



SAMBHRAM
INSTITUTE OF TECHNOLOGY

THE ELITE NEWSLETTER

THE COLLABORATIVE SEMI-ANNUAL NEWSLETTER
OF SAMBHRAM INSTITUTE OF TECHNOLOGY

2022-2023

SAMBHRAM INSTITUTE OF TECHNOLOGY



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"Education is what remains after one has forgotten what one has learned in school."
—Albert Einstein

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OUR MISSION

Our mission is to provide work oriented education combined with ethical values, character building in context of today's millennium.

Our aim is to teach students the ethical values, and build character along with work oriented course. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be moulded.

OUR VISION

The future is embodied in the present generation. Professional education combined with practical exposure to create values in the students who are the future of our nation.

YOUR FUTURE IS CREATED BY WHAT YOU DO TODAY, NOT TOMORROW



It is my pleasure to congratulate the editorial board on this pleasant occasion of releasing the newsletter for the period August 2022 to January 2023. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary quality skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the SaIT family will be a recognition to them. I wish them all the very best for future endeavours.

Dr. V. Nagaraj
Chairman

Sambhram Group of Institutions

The newsletter which is being rolled out today marks the launch of an effervescent activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution. Sambhram Institute of Technology has grown in leaps and bounds, hurtling across barriers along the way. This has been made possible with the collaborative effort of the Management, the Staff and the Students. I congratulate everyone for their commitment.

Dr. H. G. Chandrakanth
Principal
Sambhram Institute of Technology



EVERY DAY IS A CHANCE TO GET
BETTER, DONT WASTE IT.



It is a matter of great pride and satisfaction for Sambhram IT is going to release the 11th Edition of the College News Letter from (COLLEGE/ DEPT OF SAIT) shortly. The College has made tremendous progress in all areas of academic, non-academics, capacity building activities relevant to staff and students. The College has achieved milestone in getting NBA (National Board of Accreditation, New Delhi) and shortly going to get NAAC accreditation.

I am confident that this publication of (COLLEGE / Department) News Letter will send a positive signal to the staff, students and the person's who are interested in the Technical education and Technology based activities. Our college News Letter is like a mirror which showcase the clear picture of all of activities undertaken in our COLLEGE/ Department and also develops writing skills among students in particular and teaching faculty in general.

I congratulate and thank the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to the Management of SAIT and our beloved Principal Dr. H. G. CHANDRAKANTH for their continued guidance, encouragement and support in conduction of all our Technical activities in the campus. Also my heartfelt Congratulations once again to all the members of the Editorial Board, Teaching and Non-teaching staff members and Students of our college for their keen interest evinced and compliment them for their untiring efforts in bringing out the College / Dept. news letter. With Best Wishes.

Dr. M. N. Sreerangaraju
Dean (Academics)
Sambhram Institute of Technology

I am delighted to share the latest developments from our research endeavors through the college newsletter. Our dedicated researchers continue to push boundaries and make significant contributions to their respective fields, furthering our mission of knowledge creation and innovation. From groundbreaking discoveries to impactful collaborations, our research community is thriving, and I look forward to witnessing the continued growth and success of our scholars. Warm regards,

Dr. K. V. Prasad
Dean (Research)
Sambhram Institute of Technology



MESSAGE FROM HODS



Dr. T. JOHN PETER
HOD, CSE

The Computer Science and Engineering department stands as a beacon of digital transformation, where students and faculty collaborate to shape the future. We're in the midst of an exciting era where technology is the driving force behind almost every aspect of our lives. At CSE, we're committed to preparing our students to be leaders in this digital age. We provide them with the knowledge and skills needed to navigate the ever-changing tech landscape and make a meaningful impact.

The Electronics and communication engineering department is more than just an academic unit. It's a thriving hub of innovation, where students and faculty collaborate on cutting-edge research, pushing the boundaries of technology. We continue to prepare our students for the dynamic world of electrical and computer engineering, equipping them with the knowledge and skills to solve the world's most pressing challenges. We embrace the latest advancements, from AI and cyber security to renewable energy and IoT. I look forward to the remarkable work that our students and faculty will continue to produce. Stay tuned for exciting developments, events, and breakthroughs coming from our ECE department. The passion and dedication of our team are the driving forces behind our success.



Dr. RAVISHANKAR. C. V
HOD, ECE

The Information Science and Technology department offers engineering and industry oriented subjects where the students can excel in the interested domain. These diversified programmes are application-oriented and are designed to produce competent graduates who can apply theories in practice. Our students are set to participate in industrial and research projects with a strong applied nature for industrial, commercial and community needs.



Dr. LATHA. P. H
HOD, ISE

The Civil department's commitment to shaping the physical and societal landscape has never been stronger. We are dedicated to providing our students with the knowledge and skills needed to design, construct, and manage infrastructure that enhances the quality of life. In an era of environmental consciousness, sustainable design, and urban development, our Civil Engineering Department stands at the forefront of innovation. We are nurturing future engineers and leaders who understand the importance of balancing progress with environmental responsibility.



Dr. MALLIKARJUN
HOD, CIVIL



Dr. APPAJI GOWDA. C
HOD, DEPT. OF MATHEMATICS

The Basic Science Department is the cornerstone of scientific knowledge and exploration, providing a solid foundation upon which all scientific disciplines are built. In our department, we instill the fundamental principles of physics, chemistry, biology, and mathematics into the minds of our students. We believe that these principles are the keys to unlocking the mysteries of the universe and advancing human understanding.

Our students and faculty are passionate about understanding and defending against cyber threats, ensuring the confidentiality, integrity, and availability of information. In a world where data is currency and privacy is paramount, we are the sentinels who ensure the safe passage of information. We embrace the challenge of cyber security with a mix of cutting-edge technology, innovative research, and ethical responsibility.



Dr. SANGEETHA. R
HOD, CSE - CYBER SECURITY

The field of Artificial Intelligence and Machine Learning is experiencing an incredible revolution, and our department stands at the forefront of this transformative journey. In our AI/ML Department, we embark on a quest to understand, replicate, and expand upon human intelligence. Our students and faculty are explorers in a world where data becomes knowledge, and machines become learners. Artificial Intelligence and Machine Learning are no longer just buzzwords; they are integral to every aspect of our lives.



Dr. AJEETH
HOD, AIML

In the Mechanical Engineering Department, we foster innovation, curiosity, and precision. Our students and faculty are the architects of solutions that span industries, from aerospace and automotive to energy and robotics. We are the driving force behind the machines and systems that drive progress. Our department is more than just classrooms and laboratories. It's a community that thrives on collaboration and ingenuity.



Dr. R. SEETHARAMIAH
HOD, MECHANICAL

IF YOU DON'T BUILD YOUR DREAM, SOMEONE
WILL HIRE YOU TO HELP BUILD THEIRS.



Dear Esteemed Readers,

As we embark on another exciting edition of our newsletter, I am filled with immense pride and enthusiasm to present to you the latest developments and insightful contributions from the field of Electrical and Computer Engineering. Our dedicated team has worked tirelessly to curate a collection of articles, research findings, and industry updates that reflect the cutting-edge advancements in ECE. In this edition, we delve into emerging technologies, innovative research projects, and the impactful work of our esteemed faculty and students. It is my sincere hope that this newsletter serves as a valuable resource, fostering a sense of connection and shared knowledge within our vibrant ECE community. I extend my gratitude to all contributors and encourage our readers to engage, question, and explore the exciting possibilities that lie ahead in the ever-evolving landscape of Electrical and Computer Engineering.

Best Regards,

Dr. Ravishankar. C. V
Chief Editor

The Elite Newsletter



EDITORIAL BOARD

"Welcome to the freshest instalment of our engineering college newsletter! Step into the thrilling realm of innovation and advancement, where we serve as your bridge. Our editorial squad is wholeheartedly committed to delivering compelling narratives, remarkable accomplishments, and the latest in groundbreaking research from our vibrant campus. We're a harmonious engine, propelling the triumph of this publication. Our pledge is to bring you the utmost in engineering brilliance. Keep an eye out, stay motivated, and remain linked with our vibrant community."

"Coming together is a beginning, staying together is progress, and working together is success."



Dr. Ravishankar. C. V
Chief Coordinator
Dept. of ECE



Deepak. D. R
5th Semester
Dept. of ECE



Tayyaba A Girni
7th Semester
Dept. of CSE

ACKNOWLEDGEMENT

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

It gives us immense pleasure to release the 11th edition of the College Newsletter "The ELITE NEWSLETTER".

We would like to express our deep gratitude to Dr. V. Nagaraj, The Honourable Chairman, The Dean Academics & The Dean Research, Dr. H. G. Chandrakanth, The Principal, Sambhram Institute of Technology, in bringing out this magazine.

We take pride in acknowledging the insightful guidance of Dr. Ravishankar. C. V, Head of the Department, ECE in making of the magazine. Of the many people who have been enormously helpful in the production of the magazine, we are very grateful to the forum coordinators Prof. Mallamma and Prof. Nithiya and students of Electronics & Communication Engineering and Computer Science & Engineering.

We would like to offer our special thanks to the faculty of CSE and ECE. Their support, encouragement and credible ideas have been great contribution in the successful completion of this magazine.

PREFACE

The Sambhram Institute of Technology was established by a team of experts who are a perfect blend of industry and academia. The founders of this Institution and others, who are associated with us, are eminent educationists, distinguished personalities and philanthropic minded persons who have laid a solid foundation and are nurturing it to grow phenomenally. With commendable dedication, determination, optimistic and indomitable courage, the managing committee members have pledged to shape the institution to a gigantic position in the near future. It was Established in 2001 with four engineering branches namely Computer Science, Electronics & Communication, Information Science & Mechanical, today SaIT offers 5 Under Graduate Engineering programmes, 2 Master Degree programmes and 5 Doctoral programmes and rated among top Engineering Institutions in the Bangalore. Current annual student intake for Undergraduate Programmes & Post Graduate Programmes in Engineering is around 1200. SaIT aims at an integral training of students forming them into genuine persons with relevant skills, values and attributes in such a way that they are enabled to develop a career sensitive to the challenging world of technological advancement and to live for the prosperity of every human being. We cultivate the basic qualities among students to build up a strong character and imbibe a sense of moral, ethical and spiritual values. Towards this end, we are imparting an integral training to transform students to genuine citizens for the prosperity of every man and woman in our country. The Sambhram Institute of Technology is committed to create quality professionals to meet the emerging industrial and social needs through innovative teaching applied research, Industrial Interaction, Placing faith in human values and aiming at continual improvement in all activities. We strive to provide the quality education that meets the need and aspirations of the students, employers and society. The institute aims to respond to all of these groups by providing curriculum and support which is necessary to enable the progression and to allow individuals to grow, develop and become universally accepted technocrat.



**DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING**

About the Department



Dr. T. JOHN PETER
HOD, CSE

The Department of Computer Science and Engineering (CSE) has grown exponentially over the last few years, evolving to meet demands of the 21st century. It is the study of the theoretical foundation of information and computation of practical techniques for the implementation, an application in computer system. The program gives the students a firm footing into the intricacies of its technology such as circuits, design, structures language, processors, operating systems, database management, simulation and modeling.

The Engineers of Computer Science find themselves at a very advantageous position in the carrier field. Manufactures of computer, electronic gadgets, communication products, highly specialized processors such as in automobile, aircraft, satellite, shipping etc. requires trained Computer Science Engineers.

PAPERS PUBLISHED OR PRESENTED BY FACULTIES/STUDENTS:

- **Dr. Balakrishnan K** has published a paper in international journal of northeastern university, with ISSN:1005-3026,VOLUME 25 Issue 04, scopus indexed Q4 with the title **“Monitoring the grain storage system using IOT”**
- **Dr. Balakrishnan K** has published a paper in international journal. ISSN:1303-5150, VOLUME 20 Issue 15, scopus indexed Q3 with the title **“Applying block chain technology to improve the storage security of static contents in content management system, Neuroquantology”**

- **Prof. Anuradha U** has presented paper title **“A Comprehensive Review on Iond Records and Iond Division in India Using Blockchain Technology”** in the AICTE sponsored two days National Conference on **“Critical Thinking for GenZ-Multidisciplinary Approach (CTGZMA-2021)”** in association with ISTE organised by the Department of Master of Computer Applications, RV College of Engineering, Bengaluru during 28th-29th October 2021.

EVENTS ATTENDED BY FACULTY

- All the professors in CS Department from Sambhram Institute of Technology had participated in webinar held on 10th and 11th October 2022, from 3:00pm to 5:00pm Organized by the **ICT Academy** in association with **AWS Educate**.
- **Prof. Srikanth S P** has participated and successfully completed the three days online FDP on **“Innovation and Design Thinking”** organized by IMPACT college of Engineering and Applied Science ,Bengaluru from October 8th 2022.
- All the professors in CS department of Sambhram Institute of Technology participated in a survey **“Empowering Young Scientist of India ”** on 12th October, 2022.
- **Dr. Sanjeetha R** has become the reviewer for IEEE international conference on **“Advanced Networks and Telecommunication Systems (IEEE ANTS)”** by All India Council for Technical Education(AICTE) from 16th August, 2021 to 20th August, 2021.
- **Prof. Hanumantha Rao K R** has participated in the 1.5 hours online workshop on **“Plagiarism & Online Resource”** organized by Genesin of Educational Impressions, Roorkee, Uttarakhand, India on 20th October 2022.
- All the professors in CS department from Sambhram Institute of Technology participated online workshop on **“AICTE Karma Scheme”** on 24th October 2022, at 3:30 pm.
- **Dr. Sanjeetha. R** was the Reviewer for **“The International Conference on Circuits, Communication, Control and Computing I4C-2022”** to be conducted on 21st - 23rd December at Ramaiah Institute of Technology, Bengaluru.
- All the final year students in CS Department, Sambhram Institute of Technology participated in **“ROTO QUIZ 22”** an intercollegiate quiz on 25th & 26th October 2022, Organized by the Rotary House of Friendship, 21 Lavelle Road, Bangalore.
- **Dr. Sanjeetha R** was the Reviewer for the 6th International Conference on **“Computational Systems and Information Technology for Sustainable Solutions”** conducted on 21st - 23rd Dec at R V College of Engineering, Bengaluru.
- All the professors in CS department from Sambhram Institute of Technology had participated in **“Koti Kanta Geetha Gayana”** program held on 28th October 2022, at 11:00am Organised by the Sambhram PU College, as per Government of Karnataka order.
- All the professors in CS department of Sambhram Institute of Technology attended a talk **“VTU-2021 syllabus and Evaluation Scheme”** organized by **Dr.Kajur Venkata Prasad**, Dean Research on 24th November 2022 at 3.00pm in the Seminar Hall.
- All the professors and students of 7th semester in CS Department from Sambhram Institute of Technology had attended **“Nobel prize Lecture series-2022”** organized by Karnataka Science and Technology Academy(KSTA) Department of Science and Technology, Govt. of Karnataka on 21st November 2022 at 11:00am by **Prof. H. A. Ranganath**, Distinguished Professor, University of Mysore.

- All the ladies professors and girls students of all the semester of CS department from Sambhram Institute of Technology has attended **“Personality Development & Personal Hygiene”** in association with Gillette Venus & Whisper organised by Women’s cell – Sambhram Institute of Technology, by Ms. Chaitra Singh, Corporate Trainer & Karate Expert on 30th November 2022.
- All the final year students in CS department, Sambhram Institute of Technology participated in **“ROTO QUIZ 22”** an intercollegiate quiz on 25th & 26th of October, 2022, organized by Rotary House of Freindship, 21 Lavelle Road ,Bangalore.
- All the professors in CS department of Sambhram Institute of Technology participated in a survey **“Empowering Young Scientist of India ”** on 12th October, 2022.
- **Dr. Sanjeetha. R** Delivered welcome address for the inauguration of **“Youth empowerment cell – ICT academy”** on 30th November 2022at Sambhram Institute of Technology.
- **Prof. Mallamma C G** Judged Fashion Show event of students conducted as part of Kannada Rajyotsava Day celebration on 19th November 2022..
- **Prof. Mohanapriya M** has attended online one day FDP on **“Cyber Security & Ethical Hacking”** on 15th December 2022.
- **Dr. T. John Peter HoD(CSE), Dr. K V Prasad, Dean Research, Dr. SreeRangaraju, Dean Academics & Dr. Sanjeetha R** has attended online meeting with Mr. Vijay, Head, Creatise IT for MOU.

- All CSE faculties have attended a online INPODS Ed-Tech webinar on **“Designing course outcomes and outcome focused questions”** held on 14th December 2022 and the Resource person was Ajay Bhagwat Director, INPODS.
- Few students donated blood in Blood donation camp by NSS team on December 20th which was Organized by LIONS CLUB.
- VII & V semester students participated and won 4th place in **Intra collegiate Innovative idea contest - 2022** held on December 21st , the topic was “Waste to Energy “.
- On December 24th, there was a **Parents Teachers meeting** for V semester students, with Professors **Mallamma C G** and **Suchitra Devi** as the class in-charge.
- On December 27th, there was an online meeting with My Smart Shala of VTU to discuss an **MOU**, attended by **Dr. T John Peter, Dr. K. V. Prasad, Dean Research, Dr.SreeRangaraju Dean Academics, and Dr. Sanjeetha R.**
- On 24th December, V semester students participated in the **Microsoft Future Ready Champions of Code event.**
- From 30th November to 16th December, VII semester students attended a **Power BI Training program** coordinated by Dr.Balakrishnan K.
- During the period from November 25th to December 24th, V semester student Mr.Abu Sufian Al Faruk Khan completed the course **"Data Science with Python,"** organized by UDGAM IIT GUWAHATI.

