ST JOSEPH ENGINEERING COLLEGE

VAMAMJOOR,MANGALURU-575028

An Autonomous Institution

Affiliated to VTU Belagavi, Recognised by AICTE New Delhi, Accredited by NAAC with A+ grade

PRODIGI EXPRESS 2022

VOLUME XI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACCREDITED BY NBA, NEW DELHI

St Joseph Engineering College - Vamanjoor, Mangaluru

St Joseph Engineering College (SJEC) is an Autonomous Institute under Visvesvaraya Technological University, Belagavi Karnataka State, and is recognized by the All-India Council for Technical Education (AICTE), New Delhi. SJEC is registered under the trust "Diocese of Mangalore, Social Action Department".

Established in 2002, the College offers top-class education in Engineering, Business Administration and Computer Applications at UG, PG and Research levels. It has well-qualified staff, state of the art laboratories and all facilities. Presently about 2900 students are studying in the College.

The UGC granted autonomous status to the Institute from 2021. At SJEC, the OBE system has been implemented since 2011. Four of the UG programs, namely Computer Science & Engineering, Mechanical Engineering, Electronics and Communication Engineering, and Electrical & Electronics Engineering, have full accreditation from the NBA until June 2025. Also, the institution has been accredited with A+ grade by NAAC and is valid up to February 2026.

The College provides for a wide variety of co-curricular and extra-curricular activities, which give a head-start to students to develope their personality and imparting skills of decision-making and leadership. Campus Placement Department assists students to secure good jobs.

The Department of Electronics and Communication Engineering was setup during the inception of the college in 2002. With the effort of well qualified faculty and best infrastructure, the department has grown from strength to strength in the last two decades. Currently, the student intake is 120 at the UG level .Also, the VTU has approved the department to offer Ph.D / M.Sc (Engg) by research from 2015. The faculty of the department are actively involved in teaching and research with specializations in Communication, Signal Processing. Embedded System and VLSI. The department encourage students to present papers in symposium, conferences and to participate in various intercollege technical and nontechnical events.

The department is well equipped with state-of-art laboratories with the latest tools such as Cadence VLSI Design Suite, Xilinx Vivado-2018, MATLAB 2018, ARM CORTEX, LabVIEW, Multisim and NEXYS 4 DDR Artix-7 FPGA Board, to make students Industry ready. In addition, the department has Biomedical Electronics Research Lab and “Samarthya Club” to encourage students to develop projects in the field of biomedical signal processing in association with Father Muller's Research Centre and Hospital. The department has MOU with "Karmic Design Pvt Ltd, Manipal to facilitate the students in semiconductor chip design. The department actively organizes Industry visits, Workshops, Technical talks from Industry/Academic experts in order to enhance their learning abilities, creative thinking and also to bridge the gap between the Industry and Academia.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VISION

"To Excel in Electronics and Communication Engineering Education and Research, focusing on the needs of Industry and Society, with professional ethics"

MISSION

- **Provide opportunities to deserving students for quality professional education in the field of Electronics and Communication.**
- **Design and deliver curricula to meet the changing needs of industry through student centric learning methodologies to excel in their profession.**
- **Recruit, Nurture and Retain best faculty and technical manpower.**
- **Consolidate the state-of-art infrastructure and equipment for teaching and research activities.**
- **Promote all-round personality development of the students through interaction with alumni, academia and industry.**
- **Strengthen the Educational Social Responsibilities of the Institution.**

PRODIGI

PRODIGI is a student association of the Electronics & Communication Engineering Department. The word 'PRODIGI' means a young person with exceptional qualities or abilities - a name befitting each and every member of the association. The association is spearheaded by the student office bearers and student members along with the guidance of HOD and the faculty coordinators. Association is an intellectual hub for nurturing creative, inherent and inert talent. It conducts technical talks by renowned resource persons from academia and industry, peer learning talks, workshops and other extracurricular activities throughout the year.

PROGRAMME EDUCATIONAL OBJECTIVES

I. To provide students with a solid foundation in mathematical, scientific, Electronics and Communication engineering to analyze data and technical concepts for application to product design and also to pursue higher education.

II. To train students with good scientific and engineering breadth, including proficiency in software language and use of latest software tools so as to comprehend, analyze, design and create novel products and solutions for the real life problems.

III. To develop skills in students for successful careers in industry that meet the needs of Indian and multinational companies, through rigorous education.

IV. To inculcate in students professional and ethical attitude, effective communication skills and teamwork. multidisciplinary approach, and an ability to relate engineering issues to broader social context.

V. To provide students with an academic environment to become aware of excellence, leadership, written ethical codes and guidelines, and the life-long learning needed for a successful professional career.

PROGRAMME OUTCOMES

Engineering Graduate shall be able to

1. Apply knowledge of mathematics, science and engineering fundamentals, and Electronics and Communication Engineering for the solution of engineering problems.

2. Identify, formulate and solve engineering problems.

3. Design electronic systems, components or processes to meet desired specifications within realistic constraints of economic and environmental standards.

4. Design and conduct experiments, as well as to analyze and interpret data pertaining to electronic systems.

5. Use computer aided software tools and techniques for solving electronics and communication engineering problems.

6. Demonstrate awareness of contemporary engineering problems.

7. Apply engineering solutions in societal and environmental context.

8. Understand professional and ethical responsibility.

9. Function within multidisciplinary teams.

10. Communicate effectively in terms of system specifications within the team.

11. Demonstrate the understanding of management principles as applied to the specified work and apply this knowledge to manage the projects as a member and leader in a team.

PROGRAMME SPECIFIC OUTCOMES

1. Analyze and develop solutions in the areas of Signal Processing & Communication Systems.

2. Apply knowledge of embedded systems and VLSI to design and develop solutions for societal problems.

PRODIGI OFFICE BEARERS

President

Mr Joel Mascarenhas

Vice-President

Mr Muhammad Kaif

Secretary

Mr Sanketh shettigar

Treasurer

Ms Sahana P H

Joint- secretary

Ms Thejasvi Rao

FACULTY COORDINATORS

Ms Padmini Bhat

Dr Sandhya Dass

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MESSAGE FROM THE HOD

As we know, the field of Electronics and Communication Engineering is constantly evolving and advancing. From the invention of the transistor to the development of 5G technology, the advancements in Electronics and Communication Engineering (ECE) has a profound impact on the real world. But, as we look in to the future, we must also acknowledge the challenges that lie ahead. From the need for more reliable and efficient communication systems to the increasing demand for connected devices and the Internet of Things, the demand for ECE is exponentially growing. So it is important that, we as members of the ECE Association, continue to work together to push the boundaries of what is possible through our research, projects or our collaborations. We must strive to drive innovation and make a positive impact on the world. As we move forward, I encourage each and every one of you to embrace the challenges ahead and to work together to create a brighter future for our field and for all those who will benefit from our advancements.

The ECE Department Association **'PRODIGI'** is something amazing, outstanding abilities of students with exceptional qualities. This will help students to explore, improve the team spirit and enhance the technical skills.

I am honored and happy to say that our **'PRODIGI'** office bearers with supporting Department coordinators have brought out this beautiful magazine of ECE Department. This magazine highlights the activities conducted in the department such as short term training program on Microcontroller Design, Design of Self Balancing Robot, Workshops on AI & ML, Writing Literature Review, Industrial Visits to BHEL, Centre of Nano Science, Outreach activities to help, guide, train in adopted villages. Also, we had good number of interactions with our Alumni and Industry people from various Industries such as, SI -FIVE, MedikaBazaar, L & T Infotech, MATHWORKS, Continental Automotive India, KarMic Design Pvt. Ltd., Life Signal Pvt. Ltd. etc.

In conclusion, I would like to express my heartfelt appreciation to the **'PRODIGI'** team and all the students who have made this magazine a reality. Your passion, dedication, and commitment to the field of Electronics and Communication Engineering are truly inspiring, and I am proud to be part of such a talented and motivated community. I am confident that the **'PRODIGI EXPRESS'** will serve as a valuable resource for our members, providing them with the latest information, insights, and inspiration to help them in their studies and careers. I encourage all of you to keep up the great work.

Be positive in all your future ventures since a positive thinker will only see an opportunity in a cluster of problems. I congratulate the whole team for bringing out this beautiful magazine **'PRODIGI EXPRESS'** for the Academic Year 2021-2022 and wish you all the best.

Dr Dayakshini

HOD-ECE

MESSAGE FROM THE EDITORIAL

Dear Reader,

Greetings to you!

I am delighted to present to you the momentous magazine “Prodigi Express”. “Prodigi Express” provides an insight into the ethos of the department and revels in capturing the exhilarating flash-back of the inception of our department, its illustrious journey in 2021-22. Through this magazine, I am pleased and honored to share with you the activities held in the department and achievements of staff and students. Enjoy the journey of pictures and images within the pages that speaks volumes about enriching events, activities and celebrations held in SJEC.

I extend my heartfelt and genuine gratitude to the support rendered by the management and members of editorial team for their assistance in the course of compilation of this edition. I would like to place on record my special thanks to HOD and faculty members for their constant support.

Your genuine reviews are most welcome.

Happy reading!

Ms Padmini Bhat

EDITORIAL TEAM

Ms Padmini Bhat

Ms Divya K.V

Ms Rajitha k.R

Ms Niveditha P

Mr Ahisam Sheikh


DEPARTMENT
ACTIVITIES
MATLAB
SIMULINK®
cadence
SYNOPSYS®

Advanced Digital System Design Using FPGA
Date: 16-31 August 2021

Resource Person: Mr Vijay Ganesh P C & Mr Mahesha Y, Assistant professors in ECE Department, SJEC

Objective: To extend the Microprocessor design developed during the Phase I to a Microcontroller by introducing additional Peripherals and to develop simulator/compiler for the hardware developed.

Design of Self Balancing Robot using PID Controllers
Date: 15-17 September 2021

Resource Person: Mr Mahesha Y, Ms K Aarya Shri, Ms Jayalakshmi K P, Ms Priya Seema Miranda- Assistant professors in ECE Department, SJEC

Objective: To learn the basics of the closed-loop control system and the PID Controllers and to familiarize PCB Design and get hands-on experience on the same. To Design a Self-Balancing Robot.

Outreach programme for the final year ECE students
Date: 16-17 September 2021

Objective: ECE department had conducted an outreach programme for the final year ECE students at Navoor, the adopted village of SJEC. Mr Prasad S M & Ms Avila Priya Pinto Assistant professors ECE Department, SJEC coordinated this Programme. Ms Deepthi S R & Ms Rupal Dsouza Assistant professors accompanied the students.

