for the Research scholars, Industry Resource persons and UG/PG students.

The workshop was convened by Dr.V.Rajini, Professor and Head, Department of EEE, Sri Sivasubramaniya Nadar college of Engineering, Kalavakkam and Dr.R.Seyezhai, Professor, Department of EEE, Sri Sivasubramaniya Nadar college of Engineering, Kalavakkam & Chair – IEEE (PELS), Madras Chapter.

The seminar was co-ordinated by Dr.D.Umarani, Associate Professor, Sri Sivasubramaniya Nadar college of Engineering, Kalavakkam.

This programme was arranged in the motive of sharing the knowledge in the area of Reliability analysis methods for power electronic converters. Over 30 registrations were received and around 15 participants attended the seminar.

The course content delivered in the seminar is as follows:

The online seminar started with a brief introduction about the importance of Reliability Analysis and was given by Dr.R.Seyezhai, Professor, Department of EEE, Sri Sivasubramaniya Nadar college of Engineering, Kalavakkam & Chair – IEEE (PELS), Madras Chapter.

The session on "Reliability Modeling of Power Converters" was handled by Dr.M.Sujatha, Assistant Professor, Department of ECE, Easwari Engineering College, Chennai covered topics such as Introduction to Reliability, What are the reliability metrics, What is the importance of assessment of reliability, what are the ways of modelling in reliability, how to model a power converter, part count modelling, fault tree analysis , Markov modelling, various tool kits available for reliability assessment and how to use the reliability software. After the completion of the session, the participant queries were answered.

Finally, the feedback about the seminar was collected from all the participants to improve the sessions that will be conducted in the mere future.
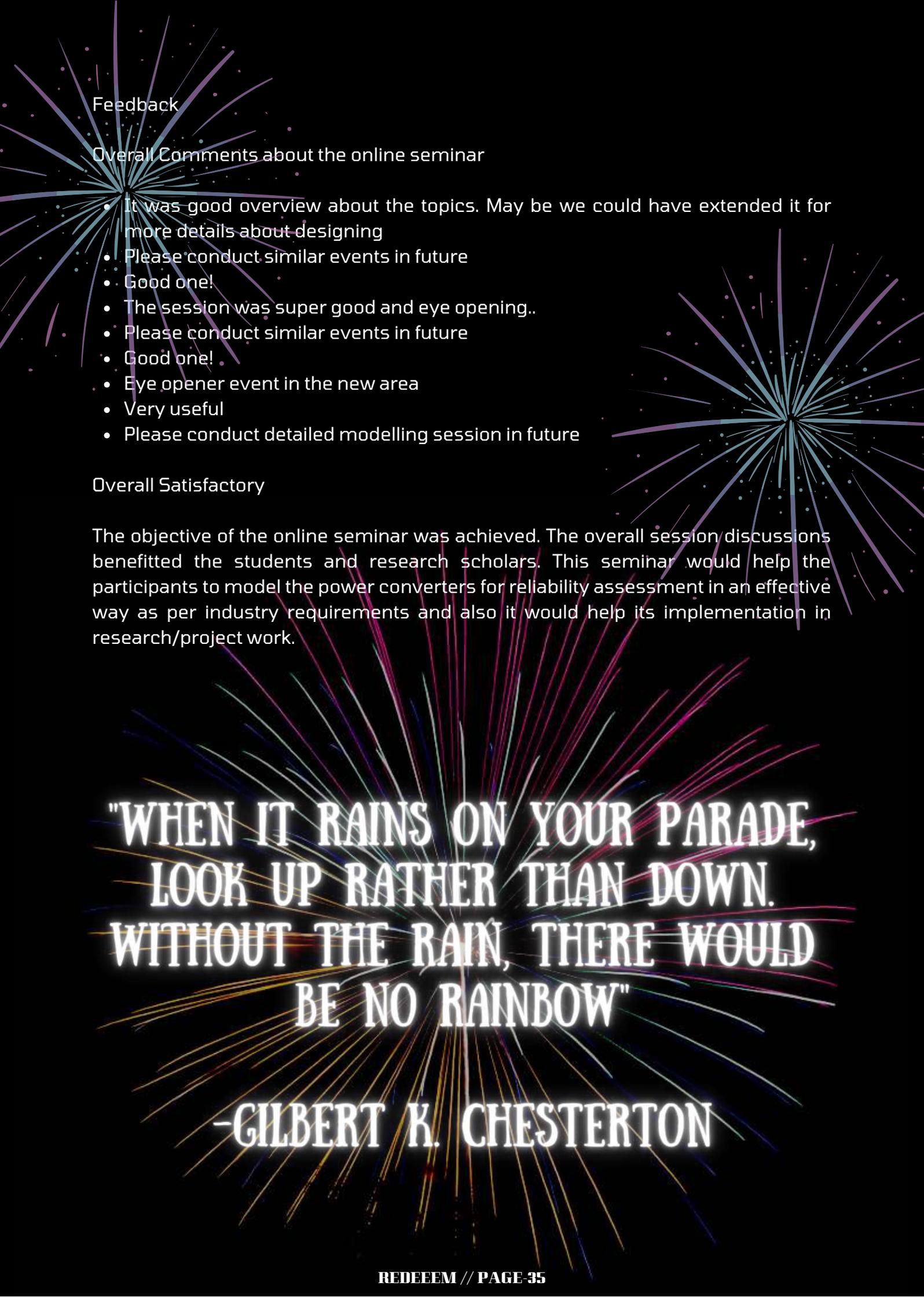
Brochure :

Event Schedule :

Session	Topic	Speaker	Time
1	**Reliability Modeling of Power Converters**	**Dr. M.Sujatha** Assistant Professor, Department of ECE Easwari Engineering College, Chennai	9/08/2022 01:00 – 03.00 PM

Event Photos :

Feedback

Overall Comments about the online seminar

- It was good overview about the topics. May be we could have extended it for more details about designing
- Please conduct similar events in future
- Good one!
- The session was super good and eye opening..
- Please conduct similar events in future
- Good one!
- Eye opener event in the new area
- Very useful
- Please conduct detailed modelling session in future

Overall Satisfactory

The objective of the online seminar was achieved. The overall session discussions benefitted the students and research scholars. This seminar would help the participants to model the power converters for reliability assessment in an effective way as per industry requirements and also it would help its implementation in research/project work.

"WHEN IT RAINS ON YOUR PARADE, LOOK UP RATHER THAN DOWN. WITHOUT THE RAIN, THERE WOULD BE NO RAINBOW"

-GILBERT K. CHESTERTON

"HANDS-ON WORKSHOP ON REAL TIME CONTROL APPLICATIONS OF STM 32 – SERIES I

Department of Electrical and Electronics Engineering conducted a Two days Workshop on "HANDS-ON WORKSHOP ON REAL TIME CONTROL APPLICATIONS OF STM 32 – SERIES I" on 9th – 10th September, 2022.

Conveners   : Dr. V. Rajini
Coordinators : Dr. M.Senthil Kumaran, Dr. K.Murugesan and Dr.K.Usha
Number of Participants : 18

The Course Contents covered during the workshop :

- Introduction to STM32 Processor
- General purpose Input / Output (GPIO) - Interfacing IO Port
- Interrupts - An Introduction
- Introduction to Timers - Capture Compare unit & Timers for Pulse Generation
- Theory of Encoders - Timers in Encoder Mode & Interfacing of Encoder
- Theory of Pulse generation for ESC of BLDC Motor - Interfacing of BLDC Motor
- Timer Application in closed loop control of BLDC Motor using Encoders in feedback.

MY WORKSHOP EXPERIENCE

The Hands-on workshop on control applications using STM32 microcontroller was conducted by the EEE department on 9th September and 10th September. Dr Usha, DR Senthil Kumaran and Dr Murugesan were the organizers and instructors of this workshop. The workshop dealt with register-level programming of STM32 for various control-based applications. Also, the Microcontroller development kits were provided by the department; In addition, students were allowed to explore projects displayed in the laboratory.

EXPERIENCE:

The first day of the workshop started with Dr Senthil Kumaran explaining the pin-out diagram and multiple special purpose registers in the STM32 microcontroller. After an hour of theory sessions which included the architecture, data flow and accessing of registers on the microcontroller, The development boards were distributed to us. Our first task was the traditional ritual of blinking a LED followed by the use of a switch to control the LED, ultimately the morning session ended with us plotting a sine wave using the microcontroller. During the afternoon session, we interfaced an IR sensor with STM32 to measure distance. The later part of the session was solely on TIMERS, the need for them, how to access them, and different mode of operations using timers, were the topics discussed.