- 20th November to 15th December, V semester student Ms. Sonam Kumari successfully completed a free online course on "Java Programming" organized by Great Learning.
- Dr. Sanjeetha R has Attended 21 days online National Level FDP on "Innovative Teaching Strategies and Tools in the Digital Age" Conducted by Scrollwell Technologies from 9th Jan to 29th Jan 2022.
- Prof. Mohanapriya M has Attended 21 days online National Level FDP on "Innovative Teaching Strategies and Tools in the Digital Age" Conducted by Scrollwell Technologies from 9th Jan to 29th Jan.
- All the faculties have Attended FDP on "Outcome based Education & Accreditation process" Organized by EC Department from 19th Jan to 21st Jan 2023
- All the Women faculties have Attended a seminar on "Women's Rights & Privileges at the work place" Organized by Women Cell on 18th Jan 2023

- Conducted **Alumini Meet** for passed out students on 14th October 2022.
- Conducted one day inhouse seminar on "**Outcome Based Education**" by Dr.Sanjeeta R, Associate Professor, Dept. of CSE on 27th October 2022.
- Organized a Technical Talk on "**The IT Placement**" by **Karthik Chandrashekar**, Software engineer, Siemens Technologies & Services Ltd. on 11th February 2023.

- Conducted online talk on 2nd November 2022 with Poornima Iyengar to collaborate for **MoU with IBM**.
- Conducted a session on mapping questions to CO and Blooms level and CO-PO attainment for all faculties of Department of Computer Science and Engineering, Sambhram Institute of Technology on 10th November 2022 & 29th November 2022 at Mobile Application Development Lab.
- Conducted "**Project Exhibition**" held on the occasion of World SCIENCE Day-2022 on 16th November 2022.

WORKSHOP/TECH TALK/SEMINAR PROGRAMS CONDUCTED

- "AYUDH POOJA" was conducted and worshipped on the occasion of Dusshera on 3rd October 2022. All the faculties attended the event profoundly.



- Conducted **“Student Induction Program”** 2022 for First year students, of batch 2022-23 on 28th November 2022. the program was inaugurated by Dr.K.Balaveera Reddy, Former Vice Chancellor, VTU, Belagavi and Former Chairman, NITK, Surathkal and Dr.S. Seetharamu, Director, NDRF, Former Director CPRI, Bengaluru



- Conducted **“Digital Poster Making”** for students with the theme **Women’s Empowerment and Gender equality** for sustainable tomorrow by CICC on 29th November at 2.00pm to 5.00pm on Central Library.
- Conducted **10 days workshop** on **“Youth empowerment”** on **Microsoft Power BI** from 30th November to 16th December 2022 at Sambhram Institute of Technology
- Conducted **“Student Induction Program”** for First year students, of batch 2022-23 on 7th December on the topic **“Universal Human Values”** by **Dr. Sanjeetha R.** Associate Professor, Dept. of Computer Science and Engineering, Sambhram Institute of Technology.
- Conducted **“Student Induction Program”** for First year students, of batch 2022-23 on 8th December on the topic **“Life Learning”** by **Dr. T John Peter**, Professor & HOD Department of Computer Science and Engineering, Sambhram Institute of Technology.



MOU'S SIGNED

- The Dept. conducted an online talk on 2nd November 2022 with Poornima Iyengar to collaborate for **MoU with IBM**.
- The Department Signed MoU with a software company called **Creatise** on 12th January 2023.
- **CSE dept.** signed MoU with **My Smart Shala Edu-Easy India Pvt. Ltd.** VTU iNEC on 7th January 2023.



MOU with Creatise



MOU with My Smart Shala

FACULTY ACHIEVEMENTS



- Prof. Sindhu K was awarded as the best faculty of the year 2022-2023 during Teachers day celebration conducted at the College on 8th September 2022.

STUDENTS PROJECTS FUNDED BY KSCST:

Academic Year: 2022-2023

Sl. No.	Student Name	USN	Project Title	Guide Name	Ref. No.	Amount
1.	Mr. Manjunath J Mr. Venkatesh Prasad G Mr. Johnson Rozario Mr. Mahesh S K	1STI9CS068 1STI9CS143 1STI9CS054 1STI9CS064	Smart Waste Segregator with Organic Fertilizer Production	Prof. Mohanapriya M	46S_BE_0588	4,000
2.	Mr. Sayak Singha Mr. Faraz Imtiyaz Mir Mr. Manu Kumar	1STI9CS122 1STI9CS033 1STI9CS073	Automatic Number Plate Detection in Vehicles Using Faster R-CNN	Prof. Vani B	46S_BE_1001	4,000

Sl. No.	Student Name	USN	Project Title	Guide Name	Ref. No.	Amount
3.	Mr. Prithvi Sagar R Ms. Pavithra M Ms. Lavanya B Ms. Manogna C	1ST19CS100 1ST19CS089 1ST19CS059 1ST19CS070	Domestic Water Supply Monitoring and Water Theft Identification	Dr. Sangeetha R	46S_BE_0701	4,000
4.	Ms. Ramyashree H S Ms. Chethana Rao M Mr. Ashrita Kumari Chauhan	1ST19CS109 1ST19CS027 1ST19CS018	Street Photos to Industrial Fashion Trends: Leveraging User-Provided Noisy Labels. Cost Effective Management System	Prof. Suchitra Devi A	46S_BE_0711	4,000
5.	Mr. Mukesh Kumar B Mr. Akash Kumar G R Ms. Vani M Mr. Manoj S	1ST19CS079 1ST19CS710 1ST19CS141 1ST19CS072	Smart Helmet With Integrated Air Bag System	Prof. Sindhu K	46S_BE_1058	4,000
6.	Mr. Daram Guru Prasad Mr. Shashanka K S Mr. Polakala Somasekhar Mr. Akshay V Balihallimath	1ST19CS045 1ST19CS125 1ST19CS092 1ST19CS012	Real Time Voice Cloning	Prof. Kishore P J	46S_BE_1453	4,000
7.	Ms. P Swathi Mr. Prajwal V Mr. Abhishek B M	1ST19CS087 1ST19CS097 1ST19CS701	Automated HTML Code Generation from Hand Drawn Images Using Machine Learning Algorithm	Prof. Dhanashree K J	46S_BE_2739	3,500
8.	Mr. Devesh Srivastava Mr. Lokesh Singh Mr. Rohan Khati Mr. Abhishek Bhagat	1ST19CS031 1ST19CS060 1ST19CS113 1ST18CS700	Finding Missing Person using Artificial Intelligence	Prof. Vani B	46S_BE_1650	3,500
9.	Ms. Amrutha Suresh Ms. Keerthana S Ms. Priyanka Valsalan Ms. Sindhu R	1ST19CS016 1ST19CS056 1ST19CS101 1ST19CS130	Enhancing Algorithm Performance Of Programming Language Predicament using Educational Data Mining	Prof. Hanumantha Rao K R	46S_BE_4877	3,500
10.	Mr. Ansaf Ali N K Mr. Adeeb Bin Rasheed Mr. Mohammad Shaheer Mr. Manish Sharma	1ST19CS705 1ST19CS006 1ST19CS077 1ST19CS067	Wi-Fi Door Lock System using ESP32 Cam Through Blynk	Prof. Hanumantha Rao K R	46S_BE_4964	4,000

BEST STUDENT PROJECT OF THE YEAR (2022-2023)

Student Name	USN	Project Title	Guide Name	Ref. No.	Amount
Mr. Mukesh Kumar B Mr. Akash Kumar G R Ms. Vani M Mr. Manoj S	1ST19CS079 1ST19CS710 1ST19CS141 1ST19CS072	Smart Helmet With Integrated Air Bag System	Prof. Sindhu K	46S_BE_1058	4,000

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
 Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

46th series of Student Project Programme (SPP): 2022-23

List of Projects Selected for State Level Seminar and Exhibition to be held at Alva's Institute of Engineering and Technology, Moodubidire on 11 – 12 August 2023

23. SAMBHRAM INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SELECTED FOR
356.	46S_BE_0701	DOMESTIC WATER SUPPLY MONITORING AND WATER THEFT IDENTIFICATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SANJEETHA R	Ms. PRITHVI SAGAR R Ms. PAVITHRA M Ms. LAVANYA B Mr. MANOGNA G	EXHIBITION
357.	46S_BE_0711	STREET PHOTOS TO INDUSTRIAL FASHION TRENDS: LEVERAGING USER-PROVIDED NOISY LABELS. COST-EFFECTIVE MANAGEMENT SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUCHITRA DEVI A	Ms. RAMYASHREE H S Ms. CHETHANA RAO M Ms. ASHRITA KUMARI CHAUHAN	SEMINAR
358.	46S_BE_1058	SMART HELMET WITH INTEGRATED AIR BAG SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SINDHU K	Mr. MUKESH KUMAR B Mr. AKASH KUMAR G R Ms. VANI M Mr. MANOJ S	EXHIBITION
359.	46S_BE_1453	REAL TIME VOICE CLONING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. KISHORE P J	Mr. DARAM GURU PRASAD Mr. SHASHANKA K S Mr. POLAKALA SOMASEKHAR Mr. AKSHAY V DAI HAJI MATU	EXHIBITION



Project Name: Smart Helmet with Integrated Air bag system
Project Team:

- Mukesh Kumar B
- Akash kumaar G R
- Manoj S
- Vani M

Event held at Alvas Institute of Engineering and Technology, Moodubidre



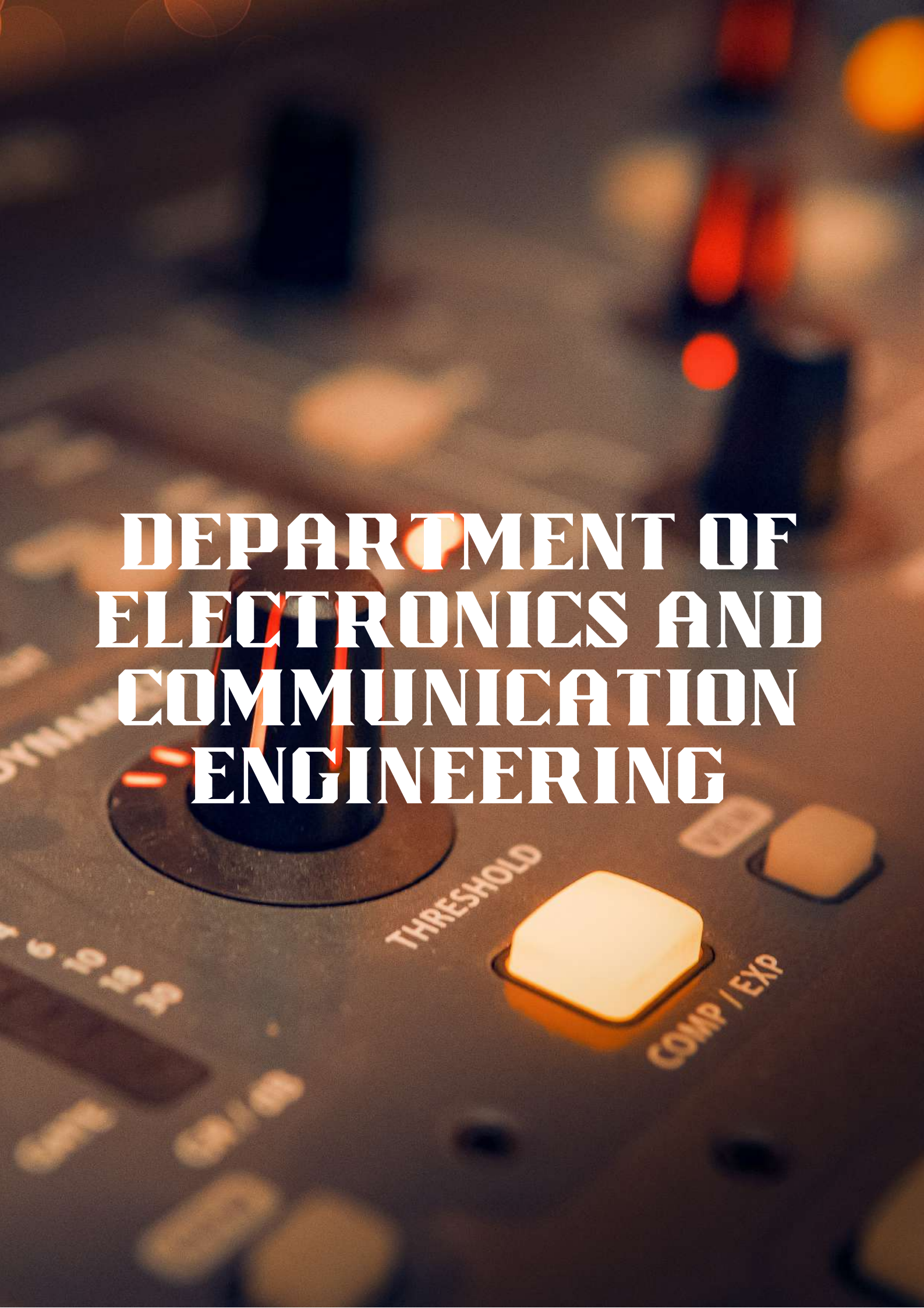
Team Name: Code Crafters
Idea: A virtual assistant made in India which has compatibility of ASL
Cash prize: 6000
Participants:

- Suhag S Shetty (IST21CS209)
- Velu (IST21CS233)
- Sunidhi Sunil (IST21CS212)
- Prithvi (IST21CS160)



Team name: Agro karts
Idea: There were three problem statements regarding the real world problems faced by farmers and we approached our solution through a farmer friendly website to all the three statements.
Cash prize: 10000.
Participants:

- Subhojit Chowdhury 1st21cs403
- Deeksha Reddy M R 1st20cs063
- Chandranath yaclav 1st20cs029
- Nishi P Mahanta



**DEPARTMENT OF
ELECTRONICS AND
COMMUNICATION
ENGINEERING**

About the Department



Dr. RAVISHANKAR. C. V
HOD, ECE

The ECE (Electronics and Communication Engineering) department plays a significant role in the field of engineering and technology. It deals with the design, development, and application of electronic devices, systems, and communication networks. Mentioning the ECE department in a newsletter could be significant for several reasons. ECE department is responsible for driving innovation in the field of electronics and communication engineering. Mentioning the department in a newsletter can highlight the cutting-edge research and development that is taking place within the department. Industry relevance.

The ECE department is relevant to a wide range of industries, including telecommunications, information technology, aerospace, and defence. By highlighting the work being done in the ECE department, a newsletter can showcase how the department's research and expertise are applicable to real-world problems and challenges. Career opportunities: Graduates from the ECE department are in high demand, and mentioning the department in a newsletter can attract potential students who are interested in pursuing a career in electronics and communication engineering. Partnerships and collaborations.

The ECE department often works with other departments within the university, as well as with industry partners and government agencies. Mentioning the department in a newsletter can help to promote these partnerships and collaborations, which can lead to new opportunities and initiatives. Overall, mentioning the ECE department in a newsletter can help to raise awareness of the department's research, expertise, and impact, both within the university and beyond. Every year our Final year student's projects are getting selected for funding by KSCST and other organizations.

PHD REGISTERED FACULTY DETAILS:



Prof. S. Sowndeswari
(Completed Open seminar I)



Prof. Manjula G Hegde
(Completed Comprehensive Viva)



Prof. Shilpa. C
(Completed Comprehensive Viva)

PAPERS / BOOKS PUBLICATIONS BY FACULTIES OF ECE:



Dr. Shreesha Kalkoor M

- International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), ISSN: 2582-5208, Volume 4, Issue 06, 2022.
- International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 06, Page No: 444-448, June /2022.
- IEEE DIGITAL XPLORE PUBLICATION-
<https://ieeexplore.ieee.org/document/9987319> DOI: 10.1109/I-SMAC55078.2022.9987319 IEEE/SCOPUS.
- Journal of Pharmaceutical Negative Results doi:10.14704/nq.2022.20.9.NQ4468 Scopus indexed International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 11, Issue 06, Page No: 444-448, June /2022.



Dr. Sapna. K

- **“Recognition efficiency enhancement of control chart pattern using ensemble MLP neural network”** International Journal of Health Sciences, 6(S3), 4295-4306, ISSN: 2550-6978 E-ISSN 2550-696X, Volume 6, Issue S3, Page No: 4295-4306.
- **“Resoluting multispectral image using image fusion and CNN model”** International Journal of Health Sciences, 6(S3), 4295-4306, ISSN: 2550-6978 E-ISSN 2550-696X, Volume 6, Issue S1, Page No: 8110 – 8118.
- **Prof. S. Sowndeswari** “A comparative study on energy efficient clustering based on metaheuristic algorithms for WSN”, International Journal of advanced technology & Engineering Exploration (IJATEE), Volume 9, Issue 86, January 2022(SCOPUS INDEXED)



Prof. Geetha V

- **Prof. Geetha V** “Krishimithra” National conference on Recent Innovations in Science & Engineering held on 20th organised by Sambhram Institute of Technology, Bangalore, Conference proceeding : ISBN : 978-93-91535-00-1.
- **Prof. Geetha V** published a paper on “**Design of IOT Based Camouflage Military Robot**” in International journal of scientific Research in Engineering and Management, Volume 06 Issue 06, June 2022.
- **Prof. Manjula. G. Hegde** published in the Journal of Emerging Technologies and Innovative Research (JETIR) (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor, Volume 9 Issue 7, July 2022.
- **Prof. Manjula. G. Hegde** published in the International journal of application or innovation in engineering and management (JAIEM), Volume 11, Issue 7, July 2022.
- **Prof. Anupama Hongal** published a paper on A creative personal voice assistant-the patents temp/e-1/3762/2023-che dated 17/01/2023.
- **Prof. Anupama Hongal** published a paper on CHAKRASANDA : A Simplified Way of Living for Confined International Journal of Advanced Technology in Engineering and Science ISSN 2348-7550.

