



SAMBHRAM
INSTITUTE OF TECHNOLOGY



August 2024 - January 2025

NEWSLETTER

www.sambhram.org

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1	MISSION AND VISION	1
2	CHAIRMAN AND PRINCIPAL'S NOTE	2
3	DEAN'S NOTE	3
4	MESSAGE FROM HODS	4
5	CHIEF EDITOR'S NOTE	7
6	EDITORIAL BOARD	8
7	ACKNOWLEDGEMENT	9
8	PREFACE	10
9	BASIC SCIENCE	11
10	COMPUTER SCIENCE AND ENGINEERING	43
11	ELECTRONICS AND COMMUNICATION ENGINEERING	50
12	ARTIFICIAL INTELLIGENCE & DATA SCIENCE	58
13	CYBER SECURITY	65
14	CIVIL ENGINEERING	75
15	SC/ST CELL	84
16	EDITORIAL TEAM	88





SAMBHRAM INSTITUTE OF TECHNOLOGY

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.

EDUCATION IS THE MOVEMENT FROM DARKNESS TO LIGHT -ALLAN BLOOM

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 endeavor's.

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



DEAN'S NOTE

It is a matter of great pride and satisfaction for Sambhram ITis going to release the 11th Edition of the College News Letterfrom (COLLEGE/ DEPT OF SAIT) shortly. The College hasmade tremendous progress in all areas of academic, non-academics, capacity building activities relevant to staff andstudents. The College has achieved milestone in getting NBA(National Board of Accreditation, New Delhi) and shortlygoing 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 theperson's who are interested in the Technical education andTechnology based activities. Our college News Letter is like a mirrorwhich showcase the clear picture of all of activities undertaken inour COLLEGE/ Department and also develops writing skills amongstudents in particular and teaching faculty in general.

I congratulate and thank the Editorial Board of this News Letter who have played wonderful role in accomplishingthe 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 ourTechnical activities in the campus. Also my heartfelt Congratulations once again to all the members of the EditorialBoard, Teaching and Non-teaching staff members and Students of our college for their keen interest evinced andcompliment 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 ourresearch endeavors through the college newsletter. Ourdedicated researchers continue to push boundaries and makesignificant contributions to their respective fields, furtheringour mission of knowledge creation and innovation. Fromgroundbreaking discoveries to impactful collaborations, ourresearch 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 HOD'S



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.

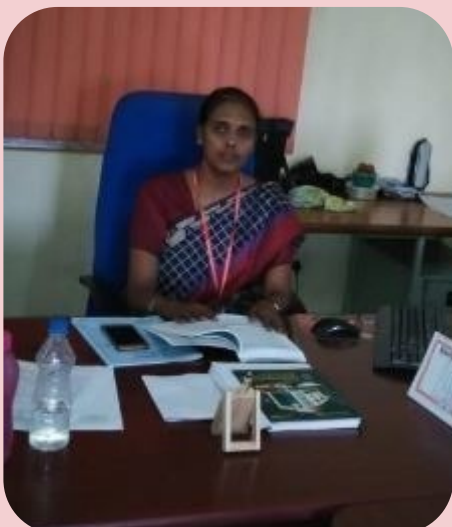
DR. RAVISHANKAR. C. V HOD, ECE

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.



DR. LATHA. P. H HOD, ISE

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. MALLIKARJUN HOD, CIVIL

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. APPAJI GOWDA. MATCH EHMOADT, DICESPT. OF

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.



DR SANGEETHA. R HOD, CSE - CYBER SECURITY

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. AJEETH HOD, AIML

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. R. SEETHARAMIAH HOD, MECHANICAL

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.



CHIEF EDITOR'S NOTE



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**



"Together, we achieve more."

EDITOR'S NOTE

"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."

Faculty Coordinators

Prof. Nithiya K - ECE
Prof. Saranya B- CSE
Prof. Nayana HR- Basic science
Prof. Mamatha B L- AI&DS
Dr.Sanjeetha & Prof. Ganga -
Cybersecurity
~~Prof.Pratibha K- Civil~~
Prof. Chethan - Mechanical
Prof. Vikas - AIML
Prof.Pankaja &
Prof. Soumyashree - IS department
Prof. Nida - MBA

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



RANGA KAVYA
6th Sem Dept. of
CSE



Raghavendra P
6th Sem Dept. of
ISE



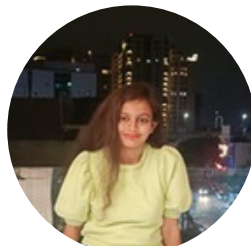
Rishikesh Ranjan
6th Sem Dept. of
ISE



Archana S R
CSE (Cyber Security)
6th Sem



Shridhar J
4th Sem Dept. of
CSE



Shrishya D.P
4th Sem Dept. of
CSE



Swathi.Y
4th Sem Dept. of
CSE



Suhani.S
4th Sem Dept. of
CSE



HM VINAYRAJ
1st Sem Dept. of
ISE

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".