Career and Internship Opportunities at coreEL Technologies
Date: 11 October 2021

Resource Person: Mr. Arun John Mathias, Manager-Sandeepani, CoreEL Technologies India Pvt. Ltd. Bengaluru

Objectives: To familiarize students with current Industry requirements mainly on ASIC and FPGA designs. To provide knowledge about core Industry opportunities.

Industry Orientation Activity - Writing a Literature Review
Date:04 December 2021

Resource Person: Dr Dayakshini, Professor and HOD, **Dr Phalguna P S,** Associate Professor **& Mr Glenson Tony** Assistant professor, ECE Department, SJEC.

Objectives : To familiarize the significance of literature review in the research and projects. To identify the steps involved in writing literature review. To add Citations and References in Word.

Recent Trends in Advanced Industries
Date: 12 December 2021

Resource Person: Mr Himanshu Kumar, INDWELL Automation.

Objective: To familiarize the role of Industrial Automation in manufacturing Industries and hands on session on PLC programming.

Artificial Intelligence and Machine Learning (AI & ML)
Date: 24 February 2022

Resource Person: Dr Ashok Rao, Former Head, Network Project, CEDT, IISc., Bengaluru.

Objective: TO provide insights in AI, MI and Deep Learning with real time applications.

MoU with KarMic
Date: 11 March 2022

MoU with KarMic was renewed on 11 March 2022 in the presence of Director, Assistant Director, Principal, HOD, Faculty coordinators and Mr Puneeth Kumar Director of KarMic.

Objective: To impart the knowledge in the field of VLSI Design between faculty and students of SJEC and Engineers of KarMic.

Business Model Canvas
Date: 4-6 April 2022

Resource Persons: Dr Dasharathraj K Shetty, Associate Professor at the Humanities Department of MIT Manipal, and **Mr Sathyendra Bhat,** Placement Officer & Head of Training & Placement Cell.

Objective: The tailored hands-on workshop had engineering and management students and faculty who had a walkthrough of the "Business Model Canvas", and its implications with an emphasis on the financial aspects of running successful businesses.

Peer Learning Session on AI & ML
Date: 12 April 2022

Resource Persons: Ms Swathi Rai M, Ms Priyanka Divakar Naik, Mr Dillan Rainer Pereira and Mr Lanwin D'Souza, students from second year ECE.
Objective: Introduce to the significance and future scope of AI, ML & DL in the today's world.

Advanced Digital System Design using FPGA
Date: 18-23 April 2022

Resource Persons: Mr Mahesha Y, System Engineer, Life Signals Pvt.. Ltd., Bangaluru, **Dr Rohan Pinto, Dr Phalguna P S,** Associate Professors,**Mr Vijay Ganesh P C, Ms Deepthi S R,** Assistant Professors, Department of ECE.

Objective: To analyze and design the basic building blocks of digital systems using FPGA & to design a Microprocessor using RISC ISA architecture.

An Industry Interaction with MathWorks and ECE Faculty
Date: 21 April 2022

Resource Person: Mr Vinay Subrahmanya, Accounts Manager, MathWorks, Bengaluru.

Objective: The involvement of MathWorks and CoreEL Technologies teams in the curriculum development of the autonomy syllabus and integrated labs for higher semesters.

Alumni Interaction
Date: 23 April 2022

Resource Persons: Mr Dylan Pinto-Deputy General Manager, Medikabazaar- ECE Class of 2006 & **Mr Joylan Andrade,** Senior Manager - Projects L&T Infotech Private Limited, ECE Class of 2006.

Objective: Opportunities for EC Engineers in the field of medical equipments and importance of project management for the students.

Sensor Systems and Applications
Date: 28 April 2022

Resource Person: **Mr Claran Martis**, PhD Scholar, Electrical Engineering, Stony Brook University, New York, USA, Alumni ECE Class of 2016.

Objective: To understand the basic concept on sensor systems and applications.

Industrial Visits for the Students of Third Year
Date: 2-3 June 2022

The Department organized industrial visits for the students of third year to BHEL Electronics Division & Centre for Nano Science Engineering (CeNSE) Bengaluru. Four faculty members accompanied 74 students.

Objective: Introduce students to newer and advanced technologies practiced in Industries.

Alumni Interaction
Date: 6 June 2022

Resource Person: Mr Sagar Nayak, Embedded Software Engineer, Silicon Engineering R&D Department, SI-FIVE, alumnus batch of 2021.

Objective: An insight about the importance of good projects, internship, preparations for the core jobs.

CROESO
Date: 21June 2022

CROESO- A branch entry program to welcome 3rd and 2nd year students was organized by the final year students at Kalam auditorium.

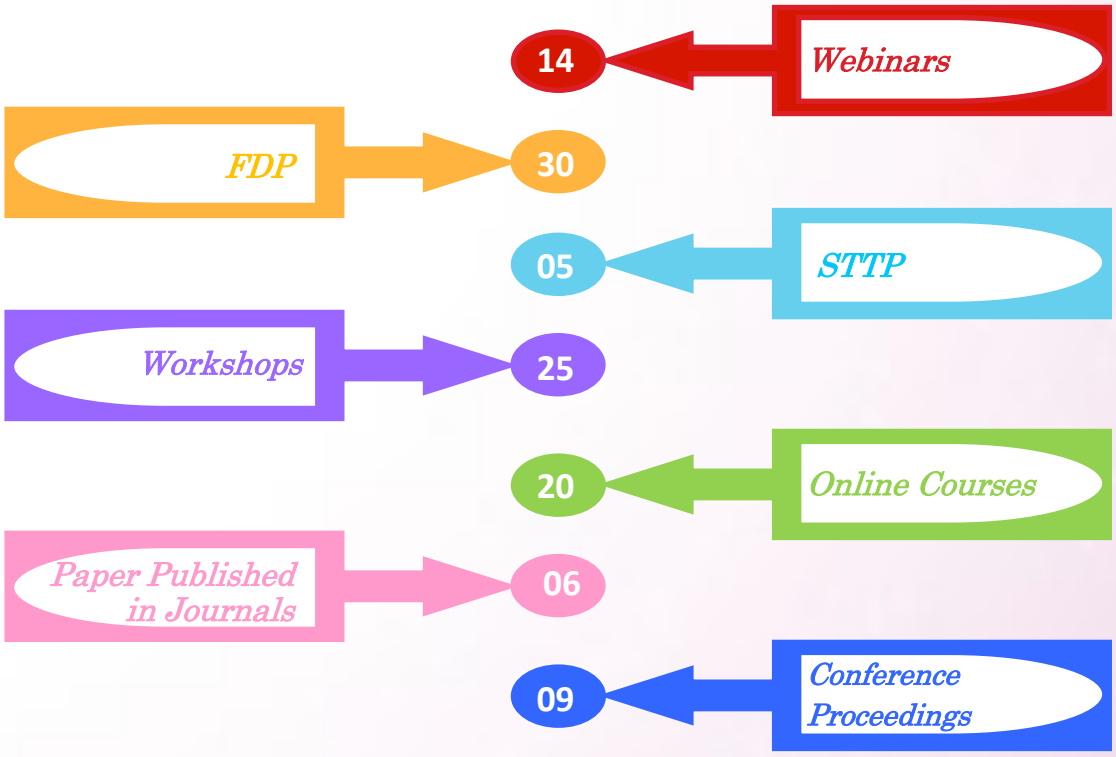
Know Your States
Date: 12 August 2022

PRODIGI and ISTE student chapter SJEC jointly organized a competition for second year ECE students on the topic **" Know Your States- A team presentation"** on the occasion of Azaadi ka Amrit Mahothsav.

Farewell program
Date: 25 June 2022

PRODIGI had organized a **farewell** program for final year students at Kalam auditorium. Pre final year students hosted the event with the theme **CIAO.** Outgoing students were felicitated with mementoes.

FDP/WEBINAR/ STTP/WORKSHOP / ONLINE COURSES /PAPER PUBLISHED BY FACULTY



ACHIVEMMENT OF FACULTY

Ms Deepthi SR , received KSCST Grant of Rs 45,000/- under Faculty Project Program for the project titled- "Automated Rubber Tapping & Rubber Milk Mixing Machine".

KSCST FUNDING

Ms Sharon Frank, Mr Ashwin K S, Mr Melroy Almeida and **Mr Karan B** have received Rs 6000/-for the project titled **"Autonomous Carrier Robot"** under the guidance of **Ms Deepthi S R**, Assistant Professor, ECE and **Dr Binu K G**, Associate Professor Department of Mechanical Engineering.

SJEC SEED MONEY

Ms Nandini Maninarayana Received a seed money of Rs 36,450/- for the project proposal **" Dynamic assessment of motor function of lower limbs using pressure sensors"**

Dr Phalguna P S Received a seed money of 2,20,000/- for the project proposal **" Implementation of PQC Algorithm using ring - LWE".**

Dr Rohan Pinto Received a seed money of Rs 30000/- for the project proposal **"Design and development of Voice Quality detection device".**