- **Prof. Shilpa. C** published a paper on “**Comparison of unsupervised Machine Learning Algorithm for Dimensionality Reduction**”, published and presented at IEEE International Conference on Knowledge Engineering and Communication Systems organized by SJCIT on 28-29 December 2022.
- **Prof. Shilpa. C** published a paper on “**Comparative Review on the Machine Learning Algorithms for Medical Data**”, published and presented at 6th International Conference on Computational Systems and Information Technology for Sustainable Solutions CSITSS -2022 organized by RVCE, Bengaluru on 21st - 23rd December, 2022.
- **Prof. Shilpa. C** submitted Proposal to the VGST for the project title “**Analysis of pathloss models on 5G Network Technology in Urban and Rural Area**” under K-FIST-L1 scheme 2022-23.
- **Prof. Shilpa. C** submitted Proposal to the VGST for the project title “**Establishment of Research Laboratory for RF/ Microwave Antenna Test Facility**” under K-FIST-L1 scheme 2022-23.



Prof. K. Nithiya

- **Prof. K. Nithiya** published a paper on “**ML based Formalin Ascertain model**” National level conference on Advancements & Future Trends in Engineering and technology, July 2022

- **Prof. K. Nithiya** published a book “**A Deeper Insight about Basics**” self published on Amazon Kindle as E-book version, July 2023, ASIN: B0C2Z5XQ5K.



Prof. Abhishek. D. G

- **Prof. Abhishek D. G** published a paper on “**Automatic Accident Detection and Rescue System**” at International Journal of Advanced Scientific Innovation, Volume 04 Issue 02, June 2022, ISSN: 2582-8436.
- **Prof. Bharath. S** published a paper on “**Marine Limpiadora**” in NLCAFTET organized by SaIT ISBN -9789391535506.

EVENTS ATTENDED/ORGANISED BY FACULTY

- On January 2, 2023, the new Conference Hall was inaugurated, and it was attended by all ECE faculties.
- On January 9, 2023, research activities took place, involving all Doctorates and HODs, and this event was organized by the Dean of Research and academics.
- An orientation session for the institution innovation council (IIC 5.0) was held on January 11, 2023, at 11 A.M. All ECE faculties participated, and Dr. Dipan Sahu, the Assistant Innovation Director from the Ministry of Education's Innovation Cell, was the resource person.
- From January 19 to 21, an FDP titled “**MARGADARSHI**” – FROM Dr.AIT, CO-PO MAPPING RELATED TRAINING” was organized, and it was attended by all faculties. The event was coordinated by Dr. Ravishankar, CV - ECE HOD, Dr. Sapna, Prof.Shilpa C, and Dr. Shreesha K.

- All faculties participated in the Government of Karnataka's Nursing exam duty on two weekends, January 21-22 and January 28th - 29th.
- On December 31, a Fraction PgPTE FDP took place, and it involved Dr. Sapna K, Prof. Sowndeswari, Prof. Manjula Hegde, Prof. Geetha, and Prof. Anupama. This FDP was focused on innovative teaching and was coordinated by Mishra sir.
- Participation of Final year students named in National level project competition PRATIRA 2022.ECE department conducted “**National level Inter collegiate Project exhibition & competition PRATIRA 22**” coordinated by Prof. Shilpa, Prof. Shreesha K Supported By Student Chapters IEEE, IETE, ISTE, EWB convened by Dr.Ravishankar. C. V, HOD - ECE.
- ECE department in association with AICTE - VTU conducted FDP on Prof. S. Sowndeswari, Prof. Manjula Hedge, Prof. Geetha V, Dr.Sapna M K, Prof. Shilpa C, Prof. Abhishek D. G, Prof. Bharath S, Dr. Shreesha Kalkoor attended this FDP.
- On October 28, 2022, the Department participated in the **Koti Kanta Geetha Gayana - Rajotsava Celebration** by the Government of Karnataka, with attendance from all faculties.
- LIC visited the college to verify the infrastructural facilities and other facilities on 7th July 2022.



- **IETE foundation day celebration** conducted on November 2nd 2022 coordinated by Dr. Shreesha Kalkoor and Motivational speech delivered by Dr.Ravishankar. C. V - HOD, ECE.



- Faculties participated in Online talk conducted by CSE-SAIT “**Swarajya 75**” in association with disha bharath charitable trust, sneha damle joined as chief guest, on 13th August 2022.
- ECE department celebrated **Dasara festive** on 3/10/22 coordinated by Prof. Anupama Hongal, Participated by all ECE faculties.



- All Faculties of ECE participated in a FDP on “**Cybersecurity & Ethical hacking**” supported by IEEE, ISTE student chapters on 22nd October, Resource person **Dr. Ravishankar.C.V**, HOD-ECE delivered a speech in the event.
- All ECE faculties participated in a VTU conducted online enriching session on “**Data privacy & social media safety**” supported by women empowerment cell and organized by cyberpeace, Autobot Infosec, Chief guest Prof.Karisiddappa, honourable Vice chancellor VTU.

- Prof. Anupama Hongal, Prof. V Geetha Prof. K. Nithiya have attended a online INPODS Ed-Tech webinar on “**Designing course outcomes and outcome focused questions**” held on 14th December 2022 and the Resource person was Ajay Bhagwat Director, INPODS.
- Valmiki jayanthi program was hosted by Prof. Anupama Hongal, Asst. Professor, Dept. of ECE. The session was also addressed by Dr. H G Chandrakanth, Principal. We had with us two dean guests and our new faculties Dr.Shreerangaraju (Academics) and Dr.K.V.Prasad (Research).

- **Dr. Ravishankar. C. V**, HOD-ECE delivered his motivational speech regarding career development as resource person at RRIT for a seminar on “**Career awareness**”, Bangalore on 4/11/22.This event is supported by IETE, Bangalore.
- Project “**Automobile black box**” under the guidance of **Dr. Sapna K** won prize in 45th series of student project programme.
- **Prof. Shilpa C** Secured 1st prize in the National Level Project Competition conducted by Bangalore Institute of Technology on 2022 with a project entitled “**Detection of Adulterants in Milk**”.
- **Prof. Shilpa C** received a certificate of Appreciation for outstanding work as a Branch Counsellor in IEEE Bangalore Section also worked as a co-ordinator in National Level Project Competition PRATIRA-2022.

FACULTY ACHIEVEMENTS

- **Prof. S. Sowndeswari**, ECE department awarded best faculty award of the year 2022-2023 during Teachers day program conducted at Sambhram auditorium on September 8th 2022.



TECHNICAL ACTIVITIES BY FACULTY & STUDENTS

Sl. No.	Name of the Faculty / Student	Activity	Project Title
1.	Prof. S. Sowndeswari	NIELIT course (1 month)	Data science & machine learning using python - ID 2310225
2.	Prof. S. Sowndeswari	International conference FRACTION - Moderator	Innovative Educational practice days - June 27&28
3.	Prof.Nithiya K	Certification Course	Data science - certificate ID : 1687855633690
4.	Prof.Nithiya K	Certification Course	Responsive web design - certificate ID:1301205669
5.	Prof. Shilpa C	Guided a winning project entitled "E-FALCON " that won 50k Cash prize	STUDENT BATCH - CHRISTOPHER, DHANUSH GANGATKAR, DASAM VENKATA MANIKANDAN at Dr. Ambedkar Institute Of Technnology
6.	Prof.K.Nithiya	1. Published book on Human resources -A deeper insight about basics. 2. Completed a course on search engine optimization supported by AICTE. 3. Attended online workshop on cybersecurity and hacking.	April 18,2023 Certificate ID - 38AE587835 Resourse person : Gautam kumawat From Hacking flix
7.	Prof.Bharath S	Coordinated NSS event "Har Ghar dhyan" session on meditation and mental health	May 4,2023
8.	Prof.Manjula G Hegde	1. Participated in Anveshana and guided 2. AICTE VTU joined Teachers training programme (FDP)	Student batch - Nagarjuna, Manu

Sl. No.	Name of the Faculty / Student	Activity	Project Title
9.	Prof. S. Sowndeswari	1.AICTE VTU joined Teachers training programme(FDP) 2.Resource person in Paavai Engineering college @TN, on 31.3.23 Published paper on "Enhanced Security against intruder"	1.Introduction to python programming and its applications 2.Hands on training on "Signal processing " Journal of Data acquisition and processing -38th volume, Chinese physical society publications
10.	Prof. Geetha V	Redhat Interaction session	March 21st 2023
11.	Prof.Nithiya K	1.Completed a course on AWS Vs Azure 2.Helped in coordination of ICT program	
12.	Prof. Abhishek D G	Participated in Anveshana as a guide	Student batch - Ambika, pranav rao
13.	Dr.Shreesha Kalkoor	Published Paper on "Visual Object detection in extreme Dark condition"	IEEE digital Explore
14.	Prof. Shilpa C	Published paper on -E FALCON in International journal of innovative research in science and engineering	Volume 9, issue 5, 2023
15.	Prof. Manjula G Hegde	Online Technical talk on "Impacts of Technology"	Agastya International Foundation on May27, 2023 at 5 to 6.30 PM.
16.	Prof.Nithiya K	1.Completed a course and received certificate on "Presentation skills " Course duration - 1 week 2. Presented and published paper on "ML based formalin ascertain model "	Certificate no -1301206475 5-5-23 to 10-5-23 May 12, National conference ISBN - 9789391535506
17.	Prof. Anupama Hongal	1.Paper Presentation on CHAKRASANDHA : A simplified way of Living for confined 2. Published paper on sustainable aquaculture and smart agriculture using IOT	May12, National conference @ SaIT, NLCAFTET ISBN - 9789391535506
18.	Dr. Sapna K	1.National Intellectual property awareness mission on May 11 2. FDP on ML& Data analysis using MATLAB	NIPAM - IP awareness mission, online training Kalpatru Institute
19.	Dr.C.V Ravishankar	IETE students forum inauguration at dayananda sagar university	Guest of honor Resource person

Sl. No.	Name of the Faculty / Student	Activity	Project Title
20.	T. Sanjay	IETE-Students day celebration on February 26, 2023	IETE – students day celebration
21.	Prof. Manjula G Hegde	Patent – A Creative personal Voice assistant	Applied & Registered
22.	Prof.V Geetha	Patent – A Creative personal Voice assistant	Applied & Registered
23.	Prof. Anupama Hongal	Patent – A Creative personal Voice assistant	Applied & Registered
24.	Prof. Shilpa C	Attended IEEE International conference on computational systems and information technology for sustainable solution	CSITSS-2022
25.	Prof.V Geetha	Mini project competition	Likitha and group got IIInd prize
26.	Prof.Nithiya K	Mini project competition	Mahendar batch and sowmya batch got III rd prize

- EC day 2022 & Farewell conducted on 16th July 2022 @ Venkateshwara auditorium presided by Principal H. G Chandrakanth, Guest of Honour Dr. K. C Mishra and chief guest Sri. B. N Nagraj Former IPS, CEO-Sambhram Group of Institutions coordinated by Dr. Ravishankar. C. V , HOD, ECE & Genrix President Shashi Kumar VIII semester and Vice President VI semester student Mahesh babu , supported by IETE,ISTE,IEEE & EWB.



- 7th semester students participated in IEEE conference on October 3rd, 2022 at National Institute of Advanced studies, Bangalore.
- Teachers day program conducted at Sambhram auditorium on September 8, 2022 Prof. Sowndeswari & Prof. Manjula Hegde, Guest of Honour Mr. Varun, SaIT Alumni .
- Staffs participated in a awareness Talk conducted by women’s empowerment cell SaIT on “Adolescence & women issues at workplace” on 17/8/2022 @MCA seminar hall where Dr.C Anuradha from chaitanya health care joined the session as Resource person.
- On the account of 75th Independence day, “AZADI KA AMRIT MAHOTSAV 2022” Drawing /Painting competition was conducted for 2nd and 4th semester students of our institution.

- 3rd and 7th semester students participated in 3 days International workshop on MATLAB modelling of physical systems conducted by Mathworks.



- All ECE students & faculties participated in Engineer's Day celebration on September 15, 2022 presided by principal Dr.H.G Chandrakanth, SaIT.
- Final year ECE students participated in skill-a -thon 2022 event conducted by Ui-PATH academic alliance supported by ICT on 30th December 2022.
- Final year ECE students participated in a free webinar on VLSI trends & its future opportunities conducted on January 6th 2023 from 2PM to 3PM by Entuple Technologies.
- Final year students attended online seminar on "Electric vehicles " on January 28, 2023 conducted by IETE Bangalore coordinated by Dr. Shivaprasad Yadav, IETE, Bangalore.
- Faculties participated in MoE's innovation cell's orientation session on January 11, 2023 at 11AM through online mode coordinated by Dr. Dipan Sahu.
- Faculties & students attended AICTE-ATAL academy event on "International day of yoga " of about 10 days session.
- 3rd semester students participated in premier expo conducted by Eduverse on 2nd and 3rd July 2022.

- VTU project selection meeting held at EDUSAT on 8/7/22 participated by final year students by presenting their projects.
- The 2 weeks youth empowerment program held on "Microsoft Power BI" by Electronics & Communication Engineering jointly with CSE and IS departments, SaIT from 30th November 2022 to 15th December 2022. Youth empowerment on "Microsoft Power BI" Resource Persons : Mr. Ramees (Subject matter expert - Power BI from ICT Academy).



- Intra-Collegiate Innovative Idea Contest was organized by the Department of Electronics & Communication Engineering on 21/12/2022 under Alumni Association-SaIT & Institution's Innovation Council (IIC) in association with IETE, ISTE, IEEE & EWB Student Chapters of SaIT jointly supported by IETE-Bangalore section.



- ECE department HOD Dr.Ravishankar C.V delivered a technical talk on “Research-How to do & its Systematic Etiquette dated July 26, 2023 @ EDUSAT seminar hall .



STUDENTS CONTRIBUTIONS

- Lakshmi R, Sanjay T, Gowtham R, and Harshitha Submitted innovation on Marine Engineering in their third year of the program.
- Sunil Kumar, Sai Sanskar, and Vinay Krishna are pursuing their studies in ECE (Electrical and Computer Engineering) as third-year students, focusing on the topic of "Defilement of Oleum Adulteration."

STUDENT ACHIEVEMENTS

KSCST FUNDED PROJECTS

- The project titled "ERRAND RIDER BOT" is associated with B.E. Electronics and Communication Engineering and involves the participation of Ms. S.SOWNDESWARI, Ms. TANYAR, Mr. HEMANTH.K.GOWDA, MADHUSHREE.R, and Mr. SANDEEP.S. The project is funded with 6,000, and it is part of the 45th Series of the Student Project Programme (SPP) sponsored by KSCST.
- Project number 1010, with the title "AUTOMOBILE BLACK BOX," also pertains to B.E. Electronics and Communication Engineering. The project is guided by Dr. SAPNA.M.K and assisted by Mr. NUMAN SHARIFF and Mr. ANANDHAN VS. It receives funding of 7,000.00 and is part of the 45th Series of the Student Project Programme.

- Project number 1011, "SOLAR POWERED E-VEHICLE," is another B.E. Electronics and Communication Engineering project. The project is under the guidance of Ms. SHILPA CHIPPALAKATTI, Ms. DIVYASHREE J A, Ms. BHAVYASHREE R, and Ms. BLESSICA SARADONA R. It is funded with 7,000 and is also part of the 45th Series of the Student Project Programme.
- "AQUABOT," project number 1012, is associated with B.E. Electronics and Communication Engineering and is led by Ms. MANJULA G HEGDE, Ms. CHAYA V, Ms. SAHANA.HK, Ms. RAJINI.V, and Ms. BHAVANA B.V. It receives funding of 7,000.00 and is included in the 45th Series of the Student Project Programme.
- The project titled "PARAFFIN LEVEL DETECTOR IN EDIBLE OIL USING IoT," project number 1013, is part of B.E. Electronics and Communication Engineering. The project is guided by Dr. SHREESHA KALLOOR, Mr. SHASHANTH GOWDA HC, Ms. ARPITHA H.S, Mr. VIJAY KUMAR. S, and Mr. YOGANANDA M.N. It is funded with 7,000.00 and is included in the 45th Series of the Student Project Programme.
- Final year student achiever Numan sheriff who developed the Project “Automobile black box”.







DETAILS OF THE RESEARCH CENTRE IN THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING AT SAMBHRAM INSTITUTE OF TECHNOLOGY




DETAILS OF THE RESEARCH SUPERVISORS OF THE RESEARCH CENTER OF SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE:

Sl. No.	Name of the Research Supervisor	Designation	Department	Name of the Research Center	Photograph
1.	Dr. Chandrakanth H G	Principal and Professor	ECE	Sambhram Institute of Technology, Bangalore	
2.	Dr. Ravishankar C V	HOD and Professor	ECE	Sambhram Institute of Technology, Bangalore	
3.	Dr. Shreerangaraju	Dean Academics and Professor	ECE	Sambhram Institute of Technology, Bangalore	
4.	Dr. K. V. Prasad	Dean Research and Professor	ECE	Sambhram Institute of Technology, Bangalore	
5.	Dr. Shreesha Kalkoor M	Associate Professor	ECE	Sambhram Institute of Technology, Bangalore	
6.	Dr. Sapna K	Associate Professor	ECE	Sambhram Institute of Technology, Bangalore	
7.	Dr. Veena C S	Associate Professor	ECE	Sambhram Institute of Technology, Bangalore	

DETAILS OF THE RESEARCH SCHOLARS PURSUING PH.D IN THE RESEARCH CENTER OF SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE:

Sl. No.	Name of the Research Supervisor	Designation	Department	Name of the Research Center	Photograph
1.	Prof. Trupthi Kumbhar	Assistant Professor	ECE	Sambhram Institute of Technology, Bangalore	
2.	Prof. Mahitha	Assistant Professor	ECE	Sambhram Institute of Technology, Bangalore	
3.	Prof. Shilpa Sridhar	Assistant Professor	ECE	Sambhram Institute of Technology, Bangalore	
4.	Prof. Bhagirathi Bai Vittal Rao	Assistant Professor	ECE	Sambhram Institute of Technology, Bangalore	

DETAILS OF THE RESEARCH SCHOLARS PURSUING PH.D IN OTHER RESEARCH CENTERS:

Sl. No.	Name of the Research Supervisor	Designation	Department	Name of the Research Center	Photograph
1.	Prof. Sowndeswari	Assistant Professor	ECE	SIR MVIT, Bangalore	
2.	Prof. Manjula G Hegde	Assistant Professor	ECE	SIR MVIT, Bangalore	
3.	Prof. Shilpa C	Assistant Professor	ECE	RVCE, Bangalore	



**DEPARTMENT OF
INFORMATION
SCIENCE AND
ENGINEERING**

About the Department



Dr. LATHA P. H
HOD, ISE

Information science and Engineering is originally a basic study to elucidate the mechanism of information processing in such biotic behavior as thinking, decision making, perception, and learning and a study to develop devices which can simulate those activities. Information science is applied to all fields of study, including the natural sciences, the arts and humanities, technology and social science, and has brought about revolutions in these areas.