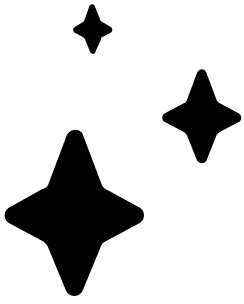
We would like to express our deep gratitude to Dr. V. Nagaraj, The Honourable Chairman, The Dean Academics & The Dean Research, Dr. H. G. Chandrakanth, The Principal, Sambhram Institute of Technology, in bringing out this magazine.

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.

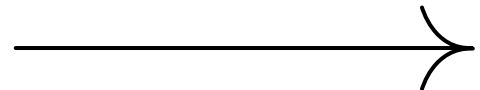
We would like to offer our special thanks to the faculty of CSE and ECE. Their support, encouragement and credible ideas have been great contribution in the successful completion of this magazine.

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.



ARTIFICIAL INTELLIGENCE & DATA SCIENCE



AUGUST 2024-JANUARY 2025
2025

HOD MESSAGE



Dr. B. Vani
HOD AI&DS

The department of Data Science that focuses on practical applications of collected and analyzed data is Data Science engineering. It is a multidisciplinary field encompassing Computer Science, Computational Mathematics, Statistics, and Management. The department has good infrastructure and computing facilities for academic and Research activities. The department has well experienced highly qualified, dedicated faculties to support students in their academics, co-curricular, extracurricular and personals. The department has a strong prominence on innovation and research. Data Science enables companies to efficiently understand gigantic data from multiple sources and derive valuable insights to make smarter data-driven decisions. Data Science is widely used in various industry domains, including marketing, healthcare, finance, banking, policy work, and more. Our institution provides students with a platform to improve their employment skills and also provide opportunities to work on consultancy projects and internships.

DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND DATA SCIENCE
AUGUST 2024-JANUARY 2025

Artificial Intelligence (AI) and Data Science (DS) are integral fields within science, engineering, and technology. Engineering in AI and DS focuses on core technologies, including Data Warehousing, Data Mining, Scripting Languages, Product Development, and Mathematical Modeling. Data Science plays a vital role in enabling organisations to analyse massive datasets from multiple sources, derive actionable insights, and make smarter data-driven decisions.

At SaIT, our Department offers the AI & DS Degree as per the curriculum designed by Visvesvaraya Technological University (VTU). This features an outcome-based syllabus that integrates essential theoretical concepts with practical skills in the domain. The aim is to foster critical and innovative thinking, as well as problem-solving abilities to ensure a seamless transition from academia to the professional world.

The Department not only emphasizes academic excellence but also imparts skill development, and real-world applications through a blend of curricular, co-curricular, and extracurricular activities. With the support of dedicated faculty, industry- expert interactions, workshops, seminars, projects and internship opportunities, students gain comprehensive knowledge and practical experience in AI and DS.



Department of AI&DS established from the Academic year 2022, Total intake 60 students, at present in first year total strength 48, Second year total strength 41 and at Third year total strength 52 students.



In today's rapidly evolving digital world, Artificial Intelligence (AI) and Data Science stand out as the twin pillars that are reshaping industries. These fields are not just buzzwords; they are transforming how businesses operate, how decisions are made, and how we interact with technology. As the world continues to integrate AI and Data Science into various sectors, building a career in these domains is becoming increasingly essential for future-proofing your professional life.

Together, AI and Data Science are empowering industries such as healthcare, finance, e-commerce, manufacturing, and entertainment. The increasing demand for professionals who can harness these technologies has made AI and Data Science some of the most promising career paths in today's job market.

VISION

To encourage the inquisitiveness in a student and make them to understand the fundamentals of science to exploit for the development of new technology.

MISSION

To feed the engineer with fine aspects of science which make them to understand, exploit and innovate; leading to the technological advancement of future world.