STUDENT
ACHIEVEMENTS
SUCCESS
ACTION
PLAN
GOAL
VISION

TOPPERS

IV YEAR

KAVYASHREE

MOHAMMED RASHIK

SANJAY SHANKAR BHAT

III YEAR

JYOTHIKA K

JASON LYNEL BRAGGS

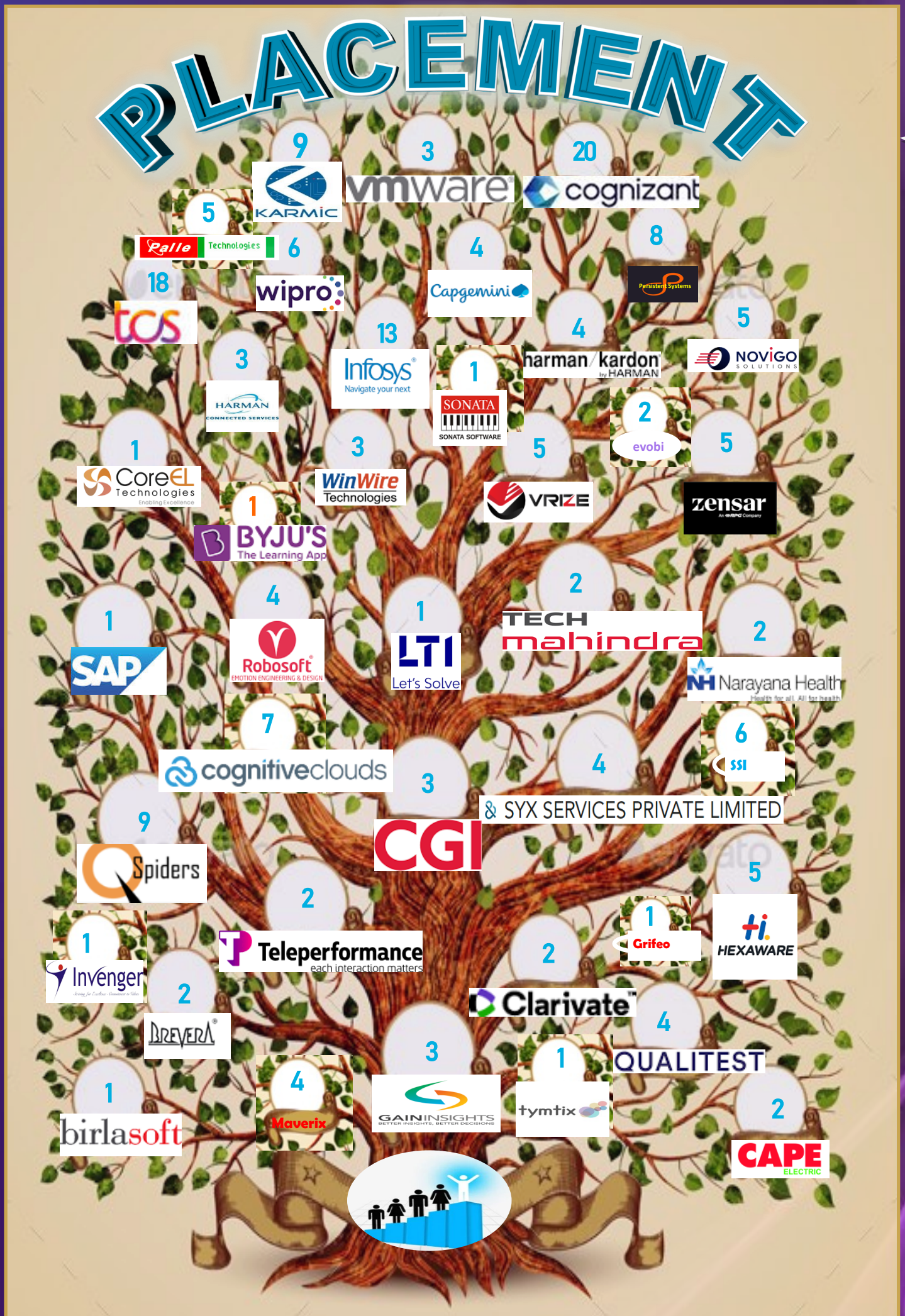
GURU PRASAD MAYYA

II YEAR

PRASHANTH PARASHURAMA KOTI

SWATHI RAI M

ANUSHREE G MARALIHALLI


PLACEMENT
9
KARMIC
3
vmware
20
cognizant
5
Ralle Technologies
6
4
8
18
wipro
Capgemini
Persistent Systems
tcs
13
4
5
3
Infosys
Navigate your next
1
harman kardon by HARMAN
NOVIGO SOLUTIONS
HARMAN CONNECTED SERVICES
SONATA
SONATA SOFTWARE
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evobi
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3
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5
CoreEL Technologies
Enabling Excellence
WinWire Technologies
VRIZE
zensar
1
BYJU'S The Learning App
2
4
1
TECH mahindra
1
2
SAP
Robosoft
EMOTION ENGINEERING & DESIGN
LTI
Let's Solve
Narayana Health
7
6
cognitiveclouds
SSI
4
3
& SYX SERVICES PRIVATE LIMITED
9
CGI
Spiders
5
2
1
Grifeo
HEXAWARE
1
Teleperformance
each interaction matters
2
Invenger
Clarivate
2
4
BREVERA
3
1
QUALITEST
4
1
tymtix
2
birlasoft
Maverix
GAININSIGHTS
BETTER INSIGHTS, BETTER DECISIONS
CAPE
ELECTRIC

ACHIEVEMENTS OF STUDENT'S

Ms Angelica Albuquerque, Mr Manish Rodrigues, Mr Ale Rasool and Mr Marwin Serraro, final year students of Electronics and Communication Engineering, have been awarded First Prize in **"Ideation drive for health and allied professional 2021"** for the submission of "Idea Design and Development of Vocal Care Device for Teachers" held at DST-NUTEC on 6 December 2021.

Mr Manish Ajay Rodrigues, student of second year Electronics and Communication Engineering has secured First Place in **"Wired-Incredia 2022"** held at NMAMIT Nitte, on 14 May 2022.

Mr Leethesh, student of second year Electronics and Communication Engineering has secured First Place Robo Giant war, Second Place in **Thunder bolt in "Sambhram 2022"** held at SDIT during 5-6 June 2022, Second Place in **"Drone Edge"** held at **Sentia, MITE** during the 15-16 April 2022 and **"Plasma 2K22"** (Line follower) held at JNNCE, Shimoga, during 30-31 May 2022.

Mr Likith, student of second year Electronics and Communication Engineering has secured First Place in **"Sambhram 2022" (Robo Giant war)** held at SDIT during 5-6 June 2022, Second Place in **"Plasma 2K22"** (Line follower) held at JNNCE, Shimoga, during 30-31 May 2022.

Mr Revanth A, student of second year Electronics and Communication Engineering has secured Second Place in **"Sambhram 2022"** (Robo Giant war and Thunder bolt) held at SDIT during 5-6 June 2022.

Mr Samarth U and **Mr Sanjay Shankar Bhat**, final year students of Electronics and Communication Engineering, has secured Second Place for presenting a paper titled **"Detection of Leukemia using CNN"** during the **"Jnana Sangama 2022"**- National Level Student Conference held at VCET Puttur on17th June 2022

Mr Adithya Rao, student of second year Electronics and Communication Engineering has Passed NCC Certificate-B under Ministry of Defence, with A grade during March 2022.

Ms Shreya J Shetty student of third year Electronics and Communication Engineering has achieved the golden badge in **"Pratilipi"** during May 2022.

Ms Ishika, Ms Spoorthi Rai, Ms Jenisha and Ms Apoorva, students of third year Electronics and Communication Engineering have been selected for **"Seed Brains Innovation Award 2022"** organized by Cambridge Institute of Technology, Bengaluru, held on 9 April 2022.

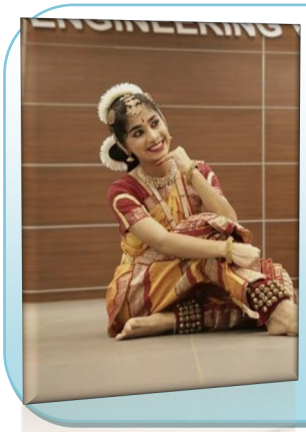
Ms Hrithika C M, student of second year Electronics and Communication Engineering has participated and bagged the First Place in **"Women's Hockey"** held on 20 January 2022.

Mr Aren Joy Fernandes, student of third year Electronics and Communication Engineering has secured First Place in **"Classic Powerlifting Nationals 2021-22"** held at Alleppey, Kerala between 9-13 April 2022 and secured overall Sixth Place in **"World Classic Powerlifting Championship 2021"** held at Halmstad, Sweeden during 23 September -2 October 2021.

Ms D Thejasvi Rao, final year student of Electronics and Communication Engineering has secured First Place in **"Groove Eastern Dance"** event conducted on the occasion of state level Intercollegiate cultural, technical and management fest, held during 15-16 April 2022 at NMAMIT, Nitte.

Mr Gawrav G Salian, student of second year Electronics and Communication Engineering has secured First Place in **"Inter Collegiate - Rest of Bengaluru Zone- Chess Competition"** held at SJMIT, Chitradurga during 22-23 June 2022 and Second place in **"Aakriti 2022"** (Chess) held at Canara engineering college, Benjanapadavu during 26 - 28 May 2022.

Ms Neha M S, student of second year Electronics and Communication Engineering participated and secured the Runner Up in **"Inter Collegiate Mangaluru Zone Badminton Tournament "** held at NMAMIT Nitte, on 16 November 2021.



Ms Akshatha, student of second year Electronics and Communication Engineering has cleared in

Bharatanatya Senior with Distinction conducted by KSEEB held during March 2022.

Ms Sharvari Navada, student of third year Electronics and Communication Engineering has been awarded the "Best paper Award" for paper titled "Review on Brain Tumor Detection using Image Processing Techniques" during 2022 International Conference on Research Method held at Asia university Taiwan on 7 June 2022, also she has been awarded the Certificate of Excellence for her incredible performance in cultural and talent show during "IUCEE Annual student forum 2021" organized by IUCEE, from 3 -5 September 2021 and invited to be a panellist for panel discussion on "Addressing the student needs" during the Mini Symposium on "Effective Practices in Teaching- Learning" organized by IUCEE on 23 April 2022

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Mr Shreesha K J, Ms Sanidhya H K, Mr Sherwin Bryan Soans, and Mr Shreyas Narayan P G final year students of Electronics and Communication Engineering, has been awarded the certificate of Recognition for the innovative concept on **"Optimized resource allocation approach to minimize the retransmission in URLLC"** during the TECHGIUM 5th Edition organized L&T technology services during year 2022

Mr Prashanth Koti, student of second year Electronics and Communication Engineering has been awarded NCC Navel Wing Best cadet of the year 2021-22.

ECE GRADUANTS 2022

ECE SECTION B

ECE GRADUANTS 2022

ECE SECTION – A

ECE BLOGS

ನೀನಿರುವ ಧೈರ್ಯದಲಿ...

ನಿನ್ನ ಕೈ ಬೆರಳ
ಮುಷ್ಟಿಯಲ್ಲಿಡಿದು
ಪುಟ್ಟ ಪುಟ್ಟ
ಹೆಜ್ಜೆಯನ್ನಾಕುತ
ನಿನ್ನ ಹಿಂಬಾಲಿಸುತ್ತಿದ್ದ
ನಾ ಅಂದು
ನಿನ್ನ ಕೈಗೆ ನಾ ಕೈ
ಬೆಸೆದರು
ನಿನ್ನ ನೆರಳಲ್ಲೇ ಹೆಜ್ಜೆ
ಹಾಕುವೆ ನಾ ಇಂದು
ನಿನ್ನ ನೆರಳಲ್ಲೇ ಬಾಲ್ಯ
ಕಂಡ ನಾನು
ಈಗಲೂ ನಿನ್ನ ಗೂಸು..
ನಿನ್ನ ಹೆಗಲೇರಿ ಆಡಿದ ಆಟ
ಈಗಲೂ ಹಸಿಯು..
ಸದಾ ನಿನ್ನ ನೆಚ್ಚಿನ
ಮಗಳಾಗಿ ನಿನ್ನ ಪ್ರೀತಿಯ
ಮಗುವಾಗಿ
ನಿನ್ನ ಹೆಗಲಲ್ಲಿ
ತಲೆಯಿಟ್ಟು ಪ್ರಪಂಚ
ಮರೆಯುವೆ ನಾ
ಎಂದಿಗೂ...
ಎಂದೆಂದಿಗೂ ಅಪ್ಪಾ....