The second day focused more on the hands-on experience. With the concept of TIMERS and Capture compare registers (CCP) we programmed the microcontroller to produce PWM (Pulse Width Modulation) signals used in various control and industrial applications. After a brief introduction to BLDC (Brushless DC) motors, The PWM signal produced was used to run the motor and also control its speed by adjusting the width of the pulse and direction of motion of the motor. The workshop ended with a demonstration on plotting the position of the motor using the HALL EFFECT sensor.

Overall the workshop was an impactful experiance and an applausible initiative. Hoping to be a part of many more to come!

-MUTHUKKUMAR RB, 3RD YEAR

QMAX Internship Meeting

Interaction session with the team M/S. Qmax Ion Pvt Ltd and our third, final year BE & second year M.E PED students was held on 14-9-2022 at the department seminar hall. This interaction is mainly to discuss the internship opportunities at Qmax. Qmax ion's main focus is on Li Ion batteries, battery modelling and battery packs.

"MATLAB Simulation of Advanced PWM Inverters"

Conveners: Dr.V.Rajini (Professor and Head)
                    Dr.R.Seyezhai (Professor)
Co-Ordinator: Dr.D.Umarani(Associate Professor)
Resource persons: Dr.R.Seyezhai, Professor
                    Dr.D.Umarani, Associate Professor
                    Department of EEE
                    Sri Sivasubramaniya Nadar College of Engineering

Date: 16.09.2022

Venue: EEE Seminar Hall, Sri Sivasubramaniya Nadar College of Engineering

The workshop on "Matlab Simulation of Advanced PWM Inverters" was organised by the department of EEE, Sri Sivasubramaniya Nadar College of Engineering on 16.09.2022. The event was exclusively conducted for final year students to and around 65 students participated in it. Firstly, the gathering and the resource persons were warmly greeted and introduced with brief profile. The gathering was addressed by the Head of the Department Dr.V.Rajini. The first session was dealt by Dr.R. Seyezhai which turned out to be a brainstorming session on the operation of Impedance source Inverters. The second session was dedicated to MATLAB simulation of Quasi Z-Source Inverter with Simple Boost control and was handled by Dr.D. Umarani. The session concluded with the positive note on the design and implementation of QZSI in MATLAB. The participants of the event expressed their appreciation.

Faculty Development Programme (FDP) on "Renewable Energy Systems Laboratory"

Department of EEE Organized a Faculty Development Programme (FDP) on "Renewable Energy Systems Laboratory" during Sep 26 – 29, 2022. The details are,

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

Number of Participants: 52

The FDP was inaugurated and addressed by Dr. V. Rajini & Dr. V. Kamaraj gave an overview of the program.

Speakers:

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

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

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

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

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

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

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

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

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

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

Day 4/Session XIV: "Practical visualization of all experiments" by Dr.R. Seyezhai, Dr. R. Ramaprabha and Dr. M. Balaji, Asso. Profs./EEE

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

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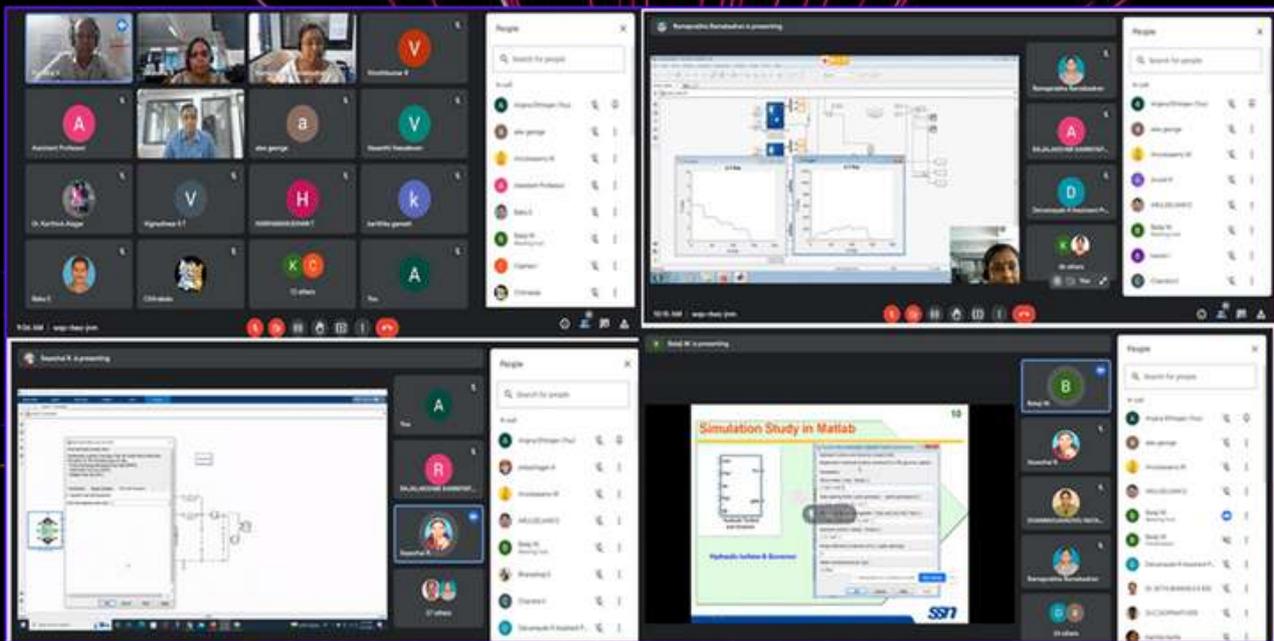
மொழி வளம்

மரம்தான் மரம்தான் !
-கு.முருகேசன்

மண்ணில் வேர் பிடித்து
விண்ணில் நீர் பிடித்து
கிளையில் கனி பிடித்து
மக்கள் மனதில் இடம் பிடித்தது
மரம்தான் ! மரம் தான்! மரம்தான் !

காற்று கொடுப்பதும் மரம்தான் !
கல்லேரிந்தவனுக்கும்
கனி கொடுக்க வேண்டுமென
கற்றுக் கொடுப்பதும் மரம்தான் !
வெட்டி வீழ்துபவனுக்கும்
தன்னை விட்டுக் கொடுப்பதும் மரம்தான்!

புவிஈர்ப்பு விசையை எதிர்த்து
வளர்ந்த முதல் புரட்சியாளனும்
மரம்தான் மரம்தான்!

சுற்றினால் பிள்ளை வரம் கொடுப்பதும்
முற்றினால் தன்னையே கொடுப்பதும்
மரம்தான்! மரம்தான்! மரம்தான்!

மருந்திற்கும் விருந்திற்கும் மரம்தான் !
மண்ணின் மைந்தனே மரம்தான் ! - மனிதன்
சுவாசிக்க காற்று கொடுப்பதும் மரம்தான்!
வசிக்க கீற்று கொடுப்பதும் மரம்தான்!

தோப்பிலும் மரம்தான்
தொட்டி(யி)லும் மரம்தான் !
காட்டிலும் மரம்தான்!
கட்டிலும் மரம்தான்!

வெய்யிலுக்கு குடைபிடிப்பதும் மரம்தான்!
மழைக்கு தலை குளிப்பதும் மரம்தான்!
பலகையை தந்ததும் பல்லக்கை தந்ததும் மரம்தான்!
அது மனிதனுக்கு கிடைத்த வரம்தான்!

பறவையின் கூடும் மரம்தான்!
மனிதனின் வீடும் மரம்தான்!
மணம் தருவதும் மரம்தான்!
பணம் தருவதும் மரம்தான்!

இசையை உமிழும் புல்லாங்குழலைத் தந்ததும்
இலக்கியம் தவழும் ஓலைச்சுவடியைத் தந்ததும்
மன்னனுக்கு சிம்மாசனம் தருவதும்
யோகாசனம் செய்வோர்க்கு நல் ஆக்ஸிஜன் தருவதும்
மரம்தான்! மரம்தான் ! மரம்தான்!

படத்தை பாதுகாக்க போடும் சட்டமும் மரம்தான் !
சட்டம் போட்டு நாம் பாதுகாக்க வேண்டியதும்
மரம்தான்! மரம்தான்! மரம்தான்!