The faculty of Information Science and Technology offers engineering and industry oriented subjects where the students can excel in the interested domain.

WORKSHOP/TECH TALK/SEMINAR PROGRAMS CONDUCTED


- Youth Empowerment on “Microsoft Power BI” The 2 weeks youth empowerment program on “Microsoft Power BI” under Information Science and Engineering, SaIT from 30th November 2022 to 15th December 2022. The program aims to provide a great platform for young aspiring minds on business intelligence.
- Resource Persons :
 - Mr. Ramesh (Subject matter expert - Power BI from ICT Academy)
 - Ms. Roopa R (Soft skill trainer from ICT Academy)
- Ms. Roopa R conducted soft skill training on following activities:
 - Communication (Thinker's bell)
 - Tongue twister (4)
 - Common phrases
- Finally, the valedictory function was conducted on 29/12/2022. The dignitaries present are Dr. K V Prasad (Dean Research), Mr. Vishnu Prasad (State Head - ICT Academy) and Dr. Latha P H, HoD-ISE.
- The Training on Menstrual Health and Hygiene Management will help the girl student to clarify their doubts regarding the hygiene management during the menstruation and right menstrual sanitary materials during these days.
- Tracking their menstrual cycles can help them understand what's normal for you, time ovulation and identify important changes such as a missed period or unpredictable menstrual bleeding. While menstrual cycle irregularities usually aren't serious, sometimes they can signal health problems.

- **Garnier and Maybeline workshop:** An event for free distribution of Facewash and Lipstick by popular brands Garnier and Maybeline, was organized at Sambhram Institute of Technology, under Women's cell, on 30th September 2022. This was well received by both students and faculties as these are favorite items among them.



- **“INTERNATIONAL YOGA DAY CELEBRATION”**
The event was conducted under women cell SaIT in association with the NSS SaIT under the title “International Yoga Day Celebration”. The resource person is Mrs. Vidyashree, she is specialized in Mudras , Kriyas , praanayaama and Meditation and surya namaskar.
- The program was headed by the ISE HoD Dr.Latha P H, Yoga trainer, NSS Co-Ordinator Dr. K. Balakrishnan. The program started with introduction about the yoga day followed by the heartfulness program by the Prof.Anupama Hongal from ECE department. Invocation song was sung by the 4th sem ECE students followed by the lighting of the lamp by all the dignitaries.





**DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING
(CYBER SECURITY)**

About the Department



Dr. SANJEETHA. R
HOD, CSE - CYBERSECURITY

The Department of Computer Science & Engineering (Cybersecurity) is established in the year 2022 with a sanctioned intake of 60 students. The department has well-experienced faculty with expertise in cybersecurity. It has state-of-art laboratories with licensed software and unlimited internet access.

The Department conducts project competitions, hackathons, seminars, technical talks, and various other events to upgrade the skills of the students. Students get exposure to real-time projects, consultancy projects, and sponsored projects in the area of cybersecurity.

Students are encouraged to become part of Professional societies like IEEE, CSI, ISTE, etc. and participate in their events. Students are trained to conduct research and innovation in cybersecurity and publish research papers in reputed conferences and journals. Students will be placed in leading national and multinational companies based on their performance and merit. Students are encouraged to go for higher studies and required guidance is provided by the department.

PAPERS PUBLISHED:

- Sanjeetha. R et al., "Mitigation of DDoS Attack in SDN using Table Miss-entry." In 2022 4th International Conference on Circuits, Control, Communication and Computing (I4C), pp. 6-11. IEEE, 2022.
- Sanjeetha. R, Monica R. Mundada, and G. S. Vaibhavi. "Botnet Forensic Analysis in Software Defined Networks using Ensemble Based Classifier." In 2022 4th International Conference on Circuits, Control, Communication and Computing (I4C), pp. 462-467. IEEE, 2022.

FDP/WORKSHOP/CONFERENCE ATTENDED BY FACULTIES/STUDENTS:

- Attended an online National Level Faculty Development Programme On "Innovative Teaching Strategies And Tools In The Digital Age" for 21 days conducted by Scrollwell Technologies from January 9th to January 29th, 2023.
- Attended a Three-Day FDP Workshop on "Outcome-based Education and Accreditation Process" from January 19th to 21st, 2023, conducted by IQAC CELL – SAIT under AICTE – Margadarshan (Share & Mentor) Scheme in Association with Dr. Ambedkar Institute of Technology at SaIT.

PROFESSIONAL BODY MEMBERSHIP:

- Dr. Sanjeetha has been a
 - Life member of ISTE since 2013
 - Senior IEEE member for the past 8 years, and
 - CSI member since 2022

WORKSHOP/TECH TALK/SEMINAR PROGRAMS CONDUCTED:

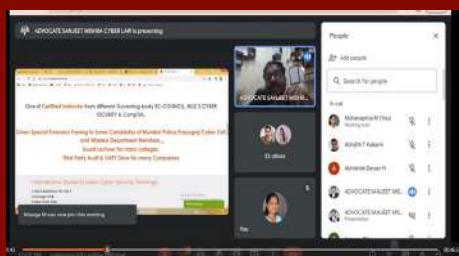
- Dr. Sanjeetha. R delivered a session on "**Cybersecurity Awareness**" on 30th September for the Student Induction Program for first-year students held at Sambhram Institute of Technology.



Bengaluru, Karnataka, India
2, Ambhabhavani Nagar, Vaderahalli, Bengaluru,
Karnataka 560064, India

- Arranged for a Technical talk during Student Induction Program on "**Cybersecurity Issues and Challenges**" by Mr. Raghunath Kulkarni, CISCO on 25th September 2023.

- Conducted a Technical Talk on '**Real World Cybersecurity**' by Mr. Raghunath Kulkarni, CISCO on 29th April 2023.



- Conducted an Online Technical Talk on '**Emerging Trends in Cybersecurity**' by Adv.Sanjeet Mishra on 27th March 2023.

**DEPARTMENT OF
BASIC SCIENCE**

About the Department



Dr. APPAJI GOWDA. C
HOD, DEPT. OF MATHEMATICS

Mathematics is a tool for all engineering branches. I have a dedicated team in my department that strives hard to uplift the image of the department in particular and institution at large. Ours is the only department that excels percentage of passes. The department of mathematics aims at improving and building a firm foundation with all branches of engineering

I congratulate my team I look forward to do better. Mathematics is a queen of all sciences. The Department of Mathematics has well qualified, experienced and dedicated faculty members. Our focus is to produce committed and passionate engineers equipped with modern mathematical tools with strong understanding towards real world and engineering problems.

The Department of Chemistry at Sambhram Institute of Technology has been started functioning in the year 2001 and dedicated to the instruction, training and intellectual growth of undergraduates in all the fields of engineering aspects and graduates to carry out basic and applied research. The Department consists of five well qualified and experienced faculty members with PhD' s and two non-teaching staff. The Department mainly focuses on the activity of teaching and learning of engineering chemistry and its laboratory courses to the under graduates of all discipline.



Dr. M. T. SWAMY
HOD, DEPT. OF CHEMISTRY



Prof. H. ARAVIND
DEPT. OF PHYSICS

The Physics Department at Sambhram Institute of Technology is a dynamic hub of scientific inquiry and exploration. Our accomplished faculty members bring a wealth of expertise and enthusiasm for the subject, creating a stimulating learning environment.

With state-of-the-art laboratories and a comprehensive curriculum, we strive to foster a deep understanding of the fundamental principles of physics. Through hands-on experiments and theoretical studies, we equip our students with the skills and knowledge necessary to excel in various scientific disciplines and contribute to cutting-edge research.

Language is our major means of communication; it is how we share our thoughts with others.

English has been regarded as the first global Lingua Franca. It has become part and parcel of almost every existing field. We use it as the international language to communicate in many fields ranging from business to entertainment.

Many countries teach and encourage youngsters to acquire English as a second language. Even in nations where English is not an official language, many science and engineering curriculum are written in English.

The English Language opens an ocean of career opportunities to those who speak this language anywhere in the world.



Prof. SWARNA RUBEN
DEPT. OF BASIC SCIENCE

The Kannada & Indian Constitution Department at Sambhram Institute of Technology is a cornerstone of cultural and legal education. Professors here are not only adept in imparting linguistic proficiency but also in instilling a deep understanding of India's constitutional framework.

Students benefit from a diverse curriculum that covers both linguistic nuances and legal intricacies.



Prof. SHANTALA PATIL
DEPT. OF BASIC SCIENCE

PHD REGISTERED FACULTY DETAILS:



Prof. Sathyanarayani
Dept. Of Chemistry



Prof. Asha. A. L
Dept. Of Mathematics

PAPERS / BOOKS PUBLICATIONS BY FACULTIES OF BASIC SCIENCE:

- Prof. Bhavana published a paper on Copper cobalt ferrite: Lead zirconium titanate layered thick Film Composites by screen printing method and Magnetolectric properties Bhavana H.V., Shaik Sabira Begum, A.R. Vijayalakshmi and S.S. Bellad PRAMANA -Journal of physics, 95 (2021) 204.
- Prof. Bhavana published a paper on Study of dielectric and magneto electric properties of $\text{Cu}_{0.8}\text{Co}_{0.2}\text{Fe}_2\text{O}_4:\text{PbZr}_{0.58}\text{Ti}_{0.42}\text{O}_3$ particulate and laminated film composites Bhavana H.V., Shaik Sabira Begum and S.S. Bellad Journal of electrochemical society of India 70 (2021)1-7.
- Prof. Bhavana published a paper on Magnetolectric properties of $\gamma(\text{Cu}_{(1-x)}\text{Co}_x\text{Fe}_2\text{O}_4)+\gamma(1-y)\text{PbZr}_{0.58}\text{Ti}_{0.42}\text{O}_3$ bulk Composites Bhavana H.V., Shaik Sabira Begum and S.S. Bellad Journal of education: Rabindra Bharati university, 24 (2022)14-19.
- Prof. Bhavana published a paper on Synthesis and characterization of ferrite-ferroelectric nanocomposite thick films Shaik Sabira Begum, Bhavana H.V. and S.S. Bellad Applied Physics A 128 (2022) DOI:10.1007/s00339-022-05649-z.

- Prof. Bhavana published a paper on Dielectric and magnetolectric behavior of $\text{Ni}_x\text{Cu}_{1-x}\text{Fe}_2\text{O}_4-\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ laminated multilayered nanocomposites Shaik Sabira Begum, Bhavana H.V. and S.S. Bellad Indian Journal of Physics 97(2022) 1-6. DOI:10.1007/s12648-022-02364-6.
- **Prof. Bhavana published a paper on** "Electrical and magnetolectric properties of particulate composites and laminated Trilayered thick film composites Bhavana H.V., Shaik Sabira Begum and S.S. Bellad Physica status solidi (a) - applications and materials science **220(2022) DOI:10.1002/pssa.202200457.**
- Prof. Bhavana published a paper on Dielectric Properties of $\text{Cu}_{(1-x)}\text{Co}_x\text{Fe}_2\text{O}_4:\text{PbZr}_{0.58}\text{Ti}_{0.42}\text{O}_3$ layered thick film composites Bhavana H.V., Shaik Sabira Begum, S.S. Bellad AIP Conference Proceedings (In Press-2023).
- Prof. Bhavana published a paper on Dielectric, magnetic and magnetolectric properties of laminated thick films of coppercobalt ferrite and lead zirconium titanate Bhavana H.V. and S.S. Bellad AIP Conference Proceedings (In Press-2023).

Sambhram Institute of Technology

First year Induction Programme 2022-23

Branches: CSE/ISE/ECE/AI-ML/AI-DS/CY/CV/ME

Schedule:

Sl. No	Day	Date	Time	Event	Speakers
1.	Monday	28/11/2022	9.00am - 1.00pm	Inauguration	MT Swamy
			2.00pm - 4.00pm	VTU regulations	
2.	Tuesday	29/11/2022	10.00am - 11.30am	Self awareness	Mrs. Srilatha
			11.30 am - 1.00pm	How to become entrepreneur?	Dr. Muralidhar KS
			2.00pm - 4.00pm	Sports and cultural events	
3.	Wednesday	30/11/2022	10.00am - 11.30am	Secrets of success	Dr. CS Pillai
			11.30am - 1.00pm	Awareness on design thinking	Dr. Suresha
			2.00pm - 4.00pm	Sports and cultural events	
4.	Thursday	1/12/2022	10.00am - 11.30am	Benefits of Yoga	Mrs. Vidhyashree
			11.30am - 1.00pm	Psychiatric rehabilitation and counselling	Mr. Pradeep YN
			2.00pm - 4.00pm	Sports and cultural events	
5.	Friday	2/12/2022	10.00am - 11.30am	Universal human values I	Mr. H Aravind
			11.30am - 1.00pm	Success in life	Mr. Yogesh Srinivasaiah
6.	Saturday	3/12/2022	10.00am - 1.00pm	Session by placement cell	Akshay Agastya
7.	Monday	5/12/2022	10.00am - 11.30am	Universal human values II	Mr. H Aravind
			11.30am - 1.00pm	If you can dream it, you can do it.	Mr. Rohith Saraswathi
			2.00pm - 4.00pm	Fun with arts and crafts	Mr. SF Huseni

DAY 1: 28/11/2022 : SESSION 1 (9 AM TO 1PM)

INAUGURATION PROGRAMME



- The programme began as per schedule with the arrival of the guests Dr. K Balaveera Reddy- Former Chairmann NITK Surathkal and Former VC- Vishveshwaraya Technological University, Belagavi and Dr. S Seetharamu ,director NDRF who were accompanied by the members of the college management, principals and deans.
- It is always auspicious to seek the blessings of the almighty for new beginning. A very traditional way of signifying the importance of knowledge is by lighting the lamp, where it is considered that knowledge in the form of light eliminated the darkness from within and brings wisdom.
- The program began with an opening ceremony, where the Principal, Deans academic and research welcomed the students and spoke about the importance of engineering in today's world.
- The first-year engineering students at SAIT embarked on their college journey with a week-long induction program. Recognizing the importance of holistic development, the induction program incorporated sessions on personality development, communication skills, and stress management. These sessions empowered the students with the tools to manage their academic workload, maintain a healthy balance between studies and extracurricular activities, and navigate the challenges of college life with resilience and self-confidence.



DAY 2: 29/11/2022:



SESSION 1:

- Talk by Mrs. Sreelatha on self awareness. Mrs. Sreelatha previously worked with SaIT in the Dept. Of Physics for till the year 2016. After which she has been working as a counsellor, delivering talks to students of different colleges. Her session started with the speaker asking all the participants to close their eyes. The speaker then talks about classification of students inside the class.
 - Those who are confident and came forward
 - Those who needed the push
 - Those who don't want to interact at all
- Few LIVE tasks were assigned to students which were timed and the students were able to complete the tasks. Students actively took part in the interactive sessions and they were all motivated

SESSION 2:

- Talk by Dr. Muralidhar KS on how to become entrepreneur? Business opportunities and innovative ideas for upcoming entrepreneurs.
- The speaker began the session by asking students why they chose engineering? What 's the difference between engineering and technology? Then the speaker gave the answer to the questions. Then the speaker gave an in detail talk on innovation.



Prof. MT Swamy, Dept. Of Chemistry gave a talk and brief introduction on the following topics

- About the college
- Staff and faculty members of the institution
- Do's and Dont's of the institution
- VTU rules and regulation

DAY 3: 30/11/2022:



SESSION 1:

- Universal human values by Dr. CS Pillai and personal ethics (Secrets of success)
- The speakers began the session by offering his gratitude to his spiritual teacher.
- The speaker then spoke about IQ and gave a few examples. Then he spoke about EQ, told a story and students were very enthusiastic and participated activity.
- He then spoke about another quotient, SQ which is the Spiritual Quotient.

SESSION 2:

- Session by Dr. Suresha, Awareness on Design Thinking
- The speaker began by trying to introduce the concept of design thinking came about when the requirements were specified. An example of Parker Pen was given.
- Design thinking is not about accuracy and perfection. Our knowledge has to be upgraded with change in technology. It's a never ending process. Design thinking is more of creative thinking. It's a team work.

SESSION 3:

- To further enhance their understanding of the engineering disciplines, the students embarked on a series of lab tours, guided by experienced faculty members. These tours provided hands-on exposure to the cutting-edge equipment and facilities available within the institution, allowing the students to visualize the practical applications of engineering principles.