ಧನ್ಯವಾದಗಳು..

Shreya J Shetty
III Year ECE

ಭೂರಮೆಯ ಅಧಿಕಾರಿಗಳಾರಿಲ್ಲಿ ??

" ರೀ ಈ ವರ್ಷವಾದ್ರೂ ಮನೆ ಕಟ್ಟುವ ಆಲೋಚನೆ ಏನಾದ್ರು ಇದಿಯಾ ಅಥವಾ ಈ ಬಾರಿಯೂ ಈ ಬಾಡಿಗೆ ಮನಯಲ್ಲೆ ದಿನ ದೂಡುವುದಾ ?? ಹಾಗೆನಾದ್ರು ಇದ್ರೆ ಹೇಳಿ ಬಿಡಿ ನಾನು ಸ್ವಂತ ಮನೆಯ ಆಸೆನೆ ಇಡ್ಕೊಳಲ್ಲಾ " ಎಂದು ಗೊಣಗುತ್ತಿದ್ದಳು ರೇವತಿ...

ಪ್ರತಿ ಬಾರಿಯಂತೆ ಅವಳದು ಅದೆ ಹಳೆ ರಾಗ ಕೇಳಿದ ರಾಕೇಶ್ ಸಿಡಿ ಮಿಡಿಗೊಳ್ಳಲಿಲ್ಲಾ... ಅವನಿಗೂ ತಿಳಿದಿತ್ತು ಮಕ್ಕಳಿಬ್ಬರು ದೊಡ್ಡವರಾಗುತ್ತಿದ್ದಾರೆ ಅವರಿಗಾಗಿಯಾದರು ತಮ್ಮದೆಯಾದ ಒಂದು ಸ್ವಂತ ಮನೆ ಬೇಕು ಅದಕ್ಕಾಗಿಯೆ ಈಗಾಗಲೇ ಒಂದು ಇಪ್ಪತ್ತು ಸೆಂಟ್ಸ್ ಇನ ಜಾಗ ಕರಿದಿಸಿಟ್ಟಿದ್ದ ಆದರೆ ಹಣ ಹೊಂದಾಣಿಕೆಯಾಗದ ಕಾರಣ ಮನೆ ಕಟ್ಟುವ ಆಸೆ ಕೈ ಬಿಟ್ಟಿದ್ದ. ಆದರೆ ಈ ಬಾರಿ ಮನೆ ಕಟ್ಟಲೆ ಬೇಕೆಂಬ ಚಲ ಬಂದಿತ್ತು ಅವನಲ್ಲಿ...

" ಇಲ್ಲಾ ಮಾರಾಯ್ತಿ ಮುಂದಿನ ವರ್ಷ ನಮ್ಮ ಮದುವೆಯ ವಾರ್ಷಿಕೋತ್ಸವ ನಮ್ಮ ಹೊಸ ಮನೆಯಲ್ಲೆ ಆಯ್ತಾ ಇವತ್ತು ಕಂಟ್ರಾಕ್ಟರನ್ನು ಕರೆದು ಕೊಂಡು ನಮ್ಮ ಜಾಗ ನೋಡಲು ಹೋಗುತ್ತಿರುವೆ ಬರ್ತಿಯಾ ?? " ಎಂದವನ ಮಾತಿಗೆ ಅವಳ ಕಂಗಳು ಖುಷಿಯಲ್ಲಿ ದೊಡ್ಡದಾಗಿತ್ತು...

" ನಿಜನೆನ್ರಿ ಅಯ್ಯೋ..!!! ಅಂತು ನಿಮ್ಗೆ ಒಳ್ಳೆ ಬುದ್ಧಿ ಬಂತಲ್ಲಾ ಅಪ್ಪ ಭಗವಂತ ಯಾವ ಅಡೆತಡೆಯಿಲ್ಲದೆ ಮನೆ ಕಟ್ಟುತ್ತಿದ್ದಂತೆ ಗೃಹ ಪ್ರವೇಶಕ್ಕೆ ಮುಂಚಿತವಾಗಿ ನಾವು ಗಂಡ ಹೆಂಡತಿ ಮಕ್ಕಳನ್ನ ಕರ್ಕೊಂಡ್ ನಿನ್ನ ಸನ್ನಿಧಾನಕ್ಕೆ ಬರ್ತಿವಪ್ಪಾ " ಎಂದು ತನ್ನ ಬೇಡಿಕೆಯನ್ನಿಟ್ಟಿದ್ದಳು...

" ನೀನ್ ಹರಕೆ ಎಲ್ಲಾ ಮುಗಿದಿದ್ರೆ ಹೋಗಿ ತಯಾರಾಗು ಮಕ್ಕಳು ಶಾಲೆಯಿಂದ ಬರುವುದರೊಳಗೆ ನಾವು ಹಿಂದಿರುಗಬೇಕು ತಿಳಿತಾ " ಎಂದು ತಾಕೀತು ಮಾಡಿದ ಅವನ ಮಾತಿನಂತೆ ರೇವತಿ ಬೇಗ ಬೇಗನೆ ತಯಾರಾಗಿ ಬಂದಿದ್ದಳು.

ಇಬ್ಬರು ಬೈಕ್ ಏರಿ ಅವರ ಜಾಗ (ಭೂಮಿ) ದತ್ತ ಪ್ರಯಾಣ ಬೆಳೆಸಿದರು. ಅವರು ಬರುವ ಸಮಯಕ್ಕೆ ಸರಿಯಾಗಿ ಅವರ ಪರೀಚಯದ ಕಂಟ್ರಾಕ್ಟರ್ ಕೂಡ ಅಲ್ಲಿ ಹಾಜರಿದ್ದರು. ಅವರೊಂದಿಗೆ ಸೇರಿ ಜಾಗ ಪರೀಶಿಲಿಸಿದರು. ಅದು ಊರಿನಿಂದ ಸ್ವಲ್ಪ ಆಚೆ ಇರುವ ಪ್ರಶಾಂತ ವಾತಾವರಣದಲ್ಲಿರುವ ಜಾಗ ಅವರ ಜಾಗದಲ್ಲಿ ತೆಂಗಿನ ಮರಗಳು ಬಹಳವಿತ್ತು. ಆ ತೆಂಗಿನ ಮರಗಳಲ್ಲಿ ಅದೇಷ್ಟೊ ವಿಧ ವಿಧವಾದ ಪಕ್ಷಿಗಳು ವಾಸ್ತವ್ಯ ಹೂಡಿದ್ದವು. ಅದನ್ನು ನೋಡುವುದೆ ಕಣ್ಣಿಗೆ ಹಬ್ಬವಾಗಿತ್ತು.

" ನೋಡಿ ಅಲ್ಲಿರುವ ಎರಡು ಮರವನ್ನು ಕಡಿದರೆ ನಿಮ್ಮ ಮನೆ ಭವ್ಯವಾಗಿರುತ್ತೆ ಇನ್ನೂ ಸುತ್ತ ಮುತ್ತಲಿರುವ ಈ ಕಲ್ಪ ವೃಕ್ಷಗಳನ್ನು ಕಡಿದರೆ ನಿಮಗೆ ಬೇಕಾದ ಹಾಗೆ ಎತ್ತರವಾದ ಕಾಂಪೌಂಡ್ ಬರುತ್ತೆ ಅದು ಅಲ್ಲದೆ ಅಲ್ಲಿ ಕಾಂಪೌಂಡ್ ಬಂದರೆ ಮಾತ್ರ ನಿಮಗೆ ಗಾರ್ಡನ್ ಮಾಡೋಕೆ ಜಾಗ ಸಿಗೋದು ಇನ್ನೊಂದು ವಾರದಲ್ಲಿ ಡಿಸೈನ್ ರೇಡಿ ಮಾಡಿ ಕೊಡ್ತಿನಿ ಅಷ್ಟರಲ್ಲಿ ನೀವು ಮರಗಳನ್ನೆಲ್ಲಾ ಕಡಿದು ಜಾಗವನ್ನು ಸಮತಟ್ಟು ಮಾಡಿ " ಎಂದು ಕಂಟ್ರಾಕ್ಟರ್ ಅವರು ನುಡಿಯುತ್ತಿದ್ದಂತೆ

" ಈ ಸ್ಥಳ ಕೆವಲ ನಿಮಗೆ ಮಾತ್ರವಲ್ಲಾ ನಮಗೂ ಕೂಡ ಸೇರಿದ್ದು ಇಲ್ಲಿರುವ ವೃಕ್ಷಗಳನ್ನು ಕಡಿಯಬೇಡಿ " ಎಂಬಂತಿತ್ತವುಗಳ ಕೂಗು... ಅವುಗಳ ದಿಢಿರ್ ವರ್ತನೆ ರಾಕೇಶ್ ಮತ್ತು ಕಂಟ್ರಾಕ್ಟರ್ ಗೆ ಅರ್ಥವಾಗಲಿಲ್ಲ ಆದರೆ ರೇವತಿಗೆ ಅದು ಅರ್ಥವಾಯಿತೆಂಬಂತೆ

" ನೋಡ್ರಿ ಕಾಂಪೌಂಡ್ ಮಾಡೋಕೆ ಸುತ್ತಲಿರೊ ಮರ ಕಡಿಬೇಕು ಅಂದ್ರೆ ಏನರ್ಥ ಆ ಮರಗಳು ನಮಗಿಂತ ಮೊದಲೇ ಇಲ್ಲಿ ವಾಸ್ತವ್ಯ ಹೂಡಿದ್ದವುಗಳು.. ನಮ್ಮ ಸ್ವಾರ್ಥಕ್ಕೊಸ್ಕೊರ ಆ ಅಮಾಯಕ ವೃಕ್ಷ ಜೀವ ಕಳೆದುಕೊಳ್ಳುವುದಲ್ಲದೆ ಅದರಲ್ಲಿಯೆ ತಮ್ಮ ಗೂಡು ಕಟ್ಟಿ ಕೊಂಡು ಜೀವನ ಸಾಗಿಸುತ್ತಿರುವ ಆ ಪುಟ್ಟ ಪುಟ್ಟ ಪಕ್ಷಿಗಳಿಗೆ ಮನೆಯಿಲ್ಲದಂತೆ ಆಗುತ್ತದೆ ಇದೆಲ್ಲಾ ಬೇಕ ಹೇಳಿ. ನಾವು ಆ ಮರನ ಕಡಿಯೋದು ಬೇಡ ಕಾಂಪೌಂಡ್ ಕಟ್ಟದಿದ್ರು ಪರ್ವಾಗಿಲ್ಲಾ ಅಂದ್ರೆ ಆ ಮರಗಳನ್ನು ತಪ್ಪಿಸಿ ಬೇಕಾದ್ರೆ ಕಟ್ಟಿಸಿ ಮಧ್ಯ ಇರುವ ಮರಗಳನ್ನು ಕಡಿದರೆ ಸಾಕು ಮುಂದೆ ಮನೆ ಕಟ್ಟಿಯಾದ ಮೇಲೆ ಆ ಎರಡು ಮರಗಳನ್ನು ಕಡಿದ ಪ್ರಾಯಶ್ಚಿತವಾಗಿ ಎರಡು ಗಿಡಗಳನ್ನು ನೆಟ್ಟು ಪೋಷಿಸುವ ಏನಂತಿರಿ " ಎಂದು ತನ್ನ ದೀರ್ಘ ಮಾತಿಗೆ ವಿರಾಮ ವಿಟ್ಟಿದ್ದಳು.