கு.முருகேசன்
இணை பேராசிரியர்
மின் & மின்னணுவியல் துறை

வாழ்வியல்

எந்தன் அழகான பருவம் அது,... மழை நேரம் நனைந்து,.
மண் மீது விழுந்து.,
கண் கட்டி விளையாடி.,
கைக்கோர்த்து கதை பேசி.,
வீதி ஓரம் சத்தமிட்டு ஓடி.,
அன்னை மடிதனில் கதை பல கேட்டு.,
பள்ளியில் புத்தகம் மிதித்து அச்சோ!! படிப்பு வராது என பயந்து,.
பள்ளி பேச்சி போட்டியில் கைத்தட்டில் நனைந்து.,
அன்னை அவள் சேலை அதை நான் கட்டி விளையாடி,.
ஊரார் கண் பட்டு வெட்கத்துடன் தாய் முந்தானை பிடித்து.,
கிழவி கதை, அதை கேட்டு வியந்து இப்போது அவை
உண்மையல்ல என தெரியும் அறிவு கிடைத்தும்......
மீண்டும் அப்பருவம் வேண்டும் என., வேண்டிய பருவமாம் என்
குழந்தை பருவம் அது...
பருவம் கடந்து காலம் கடந்துவிட்டதில்லஅன் வார்த்தைகள் மறைந்து
வாழ்வின் இயல் சமூகம் கனவுகள் மனத்தில் சுமந்து கல்லூரி
எனும் தேடலில் முடிந்து., முடியுமா இந்த சமூகம் நம்மை ஏற்குமா
எனும் கேள்வியின் விடை விதைத்து., உலகின் அழகு கடந்து ,.
நேரத்தின் மென்மை தெரிந்து ., காத்திருப்பின் கணக்கு புரிந்து...
மீண்டும் பின் நோக்கி என் கல்லூரி கடல் கடந்து, பள்ளி படகில்
மிதந்து அந்த குழந்தை ஆக ஆசை ஆகி., தள்ளாடி சாயும் நரை
செல்லும் !! நினைவுகள் உள்ளதே பின் நோக்கி என் காலம்
வேண்டாம்,. இப்படியே நின்று விடட்டும் என்று... நின்று ரசிக்க
நினைவுகள் சேர்த்து வை... கனவுகள் நகர இந் நொடி அதை
நகர்த்த செய் ....
வாழ்வியியல் !...

அபிநயா. அ

STUDENT'S CORNER

ACHIEVEMENTS

Heartiest congratulations to Kovi Sai Sandeep who has got into finals of InQube2022

MY FITNESS JOURNEY

-Harshavardhan J, III-A

Hereby, I'm going to take you through my fitness journey.

March 24, 2020: I weighed around 95kgs and all the things in my head were the times I was bullied and ignored because of my appearance. And I looked in the mirror and told myself you can't look like this and suddenly I wanted to hit the gym and change my eating habits. Unfortunately gyms were shut at that time due to covid-19 and curfew was announced. And I wasn't sure if I'll be able to make this happen at home. I stood in front of the mirror and told myself "Don't care about the process when you are going to love the result". After 3 months I lost around 15kgs. Felt very proud and saw people noticing my hard work. And then I started hitting the gym and was obsessed with the progress but I didn't have proper guidance. I was eating too low and upon time my muscle mass started decreasing and I couldn't perform well in the gym.

I started studying about nutrition and training from many sources and had a clear idea about how to progress in the gym in a healthy way. I was 75kgs in march2022 and then I decided to cut till I get abs and started the cut with 2000cals per day and 140g protein which is a real struggle in hostel and somehow pushed through everything and came down to 66kgs and I wanted my body to look ripped and muscular. But my body didn't look the way I wanted it to look. I looked skinny and that point I realized it's due to the training without proper guidance and I lost a lot of muscle mass from my body. Finally after this three months of progress, control and discipline i felt lean and skinny. So, is this 3 month progress a waste of time? Obviously NOT! I consider this process as cleaning a room .I'll start a lean bulk and pack on some quality muscle and then again cut to make my body look ripped and muscular.
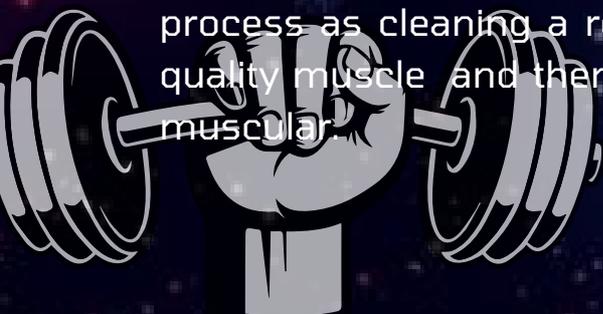
Some key points I want to tell you all are:

1. Patience is the key to reach your goals. Remember no matter how slow your progress is you are better than people who are not even trying.

2. Have no quit and do whatever it takes to reach your goal.

3. Always be focused and acquire more knowledge on your dreams and that's the driving factor to reach your goals.

4. The three mains factors for a healthy lifestyle is a proper high protein diet,resistance training and quality sleep.

5. Change your nutrition, sleep, training your life will change.

6. No matter how hard you work in the gym you can't gain muscle until you add protein in your diet- Bodyweight x2g of protein per day

7. The food you craved for an hour or the body you wished for your lifetime? You decide!

8. I've been hit by life many times but never gave up. At last you will thank yourself for not giving up!

9. Life is not about unicorns and rainbows it's about struggles and progress.

10. Finally the people who trolled me for my looks ask fitness tips from me.

When it was raining..
The gym: "You can stand under my umbrella."

THE NEXT UPI
UNIFIED PAYMENTS INTERFACE

–Kovi Sai Sandeep, III-A

How many of you are Prime Users of E-commerce? Have you ever felt E-Commerce is a Monopoly Game? Do you feel UPI (Unified Payments Interface) made any change your Daily Life? If yes then get ready for the next UPI which could change face of E-commerce.

Open Network For Digital Commerce (ONDC),The UPI of E-Commerce
After the Successful Revolution of Unified Payment Interface (UPI) across the world. The Government Launches a new entity (ONDC) which is a freely accessible platform that aims to democratise e-commerce by moving it from a platform-centric model to an open network for buying And Selling of Good and Services. Through ONDC, the government aims to put in place a Structure for sellers and logistics service provides to connect with Buyers.One of its Objectives is to create a level   playing field for e-commerce giants and small traders, and curb the dominance of Large, Foreign-owned e-Commerce Companies Such As Amazon and Walmart, who controls over half of India's fast-growing e-commerce market.
How will it Work?

On December 31, 2021, ONDC got its certificate of formation as a private sector-led non-profit organisation. Consumers can expect ONDC to make e-commerce more inclusive and accessible. It goes beyond the present platform-centric digital commerce model, in which both the buyer and the seller must utilise the same platform or application to be digitally visible and do business. Consumers can easily discover any seller, product, or service through this platform by using any ONDC-compatible application or platform, giving them more options. Consumers will be able to match demand with the closest accessible supply. This would also allow customers to select their preferred local companies. As a result, ONDC would standardise operations, encourage local suppliers to participate, improve logistical efficiency and increase customer value. Because of three key features in ONDC, including dynamic pricing, inventory management and delivery cost optimisation, the cost of doing business will be decreased for everyone, including merchants.

.

Objective

• The existing platforms work in silos and are tightly controlled, keeping out many small players. It expects ONDC to increase competition and foster innovation by start-ups.

• It also hopes to bring in logistics firms who can collaborate with sellers to deliver products to customers.

• The focus would be on small merchants and rural consumers, with apps in Indian languages.

• ONDC officials liken the network to a mall with 1,000 gates instead of just two, thereby limiting opportunities for selected sellers to receive preferential treatment – a common accusation against major e-commerce companies.

• Users will be able to rate service providers on ONDC, which will be applicable and visible across the network.

Finally, All the credits to Mr Nandan Nilekani,the Father of Aadhar Card In India and the Man behind the Successful Technological Revolution of UPI,Fastag in India. He is also co-founded Infosys. We Hope this programme will bring a new change in the face of E-Commerce

"COMMERCE IS THE AGENCY BY WHICH POWER OF CHOICE IS OBTAINED"

– JOHN RUSKIN

AN OPEN LETTER TO MANKIND

–Harshvardhini M, III-A

At some point in our lives, all of us have come across stories from various sources that has made a strong defying effect on us, a force that might have changed our perspective towards existence! We tend to keep stories like those in our minds and treasure it for the connection it holds. Today I am here to share with y'all one such story I happened to read and no, its not from some great bestselling author's novel! To much of a surprise dear reader, it was a children's story book I first read when I was 8 years old!