THE FACULTIES ATTENDED FACULTY DEVELOPMENT PROGRAM(FDP)

1. Dr. Mamatha M, Assistant Professor, Department of AI&DS, SaIT, Participated in six day's online FDP on "DevOps" from 04-09-2024, organized by Department of Computer Science & a Engineering Bengaluru.



3. Prof. Mamatha B.L, Assistant Professor, Department of AI&DS, SaIT Participated in six day's online FDP on "DevOps" from 04-09-2024, organized by Department of Computer Science & a Engineering Bengaluru.



2. Dr. B. Vani, HOD Artificial Intelligence and Data Science, SaIT, Participated in six day's online FDP on "DevOps" from 04-09-2024, organized by Department of Computer Science & a Engineering Bengaluru.



4. Dr. Mamatha M, Assistant Professor, Department of AI&DS, SaIT, attending One Week Professional Development program on "NLP unleashed: Cutting-Edge Methods and Applications" organized from 27-08-2024 to 31-08-2024 by the Department of Computer Science Engineering, at Vardhaman College of Engineering, Shamshabad Hyderabad.



◆
◆ Dr. B Vani , Assistant Professor , Department of AI&DS, SaIT, attending One Week Professional Development program on “NLP unleashed: Cutting-Edge Methods and Applications” organized from 27-08-2024 to 31-08-2024 by the Department of Computer Science Engineering, at Vardhaman College of Engineering, Shamshabad Hyderabad.



7. Prof Vishwanath Rajapat, Assistant professor, AI&DS, SaIT participated in 5 days International Faculty Development Program on Gen-AI and Prompt Engineering using Microsoft Co-Pilot organized by BNM Institute of Technology, Karnataka.



8. Prof Vishwanath Rajapat, Assistant professor, AI&DS, SaIT has Attended Online Faculty Development Program on “Data Analytics and Visualization with Power BI and Tableau” from 9th-13th September 2024 organized by Department of Information Science & Engineering CMR INSTITUTE, Bangalore.



6. Prof Mamatha B.L, Assistant Professor , Department of AI&DS, SaIT, attending One Week Professional Development program on “NLP unleashed: Cutting-Edge Methods and Applications” organized from 27-08-2024 to 31-08-2024 by the Department of Computer Science Engineering, at Vardhaman College of Engineering, Shamshabad Hyderabad.



9. Prof Mamatha B.L, Assistant Professor, Department of AI&DS, SaIT for participating in the one day workshop on Data Visualization on Power BI and Tableau conducted by the Department of AI&DS and ISE on 19th October, 2024



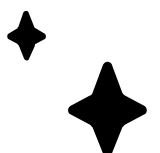
11. Dr. Mamatha M, HOD, Assistant Professor, Department of AI&DS, SaIT for participating in the one day workshop on Data Visualization on Power BI and Tableau conducted by the Department of AI&DS and ISE on 19th October, 2024



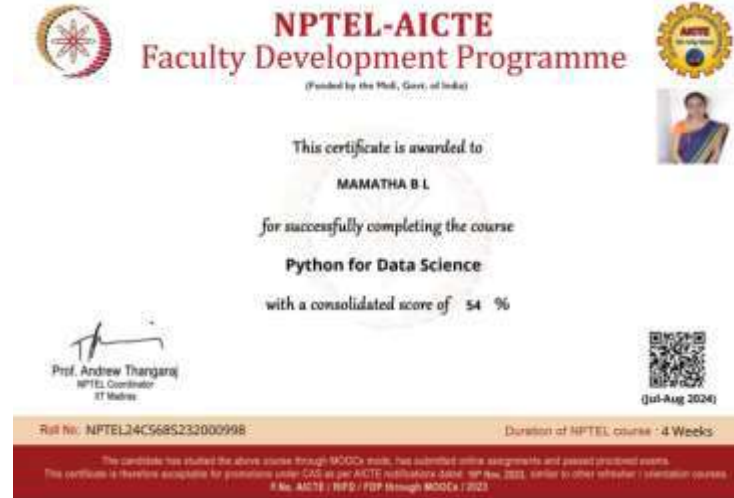
10. Dr. B Vani, HOD, Assistant Professor, Department of AI&DS, SaIT for participating in the one day workshop on Data Visualization on Power BI and Tableau conducted by the Department of AI&DS and ISE on 19th October, 2024



12. Prof Vishwanath Rajaput, Assistant Professor, Department of AI&DS, SaIT for participating in the one day workshop on Data Visualization on Power BI and Tableau conducted by the Department of AI&DS and ISE on 19th October, 2024




13. Prof. Mamatha B L, Assistant Professor, Department of AI&DS, SaIT, awarded for successfully completing the course Python for Data Science certified by NPTEL –AICTE FACULTY DEVELOPMENT PROGRAMME ONLINE CERTIFICATION.