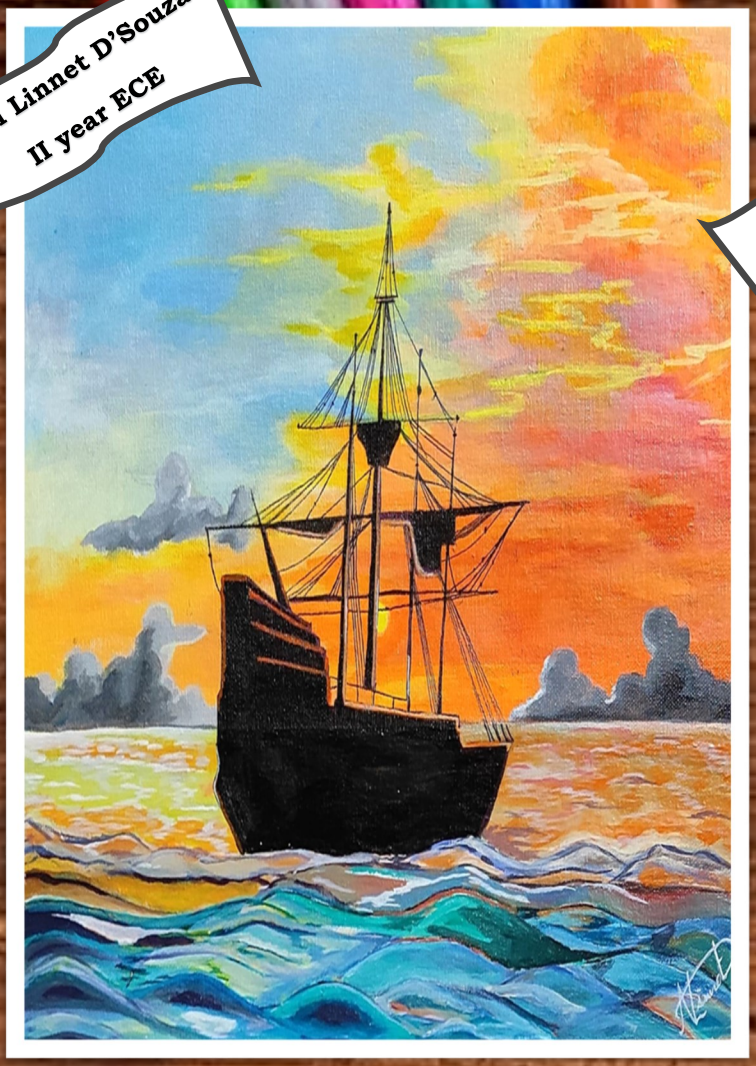
ಅವಳ ಉಪದೇಶ ಕಂಟ್ರಾಕ್ಟರ್ ಸಾಹೇಬ್ರಿಗೆ ಹಿಡಿಸಿದಂತೆ ಕಾಣಲಿಲ್ಲಾ " ಅಲ್ಲ ಅಮ್ಮಾ ಅದು... " ಎಂದವರು ಮಾತನಾಡುವ ಮೊದಲೇ ರಾಕೇಶ್ " ನೀನು ಹೇಳಿದ್ದು ನೂರಕ್ಕೆ ನೂರು ಸತ್ಯದ ಮಾತು ರೇವತಿ ಈ ಭೂಮಿ ಕೆವಲ ನಮ್ಮ ಸ್ವತ್ತಲ್ಲಾ ಇಲ್ಲಿರುವ ಪ್ರತಿಯೊಂದು ಜೀವಿಗಳ ಹಕ್ಕು. ಅವರಿಂದ ಅವರ ಅಧಿಕಾರವನ್ನು ಕಿತ್ತು ಕೊಳ್ಳುವ ಹಕ್ಕು ನಮಗದೆಲ್ಲಿಂದ ಬರಬೇಕು ಹೇಳು ನೋಡಿ ಸರ್ ಆ ಮರಗಳನ್ನು ಕಡಿಯೊದೆಲ್ಲಾ ಬೇಡ ಅದನ್ನು ತಪ್ಪಿಸಿ ಸ್ವಲ್ಪ ಮುಂದೆಯೆ ಕಾಂಪೌಂಡ್ ಬರಲಿ ಸರಿನಾ " ಎಂದು ನುಡಿದವನ ಮಾತಿಗೆ ಕಂಟ್ರಾಕ್ಟರ್ ಸಾಹೆಬರು ಸರಿದೂಗಿದರು...

" ಸರಿ ಮಕ್ಕಳು ಬರುವ ಸಮಯ ಆಯ್ತು ನಾವಿನ್ನೂ ಬರ್ತಿವಿ " ಎಂದವರು ಅಲ್ಲಿ ನಿಲ್ಲದೆ ಬೈಕ್ ಏರಿ ಹೋರಟಿದ್ದರು...

ರೇವತಿಯಂತೆ ಎಲ್ಲರೂ ಯೋಚಿಸಿದರೆ ಎಷ್ಟು ಚಂದ ಅಲ್ವಾ... ಅದು ನಾವು ದುಡ್ಡು ಕೊಟ್ಟು ಕೊಂಡು ಕೊಂಡಿರುವ ಜಾಗವಾಗಿರಬಹುದು ಆದರೆ ಅದ್ಯಾವುದೂ ಅರಿಯದ ಅಮಾಯಕ ಮರ , ಪ್ರಾಣಿ ಪಕ್ಷಿಗಳನ್ನು ಅಲ್ಲಿಂದ ಓಡಿಸುವುದು ಇಲ್ಲಾ ಕೊಲ್ಲುವುದು ಎಷ್ಟು ಸರಿ. ಈ ಭೂಮಿಯ ಮೇಲೆ ನಮಗೆ ಎಷ್ಟು ಹಕ್ಕಿದೆಯೊ ಅಷ್ಟೇ ಹಕ್ಕು ಉಳಿದ ಜೀವಿಗಳಿಗೂ ಇದೆ ಅಲ್ವಾ....