The story begins in a jungle, where two elephants, one the mother and other the youngest born were walking through the lands. They suddenly spot a rabbit being chased by a wild dog. The young one asks the mother elephant, "why is the wild dog chasing the rabbit?" The mother replies, "The wild dog is a superior animal in the food chain and tends to hunt over the rabbit which is an inferior species in comparison to the dog". The young elephant seemed to process this as they both continue their walk. They then see a fox chasing the wild dog. Quite surprised, the young elephant asks the mother, "Why is the wild dog being chased by the fox?". The mother replies that the fox is a superior animal in comparison to the wild dog, hence the wild dog is the one being chased here! As they walk further into the jungle, they see a lion chasing the fox. Now the young elephant asks the mother if it is because 'the lion is the superior animal here'. The mother nods and also states that the lion is the apex predator in the jungle.

As they continue their walk, they spot a hunter chase the lion. Now the mother elephant says to its young one, "you see there, that is a human being, the most superior species in existence and their species hunt all animals for their needs". The baby elephant now walks, analysing how all this works. Now to much of both their surprise, the elephants spot the hunter being chased by his boss with a stick. Noticing this, the baby elephant asks, 'a rabbit is scared of a wild dog, a wild dog is scared of a fox, a fox is scared of a lion, a lion is scared of a man' but,
"Why is a man scared of another man!!"

So that is where this short story ends, but with that dear reader, starts a string of questions about 'how we humans conduct our selves with fellow human beings' and many more! Which also brings me to the topic this open letter is based on, 'Human to human respect'. A way of living that is the only correct way of being, which I imbibed from the above story when I read it again at the age of 10.

Today dear reader, as I write this article, A 20-year-old, almost 10 years from the day the above story brought about a change in the perspective and outlook I had towards life and fellow human beings, I am intrigued to think how much has the world faced due to instability in relationships between human beings.

The world war I, that took place in the early 1900s was initially a mere selfish desire of a ruler Kaiser Wilhelm II who wanted Germany to rule the world, for he considered the Germans to be the superior and most powerful race in the world. The World War II that later followed was also due to Hitler and Mussolini's similar greed to dominate the globe. The concept of colonialism and acquisition of territory that has prevailed for ages was to showcase one's power, which proves that people have always believed that its 'strength to dominate others'. A misconception I feel still stays amongst the people, even in 2022!

The origin of human race took place during the prehistoric days. People were usually accustomed to their regions of living and only in the later periods, once travel began, people started discovering different groups of humans living around the world. People used nationality, caste and creed as a way of identifying people from different places. Just like how everyone has a name for ourselves which is our identity, groups of people from various parts of the world were identified using their land of origin, their beliefs and their occupation. Meaning, today's factors for dominance and constant rebel to establish one community or domain of people to be better than the another were once just mediums used for mere identification purposes. My question is, why can't they still be the same! Why use factors that should be used for easier identification of a large mass of people, as weapons to fight the war of discrimination, dominance and inequality?

Great leaders of the world like Nelson Mandela, Martin Luther King Jr., Mahatma Gandhi have all preached world peace and I think the one and only way to achieve it is to come in terms with the eternal fact that we all are human beings trying to lead a life of our own and that we must respect that at the base level. But unfortunately, respect for a fellow human is something we rarely see in today's society. But never will there be a change if we choose to voice out this as a matter of discussion, because one thing human beings find very hard to do is to listen to others! Then what is the solution one may ask...

20 years from now, when the then youngsters refer to the term 'society', they are indirectly referring to us, the youth of today! So, let's pledge to create a society unlike the present, a society that people cannot easily label as a discriminative and destructive one, a society where 'human to human respect' is the first priority, a society where we no more need to preach tolerance towards various communities and groups of people, a society that believes in mutual growth and most importantly a society that believes in 'Live and let live!'

With the belief that I have managed to etch this thought in your mind and heart, and hope that I'll witness one such sunrise, I sign off!

"I AM INFLUENCED MORE THAN EVER BEFORE BY THE CONVICTION THAT SOCIAL EQUALITY IS THE ONLY BASIS OF HUMAN HAPPINESS."

NELSON MANDELA

A CORNER TO PONDER

–Pranav A, III-A

Ep-3: The art of Rejuvenating and Regenerating

Hey there! And welcome to another one of the 'A corner to Ponder' series. It feels immensely gratifying to have my repeat audience and for all those who've just chanced upon this section, let your thoughts run wild and imagine the grandest welcome ever possible. Let's not waste more words in this paragraph and get on with our main motive! Oh and Hey! I think we should add a bit more of a cinematic touch to our section. Whaddya think?

Let's start off on a light note. Hey Harry Potter fans, this one's for you. "Happiness can be found, even in the darkest of times, if one only remembers to turn on the light". Yep! That's exactly what this edition is going to be about.

Agreed, all days aren't the same. All people aren't the same, All situations aren't the same and our responses to said situations aren't the same. As mentioned in one of the previous installments, Individuality is what makes each one of us unique. The diverse set of responses we each own to fit various incidents that occur around us is what makes the world an interesting place.

Putting it bluntly, we all have our own sets of downs in life. Our life may slide downhill when we least expect it and in the most shocking way possible. Sometimes, it's a gradual slope and sometimes, it's a roller coaster ride. After all, what fun is a roller coaster without any hoops or dives? How do you think the world would turn out to be if there were only YOUs all around and no change in personality? Take the sky for example. None of us would like it if it was monotonous and plain. Sometimes, we love to see it bright and sunny, sometimes cloudy but still sunny, cloudy and airy and sometimes, a heavy downpour is what our heart desires.

The journey of life is only beautiful when we apply the factor of uncertainty to it. You never know what will happen the next moment. You never know what response you'd have to give out to combat that stimulus. All will not go according to our plan- no matter how micromanaged it is. With all these tangled ideas, what I really want to convey is- It's okay that things go south and it's okay to feel miserable. What's more important is the hope that things will definitely turn out better, if not today, tomorrow, if not tomorrow, then the day after. In this knitty situation, we mustn't forget to live the moment.

In the words of the wise Master Oogway, "Yesterday is history, tomorrow is a mystery, but today is a gift. That's why it's called the Present." Let us not miss out on the abundant surprises nature has to offer. Every minuscule element in the world has its own beauty- A butterfly flapping its colorful wings, the sound of flowing water, the smell and touch of paper, the salivating sweetness in fruits, the swell of colors all around us, the happy cheers of other people around. Let's not focus so deep onto our negative emotions and forget to embrace the joy that's eternally all around us.

The festival marking this edition- Deepavali- reminds us to do just that. History tells us that Deepavali is the day marking the destruction of evil and birth of hope. The beautiful feeling of warmth of the hearth and care that overflows out of all our hearts is one worth remembering this festival for. The Auspicious proceedings of the acclaimed festival followed by the more fun and LOUD part of it all bring us the joy we need in our hectic life.

But Alas! Temporary distractions only go so far in life. The complete experience is only felt when we dive deep down and analyze the storm that's raging within us. While doing so, it is only natural that questions like "Why?", "How?", "What-if?" and the like arise within us. And sometimes, answers to these questions aren't easy to find.

Even if you've been lucky enough to get answers to at least one of the million questions that pop up, in most cases, it isn't easy coming to terms with the realization that things are not going to be the way you want them to be. Think of them this way, maybe everything that happened, happened for a good reason. *What-if* you have something lavishly better waiting for you in the bright light at the end of the tunnel?

We've all heard people say- If God closes one door, he opens two others. But the real question that lies here is, How many of us have tried going through those doors? Isn't holding on and trudging a common sight these days? So this led me to another realization. *What-if* God does not want us to go through those doors? *What-if* the answers we're looking for, all our lives, lie right before us and we're just too caught up to accept it? *What-if* the solution to our problem is the one we never expected to be? (shrug) Maybe. It's all just speculation. There is no one way to solve the world's problems. Each of us deal with things differently and that's how nature wants us to. Proof? There is no one "standard color" is there? Each aspect of the world has its own hue, its own mood. So each problem to each person has its own variation of the solution. The tough part? Finding out what works for you. Beyond that, it is life as you wish.

So this Deepavali, dive deep into your mind and heart. Observe what holds you back. If you find nothing, then I wish you all the happiness in the world for the next steps in your life. If there is something, even a small something, then I implore you to first acknowledge it and then come to terms with it. And like how light dispels all the darkness around it, eject negativity out of yourselves. Fill yourself to the brim with happiness and hope. It is only then you become a magnet for all the good things Life has to offer. I know it is tough. But the reward is definitely worth it.