DAY 4: 1/12/2022:



SESSION 1:

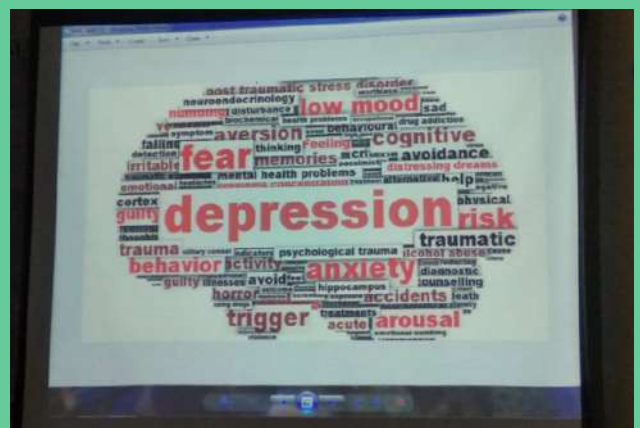
- Benefits of Yoga by Smt. Vidyashree
- The presenter began the session by making the students to perform a simple task to explain about energy fields.
- The presenter spoke about the different “Chakras” in the human body and how the malfunction of each creates disorder. The mind and body work in harmony if these Chakras work in tandem.
- What should we do for that?
- Eat nutritious food.
- The presenter then started to explain about “Mudras” or hand postures.
- There was a meditation session for 5 minutes and the session concluded with everyone chanting “Asatoma sadhgamaya” stotra.



life is Yoga

SESSION 2:

- Talk by Mr. Pradeep YN on Psychiatric Rehabilitation and Counselling
- The presenter started the session by sharing different pictures of the brain and how the neurons are interconnected and how the brain activity happens. Right side of the brain-creativity and Left side of the brain- logical.
- Once the brain cell dies, it cannot be regenerated. There are many factors that play a vital role in destroying the brain cells.
- The speaker started to discuss about depression, anxiety and other mental disorder.
- The speaker then gave ways by which these disorders can be cured.



DAY 5: 2/12/2022:



SESSION 1:

- Talk on Universal Human Values by Mr.H.Aravind.
- The presenter began by giving a brainstorming summary on all previously concluded sessions. Using the same examples quoted by the other speakers, the session was made interactive and hence the students were able to connect well.
- The presenter spoke about value education and what do humans aspire for?
- During the program, students attended a series of lectures and workshops on topics such as study skills, time management, and stress management. They also had the opportunity to meet with faculty members and current students to learn more about the engineering program and student life.

SESSION 2:

- Presentation by Mr Yogesh Srinivasaiah on SUCCESS. The presenter began the session by making the students to move their hands freely to make their minds active. The presenter invited few students on the stage and explained about attitude and culture.
- The presenter spoke about the abundance of information that is available.
- The example of why the LION is the king of the jungle was taken. You are accountable for the actions that you do [actions]. Team work is about working in a team. A team will always work well when there is a rotation policy. Finally the speaker gave an account on personality development.

DAY 6 : 3/12/2022:

SESSION 1 :

- The entire session was given by the Placement Cell. The team introduced the concept of placements to the students. They then continued by telling the importance of maintenance of maintaining good grades throughout engineering curriculum.
- The various criteria that a student must fulfil for attending campus interviews of different companies was elaborately explained.
- The team headed by the placement officer gave a brief overview about the activities that the placement cell is doing.
- The session was concluded by giving the students a brief list of students (passed out , final year, pre -final year) who have been placed in different companies via the campus interviews

DAY 7 : 5/12/2022:



SESSION 1:

- Prof. H. Aravind gave simple examples to students as to how value education can make an individual understand the purpose of self, family, society and finally his/her part in the universe. It's the very first step in self realization process. The presenter concluded the session by answering to the question put forward by the students.
- In addition to academic activities, the program also included a number of fun and social events, such as a sports activities and a talent show. These events gave students a chance to get to know each other and to make new friends.

SESSION 2:

- Session by Rohith Saraswathi on "If you can dream it, you can do it".
- The speakers in a very casual way began the session with a story. He then spoke about his "scaling the mount everest". He went hitchhiking to reach the destination. The speaker then played a footage from his journey "Chase your dreams".



SESSION 3:

- "Fun with Arts and Crafts" by Mr. SF Huseni.
- We had a unique one-of-a-kind session presented by renowned artist and fine art teacher SF Huseni.
- The session began with the parents doing a demonstration of paper cutting and works.
- The students were very enthusiastic and joined the session.
- The presenter gave the students, instructions on how to cut the paper and what is needed to be drawn.
- The paper models and instructions even displayed via the projector for all the students present in the auditorium to clearly see and follow.
- The students very enthusiastically followed the instructions given by the presenter and made wonderful paper cutting arts.
- In the given duration, the students were able to complete around 5 models.
- The students actively participated in the various events and were very enthusiastic and energetic.

PARTICIPATION OF TEACHERS & STUDENTS ON NATIONAL SCIENCE DAY



GPS Map Camera

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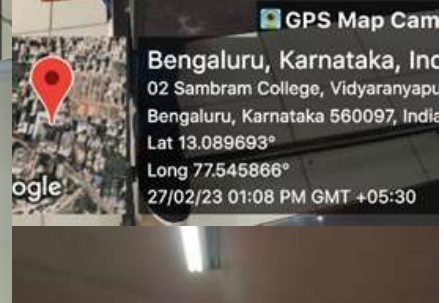
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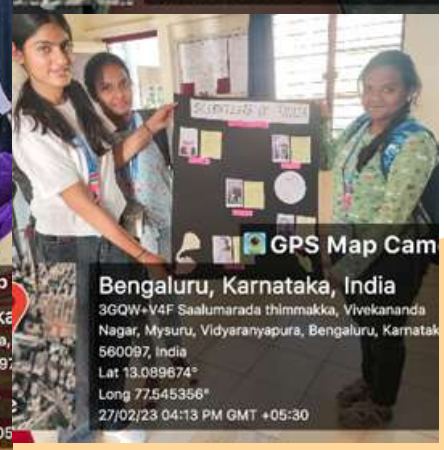
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A SESSION ON INTERNATIONAL DAY AGAINST DRUG ABUSE & ILLICIT TRAFFICKING ORGANIZED BY THE BASIC SCIENCE DEPARTMENT



The 26th of June makes the International Day against Drug Abuse & Illicit Trafficking. A session on the same was organized by the Departments of Physics, Chemistry and Mathematics in collaboration with Vidyaranyapura Police Station.


The session began at around 12Pm in the auditorium and all the first year students were made to assemble there. The entire Vidyaranyapura Police Station staff members had accompanied the Police Inspector & Sub-Inspector.

The session began with a brief introduction of the guests by Dr M T Swamy, Prof & Head, Department of Chemistry. It was then taken over by the Inspector, who spoke about Drug Abuse & Illicit trafficking and how young students are lured into it? How they get addicted to it? What is the process for rehabilitation? What are the consequences? Under what ACT and SECTION an individual can be arrested? And finally how the individual becomes a liability to his/her family and society?



The session was continued by the Sub-Inspector, who gave various cautions, advice & tips to the students to prevent drug abuse and locally eradicate illicit trafficking. The session was very lively and interactive and students participated actively. He concluded the session with a oath taking process where the students were asked to take an oath against usage of drugs and hoarding it. He also gave the direct helpline numbers to which a call can be made in case of any suspicious activity in the nearby locality.

The session ended with a Vote of Thanks, where the entire Police Department were thanked for conducting this very valuable session in our college.

A black and white photograph of a construction site. In the foreground, a surveying instrument is mounted on a tripod. In the background, a tall crane stands next to a structure under construction with many vertical rebar rods. The sky is overcast.

DEPARTMENT OF CIVIL ENGINEERING

About the Department



DR. MALLIKARJUN
HOD, CIVIL

Civil engineering is a field of engineering that plays a vital role in shaping and enhancing the world we live in. It involves the design, construction, and maintenance of infrastructure and structures, ranging from bridges, roads, and buildings to dams, airports, and water supply systems.

Civil engineering is of immense significance as it forms the backbone of modern society, providing the essential infrastructure that supports economic, social, and environmental development. It ensures the safety and functionality of structures, contributing to the well-being of communities and the efficient movement of people and goods.

Additionally, Civil engineers are at the forefront of addressing contemporary challenges, such as sustainable and environmentally friendly construction, disaster resilience, and urban planning to accommodate growing populations. With its multidisciplinary nature and continuous evolution, civil engineering remains a cornerstone of modern civilization, making it a field of great importance and impact.

Civil engineering is a dynamic field that continually adapts to the changing needs of society. Its significance extends to ensuring public safety, as civil engineers design structures to withstand various environmental and structural stresses. They also play a crucial role in addressing.

PHD REGISTERED FACULTY DETAILS:



Prof. Vasanth D
(Completed course work)



Prof. Monica. M. S
(Completed course work)



Prof. Akshata Mulgund
(Completed open seminar-I presentation)



Prof. Ashwini Ingale

PARTICIPATION BY FACULTY & STUDENTS IN ACADEMIC/ SPORTS/CULTURAL EVENTS

- A 3-day free workshop on Computer-Aided Design and Drafting (CADD) was held from 6th to 8th July at CED, SaIT. It was attended by students from the 4th and 6th semesters.
- A webinar on techniques to control earthquake and tsunami-triggered structures took place on 16th July, 2022, in Gaziabad, UP. It was conducted by Vasantha, a faculty member, under the Ultra Tech ICI Chapter, Gaziabad, UP.
- A Farewell or Sayanora event was organized by the VAITHRA department's Student Forum on 28th July, 2022, at the Seminar Hall of the Mechanical Engineering Department at SaIT. 6th and 4th-semester students bid farewell to the 8th-semester students. This event marked the return of the annual program after a gap of 2 years.
- An admission promotion activity as part of the VTU Conclave was held at the Palace Grounds from 1st to 3rd August, 2022. Two project batches consisting of 8 students prepared videos of their work, which were presented to the coordinator of VTU Conclave, Dr. Seetharamaiah from the Mechanical Department.
- A webinar titled "Engineer of the Future - CIVIL VISION 2030" featured Dr. Michael Buhler from Konstanz University, Germany, as the resource person on 10th August, 2022. It was conducted by Mr. Vasantha, an Assistant Professor from the Department of Civil Engineering at Presidency University, Bengaluru.
- An admission promotion activity occurred in the CET Cell on 25th and 26th August, 2022, with the participation of Mrs. Akshata and Mrs. Monica from SaIT.
- On 12th August, 2022, SaIT campus hosted an event as part of the "Azadi ka Amrit Mohotsava" celebrations, featuring photography, a quiz, and design competitions. Students from the 4th and 5th semesters participated, following AICTE's directives to conduct such activities.
- A talk on "Adolescence & Women issues at the workplace" was delivered by Dr. G. Anuradha from Chaitanya Health Care on 17th August, 2022. The program was attended by female faculty members and girl students and was conducted under the Women's Cell at SaIT.
- The 1st NAAC Coordinators meeting was held on 18th August, 2022, with the participation of all department Heads of Department (HoDs) at SaIT. The meeting focused on discussions about how to proceed with NAAC accreditation.
- Another talk, this time on "How safe women are in the digital world," was conducted on 22nd August, 2022. The resource person for this event was Rekha Gupta from the National Crime Information Bureau. It was organized under the Women's Cell at SaIT and attended by female faculty and students.
- A Faculty Development Program (FDP) on "Futuristic Research in Civil Engineering" took place from 23rd to 27th August, 2022, organized by the Department of Civil Engineering at CK College of Engineering. It was facilitated by Vasantha, an Assistant Professor.

- M.Tech 4th-semester Viva Voce exams were conducted on 4th and 16th October, and Mr. Vasantha, an Assistant Professor, played a role in the process.
- Mr. Vasantha, the Assistant Professor, attended a webinar on "Glamour in Concrete" conducted by Ultra Tech Cement Ltd. on 22nd October.
- On 28th October, Koti Kanta Gayana was conducted by BBMP (Bruhat Bengaluru Mahanagara Palike) and GOK (Government of Karnataka). All the faculties and staff were involved in this event.
- Mr. Vasantha, the Assistant Professor, attended another webinar, this time on "Performance-Based Concrete" by Ultra Tech Cement Ltd., on 26th November.
- A group of 7th-semester Civil students, including Abhinav Kashyap, Kudeshwar, Ranjan Sah, and Ranjan Yadav, participated in an Innovative Idea Contest organized by the ECE department at SAI T, Bangalore, in December 2021. They won the first prize for their innovative idea.



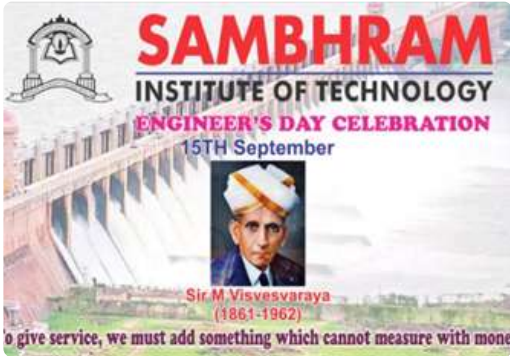
EVENTS CONDUCTED BY DEPARTMENT

- A 3-day free workshop on REVIT Architecture and Building Information Modeling (BIM) was conducted from 6th to 8th July. It was organized in the department and attended by 4th and 6th-semester students. The workshop was conducted by SAI CADD, Kengeri, Bengaluru.
- The Graduation Day and Farewell event, known as Sayanora, was held on 28th July, 2022, for 8th-semester students. It took place at the Seminar Hall of the Mechanical Engineering Department at SaIT.
- On 29th August, 2022, a Memorandum of Understanding (MoU) was established between the Department of Civil Engineering at SaIT and SAI CADD, Kengeri, Bengaluru.



- Third-semester students, following the 2021 scheme, went on a 20-day internship from 10th to 31st October 2022.
- An interview was conducted in the department on 9th November, 2022, resulting in the finalization of one faculty member for recruitment on a full-time basis.

- Students and faculty members organized "KANNADA RAJYOSTVA" at SaIT on 19th November, 2022. Dileep C J, a 7th-semester Civil student, received the First Prize in Pick & Speech.
- Engineers day celebrated in the department.



- Department went for Industrial visit.



- 6th sem students went for survey camp.



- Sowmya was recruited as a Visiting Faculty on 4th November, 2022, to teach 3rd-semester subjects.
- Prasanna Kumar was recruited as a Visiting Faculty on 10th November, 2022, to teach 5th-semester subjects.
- Ashwini Ingale reported as an Assistant Professor on 1st December, 2022, becoming the latest addition to the faculty.
- A webinar on "NDT & Structural Integrity," in collaboration with the Mechanical Department, was organized from 15th to 17th December 2022. Monica M and Akshatha A Mulugund served as coordinators for this event.
- Civil Student groups (Nepal) are informed to help in admission for the upcoming academic year 2022-23.

FACULTY ACHIEVEMENTS

- Prof. Akshata mulgund, CIVIL DEPARTMENT awarded best faculty award of the year 2022-2023 during teachers day programme conducted at Sambhram institutions auditorium on September 8, 2022.





**DEPARTMENT OF
MECHANICAL
ENGINEERING**

About the Department



DR. R. SEETHARAMIAH
HOD, MECHANICAL

The Department of Mechanical Engineering was started in 2002 with an intake of 60 which has increased to 180 at present. A research and development center was started in the Department in 2008. The Department has conducted a good number of seminars and workshops on different topics to provide exposure to various domains of engineering and technology. The Department has provided industry academia interactions to the faculties and students. The Department has also signed MOUs with Peenya Industrial Association, National Design Research Forum, and The Energy Resources Institute [TERI] for taking up joint program including student project work and research activities.

The Department is having good infrastructure facilities to pursue for R & D activities. The Department has got six doctoral degrees faculty members in teaching and good numbers of faculties are perusing research work leading to Ph.D. The Visvesvaraya Technological University has awarded eight PhDs from the Mechanical Research Center and another 10 scholars are pursuing for PhD from our center. The research activities being done in the Department is getting translated to publications in peer reviewed journals.

PAPERS PUBLISHED:

- **Dr. P. Sampathkumaran** published “Copper nickel alloys made using DMLS method for assessing corrosion resistance properties” in Materials today proceedings 49,703-713,2022.
- **Dr. P. Sampathkumaran** published “Tribological studies on Al-Be composites subjected to ECAP process” in the Wear journal, 523, 204775, 2023.

- **Dr. Padmini. B. V** published “A comparative assessment on the characteristics of HVOF sprayed cermet coating” in the Australian Journal of Mechanical Engineering, 1-23, Sept 2022.
- **Dr. Padmini B V** published “High temperature dry sliding wear behaviour of cold sprayed Inconel 738 coating” in Surface Review and Letters” 30(02) 2350006, Jan 2023.

WORKSHOP/FDP/TECH TALK/WEBINAR ATTENDED BY FACULTY:

- Dr. R.Seetharamaiah, Dr. Padmini. B. V & Mr. Pradeep L.C attended FDP on “**Advances in materials in the aero space and defence sector**” organized by Ramaiah Institute of Technology from 19/09/2022 to 23/09/2022.

INDUSTRY VISIT:

- The faculty and students from Sambhram Institute of Technology have visited CMTI open day on 10th September 2022, Saturday 9.00 am to 4.00 pm.



- The faculty and students from Sambhram Institute of Technology visited M/s Spraymet Surface Technologies Pvt LTD, Peenya on 11th December 2022.



- An Industry Visit was arranged for Sambhram institute of technology students to India Manufacturing Show (IMS) at the Bangalore International Exhibition Centre BIEC, on 16th September 2022.

FACULTY ACHIEVEMENTS

- **Dr. Padmini. B. V**, Mechanical department awarded best faculty award of the year 2022-2023 during Teachers day program conducted at Sambhram auditorium on Sept 8th 2022.



CONSULTANCY

- The Department of Mechanical Engineering took consultancy in composite and polymer composite materials. The various institutes utilized department R&D facilities are Dr. Ambedkar Institute of Technology, Presidency university, SEA College of Engg, Acharya Institute of Technology, Dayananda Sagar College of Engg, Cambridge institute of Technology The department has earned revenue of Rs 18,500/- from consultancy.



THE ART AND ARTICLES

“THE DARK SIDE OF SOCIAL MEDIA”

Mental Health is defined as a state of well-being in which people understand their abilities, solve everyday life problems, work well and make a significant contribution to the lives of their communities. In today's rising world of technology, social media has become an integral part of everybody's lives. Platforms such as Facebook, Instagram, Twitter, and Snapchat offer unprecedented opportunities for communication, self-expression, and networking. However, the rise of social media has also raised concerns about its potential negative impact on mental health, particularly among college students. This article aims to explore the various ways in which social media can affect the mental well-being of college students and shed light on the potential consequences.