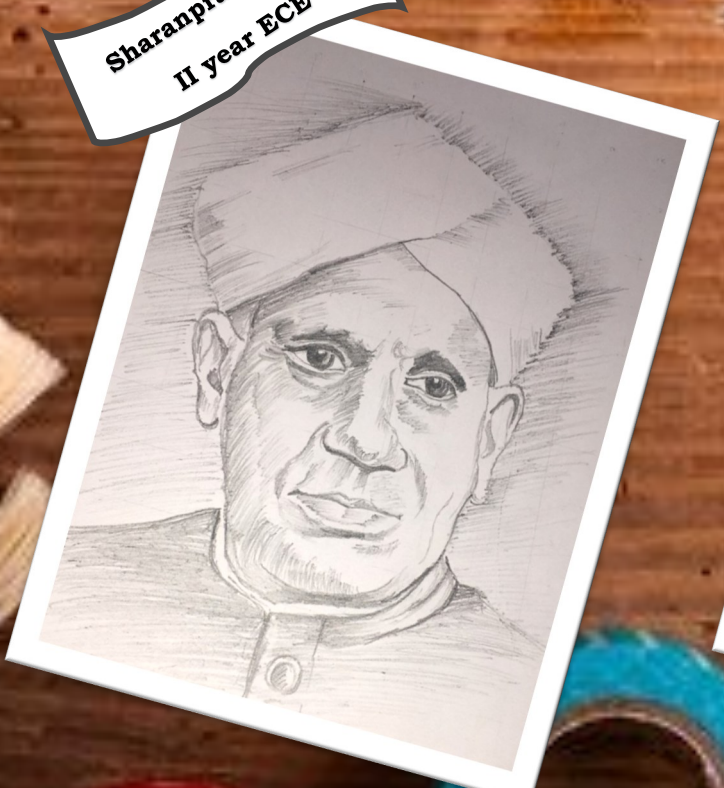
ಧನ್ಯವಾದಗಳು

Shreya J Shetty
III Year ECE



Nissi Linnet D'Souza
II year ECE

Shravan Acharya
II year ECE

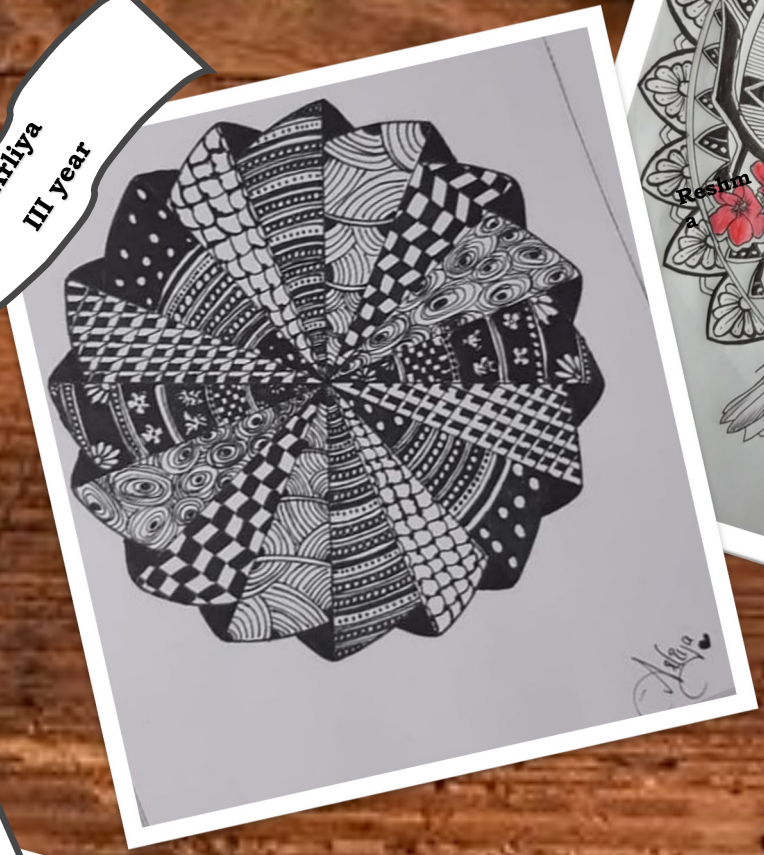


Sharanpraqkash R
II year ECE

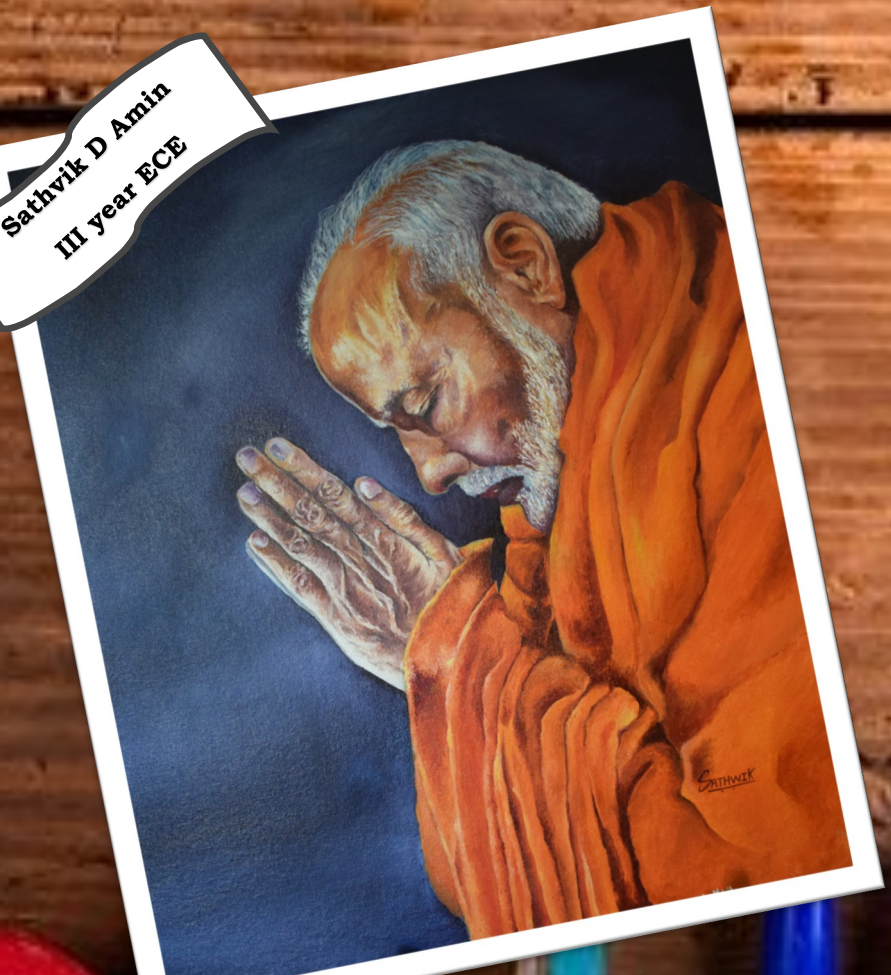
Karan B
IV Year EC

Reshma Cardoza
II year ECE

Ariiya
III year



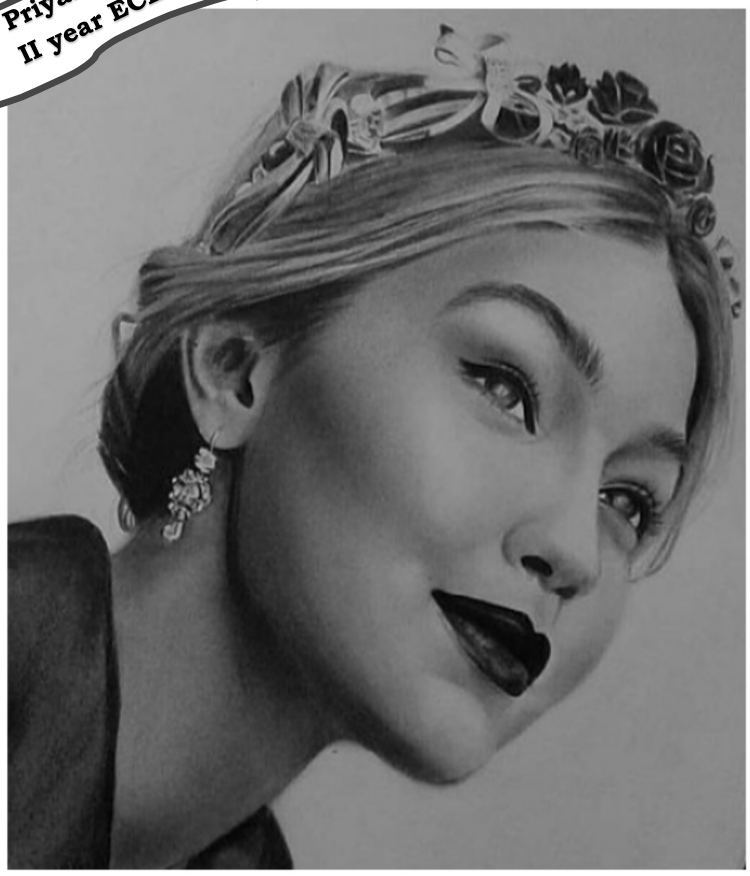
Sathvik D Amin
III year ECE



Neha M S
II year ECE

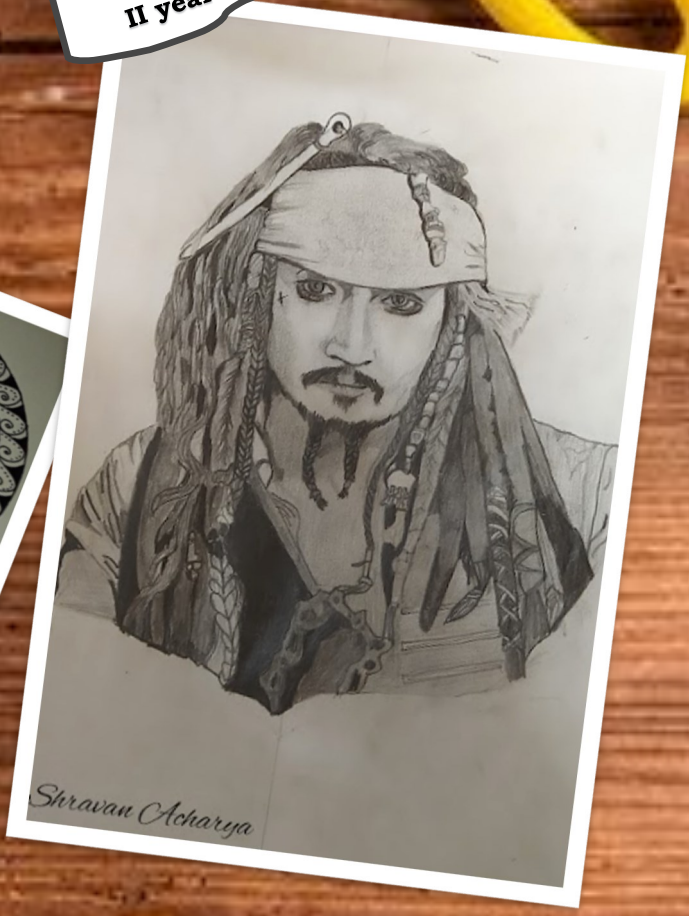
Nissi Linnet Dsouza
II year ECE

Priyanka
II year ECE



Krisha Dafney Martis
II year ECE

Shravan Acharya
II year ECE



Priyanka
II year ECE

DEAR MOM

AHISAM SHEIKH
III YEAR

The
light
of
your
shining eyes
Enlighten my gloomy world
Your kind words
Console my weeping heart
Your sweet voice
Heals the wound of heart
When you hug me
You lessen the pain in my body
When you wipe my tearful face,
With pouring tears
I feel great comfort
This is the feeling of true maternal love!!!

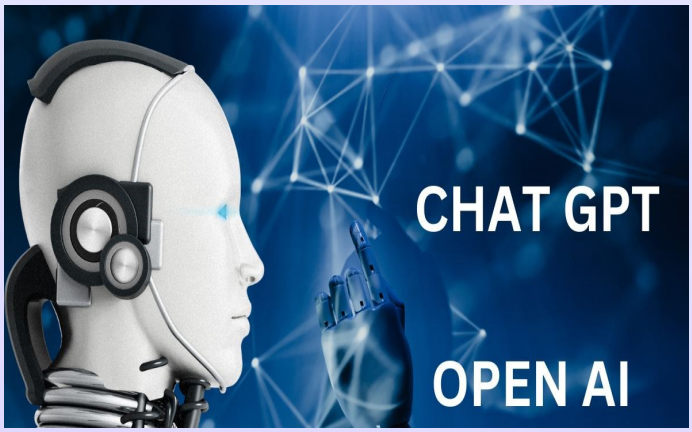

Shaun Dsouza
IV Year ECE
Nissi Linnet Dsouza
II year ECE
Nissi Linnet Dsouza
II year ECE
Shreyas SH
IV Year ECE

ಮರದ ಬದುಕು

ಕಣ್ಣಿಲ್ಲದ ಕುರುಡು ಜೀವ ಪಸರಿಹುದು ಜಗದಗಲ
ಅದಕ ಸುತ್ತಲೂ ಗಾಢಾಂಧಕಾರ
ಎಳೆಯ ಬೇರುಗಳ ಇಳಿಸುತಲಿ ಭುವಿಯಾಳ
ಬೆಳೆದಿಹದು ಎತ್ತರಕ ಬ್ರಹದಾಕರ
ಜಾತಿ ಪಂಥಗಳ ಹಂಗು ಇಲ್ಲದೆ
ನೀಡುತಿದೆ ಜೀವ ಸಂಕುಲಕೆ ನೆರಳು
ಧನವೆಂಬ ಮಾಯಾಜಾಲದಲಿ ಮಿಕವಾಗಿ
ಮಾನವನ ಉರುಳಿಗೆ ಒಡ್ಡುತಿದೆ ಕೊರಳು
ನಿರ್ದೋಷಿ ಹಂತಕನು ನೀಚ ಮಾನವನು
ಮತಿಯಿದ್ದು ಮಾಡಿದ ಸಾಧನೆಯು ಶೂನ್ಯ
ಕ್ಷಣ-ಕ್ಷಣಕ್ಕೂ ಜಗಕೆ ಆಯುವ ಕರುಣಿಸುವ
ಕುರುಡು ಮರದ ಬದುಕು ಮಾನ್ಯ!