See y'all in the next edition of REDEEEM and a very very *happy diwali folks! ;)*

BRUISES

Four giant walls,
painted in blue,
Her face was too.
Behind Gucci shades,
What did she hide?
All those glamorous concealers,
What did they try to cover?

Same roof,
The so-called better half,
Who never understood a 'No'.
Sacred vows,
never did they ever
serve the purpose.

Cigarette butts cried,
looking at the burns they made.
Wine glasses wept,
remembering the massacre
they witness each night.
Shattered vintage mirror
reflected the truth,
"it's not an open-and-shut suicide".

-HIMASAI THUPAKULA, 3RD YEAR

THAT ONE DAY.....

Every dusk comes in with hope,
And every dawn breaks in with light!
Ain't no regret, ain't no remorse
For nothing is hindering the change of course!

As I race through the stream,
And dodge my way through the stone!
Small tinker steps away from the dream,
Rowing towards my change of tone, bold and alone!

Suddenly there's a pause of stillness, unlike ever
A much lighter yet unvanishing tear,
That refuses to fall off, and would probably never!
That hard hitting thunderstorm brings back the old fear.

I hold tight as the boat gets hit,
And watch the storm take away all my grit!
Now pushed back to the shore, I pace up to row again,
It's this one day , I try to fight every day!

-HARSHVARDHINI M, 3RD YEAR

Rain washing fantasy

Cats and dogs it does rain
In the month of spring blossoms!
Haha here's a girl enjoying the drizzles by the window side
With trees conflicting swings
With jerks in the vehicle
Amidst the strong blows against heavy rain
There's a hand that appears emerging from the bluish sky!
Invoking to join hands for a dance...
It's invisible for all others and yes except her

-Sparti, 2nd year
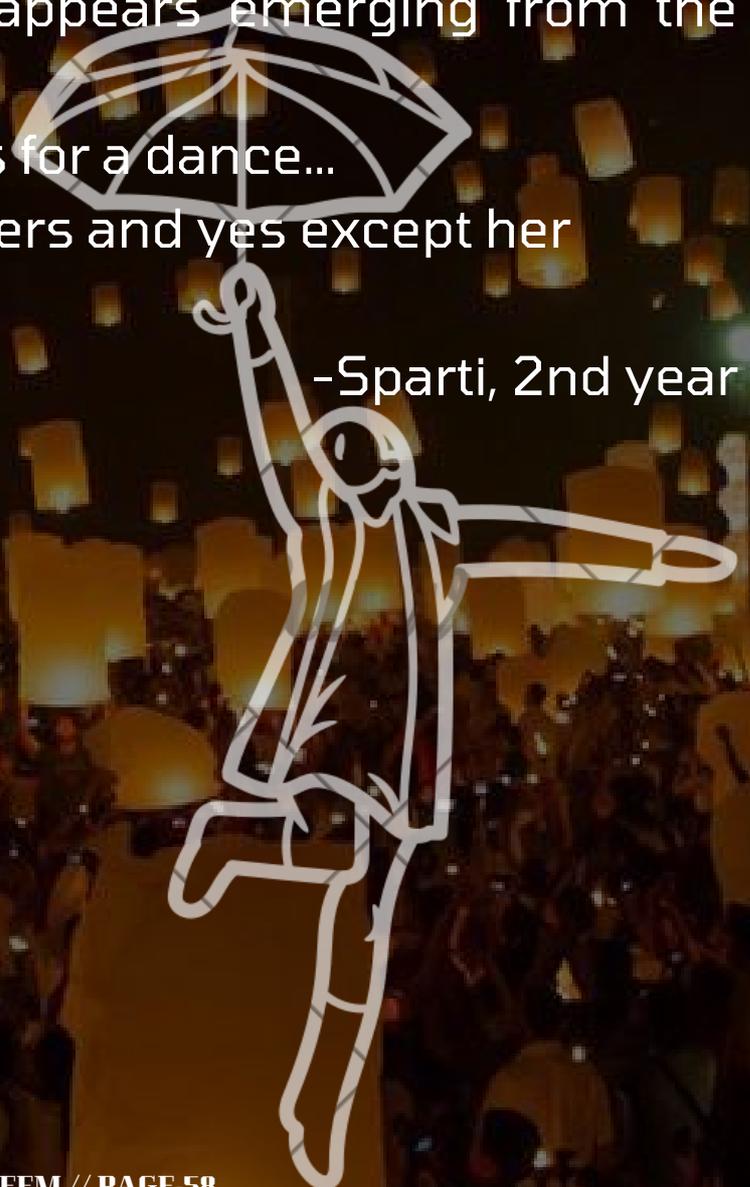
Mystic Lenses

Pradeep P, III-B

Ketha Surya Prakash, III-A

Manikandan, III-A

Akash Raj , III-A

Kumaresh, III-A

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

THE DEGREE AFTERMATH

Placement Experience

-Surabhi S

Company Name: CitiBank
Role: Software Developer
Category: Super Dream
Type: IT
Description: FTE

Online Text Expirience:

The online test was conducted on Amcat platform. It consisted of aptitude, technical MCQs and 2 coding questions. Technical MCQs were based on basics of OOPs. Coding questions can be solved only in C, C++, Java languages.

Interview Experience:
Round 1 - Technical Interview:

It consisted of HR + technical. I was first asked to introduce myself. In the HR part of the interview, I was given with situations asked how I would I react to it. In technical part, I was asked about the projects I have done, basics of ML, python and basics of OOPs. Few extra concepts likely to be asked are: Basics of java and SQL.

Round 2 - HR Interview:

It was conducted in Zoom. I was asked to introduce myself. The interviewer asked about basics HR questions like – why do I want to join the company, strength and weakness. He asked me few situations-based questions too.

Overall experience was good.
All the best!

Placement Experience

-Praveena V K

Name: Praveena V K
Company Name: Optum
CTC: 14.49
Category: Super Dream
Type: IT

1. Online Test:
The test had:
- MCQ type questions on Cognitive Ability, Cognitive Analytics and Technology concepts - 1 mark each
- One coding question – 50 marks

2. Technical Interview
I was first asked to explain the working flow of my ongoing project. Then the interviewer asked me to explain about OOPS concepts. I was asked 2 coding questions – to rotate the elements in an array a particular number of times and to remove duplicate elements from an array.

3. Technical + HR Interview:
- **Technical Questions:**

Again, I was asked to talk about my project and give a detailed explanation of OOPS concepts. Then I was asked to write a code to count the number of times every word in a sentence occurred. The interviewer asked me if I knew about sorting and searching algorithms and I told him I only had basic idea of sorting algorithms. I was asked about the types of joins in SQL. I was asked if I had any knowledge of DSA concepts, HTML and JavaScript and I told him I didn't. He asked me if I'd be willing to learn them if my work demanded it and I said I surely would.

- **HR Questions:**

I was asked about my achievements in the last 1 or 2 years. The interviewer asked me about my extracurricular activities. He asked me how I'd deal with conflicts arising in a group as a leader. I was also asked in what way I was striving to do better as compared to my predecessors in the leadership positions I've been in the past. Overall, the interviewer was very friendly and when I asked him about the areas that I could improve on he suggested I learn Java as most companies use that and additionally learn JavaScript and HTML as well.

"IF YOUR SHIP DOES'NT COME IN, SWIM OUT OF IT!"

— JONATHAN WINTERS

Placement Experience

-Vishal

1. Cognizant (dream):
- **Exam on native platform:** Focused on computer science basic theory, concepts such as networks based on the various levels of the OSI model, basic coding find the output questions, 2 basic coding question.
- **Interview technical:** explain your project, couple of basic non-technical genuine questions based on reasoning for various technologies in the project basic sorting and computer coding questions (such as patter printing, array element manipulations etc,) in coding language of your choice
- **Interview Hr:** Personal details were asked for in this round.

2. Deloitte USI consulting role (Dream) :
- **Exam on AMCAT platform:** Aptitude focused:- find the output and 2 simple coding questions.
- **Interview technical (consulting specific):** Corny riddles such as "I have branches but no leaves, fruits or a trunk, what am I?" (ans. branches of an organization). Few aptitude mathematical questions (how many matches does each team of the IPL play if there are 9 teams and each have to play each other twice in a season) and a few behavioural type questions (google samples).