SKILL DEVELOPMENT FOR STUDENTS

1. Six Days Student Skill Development Program on “Data Visualization on Power BI and Tableau” for III Semester on 11-11-2024 to 17-11-2024 conducted by V-Tricks organized by Department of AI&DS, AI&ML, ISE, SaIT.




Department of Artificial Intelligence and Data Science

Cordially invites you for

**III Semester
Skill Development Program
on**

**“DATA VISUALISATION USING POWER BI”
(11/11/2024-17/11/2024)**

By



CHIEF PATRONS

Smt. Dhanya Nagraj DIRECTOR, SGI	Sri. B. N. Nagaraj (IPS-Retd.) CEO, SGI	Dr. V. Nagaraj CHAIRMAN, SGI
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PATRONS

Dr. K.V Prasad DEAN- RESEARCH, SAIT	Dr. M.N. SreeRangaraju DEAN- ACADEMICS, SAIT	Dr. H.G. Chandrakanth PRINCIPAL, SAIT
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INVITED BY,


Dr. Mamatha M SDP Co-ordinator	Prof. Mamatha B L Co-ordinator	Prof. Vishwanatha A R Co-ordinator	Dr. B. Vani HOD- AI&DS
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Date: 11th November 2024
Venue: AI&DS Lab
Time: 9.00 A.M To 4.30 P.M

EVENT PHOTOS



2.Six Days Student Skill Development Program on “Data Visualization on Power BI and Tableau” for V- Semester on 21-10-2024 to 26-10-2024 conducted by V-Tricks organized by Department of AI&DS, AI&ML, ISE, SAIT.

 **SAMBHRAM**
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION SCIENCE

Cordially invites you for

Student Skill Development Program on

“DATA VISUALISATION ON POWER BI AND TABLEAU”

By
**Mrs. Nagaveni and
Ms. Nagapriya**

VTricks Technologies

CHIEF PATRONS

Smt. Dhanya Nagraj DIRECTOR, SGI	Sri. B. N. Nagaraj (IPS-Retd.) CEO, SGI	Dr. V. Nagaraj CHAIRMAN, SGI
--	---	--

PATRONS

Dr. K.V Prasad DEAN- RESEARCH, SAIT	Dr. M.N. SreeRangaraju DEAN- ACADEMICS, SAIT	Dr. H.G. Chandrakanth PRINCIPAL, SAIT
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INVITED BY

Dr. Latha. P. H HOD- ISE	Sowmyashree C.S Co-ordinator, Asst.Prof. ISE Dept.
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Date: 21/10/24 to 26/10/24
Venue: ISE Lab
Time: 9.30 A.M To 4.30

EVENT PHOTOS

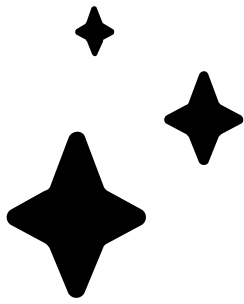


STUDENTS ATTENDED ONLINE WORKSHOP

1. JEEVITHA K.N 3rd sem student of AI&DS Department, SaIT awarded a participation certificate for successfully participating in Innovation And Design Thinking program conducted between 18/3/24 to 18/9/24 have successfully showcased their problem-solving and participating skills for the community problems under Innovation and Design Thinking program

2. Pravallika V 3rd sem student of AI&DS Department, SaIT awarded a participation certificate for successfully participating in Innovation And Design Thinking program conducted between 18/3/24 to 18/9/24 have successfully showcased their problem-solving and participating skills for the community problems under Innovation and Design Thinking program





3.D.R.Vismaya 3rd sem student of AI&DS Department, SaIT awarded a participation certificate for successfully participating in Innovation And Design Thinking program conducted between 18/3/24 to 18/9/24 have successfully showcased their problem-solving and participating skills for the community problems under Innovation and Design Thinking program



4.Vimaya M 3rd Sem, AI&DS Department , SaIT got certificate for Participating in the workshop by AI expert Mr. Abinav Devaguptapu on “AI for students; Build your Own Generative AI Model”.