Pragathi
IV year

What is Chat-GPT and why It's Bigger Than You Think



At the end of November, 2022, a new sensation powered by AI took the internet by storm. We've seen many versions of chatbots that provides 24×7 support but this one is something new and exciting. On 30th November 2022, **ChatGPT-3** was released and it just took 5 days to gain 1+ Million users. The trained version of NLP (Natural Language Processing) can convert texts and can be engaging like human interaction. You can ask it a question, and it will answer that question. Its release has led to Google's management team declaring a "code red" situation.

For instance, if you ask ChatGPT what it is, this is what it will tell you:

"ChatGPT is an AI language model developed by OpenAI, which is capable of generating human-like text based on the input it is given. The model is trained on a large corpus of text data and can generate responses to questions, summarize long texts, write stories and much more. It is often used in conversational AI applications to simulate a human-like conversation with users"

What Is Chat-GPT?

ChatGPT, a variant of the GPT (Generative Pre-training Transformer) language model, was developed specifically to generate text that sounds like human speech in a conversational situation. Chatbots have been around for decades, and you might know them best from interacting with any customer service agent over text; often, that's a chatbot. But chatbots have come a long way from Maultin's creation of Verbot to OpenAI's ChatGPT.

ChatGPT like many others like it, may be summed up as a "language machine" that indexes words, phrases, and sentences utilizing statistics, reinforcement learning, and supervised learning. Although it lacks genuine "intelligence" (it doesn't know what a word "means," but it does know how it is used), it excels at responding to questions, summarizing facts, and producing articles.

Chat-GPT and related engines are "trained" (programmed and reinforced) to replicate idioms used in writing, avoid specific conversational tenors, and learn from your enquiries. To put it another way, the more advanced models can modify their responses as you ask more questions and then save what they learn for later use.

What can ChatGPT do?

GPT-3 has 175 billion parameters, making it difficult to determine how it functions. The model is only applicable to language, as may be expected. Unlike its sibling Dall-E 2, it has a strong knowledge of both spoken and written language, as opposed to being able to produce video, sound, or graphics.

- This provides it a rather broad range of skills, from creating poems about sentient life and cliché romcoms in parallel universes to simply describing quantum theories or producing lengthy research papers and articles.
- An article on quantum physics can be created effectively using ChatGPT instead of spending hours reading, understanding, and writing about it.

- It has its limitations, and the software can easily get confused if your instruction starts to get too complicated or even if you just pick a path that narrows a little too much.
- A topic that is too recent cannot be handled by it either. The model may occasionally give inaccurate or muddled information; thus, it will be difficult to respond to recent global events.
- The internet's penchant for using AI to create dark, dangerous, or prejudiced content is something that OpenAI is also well aware of. ChatGPT will prevent you from asking the more improper inquiries or for assistance with risky requests, similar to how its Dall-E image generator did earlier.

What are the Applications of Chat GPT in Businesses?

GPT has a huge variety of applications, including:

Creating Content

GPT models can be fed anything, from 18th-century poetry to SQL data, and they will begin to create cohesive and human-like text results.

Summarizing a Text

GPT may be used to reinterpret any kind of material and provide an intuitive summary of it since it can produce fluent, humanlike writing. Long data volumes can be condensed in this way for more efficient insight collection and analysis.

Responding to Inquiries

The ability of GPT software to comprehend speech, including queries, is one of its key capabilities. In addition, depending on the user's needs, it can offer exact solutions or thorough justifications. This implies that GPT powered solutions can significantly enhance the customer service and technical support sectors.

Automated Translation

Software driven by GPT can translate languages instantly and accurately. It is possible to increase the precision and fluidity of AI by training it on big databases of already translated content. In actuality, GPT is capable of more than just language translation. Even legal discourse can be translated into straightforward natural English using GPT AI models.

AI-Driven Security

GPT AI can recognize any language because of its lightning-fast text recognition capabilities. This makes it possible to recognize and flag particular forms of communication. As a result, harmful Internet content may be found and handled more effectively.

AI for Conversation

GPT software can be used to create chatbot technology that is very intelligent. This enables the development of machine-learning virtual assistants that can assist professionals in carrying out their duties across industries. For instance, in the healthcare sector, conversational AI can be used to assess patient data and recommend diagnosis and treatment choices.

App development

Without much human input, GPT's artificial intelligence can design apps and layout tools. By describing what one wishes to accomplish, the solution can be used to construct plugins and other kinds of applications.

Where is this market headed?

Pioneers frequently receive arrows in the back, as is the case with every new technology. Even though ChatGPT seems magical, we must assume that innovators will quicken its development, expansion, and improvement. The majority of VC companies are currently awarding blank checks to startups in this industry, therefore there is currently a tonne of competition.

Each major vendor will "bulk up" on AI and machine learning capabilities as they compete with numerous other firms (Google, Oracle, Salesforce, ServiceNow, Workday, etc.) including OpenAI and businesses like Microsoft. Thousands of entrepreneurs will use Azure to create new products, innovative solutions, and domain-specific offerings if Microsoft incorporates OpenAI APIs into it.

This technique is a reminder of the early days of "mobile computing." We initially viewed it as an "add-on" to our internal business systems. It then developed, spread, and grew. Additionally, the majority of modern digital systems structure their entire technological stack around mobile, design for mobile first, and allow us to research consumer behavior, markets, and marketplaces through their smartphones.

The same will occur here. Imagine having access to all the inquiries that your clients have regarding your offerings. The possibilities are mind-boggling. Additionally, as it is mentioned in this article, many jobs will restructure.

If we look at all positions affected by Chat-GPT (editors, reporters, analysts, customer service representatives, QA engineers, etc.), roughly 10.3 million positions available right now, about 8% (800,000) will be directly impacted. These systems won't replace these jobs; instead, they'll improve and advance them over time. In addition, several new positions, such as "chatbot trainer," are currently being developed.

The Bottom line

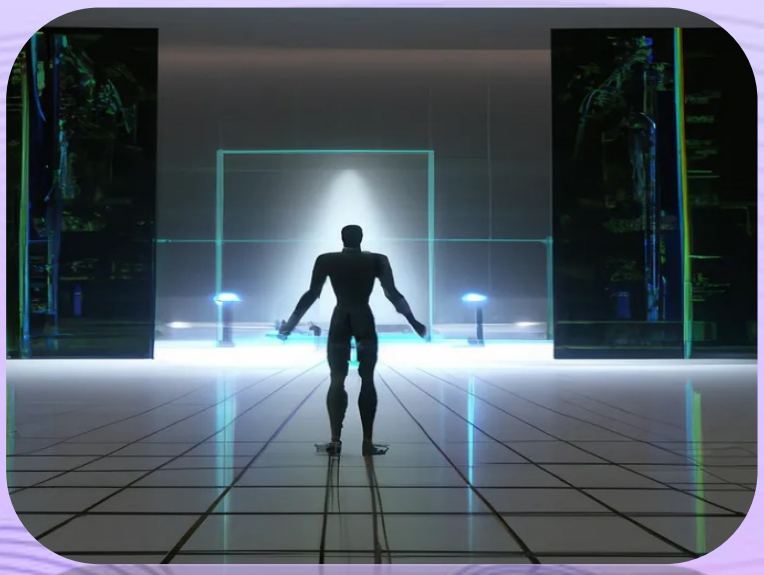
Whether or not ChatGPT is used for fun or to find solutions to homework questions, there is no going back from the use of AI in society. Advanced technology continues to break through and shock the world, and it refuses to stop or slow down. Ethical boundaries haven't quite been established, and academic institutions are scrambling to figure out how to deal with possible cheating and plagiarism. While ChatGPT is an exciting new tool worth exploring, we're still unsure of its long-term implications.

Mr Keith Raymond Fernandes
Assistant Professor
ECE Department

THE FUTURE OF AI: WHY LEARNING TO CODE IS STILL ESSENTIAL

Artificial Intelligence (AI) has come a long way in recent year, with tools like ChatGPT and Google BARD becoming increasingly sophisticated. However, despite this progress, there are still many reasons why learning to code is essential. This blog will explore the role of AI in our lives, the importance of problem-solving skills, the difference between a tech grad and a programmer, and the limitations of AI.

The advancement of AI tools has led many people to question the need for learning to code. After all, why spend time learning a new language when these tools can handle the work for you? However, as a student recently asked during a boot camp. I smiled, It is important to remember that a tool without a person who knows how to use it is useless. Knowing how to use AI tools effectively is essential for staying ahead in a constantly changing technological landscape. Furthermore, it is crucial to understand the difference between a programmer and a tech student. While a tech student may know many different programming languages, a programmer has a deeper understanding of how to use these languages to solve real-world problems.



THE ROLE OF AI IN OUR LIVES

AI is already a ubiquitous presence in our daily lives, from auto-correct on our smartphones to image color enhancement. However, its use is expanding rapidly into new areas, from healthcare to finance, and its benefits are clear. AI can help us to be more productive, freeing up time and energy to focus on other tasks. Personal experience confirms this, as the author has used AI to plan a recent trip to Varkala and to complete assignments, saving valuable time and effort.

THE IMPORTANCE OF PROBLEM-SOLVING SKILLS

Engineers are often seen as problem-solvers, and this skill is becoming increasingly valuable in a world where real-world problems never end. The key to success in this field is a solution-oriented approach, which involves identifying and addressing problems in a logical and systematic manner. This is where the difference between a tech grad and a programmer becomes apparent. While a tech grad may know many programming languages, a programmer has a deeper understanding of how to use these languages to solve problems effectively.

MAXIMIZING PRODUCTIVITY WITH AI

As a tech-savvy student, I have come to rely on artificial intelligence (AI) in many aspects of my life, including my recent trip to **Varkala** or be it the images I use for my blogs. AI tools such as chatbots and virtual assistants have made it easier for me to plan my travel and complete my assignments. However, the real difference between myself and others who also use AI is that I understand how to effectively use these tools to save time and energy.

I have also helped friends with coding and problem-solving. While the solutions I have been able to provide were largely due to my own critical thinking abilities, having access to AI tools allowed me to be more efficient in my problem-solving process.

However, there have been times when I have found myself stuck and unable to utilize AI to its full potential. Especially when I was asking others to use AI to help me with it. In these instances, I have realized the limitations of AI and the importance of human thinking abilities.

THE LIMITATIONS OF AI

While AI has many benefits, it is not without its limitations. For example, the author was once stuck in a situation where AI was unable to help, despite the availability of many AI tools. This experience highlights the importance of human thinking abilities and the limitations of AI. It is unlikely that AI will ever be able to replace human logic and creativity, which is why developing problem-solving skills and knowing how to use AI effectively is so important.