3. Optum Global Solutions (Super dream) :
- **Exam on native platform:** Aptitude section, Computer science theory (networks, hardware etc) section Mixed bag coding section (Some got straight forward whereas others got DP questions)
- **Interview technical:** Basic math aptitude question (Co-incidentally the same IPL match question with different variables), few basic array manipulation questions (PS, very nice interviewer with collaborative attitude).
- **Interview HR:** namesake

The experience with placements can be summarized with self-confidence, not taking rejections to the heart and not letting successes get to the head. The season starts with Marquee and super dream IT companies, their tests comprise of intermediate to advanced level coding (Mix of logic based, DP and DSA based story problems as well) and aptitude questions, in my experience the tests have been more of a hit and miss, where results are not always what is expected and vary widely. If your goal is to get into one of these companies I would suggest to have at least intermediate level knowledge in coding language of your choice, preferably python due to the built in function (e.g. Sorting which saves quite some time) and practice a lot of interview based questions for your company of choice from geeksforgeeks, leetcode, youtube etc. For those who are interested solely in core companies your placement season doesn't start until very late in the year, they all tend to come after December and please focus your learning and practice specific to the company and JD of your choice all material and information is available on youtube and patterns are similar to that, be vary that the number of members hired by these companies are very less and placements are always relative so be sure to work your hardest towards that and always helps to have a resume focused towards that JD, so based on the placement policies make sure to strategically opt for companies of your choice and use spare time to prepare for it.

The interview rounds are usually dependant on the interviewer itself, but it works in your favour to be as confident, and honest about your knowledge and answers, and they might even collaboratively help you solve questions if they see you at least try. Interviews usually comprise of an introduction, resume discussion, any project discussion couple of OOP concept kind of questions and few basic coding questions.

Placement Experience

-Shruthi C K

Name: Shruthi C K
Company Name: Optum
Role: Software Development Engineer
CTC: 13.8 LPA

We all can agree that Placements is the time everyone is at the peak of their academic pressure. It was the same for me, but the learnings we get from there are something we can carry on for our lifetime. Here we see how technical knowledge and experience along with our soft skills can interplay and impact our lives. It showed me that awareness, motivation, optimism and presence of mind is all we need more than being born intelligent! It also gave me life lessons on how to maintain calm during the storm. Believing that your time will come based on your skillset and believing that you can enhance your skills even if you think others know better is very crucial. I would like to remind the juniors that there is a lot of scope and opportunities for almost a solid 6-8 months period, and more (if you are also open to the off-campus applications). At SSN, we get an excellent bunch of companies coming for us with really great packages, better than what elite central government colleges can offer. So, starting the preparation 2-4 months earlier to the placement process is a great idea, but even if it wasn't possible, there is lot of time and opportunity ahead.

I had to learn from scratch the Python coding since my last hands-on experience with Python was only in first year. I went through the Hacker-rank interview-based questions and practiced the Easy-Medium level questions on Leetcode. Apart from the coding skills, having a quick description of your projects and internships prepared, proved to be extremely helpful. This description should give an outline of what the project is about and how you contributed for it and what you gained out of it in a brief manner. One more thing that I observed throughout my interviews is that the coding questions in the interview rounds can be answered with confidence if you have already gone through that problem, so going through a lot of questions is helpful.

Even in the case where it is a new problem, just try to come up with a solution with a small logical explanation because interviewers are more attracted by the way you think rather than stating the right answer.

Having a decent coding knowledge helps you in more than one way because not just will you have better knowledge but you will be able to clear the Screening rounds and get higher chances of giving an interview. This, in turn enhances your experiences at interviews and so you know better how to give an interview just by giving many.

Again, this was just my style of preparing but the most important part is to reach out to as many people as possible and choose the best strategy for preparation that fits you. Talking and asking help from seniors and your peers from varied departments can shape you though the process and also motivate you towards your goal.

Now, coming to the Optum hiring process, I had to go through three rounds- an Online screening test, a technical interview and a tech + HR interview. The online test contained an easy-medium level question, and MCQs were from Networks, DSA, Reasoning and Data interpretation.

The first interview round contained two coding questions: (i)finding the frequency of occurrence of each letter in a sentence and (ii)printing all the possible combinations of a string of length equal to length of given string. They also asked about stacks, different types of sorts, and the complexity analysis of the code.

This round was more conversational. The interviewer wants to know more about your strengths and abilities. It involved introduction, finding the output of a C++ code based on pointers, general technical questions and a few puzzles.

All the best! Remain calm, enjoy the process and share your experiences with your friends. Wish you all success!

Major tip in the interview is try to explain your solution as you keep going while solving the coding question as it keeps them involved as well and at least if you can't solve the whole question, they might help you out and always be completely aware of what is in your resume and do be wary of falsifying or over-exaggerating on your resume because interviewer can dig deep and they might be suspicious sometimes.

I still remember the start of my placement season extreme anxiety, lot of initial rejections and that's when I confided in my senior and this one line he said stuck with me, "Whatever is meant for you will only come, there's nothing you can do about it." Which turned out to be true, the season can be long frustrating and suddenly you clear the tests get to the interview nail it and suddenly you are in and at that moment it will all feel as if, that's all it was. So it's all about playing the long game, don't lose faith in yourself and don't give up every bad experience is just a lesson, it's all easy for me to say right now but it is the truth.

All the best guys!

ALUMNI SPEAKS

When Leo sir asked me to write this column as an alumnus, I didn't know where to begin. There I was, 20 years out of college, a working professional, mother of two kids... but who turned back into a teenager the moment she arrived at college for a reunion with her batch mates! It wasn't just me, it was all of us who had assembled there, meeting and greeting friends, some literally after two decades! This college has made us who we are, it laid the foundation to the paths which got us here. Four memorable years of not just the allotted studies, but friendships, relationships... all the smiles and the tears...the struggles and the successes... these hallowed grounds have seen them all - ours and more, year on year!

We were the third batch to join SSN College of Engineering, in 1998! Yes, we are an ancient race :)

2002 - when we passed out from college, was the year after the horrific Twin Towers incident. Jobs were scarce, competition was high, morale was low and the future looked bleak. Many had plans for further studies abroad, and they left with hopeful hearts. Some of us others took up whatever jobs we could find around here, as sitting and moping wasn't going to get us anywhere. For quite a few of us, "call-center" jobs gave a hand and pulled us out of the chasm we found ourselves in. My own journey started as "Patricia" in Dell International, where I was supporting Desktop hardware and software installation over phone, for the US customers. A customer-facing job prepares you for life like no other... and there is no place to run and hide, and you have to think on your feet! It was where I learnt that patience is a virtue! :D Imagine getting on a 5-hour call with the same customer, as his system had completely given up on him, but he needed it for an important job at hand. At the end of my stint of 1 year as a customer support representative, I had learnt compassion, empathy and how to give clear guidance so that the other person understands!

Armed with little else but this, I stepped into Cognizant as a fresher, the very next year - and have been here ever since, 19th year running! Yes, I have been with the same company for close to two decades now. In this age and economic situation, it might seem like a big surprise, but I know many friends who are long-timers with their own organizations. Staying in an organization like Cognizant, for a prolonged period of time, is almost the same as moving across companies for different roles. I started as a Mainframe developer, moved on to solution analysis, then project management and finally made it into business analysis. Each role has a distinct learning of its own, which can be carried forward into your next, provided you keep the mind open for learning. Also, there is no point in your career where you stop learning, so no work should be deemed beneath your position. Some of my leads were of a lesser experience than me, but they were seniors in the project I had been inducted into. So I learnt from them, and learnt that they knew a lot more than I did. Every day brought forth new opportunities, new challenges... there were hurdles and pitfalls for sure, times when I felt I had hit rock bottom. The only thing that kept me going was the solid network of friends, colleagues and well-wishers, both professional and personal, that I had built in this home away from home.

Not that different from a college situation, I would say. In college, our friends have our back no matter what! To have a similar feeling in the work environment demands an investment of time and effort from us first, then it would be reciprocated. Another important thing is to keep upskilling ourselves. Now this is a word you are going to keep hearing, until they change it to something else cooler :) Whatever be your skill, it becomes outdated faster than it did a few years ago. Scary though this may seem, it does open up an arena of opportunities to those making the effort to pursue it. IT is no longer about just programming in various languages - it is about IoT, Cloud Computing, Artificial Intelligence, Machine Learning, Data Analysis and a multitude of other newer technologies and areas through which we seek to make our world more accessible, more connected. Final year of college would be a good time to start checking out these and whatever else is trending currently. The internet is full of articles and forums to help with this, as I am sure you all must be aware.