Comparison and Self-esteem: Social media often presents a skewed reality, where individuals selectively showcase their best moments and achievements. This constant exposure to curated images and idealized versions of others' lives can lead to unhealthy comparisons, leading to feelings of inadequacy, low self-esteem, and even depression. **Cyberbullying and Online Harassment:** There is a much darker side of social media which includes cyberbullying and online harassment. Cyber bullying is a major problem affecting young people today. 34% of people feel like they have been cyber bullied in their lifetime, 87% of young people have seen cyber bullying happening online. The effects of bullying take a toll on children and mostly teenagers. Some of the serious effects are developing low self-esteem, depression and anxiety.

Fear of Missing Out (FOMO): Social media platforms are designed to keep users engaged and constantly connected. This phenomenon often fuels the fear of missing out (FOMO) among college students, leading to anxiety and stress. We explore how FOMO affects mental health, disrupts academic performance, and discuss strategies to manage these feelings.

Seeking Validation and the "Likes" Culture: Social media platforms thrive on the constant validation provided by "likes," comments, and shares. This constant need for validation can lead to an unhealthy dependence on external affirmation and a diminished sense of self-worth. We discuss the psychological implications of seeking validation through social media and its impact on mental health.

Conclusion: Social media undoubtedly offers numerous benefits and opportunities for college students. In this growing era of technology, we as adults should be more responsible about the usage of social media and be more considerate towards the people around us. It is crucial to be aware of the potential negative impact it can have on mental health. It is also vital to develop healthier habits in our lifestyle as we move further

CHANDRAYAAN-3: A GLIMPSE INTO INDIA'S VISION FOR LUNAR EXPLORATION

Chandrayaan-3 is the third and recent lunar exploration mission by the Indian Space Research Organization (ISRO). Following Chandrayaan-2, where a last-minute glitch in the landing guidance software led to the lander crashing after entering the lunar orbit, another lunar mission was proposed.

The launch of Chandrayaan-3 took place on 14th July 2023, at 2:35 pm IST and lunar injection of 100 km circular polar orbit was completed successfully as a part of phase one. It is expected to land around August 23 or 24th of 2023.

Objectives and Scientific Goals:

Chandrayaan-3 sets out to achieve several scientific objectives, including landing safely on the surface, to demonstrate rover operations and to perform scientific experiments on site. They are set to understand the moon's formation and evolution, thus paving the way for future manned missions.

Technological Innovations and Mission Design:

Chandrayaan-3 incorporates advancements in technology and mission design to enhance the efficiency and capabilities of the lunar spacecraft. Some of the key technological innovations are improved navigation and communication systems, enhanced propulsion, and advancements in landing techniques.

International Partnerships:

Space exploration is often a collaborative effort, and Chandrayaan-3 exemplifies this spirit through international partnerships and collaborations. The collaborative initiatives between ISRO and other space agencies or scientific organizations, such as NASA, ESA, and others, are emphasizing the mutual benefits, knowledge-sharing, and resource optimization that result from such collaborations.

Public Engagement and Outreach:

Chandrayaan-3 not only represents scientific and technological achievements but also captivates the public's imagination and generates interest in space exploration. It explores the outreach and educational initiatives associated with Chandrayaan-3, including programs aimed at inspiring the younger generation, promoting scientific awareness, and fostering a sense of national pride in India's space achievements.

Conclusion:

Chandrayaan-3 embodies India's continued commitment to lunar exploration and scientific discovery. With its ambitious objectives, technological advancements, and international collaborations, the mission promises to contribute significantly to our understanding. By inspiring and engaging the public, Chandrayaan-3 also ignites a passion for science and exploration, fostering a brighter future for space research and innovation.

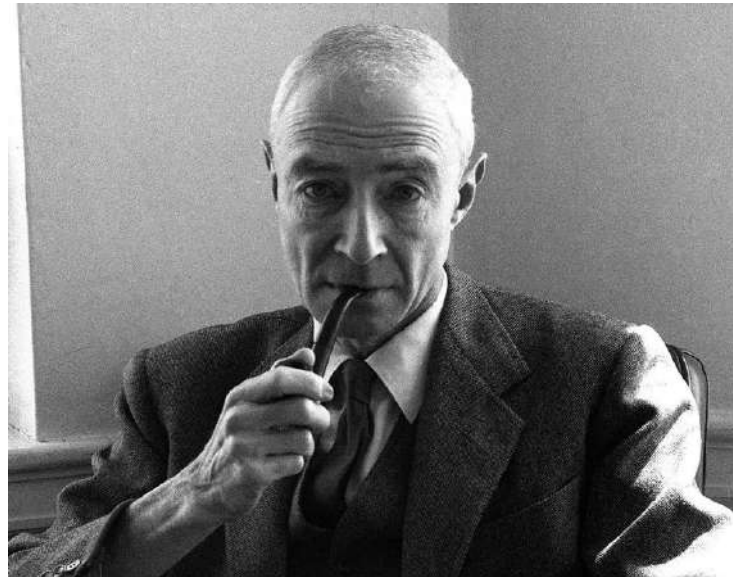
"SCIENCE, SECRETS, AND SACRIFICES: THE OPPENHEIMER STORY"

J. Robert Oppenheimer, in full Julius Robert Oppenheimer, (born April 22, 1904, New York, US-died February 18, 1967, Princeton, New Jersey), American theoretical physicist and science administrator.

Oppenheimer is a 2023 epic biographical thriller film written and directed by Christopher Nolan. J. Robert Oppenheimer, the brilliant physicist known as the "father of the atomic bomb," has captured the fascination of filmmakers over the years. His complex personality, groundbreaking scientific achievements, and involvement in the Manhattan Project provide rich material for storytelling. These films shed light on the personal and psychological challenges he faced during the development of the atomic bomb. They delve into the ethical implications of his work, his role in the Manhattan Project, and the burdens he carried. We analyze how movies have captured Oppenheimer's inner journey and the emotional weight he bore.

Science and the Atomic Bomb:

Oppenheimer's scientific brilliance and contributions to the Manhattan Project are central themes in movies about him. This film highlights his pivotal role in the scientific endeavor that led to the creation of the atomic bomb. We examine how the movie portray Oppenheimer's scientific prowess, the challenges he encountered during the project, and the scientific complexities involved



Oppenheimer's Legacy and Reflections:

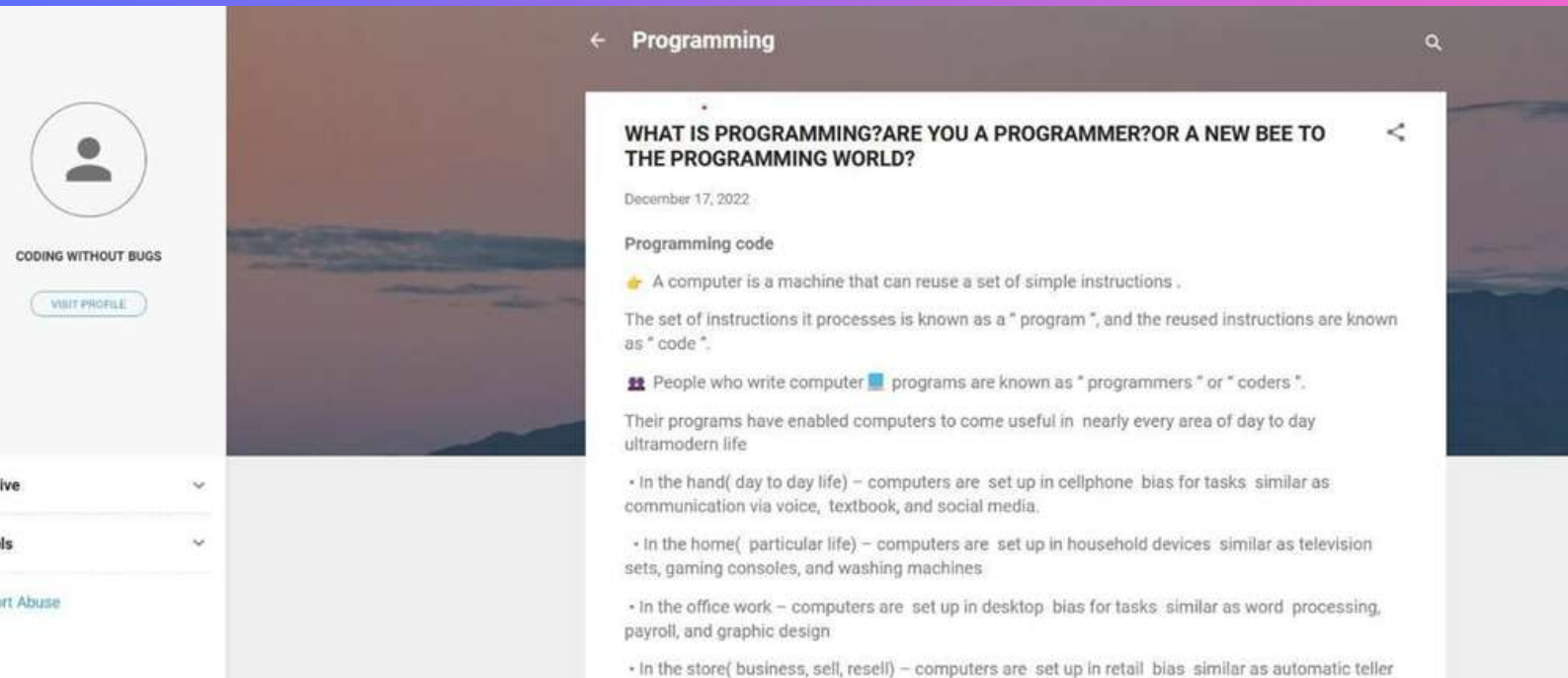
Cinematic portrayals often delve into Oppenheimer's legacy and the reflections he made in later years. The film explore his post-Manhattan Project life, including his involvement in anti-nuclear activism and the controversial security clearance hearing. We can see how movies depict Oppenheimer's reflections, his changing views on the bomb, and the legacy he left behind.

Conclusion:

Through the medium of film, the story of J. Robert Oppenheimer has been brought to life, shedding light on the multifaceted aspects of his life and work. These movies provide a platform for exploring the moral complexities of the atomic bomb and its profound impact on human history. By examining the cinematic portrayals of Oppenheimer, we gain a deeper understanding of his contributions, struggles, and the lasting questions raised by his legacy.

BLOG ON PROGRAMMING

BY: TAYYABA A GIRNI, 7TH SEM, CSE



THE BLOG IS ALL ABOUT, HOW TO START PROGRAMMING ?

Can you teach yourself and the possible to learn by self learning. My blog has helped people to realise we can learn programming by self learning also and it helps with some suitable content for the people who are new to the world of programming

THE OVERVIEW:

Modern programming languages, like Python or C, give a high position of abstraction from low place machine code. Human-readable, high-rank source code can be rendered into low-position machine code by an interpreter or by a compiler. Interpreted programming languages, similar as Python, restate source code into byte code, which can also be executed via their Virtual Machine byte code interpreter. Compiled programming languages, similar as C, make intermediate object code that gets combined into machine code, which can also be executed directly on the computer. The compendium of a C program translates high- position source code into low- position. Assembly language also machine code. Intermediate lines generated during the compilation process are typically deleted automatically by the compiler.

The data structures and control structures used in Python also be in the C, C++, C#, and Java programming languages - so programming skills are transmittable across languages collected programming languages, similar as C, have a main function that's called automatically when the program runs. Statements in numerous programming languages are grouped within {} braces and must end with a semicolon. Programming languages that have explosively comparted variables need the data type that the variable may contain, similar as int integer, to be defined in the variable protestation. Like Python, other programming languages can also import functionality from their libraries. C# programs need the Common Language Runtime (CLR) to be installed to produce machine code at runtime. Java programs need the Java Runtime Environment (JRE) to be installed to produce machine code at runtime.

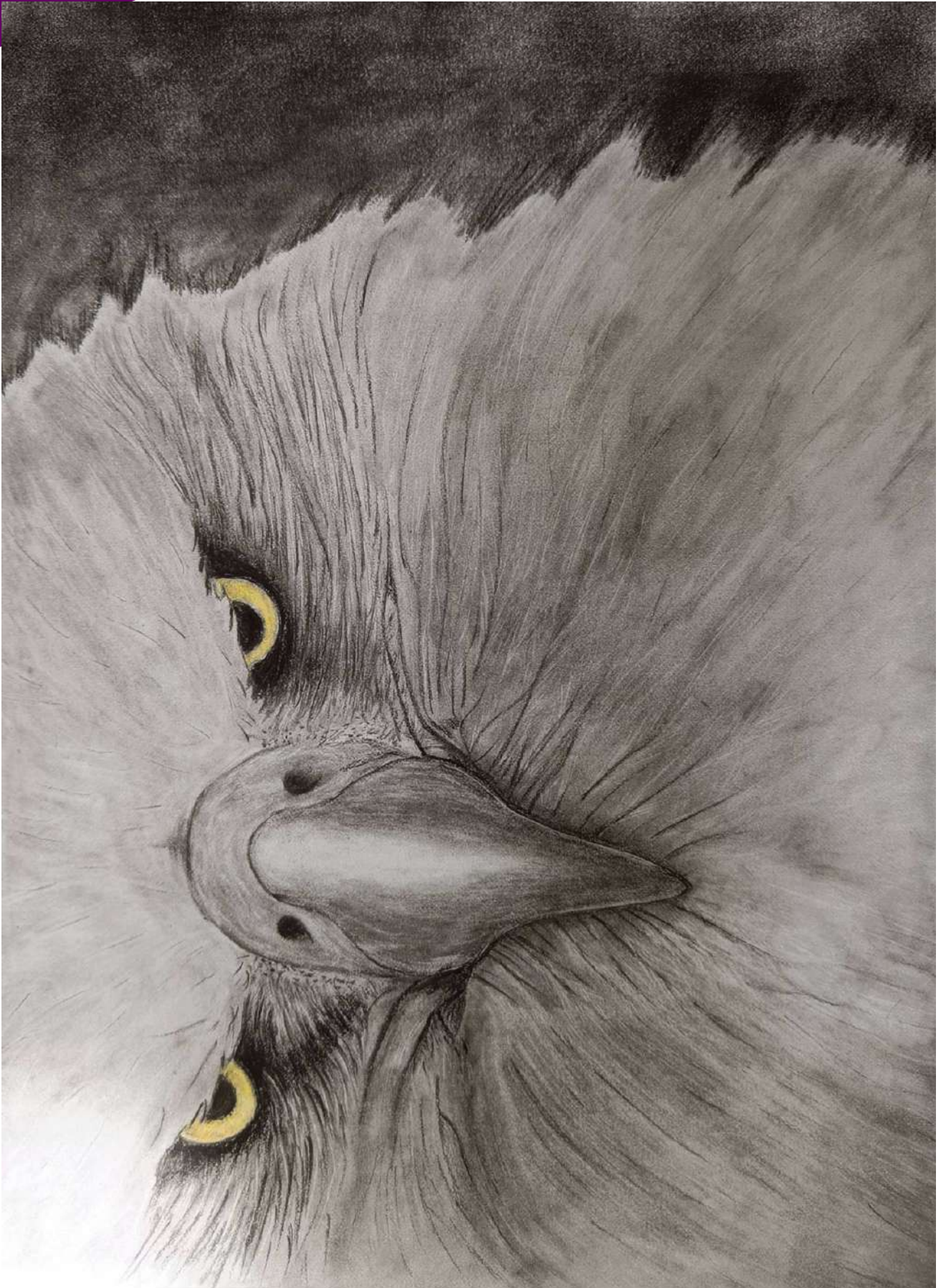
ART BY: SHASHANK D. S

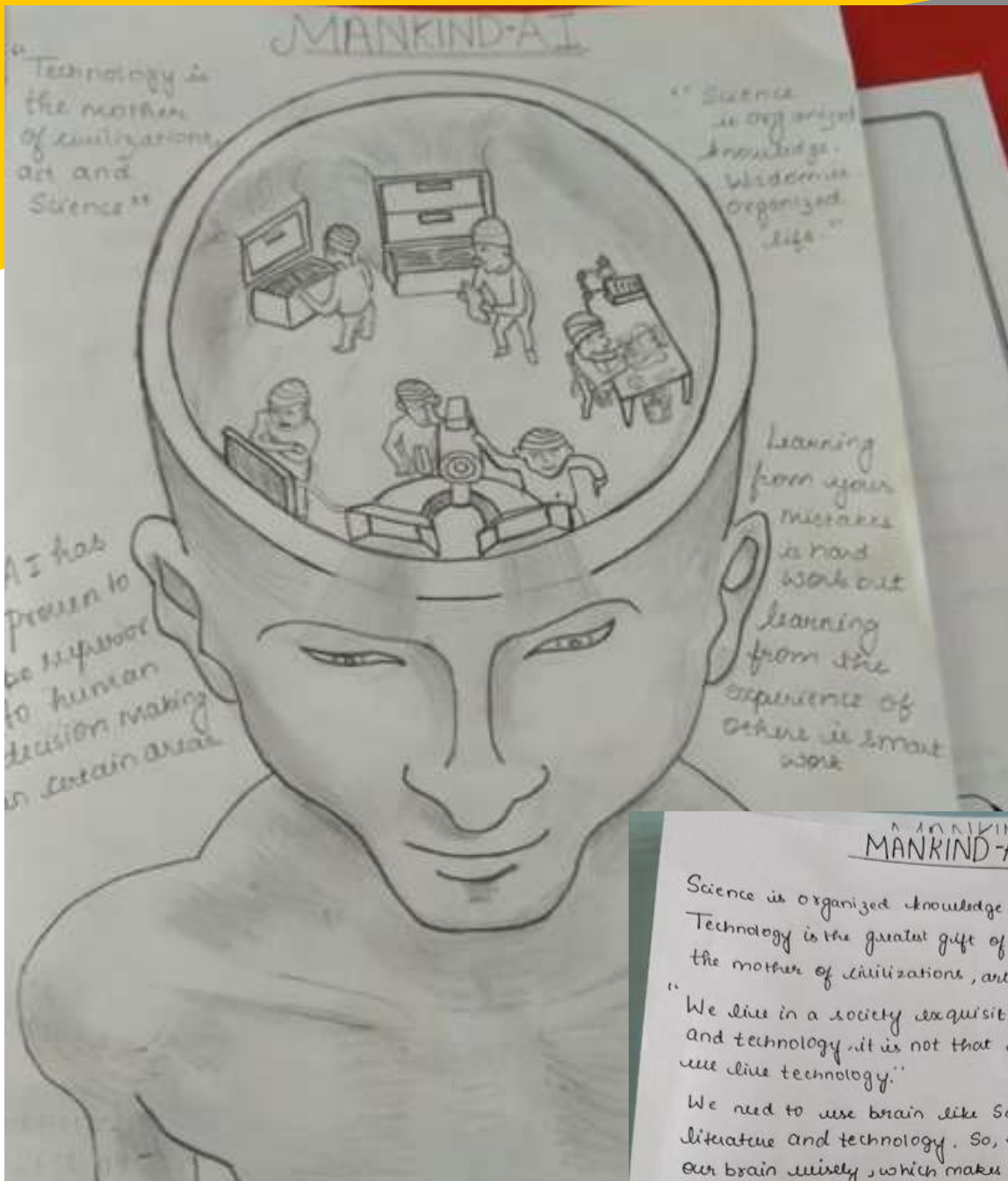
4TH SEM, CSE



ART BY: L. VILOK

2ND SEM, ECE





MANKIND-AI

BY: KIRAN. C

4TH SEM, CSE

MANKIND-AI

Science is organized knowledge. Wisdom is organized life. Technology is the greatest gift of god after life as it is the mother of civilizations, art and Sciences.