CONCLUSION

In conclusion, AI cannot replace jobs, but a person who knows how to use it effectively can certainly stay ahead in the technological landscape. The importance of developing problem-solving skills and using AI effectively cannot be overstated. As AI continues to evolve and grow in importance, it is essential that we equip ourselves with the necessary skills to use it to its full potential. With these skills, we can ensure that we remain relevant and adaptable in a rapidly changing world.

Rahul Shettigar-III Year ECE

KNOW ABOUT AUTONOMY

Mr Vaman B. Gudi
Associate Professor & COE

St Joseph Engineering College (SJEC), one of the acclaimed premier engineering institutions of the state of Karnataka specially in the Karnataka Karavali region. SJEC is affiliated to Visvesvaraya Technological University (VTU), Belagavi, SJEC is recognized by the All India Council for Technical Education (AICTE), New Delhi. Accredited by NAAC with A^+ grade and also, most of programs are accredited by National Board of Accreditation (NBA).

Having acquired with NAAC Accreditation with A^+ grade, the SJEC conferred with Institutional Autonomous status by UGC, VTU and Government of Karnataka to prepare its students skill enriched industry ready and ready to serve society.

Academics:

The success of any Autonomous institute solely depends on its two verticals, one is Academics and Examinations. The Academic autonomy has provided a great opportunity and flexibility for the Institute to design its curriculum and assessment as per the needs of industry, to meet the intents of NEP and to meet both the local and global requirements, adopt innovative methods of teaching-learning with hands on experience that makes the graduates creative, innovative and entrepreneurial.. Academic autonomy facilitates change over from examination centric to learning centric and to make this a reality.

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+Ves in Autonomy:

- Reputation.
- Learner centric.
- Learn Current technologies.
- Generally, do not lose year for poor performance…Make-up, Fast Track etc.
- Well prepared due to continuous evaluation.
- Degrees conferred by the affiliating University which has undisputed acceptance across globe.
- Proud feeling and ownership.

Academic Structure:

Two Main Semesters -19 to 20 weeks each ODD and EVEN

One Supplementary (Fast Track) Semester - 8 weeks

Examinations:

The examination process mainly consists of three phases, namely, Pre-examination process, Examination process and Post Examination process;

The assessment comprises of CIE and SEE with equal weightage of 50% each. The CIE assessment will be normally formative, where student's performance will be monitored on day to day basis with innovative ways of teaching and learning mechanisms. The course instructor designs innovative methods of assessments like quiz, one-minute paper, flipped mode of learning kinds of assessment to understand the performance of students.

Evaluation of answer scripts:

The answer scripts shall be evaluated by both internal and external examiners. If the difference in marks awarded by the first and the second evaluators is more than 10 marks, then such booklets will be evaluated by a third evaluator. A third evaluator may be internal or external, who is different from the first two evaluators. If the difference in the marks awarded by first, second and second, third evaluators are same, then the average of the higher of the two marks will be considered as final SEE. A few scenarios to explain the pro-

	Marks awarded by evaluator -1 (for 100 marks)	**Marks awarded by evaluator -2 (for 100 marks)**	**Marks awarded by evaluator -3 (for 100 marks)**	**Average marks for 50 (final SEE)**	**Remarks**
Scenario-1	**82**	**86**	**Not required**	**42**	
Scenario-2	**83**	**79**	**Not required**	**41**	
Scenario-3	**61**	**50**	**58**	**30**	**Marks awarded by evaluator-1 & 3 are nearest**
Scenario-4	**66**	**55**	**44**	**31**	**Marks awarded by evaluator-1 & 2 are nearest**

Results Processing:

For UG programs the candidate has to secure minimum 35% of the maximum allotted SEE marks and to get pass grade candidate has to secure minimum 40% of the maximum marks for all the courses i.e., SEE and CIE together.. Grade is declared for each course by considering the total marks secured in CIE and SEE.

For PG Programs: The Letter grades, grade points corresponding to total marks range for the courses

Level	**Grade**	**Grade Points**	**Score**
Outstanding	**O**	**10**	**90 & Above**
Excellent	**A+**	**9**	**80 - 89**
Very Good	**A**	**8**	**70 -79**
Good	**B+**	**7**	**60 - 69**

Fair	**B**	**6**	**55 - 59**
Satisfactory	**C**	**5**	**50 - 54**
Pass	**P**	**4**	**40 - 49**
Fail	**F**	**0**	**< 40**
Pass for Mandatory Non-Credit Course (zero credit course)	**PP**	**-**	
Fail for Mandatory Non-Credit Course (zero credit course)	**NP**	**-**	
Pass for Bridge	**P**	**-**	
Fail for Bridge	**F**	**-**	
Grade for attendance in-eligible	**NE**	**-**	
Grade for CIE in-eligible	**NE**	**-**	
Result withheld due to MPC	**TAL**		

Transitional Grades:

Along with regular grades certain special letter grades referred as Transitional Grades shall be awarded under special conditions. Such as, Drop 'DP' Withdraw 'W' Incomplete 'I' and X grade 'X'. These grades are very helpful for the students to complete the program in a fruitful manner without losing an academic year. During the semester, if the student feels that a performance in a particular course may affect his semester end performance may drop or withdraw such course and maintain his academic performance. However, students have to complete the course as and when it is offered.

The I grade is awarded the student who is eligible to write SEE and shall be awarded in case student fails appear for the SEE due to valid reasons like hospitalization or disaster in the family.

The X grade will be awarded to both theory and practical courses of all nature. The X grade shall be awarded Students who have secured minimum attendance of 85%, minimum CIE of 90% of maximum CIE marks and but fails to secure minimum required passing marks in SEE.

The students who are awarded with 'I' and 'X' grades will be permitted to appear for make-up examination scheduled as per the academic calendar. Such student has to get any pass grade to convert I and X grade to a pass grade during the make-up examination otherwise, 'F' grade will be awarded for the said course/s

SGPA and CGPA Calculations:

The Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA) reflects academic performance indices of the student and are calculated as follows,

SGPA is an indication of the performance of the student in the current semester. SGPA is calculated as below.

$$SGPA = \frac{\sum[CourseC\ redits \times GradePoints]\ for\ all\ the\ courses\ of\ the\ current\ semester}{\sum[Course\ Cedits]\ for\ all\ the\ courses\ registered\ in\ the\ current\ semester}$$

The CGPA is an indication of the cumulative performance of the student from the first semester up to the current semester.

$$CGPA = \frac{\sum[CourseCredits \times GradePoints]\ for\ all\ the\ courses\ with\ from\ firsttocurrentsemester}{\sum[CourseCedits]\ earned\ for\ all\ thecourses\ with\ E\ grade\ \&\ above\ from\ firsttocurrentsemester}$$

The SGPA and CGPA are calculated to the second decimal position.

Illustration-1:

Sl. No	Course Code	Course Title	Cred-its	Grade Award-ed	Grade Points	Cred-its Earned	Credit Points
1	21XXX101	Course -1	4	C	5	4	4 x 5 = 20
2	21XXX102	Course -2	4	A	8	4	4 x 8 = 32
3	21XXX103	Course -3	3	B+	7	3	3 x 7 = 21
4	21XXX104	Course -4	3	B	6	3	3 x 6 = 18
5	21XXX105	Course -5	3	B	6	3	3 x 6 = 18
6	21XXX106	Course -6	1	A+	9	1	1 x 9 = 9
7	21XXX107	Course -7	1	O	10	1	1 x 10 = 10
8	21XXX108	Course -8	1	P	4	1	1 x 4 = 4
		Total	20			20	132

SGPA = CGPA= 132/20 = 6.60

Illustration-2:

Sl. No	Course Code	Course Title	Credits	Grade Awarded	Grade Points	Credits Earned	Credit Points
1	21XXX101	Course -1	4	C	5	4	4 x 5 = 20
2	21XXX102	Course -2	4	A	8	4	4 x 8 = 32
3	21XXX103	Course -3	3	B+	7	3	3 x 7 = 21
4	21XXX104	Course -4	3	F	0	0	3 x 0 = 0
5	21XXX105	Course -5	3	B	6	3	3 x 6 = 18
6	21XXX106	Course -6	1	A+	9	1	1 x 9 = 9
7	21XXX107	Course -7	1	O	10	1	1 x 10 = 10
8	21XXX108	Course -8	1	P	4	1	1 x 4 = 4
		Total	20			17	114

SGPA = 114/20 = 5.70 CGPA = 114/17 = 6.71

Illustration- 5: Supplementary semester

Sl. No	Course Code	Course Title	Credits	Grade Awarded	Grade Points	Credits Earned	Credit Points
1	21XXX102	Course -2	4	A	8	4	4 x 8 = 32
		Total	4			4	32

SGPA = 32/4 = 8.00 CGPA = (144 + 82 + 32) / (23 +13 + 4) = 6.45

Conversion of SGPA /CGPA into percentage (On 10 Point Scale):

The SGPA/ CGPA shall be converted into equivalent percentage of marks as, **= SGPA / CGPA x 10**

ALUMNI MESSAGE

I chose to study Electronics and Communication Engineering predominantly due to my interest in that field. I was privileged enough to have a wonderful opportunity to pursue my ambition at SJEC. My journey with the Department of ECE has been an excellent one with a lot of fruitful learnings and experiences. The department has the best in class equipment in the laboratories, along with the clear theoretical classes, which ensured to impart vast knowledge by relating the text book concepts to practical scenarios. The faculties, including the teaching and the laboratory staff were very cordial, helpful and always approachable. The guidance and mentoring that I have received from them has led to where I am now.

There are an ample number of opportunities that we are provided with, not just in terms of technical aspects/academics, but also in extra-curricular activities and sports. We are also encouraged to develop projects from the second year of engineering, where the department organizes 'Mini-Project Exhibition', and this plays a vital role in making us Industry ready by applying theoretical knowledge to build real-time projects. And that's not all, there are various technical associations like IEEE that we can be a part of, which gives us an incredible experience of expanding our skills by volunteering, organizing different events and also improving our social skills.

I am very thankful and forever grateful for the Department of Electronics and Communication Engineering for transforming me from a student to a professional who is prepared to face this booming corporate world.

Ms Sindhura S

ECE Batch: 2016-2020
Cloud Support Associate (Serverless), Amazon Web Services.


Career opportunities for
ECE graduates - 2022


ANNEXE-3

ST JOSEPH ENGINEERING COLLEGE

AN AUTONOMOUS INSTITUTION

Affiliated to VTU Belagavi, Recognised by AICTE New Delhi, Accredited by NAAC with A+ grade
B.E.(CSE,ECE,EEE,ME,CIV)&MBA Accredited by NBA, New Delhi)

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