In my opinion though, all these technical competencies will make us feel good about what we are doing, only when we also slow down enough to appreciate the world around us, keep in touch with friends, spend some gadget-free time with our families, look out for each other at work and stay connected, not just on social media. When life throws "googly"s at you, it is not only important to learn how to hit them, but it is also equally important to be OK with the ones we miss :) And when life gives you lemons, be happy, they don't come cheap these days! :D :D

Prabha Ramkumar
CTS
2002 Batch Alumni

THE FUTURE IS COMPLETELY OPEN AND WE ARE WRITING IT MOMENT TO MOMENT.

-PEMA CHODRRON
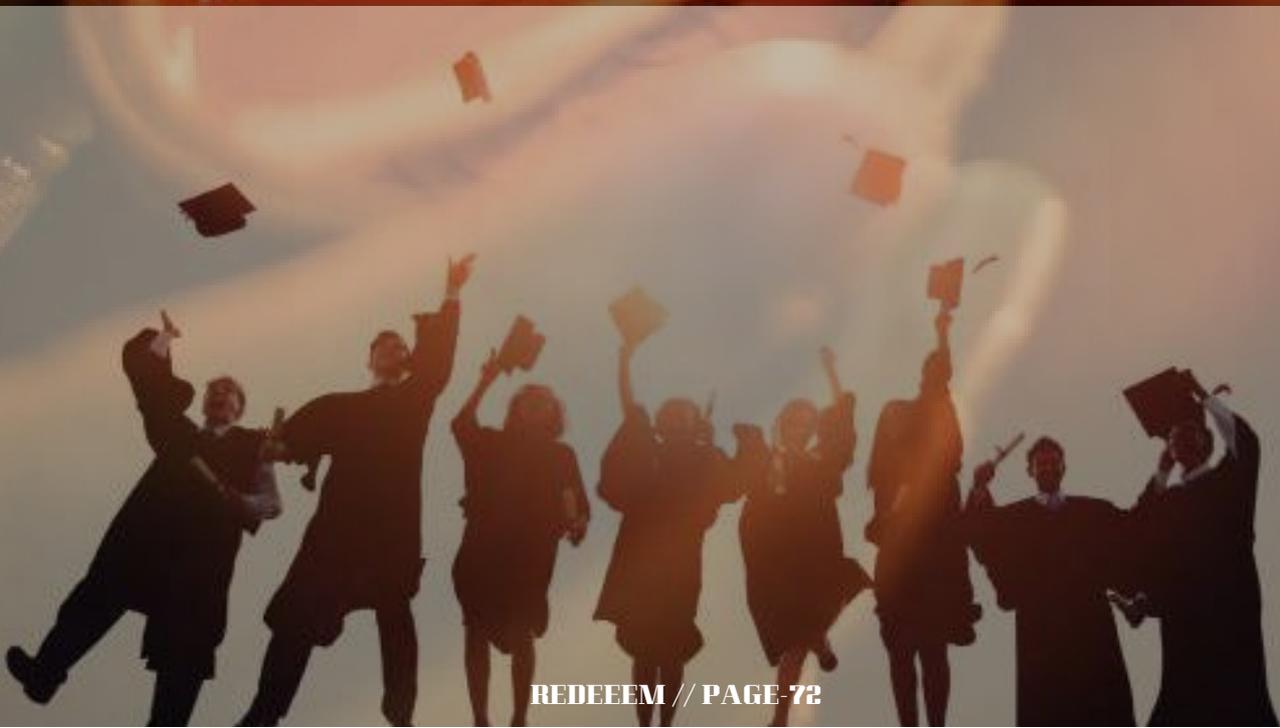
Placement Report

S.No	Name	Company placed	CTC(in LPA)	Category
1	Sukumari Madhavan	TECHNIP ENERGIES	5.8	Core
2	Sarayyu M K	TECHNIP ENERGIES	5.8	Core
3	Bharath Vishal R	TCS	7	Dream
4	S Rohit Kumar	TCS	3.6	Regular
5	Suresh Kumar J	TCS	3.6	Regular
6	Manish K S	TCS	3.6	Regular
7	INIYAVAN B	TCS	3.6	Regular
8	Rajadurai.S	TCS	3.6	Regular
9	Kedhar narayanan	TCS	3.6	Regular
10	Bineshkumar B	TCS	3.6	Regular
11	Manigandan G	TCS	3.6	Regular
12	Jaya abhinaya G	TCS	3.6	Regular
13	Akash S	TCS	3.6	Regular
14	M Veeravaagu	TCS	3.6	Regular
15	V N Amatha Rao	TCS	3.6	Regular
16	Priyadharshini S S	TCS	3.6	Regular
17	Adhi Shankar N	TCS	3.6	Regular
18	Dinesh P	TCS	3.6	Regular
19	Bhargav Bussa	TCS	3.6	Regular
20	Pa Vaisshnavi	Cognizant	4	Regular
21	Bharath Harish.T	Cognizant	4	Regular
22	Rajadurai.S	Cognizant	4	Regular
23	R Sriganesh	Cognizant	4	Regular
24	P R Hari	Cognizant	4	Regular
25	Ansheela Sahoo	Cognizant	4	Regular
26	Keerthana S	Cognizant	4	Regular
27	J Aswin Kumar	Cognizant	4	Regular
28	Balaji S	Cognizant	4	Regular
29	Shree Vishnu R	Cognizant	4	Regular
30	Annapoorna V	Cognizant	4	Regular
31	Sam Alan Antony M	Cognizant	4	Regular

32	Gokul Raghavan AR	Cognizant	4	Regular
33	Barath V.	Cognizant	4	Regular
34	Ayush V A	Cognizant	4	Regular
35	Roshan Derran R	Cognizant	4	Regular
36	R.Sriganesh	Cognizant	4	Regular
37	Anirudh Sethuraman	Amadeus Labs	11.77	Super dream
38	Tahoer Ahmad Mir	Amadeus Labs	11.77	Super dream
39	Nishath Afroza A J	Eurofins	12.75	Super dream
40	T U Nebadhruwa	Eurofins	12.75	Super dream
41	R.Mirdula	Optum	14.4	Super dream
42	Radha Bai CP	Optum	14.49	Super dream
43	Praveena V K	Optum	14.49	Super dream
44	Dhivya Shri A	Optum	14.49	Super dream
45	Marutham Rathna Vali M	Optum	14.49	Super dream
46	Sathyapriyaa R	Optum	14.49	Super dream
47	Jerry Rinalde S	Optum	14.49	Super dream
48	Shalinie S	Optum	14.49	Super dream
49	Pooja S	Optum	14.49	Super dream
50	Varshini Muralidharan	CITI BANK	18	Super dream
51	Sanjana M	CITI BANK	18	Super dream
52	Akshaya Priya T	CITI BANK	18	Super dream
53	V Vaishnavi	CITI BANK	18	Super dream
54	Harish N	CITI BANK	18	Super dream
55	Pradeep Kumar M	CITI BANK	18	Super dream
56	Mirudjini Vijayakumar	CITI BANK	18	Super dream
57	Kaviya Malar AD	TEKION	11	Super dream
58	Srikanth S	Natwest	13	Super dream
59	Harshini J	Natwest	13	Super dream

GRE

The **Graduate Record Examinations (GRE)** is a standardized test that is an admissions requirement for many graduate schools in the United States and Canada and a few other countries. The importance of a GRE score can range from being a mere admission formality to an important selection factor. The approximate cost for taking the test is 205$. The score is valid for 5 years and you can take your test once in 21 days.

Exam eligibility: If you have the documents that prove your identity, you are eligible for writing GRE test . In India it is basically once passport or an international driving licence
Total score = 340

It has 3 main sections :
1) Quantitative Reasoning – essentially maths test – high school level math score range is 130-170
2) Verbal Reasoning – basically a passage comprehension test where passages will be given and questions will have to answered based on those passages score range for this section is 130-170
3) Analytical Writing ability- This is the first section which tests our writing ability. In this section the candidate must attempt 2 essays based on the promp given and follow a particular structure mentioned in the question. The time limit for this section is 1 hour and the candidate must finish each essay within 30 minutes. Each essay is scored out of 6 and the average score would be the average marks awarded to the two essays.