"We live in a society exquisitely dependent in science and technology, it is not that we use technology we live technology."

We need to use brain like Salt, science, Art, literature and technology. So, that we can use our brain wisely, which makes us smart to Conquer the world.

Learning from the experience of others is smart work to give our best tomorrow.

Man and science are like unification of hydrogen and oxygen to create a molecule called water to quench the thirst of generations and Conserve it.

Mankind of AI has brought a revolutionized world today. A relationship with an AI could offer nearly all of the emotional support that is required for human essence.

So, AI has proven to be a superior to mankind decision making in certain areas.

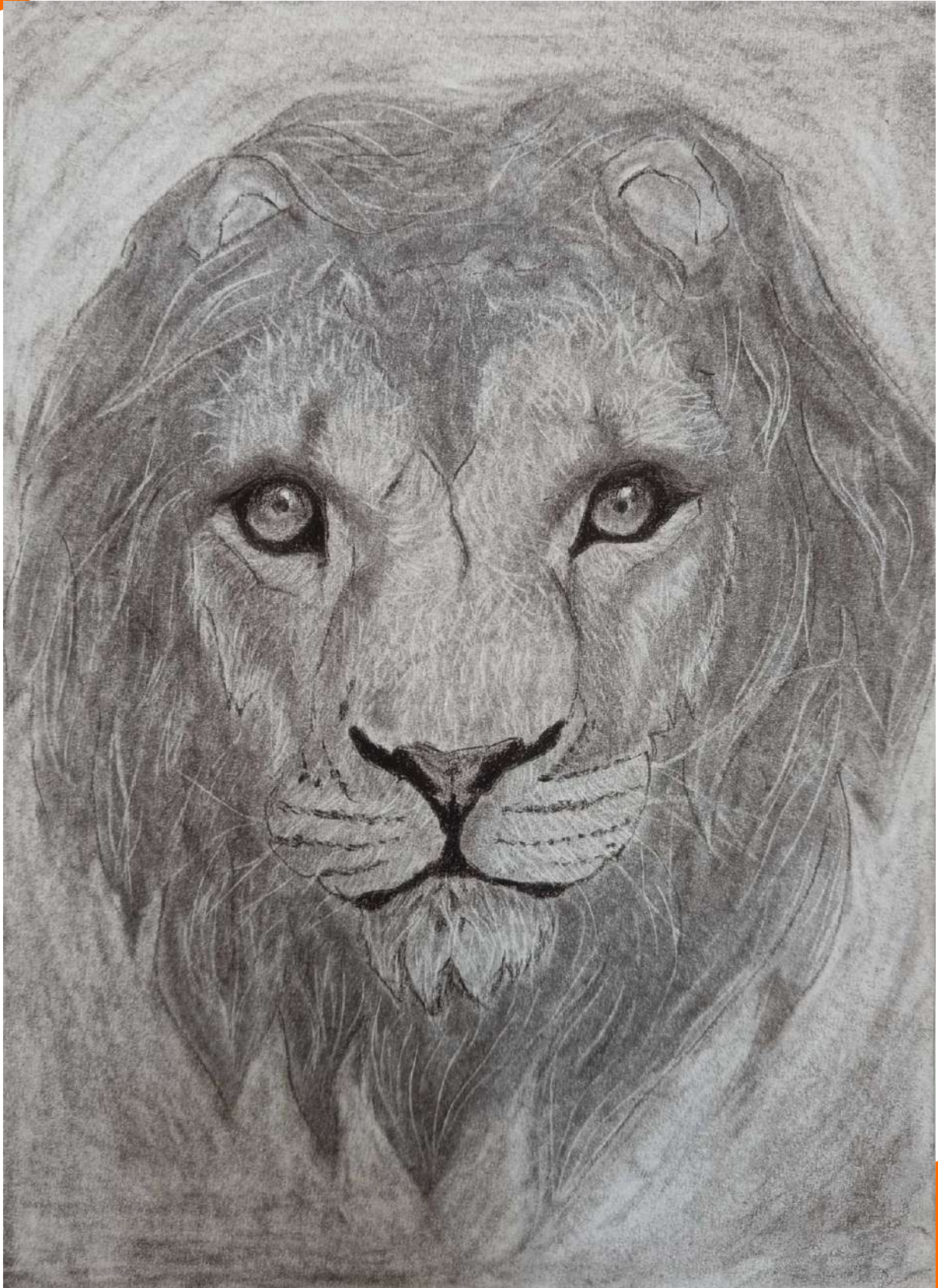
ART BY: L. VILOK

2ND SEM, ECE



ART BY: L. VILOK

2ND SEM, ECE



ARTICLE ON FARMER'S SUICIDE IN INDIA

BY: SHILPA K, 4TH SEM, ECE

FARMER'S SUICIDES IN INDIA :- 15/01/2022 4th sem ECE

India is an agrarian country with around 70% of its people depending directly or indirectly upon agriculture. But farmer's suicides in India is increasing.

As per the central government despite a multi-pronged approach to improving income and social security of farmers over 12,000 suicides were reported in the agricultural sector every year since 2013. Farmer suicides account for approximately 10% of all suicides in India.

There is no denying that the masses of farmer's suicides exist and seem coincident to the aspirations of sweeping benefits of our demographic dividend. In this article,

What do the fact says:-

- Seven states account for 87.5% of total suicides in the farming sector in the country. The states are Maharashtra, Karnataka, Telangana, Madhya Pradesh, Chhattisgarh, Andhra Pradesh and Tamil Nadu 60%.
- Both the marginal farmers and small farmers are committing suicide.

The reasons behind farmer's suicide in India

They had many reasons such as monsoon failure, climate change, high debt burdens, government policies, mental health, personal issues and family problems among the reasons for farmer's suicides in India.

A POEM ON FRIENDSHIP

BY: RAHUL. S, 6TH SEM, ECE

ಸ್ನೇಹ - ಬಂಧನ

ಬಯಸದೆ ಬಂದೆ ಗೆಲೆತನ
 ಹೇಳದೆ ಎಂದೂ ಸಿರಿತನ
 ತಿಳಿದು ಎಂದೂ ಬಡತನ
 ಮುಗಿಯದು ಎಂದೂ ಈ ಸ್ನೇಹ - ಬಂಧನ

ಸ್ನೇಹ

ಯುಜ್ಜಿ ಸಾಯೋದು ಮನುಷ್ಯೆ!
 ಯುಜ್ಜಿ ಸಾಯದವನು ಯಾವನು!
 ಬೇಕೆನುಬರನ್ನು ಸಾಯಿಸೋದು ತ್ರೀಕೆ!
 ಟಿಡೆರೆ ಸಾಯೋರನ್ನು ಹೊಡೆ ಕೈ ಉಡಿಸು
 ಬದುಕಿಸುವುದು ಸ್ನೇಹ.....
 ಮುಖ ನೋಡಿ ಬರುವ ಸ್ನೇಹ
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 ಕೂಡಿ ನೋಡಿ ಬರುವ ಸ್ನೇಹ
 ಕುಡಿ ಹೊಡೆಲ್ಲ ತಿಡೆರೆ,
 ಮನಸ್ಸು ನೋಡಿ ಬರುವ ಸ್ನೇಹ
 ಮನಸ್ಸಿನಿಂದ ದೂರ ಯೋಗಲ್ಲ....

ರಾಹುಲ್. ಎಸ್
 6th Sem ECE, Dep't

AN ARTICLE ON CHAT-GPT

BY: PROF. S.SOWNDESWARI, ECE

ChatGPT is an AI – Powered chatbot that uses natural language processing and machine learning algorithms to interact with users which allows human-like conversations and much more with the chatbot.

The name chatGPT combines “Chat” which refers its functionality & “GPT” refers Generative Pre-Trained Transformer, a type of large language model (LLM). Transformer which means it generates responses, it is pretrained by humans and finally the transformer is the key neural network architecture that transforms an input into a meaningful output.

Unlike google, ChatGPT returns search results, a list of web pages and articles that usually provide information related to search queries. ChatGPT provides a response based on the context and intend behind a user’s question. For example, ask google to write story or write a code, but you can ask that of chatGPT, and it will give you a reasonable response. The language model can answer questions and assist you with tasks, such as composing emails, essays, and code. Its seemingly super clever AI chatbot that seems to know everything. It can do everything from your homework, to writing a cover letter for a new job, to giving you advice, to programming code. While google’s power is the ability to do enormous database lookups and provide a series of matches that might answer your queries. ChatGPT’s power is the ability to interpret the context and meaning of a particular query and produce a relevant answer in grammatically correct and natural language, based on the information that it has been trained on.

AN ARTICLE ON SIX SIGMA

BY: PROF. K.NITHIYA, ECE

SIX SIGMA

~ Prof. K.Nithiya, SaIT

WHAT EXACTLY IS SIX SIGMA?

Six sigma is a statistical and data-driven process that works by limiting errors or defects. It focuses on improving cycle times while limiting manufacturing defects to no more than 3.4 occurrences per million units or events. If you are looking for a six sigma certification in Chennai. Are you ready to begin your Six Sigma certification journey? Then read on to find out how to become an expert in obtaining the best Six Sigma certification.

It is a framework that is not specific to any industry. A Lean Six Sigma expert can be any professional who wants to learn how to improve organisational efficiency. This course is typically taken by professionals such as Supervisors / Engineers / Managers of Quality Control IT experts Managers of Developments Those who appreciate

SIX SIGMA CERTIFICATION OBJECTIVES

This Six Sigma Certification Program is designed to help you master the principles and methodologies of Lean and Six Sigma. Organizations seek management professionals who can use problem solving and business knowledge to improve internal processes as they strive for continuous improvement. This course prepares you to lead quality management projects.



Deploy Zero Trust Data Protection-2023

Author- K.Nithiya, Assistant professor ECE

Published 3 months ago



Best affordable tablets for entertainment in India [July 2023]

Author- K.Nithiya AP/ECE

Published 3 months ago



AI certification by Microsoft launched -2023

Author- K.Nithiya, AP/ECE, Bangalore, SaIT

Published 3 months ago

AFTER ALL, WHY MATHEMATICS @ENGINEERING!!!

BY PROF. NAYANA. H. R

Why Maths????

There is a widely understood need for professional engineers and student becoming Engineers to think mathematically and to use mathematics to describe and analyse different aspects of the real world they seek to engineer. One thinks of the dynamics of structures and industrial fluid mechanics in the engineering of bridges, for instance, and Bihar's Sultanganj - Aguwani Ghat bridge disaster.

Mathematical modelling therefore plays a key role in the formation of engineers, and there has been much research into how engineers should be taught the essential mathematics that spans of year. It suggests that students should be engaged and involved in understand the problem and solving or modelling the problem in engineering context, which in turn helps them to understand the importance mathematics in engineering.

IN REAL TIME SCENARIO:

We Indian Engineer's are good at logical and analytical thinking, So we are known to be employed and also leading the companies from the front which are listed in Fortune 500 over the world. The only reason behind this is that we study more applied maths in our 4 years course than others do. So to narrate the purpose of mathematics in engineering pedagogy and in the formation of engineers one need to delve into what is applied mathematics?



Engineering mathematics constitutes solving differential equations, partial differentiation, use of Laplace and Fourier transforms, geodesics, approximation of errors, taylors, maclaurins, Legendre, Cauchy series, study of complex variables, Numerical analysis, use of trigonometry, statistics and probability. The need of maths in engineering subjects

We see majority of students joining engineering colleges are unaware of the mathematical difficulties involved in subjects which they will study over a period four years. Maths is not difficult, but to do engineering one need to know maths and do the maths. You open any engineering textbook you find equations and derivations. Might be it EC, TC,CS, IS, EE, ME ,Civil Engineering ,etc...

IS MATHS WORTH STUDYING???

Mathematics is included in their curriculum, so that it helps them to build a skill to develop mathematical models of physical systems to understand and analyse the behavior of the systems and use their investigation to build equipment's and tools to perform the tasks. That means Engineering by itself is a science that depends on empirical formulas. Formulas that have been developed to best match the speculation of design and take a look at results. So, in recent days engineers has to deal with more complicated systems and designs. For Example : ChatGPT , Google AI etc... It includes complex design based on trial and error it collects all possible data with rational and analytical designs. And it provides the output on basis of Statistics and Probability which is also the mathematical computations method.

Although computers make every mathematical calculation simpler but to program it one need to know the essential principles to get the desired results. Arithmetic and Algebra is the foundation of computer science engineering. That's what engineering students learns a subject called as digital logic. Simple concepts like AND, OR, NOT, EXOR logics are transferred from these arithmetic functions. Mechanical basics start with straightforward one-dimensional problems including manipulations with vectors, like summation and subtraction.



Calculus is one such are which is encountered in an engineering career. It consists of integration and Differentiation. Calculus deals with changes w.r.t a change. Everything in this world changes. For an electrical engineering it can be change in voltage, current, power etc. For a mechanical engineering it can be change in stress, strain, efficiency, torque, thermal variation etc. In chemical it's about processes and reactions. Engineering students involve to have this explicated to them how come cognition of mathematics is indispensable for their prospective pragmatic work and career. Mathematics is a linguistic communication between physical, chemical and engineering jurisprudences. Exact results of derivatives can be substituted by agreeing that a specific function fulfils this equation

Conclusion:

Yes, it's worth studying. Because as you all know "The basis of any engineering is mathematics and without it engineering won't exist".

AN ARTICLE ON EXTENDED REALITY

BY SUHAS M, 7TH SEM, ECE

Extended reality (XR) is a catch-all term that refers to immersive technologies that combine or mirror the physical and virtual worlds. XR includes virtual reality (VR), augmented reality (AR), and mixed reality (MR), as well as other emerging technologies that enable users to interact with digital environments in new ways.

What is XR?

XR is a spectrum of technologies that create immersive experiences for users. XR can be divided into three main categories:

Virtual reality(VR):

VR creates a fully simulated environment that users can explore and interact with using dedicated headsets and controllers. VR can provide realistic sensations of sight, sound, touch, and even smell, making users feel like they are in another world.

Augmented reality(AR):

AR overlays digital information or objects onto the real world, enhancing users' perception of their surroundings. AR can be accessed through devices such as smartphones, tablets, or smart glasses. AR can provide useful information, entertainment, or guidance for users in various contexts.

Mixed reality(MR):

MR blends real and virtual worlds, creating complex environments where physical and digital elements coexist and interact in real time. MR can be accessed through devices such as headsets or glasses that have cameras and sensors to track the user's position and movement. MR can enable users to manipulate virtual objects or collaborate with others across distances.

How does XR work?

XR technologies work by creating computer-generated environments that are rendered in 3D and displayed on a device's screen or projected onto the user's eyes. The device's sensors track the user's head and body movements, as well as the environment around them, and adjust the images and sounds accordingly. This creates a sense of presence and immersion for the user, making them feel like they are part of the virtual world.

Examples of these devices can be headsets like **Apple Vision Pro**, **Microsoft HoloLens 2** and **HTC Vive Pro** that employ different types of sensors to track movement in fine degrees. Another hardware of note is Meta's Quest 2 that provides excellent immersive experience in video games and online events. XR technologies also use various methods to enable user interaction with the digital environments. These include:

- Hand tracking
- Voice control
- Eye tracking
- Haptic feedback

The Future of XR

Futuristic XR devices will provide personalized and seamless experiences. These devices could allow you to visit events from the comfort of your home using an internet connection. This will give you the same experience you'd get while attending a real concert or sporting event. XR will allow out-of-home (OOH) and mobile advertising to create hyper-personalized ads. OOH digital screens will send you unique ads through sophisticated digital devices when you walk or drive past specific areas.

What are some applications and benefits of XR?