Resources for GRE Preparation:

APP:
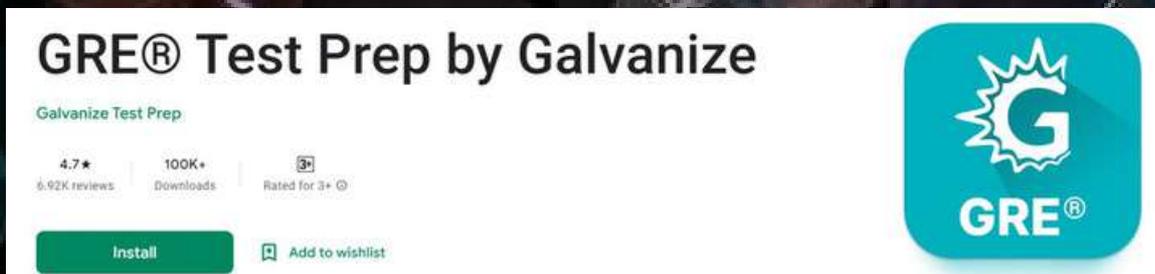
WEBSITES:

ETS GRE website themselves offer plenty of paid and unpaid GRE resource materials

BOOKS:

The ideal book for GRE is "The official guide to GRE General test". Make sure you get the latest version. For practice candidates can refer to Manhattan 5lb book of GRE Practice problem

Scan me for GRE Syllabus

Prep tips for GRE:

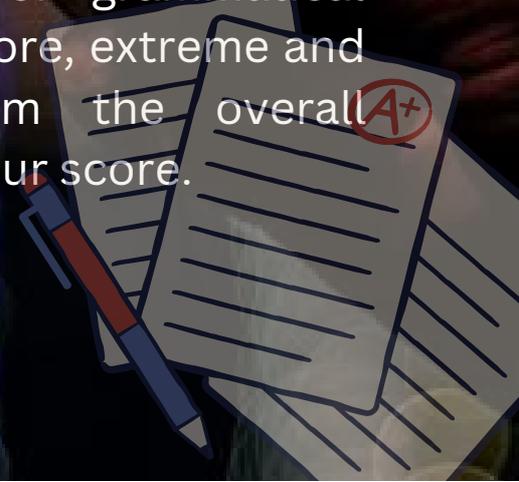1)Take mock test to evaluate your preparation and to concentrate on your not so strong topics.

2)Maintain your own dictionary which consists of all the new words which you have studied during your preparation.

3)Never underestimate the quantitative Reasoning. This section also need practise.

4)Your Verbal Reasoning and Quantitative Reasoning scores are decided by means of the range of questions you answer correctly. nothing is subtracted from your score for wrong solutions. to maximize your rankings on the Verbal Reasoning and Quantitative Reasoning measures, it's best practice to answer every question.

5)work as swiftly as you may without being careless. on the grounds that no question includes greater weight than any other, don't waste time brooding about individual questions you find extraordinarily tough or unusual.

6)Save a couple of minutes on the end of each timed challenge to test for obvious errors. despite the fact that an occasional typographical, spelling or grammatical blunders won't have an effect on your score, extreme and persistent mistakes will detract from the overall effectiveness of your writing and lower your score.
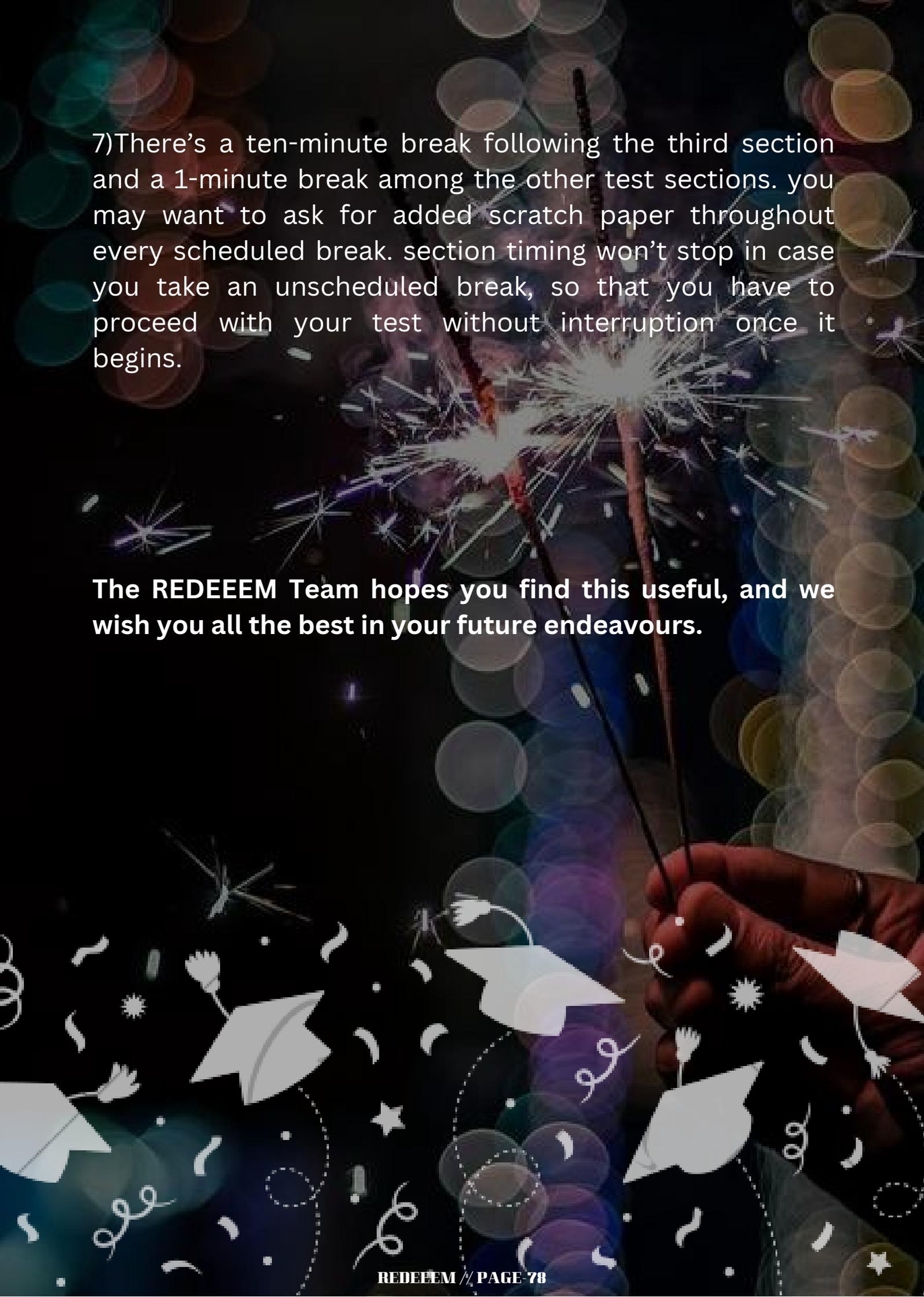
7)There's a ten-minute break following the third section and a 1-minute break among the other test sections. you may want to ask for added scratch paper throughout every scheduled break. section timing won't stop in case you take an unscheduled break, so that you have to proceed with your test without interruption once it begins.

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

CROSSWORD
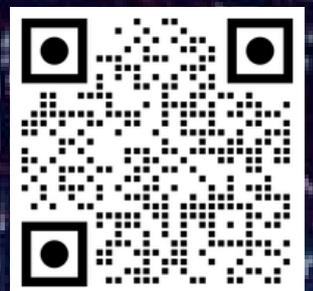
Clues 🔍

<u>ACROSS</u>

1) The answer has 9 alphabets

3)The answer has 6 alphabets

| TRUTH TABLE | | |
INPUTS		OUTPUT
X	Y	Z
0	0	0
0	1	1
1	0	1
1	1	1

5) The answer has 2 words

DOWN

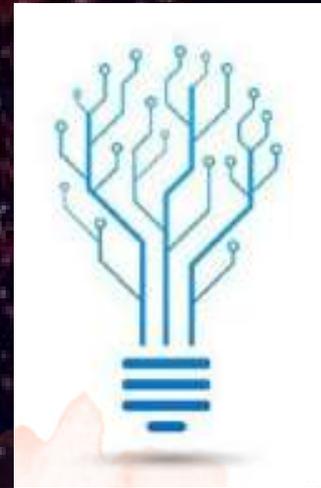2) The answer has 2 words- the first word has (10 alphabets and second word has 7 alphabets)

6) The answer has 2 words the first word has (4 alphabets and second word has 8 alphabets)

7) The answer has 2 words the first word has (4 alphabets and second word has 10 alphabets)

"No sun outlasts its sunset but will rise again and bring the dawn!"