XR technologies have a wide range of applications and benefits across various domains such as entertainment, education, healthcare, tourism, manufacturing, retail, and more. Some examples are:

- **Entertainment:** XR can provide immersive and engaging experiences for gaming, movies, sports, music, art, and more. Users can enjoy realistic simulations of different scenarios or worlds, or create their own content using XR tools.
- **Education:** XR can enhance learning outcomes by providing interactive and experiential learning opportunities for students. Users can access rich and diverse content such as 3D models, simulations, animations, videos, quizzes, etc., that can help them understand complex concepts or skills better.
- **Healthcare:** XR can improve healthcare delivery by providing training, diagnosis, treatment, rehabilitation, and wellness solutions for patients and professionals. Users can access realistic simulations of medical procedures or scenarios, or use VR therapy for pain management or mental health issues.
- **Tourism:** XR can enable users to explore different places or cultures without leaving their homes. Users can access virtual tours of historical sites, museums, landmarks, etc., or experience different events or festivals using XR devices.
- **Manufacturing:** XR can improve productivity and efficiency by providing design, prototyping, testing, maintenance, and collaboration solutions for engineers and workers. Users can access digital twins of physical assets or systems using XR devices, or use AR to overlay instructions or information on their work environment.
- **Retail:** XR can enhance customer experience by providing personalized recommendations, try-on options, or product information using AR devices. Users can also access virtual showrooms or stores using VR devices, or use MR to mix and match real and virtual products

Conclusion

XR is a term that encompasses a range of immersive technologies that create or enhance digital environments for users. XR can provide realistic and interactive experiences that can benefit various domains such as entertainment, education, healthcare, tourism, manufacturing, retail, and more. XR is a rapidly evolving field that promises to transform the way we interact with the world and each other.

POEM ON A TREE

BY: PROF. SWARNA RUBEN, ENGLISH DEPT.

HI, I AM A TREE!!!!

Hi !!! I am a tree
I give you oxygen for free
When its sunny, come under me
Stop cutting me it's a plea



I give you fruit and flower,
And I can also save you from a rain shower
Birds make nests on me,
I don't even charge them a fee.



Two natural resources, soil and water help me grow,
I flourish from the seed you sow.
I am kind to you all,
And I shed in the fall.



You make houses from my wood,
Don't you think I am really good?

SWARNA RUBEN
ENGLISH DEPT

POEM ABOUT AUGUST

BY: PROF. SWARNA RUBEN, ENGLISH DEPT.

AUGUST!! AUGUST!! AUGUST!!

**August! August! August!
Its season of reason
Tremendous golden age
Turned as damage
With all the turbulence
Country struggle with annoyance**



**Refugees hither and thither
Witnessing the revolution
Beneath the broken feather
Leaders' visualization on preparation
People were empowered & entrusted
Again, it was constructed
Insight into the earth mission
A compilation of the super natural vision of missiles
Journey continued for the peace promotion**

But, alas!!!!

**State stop the terrorism
Remember the imperialism
Realize humanism
Act in a heroism**

**SWARNA RUBEN
ENGLISH DEPT**

POEM WRITTEN BY DYAMAPPA PALKAR

2ND SEM ECE

Dyamma Palkar 19T22EC021	ECE I Section	ಯೋಜನೆ ಎ ಸಂಕೀರ್ಣ ನಿಯತೆ ಎ ನೋಂದಣೆ
ಕೃಷ್ಣನೊಲೆ ಚಂದ ನುಲಗಂ ನುಲಗಂನೊಲೆ ಚಂದ ನುಲಗಂನೊಲೆ		ಒಲಗಂನೊಲೆ ನುಲಗಂನೊಲೆ ನುಲಗಂನೊಲೆ ಚಂದ ನುಲಗಂನೊಲೆ
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CONGRATULATIONS TO ALL THE PLACED STUDENTS FROM SAMBHRAM INSTITUTE OF TECHNOLOGY

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

MAVENTIC
CTC: 4.5 LPA



SAURAV KUMAR GUPTA
Dept. CSE



VENKATESH PRASAD G
Dept. CSE

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

ALACER SYSTEMS AND TECHNOLOGY PVT LTD.



ANISA KHANUM
Dept. CSE



ISHU KUMAR
Dept. CSE



POORNIMA K
Dept. CSE

CTC: 6 LPA

PLACED

SAMBHRAM
INSTITUTION'S

CONGRATULATIONS

jaro education
CTC: 6.6LPA



ABHAY DESAI
Dept. cse



RITIKA MISHRA
Dept. cse

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS



Pranav Rao J
1ST19C022



Prathusha
1ST19C5724

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

SLK-SOFTWARE



VAISHNAVI
Dept. CSE

CTC : 3.2 LPA

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

PROSPECTA



NIKHIL RAJ
DEPT. CSE

CTC : 6 LPA

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

TCS



Neeraj R Iyer
Dept. CSE



Sharon Varghese
Dept. ECE

CTC : 3.5 LPA

PLACED

For getting placed at

PROPERTYPISTOL.com

816 LPA

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

CRM IT
Customer Success Partner

CTC 5LPA



Mehatab Unnisa
Dept. CSE



Ambika S Bhat
Dept. ECE

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

QUEST GLOBAL



PRABHAKAR KUMAR
DEPT. CSE

CTC : 3.25 LPA

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

V-MART



Harshith K R
Dept. MBA(VTU)

CTC : 3.5 LPA

PLACED

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS



Sonam Kumari
1ST19CS132

For getting placed at

LOGIXHealth

5 LPA

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS



Meghana G
18779CS035

For getting placed at

IBM

45 LPA

WITH BEST COMPLIMENTS FROM MANAGEMENT,STAFF AND DEPARTMENT OF TRAINING AND PLACEMENT.

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS



Harshitha P
1ST19EC014

For getting placed at

Stratigent

38 LPA

WITH BEST COMPLIMENTS FROM MANAGEMENT,STAFF AND DEPARTMENT OF TRAINING AND PLACEMENT.

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS

3-8 LPA



Lakshmi R
1st19ec018



Harshitha S
1st19ec014



Tejaswini D
1st19ec031



Sanjay T
1st19ec027


for getting placed at

MELTRONICS SYSTEMTECH


WITH BEST COMPLIMENTS FROM MANAGEMENT,STAFF AND DEPARTMENT OF TRAINING AND PLACEMENT.

SAMBHRAM
INSTITUTE OF TECHNOLOGY

CONGRATULATIONS



Agni MR
1ST21BA014



Sahana Gowda
1ST21BA001

For getting placed at

Datalogics

4.8 LPA

PLACEMENT TRAINING AT SAMBHRAM INSTITUTE OF TECHNOLOGY

Placements are benchmark to the performance of any management institute and it depicts the success and the growth of the institutions.

Sambhram Institute of Technology, a renowned educational institution, is not just a place where engineering students come to learn theories and concepts. It is a launchpad for future technocrats, and the institute's commitment to transforming students into industry-ready professionals is evident through its exceptional placement training programs.



Sambhram Institute of Technology conducts mock interviews to help students understand the dynamics of the recruitment process. Additionally, soft skills training is provided to enhance communication, teamwork, and problem-solving abilities.



Sambhram Institute of Technology boasts an impressive track record of placement. Their alumni can be found working in some of the world's leading companies. The institute consistently achieves high placement percentages, and this is a testament to the effectiveness of their placement training programs.



Sambhram Institute of Technology doesn't just prepare students for jobs; it also encourages entrepreneurship. The institute provides resources and mentorship to those who wish to start their own ventures, fostering a culture of innovation.



ALUMNI ASSOCIATE OFFICE BEARERS

"Alumni associations provide a network of lifelong connections, turning yesterday's students into today's mentors and leaders."

Alumni associations are more than a connection; they are a gateway to a world of opportunities. They are a living testament to the enduring legacy of your educational institution. Whether you're a recent graduate or a seasoned professional, your alumni association is ready to welcome you with open arms, helping you relive the past, shape the present, and define the future. Join the movement, embrace the camaraderie, and become part of a legacy that knows no boundaries. Our Sambhram Institute of technology's alumni associate office bearer details are as follows

Goals of Alumni Association

- Support the training and placement cell.
- Facilitate the organization of workshops, seminars, and conferences.
- Create a platform for alumnus-student interaction.
- Seek alumni assistance for final year undergraduate and postgraduate projects.
- Harness the alumni's goodwill to benefit the students. The association is overseen by an executive committee, with the principal serving as the Director.

ALUMNI PRESIDENT



Prof. Girish Kumar N G
B.E, M.SC (UK), M.Sc(Engg) , (Ph.D)
Asst. Professor, ETE, BIT

VICE PRESIDENT



Megha C
Quality Assurance Analyst
Epsilon

TREASURER



Mohanapriya M
Asst. Professor, CSE
Sambhram Institute of Technology

ALUMNI SECRETARY



Poornima Hegde
Associate Software Test Engineer,
Infinite Computer Solutions

FACULTY ADVISOR



Dr. Ravishankar C.V
HOD-ECE
Sambhram Institute of Technology

FACULTY COORDINATOR



Ms. Rashmi Rajeev
Head-Training and Placements
Sambhram Institute of Technology

ALUMINI UPDATES

"Alumni: where the past meets the future."

Our ECE department alumni Mr. Girish Kumar N visited our campus for Intra collegiate Innovative ideas contest innovative project idea contest on 21-12-2022. He Intend to build a career with leading corporate of hi-tech environment with committed & dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key player in challenging & creative environment. He is Currently Pursuing Ph.D in Electronics and Communication with a research topic titled "Study and Optimization of Hybrid Precoder for Massive MIMO Systems" Completed Comprehensive VIVA and Open Seminar-I Research Centre, Bangalore Institute of Technology, Bengaluru. He completed his B.E in sambhram institute of technology at 2005. He provided his valuable insights & experiences to the younger generation upcoming graduates and upcoming passed out students.



His Professional Bodies Membership is as follows:

- Life Member of Indian Society for Technical Education (ISTE), Delhi
- Life Member of Institute of Engineers (IEI), Kolkata
- Attempted to publish a paper in the Journal of The Institution of Engineers (India); Series BPaper ID-IEIB-D-23-00252
- Life Member of the International Association of Engineers (IAENG), Hong Kong
- Life Member of Institute of Analysts and Programmers, London, United Kingdom

ECE Department with Alumni Mr. Girish Kumar during Intra collegiate Innovative ideas contest innovative project idea contest on 21-12-2022.



ALUMINI VISIT Dr. INDRAJIT MANDAL

Dr.Indrajit Mandal who is the chief expert in the domain of Artificial Intelligence and Machine Learning algorithms. He holds a respectable Doctorate Degree in the area of Machine Learning where he has developed Machine Learning Algorithms & several Industrial products that are being used in the market today. He has rich experience in the Domain of Fintech experience he has built Credit evaluation System. He has developed Enterprise Information systems using machine learning algorithms. He has worked in the area of computer Vision Algorithms to develop new Architecture in the domain Medical diagnostic System.



Now throwing some light on his academic background, he is double Gold Medalist in the area of Machine Learning research from National design and research forum, Institution of Engineers. He has published more than 14 Research Articles in International Journals where he has produced Quality research by developing new Machine Learning Algorithms. Currently he is a reviewer for a number of several International Journals across of the globe.

Recently in the month of January, he has visited Malaysia for an International conference ICDMAI in 2019, where he has bagged 1st Prize in the track "Artificial Intelligence and Data Analytics. He also received Data Scientist Award 40 fewer than 40 presented by Microsoft in January-2019. Apart from all these, he has received more than 200 National and International Awards from IITS, NITS and other Engineering Institution in India. Currently he holds a respectable Position as Head of Research & Innovation, Cyber security team at TCS where he manages a team of Data Scientists. He leads Innovation based growth and contributes to development of new technologies. He has filed 15 Patents and won 15 Ideathons /Hackathons.

CULTURAL UPDATES

Sahana bai S of 4th semester ECE rocked the stage by her classical performance through artistic expression but also a means of storytelling, cultural preservation, and spiritual communication. She has won several prizes and awards for her contributions in Classical dance.



Lakshmi of ECE department portrayed the role of "Rani Lakshmi bai " in Alumni Meet held at Sambhram roost resort Located at Hessargatta Main Road, Bangalore. Her portrayal seems nostalgic and found good as Rani Lakshmi Bai character.

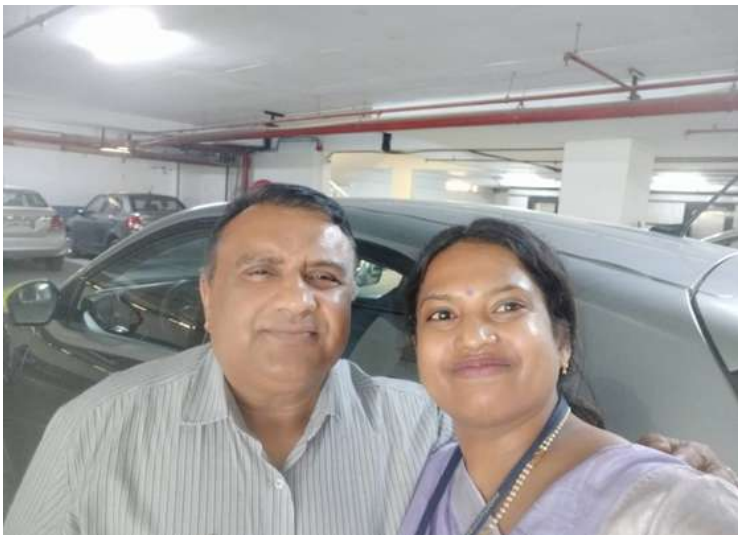
CAMPUS HAPPENINGS **ALUMNI/DIGNITARIES VISIT**



Mr. Varun, an Alumni of 2004 batch visited SaIT campus & ECE Department on 22nd July 2022 .

Our former ECE faculty visited ECE department and Dr. Ravishankar sir on 2nd June 2022

On 27th August 2022 our ECE alumni Mr. Ravikumar sahuo of 2010 batch visited the ECE department and Placement dept.



Dr. Ravishankar. C. V with former ECE faculty Dr.Pushpamala at Dayananasagar university in occasion of IETE - DSU inauguration on 9th February,2022.



Mr. Shahaab Baekar an Alumni of 2004 batch visited campus & ECE Department on 2nd July 2022, and shared his work experiences with junior students.



Engineers day celebration was held at Sambhram campus on 8th September 2022.



NIRF director and Former Vice Chancellor visited our campus on November 28th, 2022



Dr. Mandal and Dr. Seetharam visited SaIT campus on 29th November-2022 for Ph.D viva voce.

TECHNICAL EVENTS AT SAMBHRAM

- FDP conducted on “Cyber security & Ethical Hacking ”from June 7th to 11th, 2022 supported by student chapters of ISTE,IETE & IEEE.



- Opening & Installation of Buddha statue in SaIT campus on 6th July 2022, Statue placed by Principal Dr.Chandrankanth,SaIT & Dr. Nagraj V & Dhanya Nagraj.



- Women's cell program on 25 th August 2022 regarding Motivation to youngsters in terms of hygiene & Entrepreneurship



- Founder's day –conducted on remembrance of Respected founder on 2nd September,2022



- Onam celebrations held on 3rd September 2022 at Sambhram campus.



- ECE HOD Dr. Ravishankar attended MATLAB Expo INDIA by Mathworks on 8th September 2022.



- Center of excellence for youth empowerment program by ICT- ICT on 29 December 2022.



- Student Interaction event followed by POWER BI training section for VII semester ECE students. ECE student Sharon Varghese delivered her insights of the training



- The Department of MBA organized a street play on the occasion of World Consumer Rights Day on March 15, 2023 at Sambhram Institute of Technology. The main purpose of enacting the street play was to create awareness and educate the people about consumer rights..



- Women's day celebration Conducted at Sri. Venkatesh Auditorium, SaIT campus



WOMEN'S CELL ACTIVITIES

Women's Cell at SaIT conducted a session on "Health Hygiene and Personality " in association with P&G on 25th August 2022. " The session started with the introduction of Hygienic health .Personal hygiene and grooming cannot over emphasize every single day. P&G Company explained about the faith in once capability and inner confidence as pandemic come to an end you have to adjust to the new normal.



Women's Cell in association with CICC at SaIT conducted a seminar on Women's Rights. The Seminar was about how women's can express, grow, contribute, feel safe, etc. at the workplace should be a self-evident truth. Several laws relating to working women was effectively discussed in this session.



Women's Cell at SaIT conducted a session on "Women's Menstrual Hygiene & Interview Tips" by Proctor and Gamble (P&G #MYWAY PROGRAM) in Association with "Gillette-Venus & Whisperon" on 19th October 2022.



The College conducted a workshop on “Microsoft Power BI”. The Resource persons were Mr.Ramesh (Subject matter expert - Power BI from ICT Academy) and Ms. Roopa R (Soft skill trainer from ICT Academy) . The workshop was conducted from 30th November 2022 to 15th December 2022.



Women’s Cell at SaIT conducted a “Digital Poster Making Event” on the Occasion of “International Women’s Day” on 29th November 2022. The aim of this event was to create awareness about women equality.



UPCOMING EVENTS 2023

ICSGET - 2023

UNLOCKING CYBER SECURITY CAREERS" CAREER
DEVELOPMENT SESSION - 2023

VALUE ADDED COURSE - SENSING, AUTOMATION AND IOT USING
IOT DEV BOARD - 2023

SOUTH ASIAN INTERNATIONAL GAMES - 2023

MOU SIGNING AND TECHNICAL TALK - 2023

HANDS ON WORKSHOP ON VIRTUAL & MIXED REALITY - 2023

STUDENT INDUCTION PROGRAM (SIP) -2023

AND MANY MORE.....

EDITORIAL TEAM

EDITOR IN - CHIEF

: Dr. Ravishankar C V (ECE - HOD)

FACULTY CO-ORDINATORS

: Prof. Mallamma Goudar (CSE)

: Prof. Nithiya K (ECE)

: Prof. Nayana H R (Basic Science)

: Prof. Pankaja Manjunath (ISE)

: Prof. Ashwini (Civil)

: Prof. Pavithra (Basic Science)

: Dr. Padmini B V (Mech)

: Prof. Snehal Rathi (Cybersecurity)

STUDENT CO-ORDINATORS

: Mr. Deepak R (5th Sem ECE)

: Ms. Tayyaba A Girni (7th Sem CSE)

: Mr. Suhas M (7th Sem ECE)