5.Kalander T 3rd Sem, AI&DS Department , SaIT got certificate for Participating in the workshop by AI expert Mr. Abinav Devaguptapu on “AI for students; Build your Own Generative AI Model”.



6.Kalander T 3rd Sem, AI&DS Department , SaIT awarded for successfully completing a free online course Web Development



7. Kalander T 3rd Sem, AI&DS Department, SaIT awarded for successfully completing a free online course Java Programming



8. YASHASWINI P N 3rd Sem, AI&DS Department, SaIT got certificate for Participating in the workshop by AI expert Mr. Abinav Devaguptapu on "AI for students; Build your Own Generative AI Model".



9. MEGHANA P, BHARATH R, M.D. ARSLAN, KAVYA B, PALLA JEEVANA SREEJA, KEERTHANA A L 5th SEM students Department of AI&DS Department, SaIT, have participated in the Internal Smart India Hackathon held at Sambhram Institute of Technology on 18th September 2024.



10. BINDU S, DHANUSH C M, GANYA R, MOUNIKA M, ADHITHYA TIRAKAPADI 5th Sem students Department of AI&DS, SaIT, have participated in the Internal Smart India Hackathon held at Sambhram Institute of Technology on 18th September 2024



11. KAVANA S, SRINITH.N have participated in the Internal Smart India Hackathon held at Sambhram Institute of Technology on 18th September 2024



12.KEERTHANA C, VISHAL M, LIKITH S GOWDA, MUTHUSHREE M C 5th SEM students Department of AI&DS Department, SaIT, have participated in the Internal Smart India Hackathon held at Sambhram Institute of Technology on 18th September 2024.



14.Muthushree M.C. 5th Sem student Department of AI&DS, SaIT got certificate for Participating in the workshop by AI expert Mr. Abinav Devaguptapu on “AI for students; Build your Own Generative AI Model”.



13.SHRUTHI G, LEVIN K.V, HARSHITHA L, YASHASWINI J, VAISHNAVI C, SAYAN DAS 5th SEM students Department of AI&DS Department, SaIT, have participated in the Internal Smart India Hackathon held at Sambhram Institute of Technology on 18th September 2024.



15.Muthushree M.C. 5th Sem student Department of AI&DS, SaIT got certificate for successfully completion of online exam conducted by Microsoft Azure Data Fundamentals.



16. Muthushree M.C. 5th Sem student Department of AI&DS, SaIT got certificate has successfully completed AI and Data Skills Internship cum certificate program.



17. Muthushree M.C. 5th Sem student Department of AI&DS, SaIT got certificate has successfully completing a free online course Python Fundamentals for Beginners.



18. Mobassir Raza 5th SEM student of AI&DS Department got certificate has attended "Inter-College Event on Insight in Sight Designing Impactful Dashboard" for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology.



19. M.D. ARSLAN, 5th SEM student of AI&DS Department got certificate has attended "Inter-College Event on Insight in Sight Designing Impactful Dashboard" for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology



20. PAVAN B, 5th SEM student of AI&DS Department got certificate has attended "Inter-College Event on Insight in Sight Designing Impactful Dashboard" for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology



21.YOGESH K 5th SEM student of AI&DS Department got certificate has attended “Inter-College Event on Insight in Sight Designing Impactful Dashboard” for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology



23.M.D. ASIF 5th SEM student of AI&DS Department got certificate has attended “Inter-College Event on Insight in Sight Designing Impactful Dashboard” for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology



22.SAYAN DAS 5th SEM student of AI&DS Department got certificate has attended “Inter-College Event on Insight in Sight Designing Impactful Dashboard” for the Date 9/12/24 Organized by Department of Information Science & Engineering CMR Institute of Technology



STUDENT CORNER

MUTHUSHREE M C 5th SEM Student of AI&DS Department, SaIT, got certificate for winning First Prize at Sambhramotsava for the Throw Ball Competition at Sambhram Institute of Technology on 14-12-2024



KAVANA S 5th SEM Student of AI&DS Department, SaIT, got certificate for winning First Prize at Sambhramotsava for the Throw Ball Competition at Sambhram Institute of Technology on 14-12-2024



GOLLA JYOTHIKA 5th SEM Student of AI&DS Department, SaIT, got certificate for winning Second Prize at Sambhramotsava for the Vegetable Carving Competition at Sambhram Institute of Technology on 14-12-2024



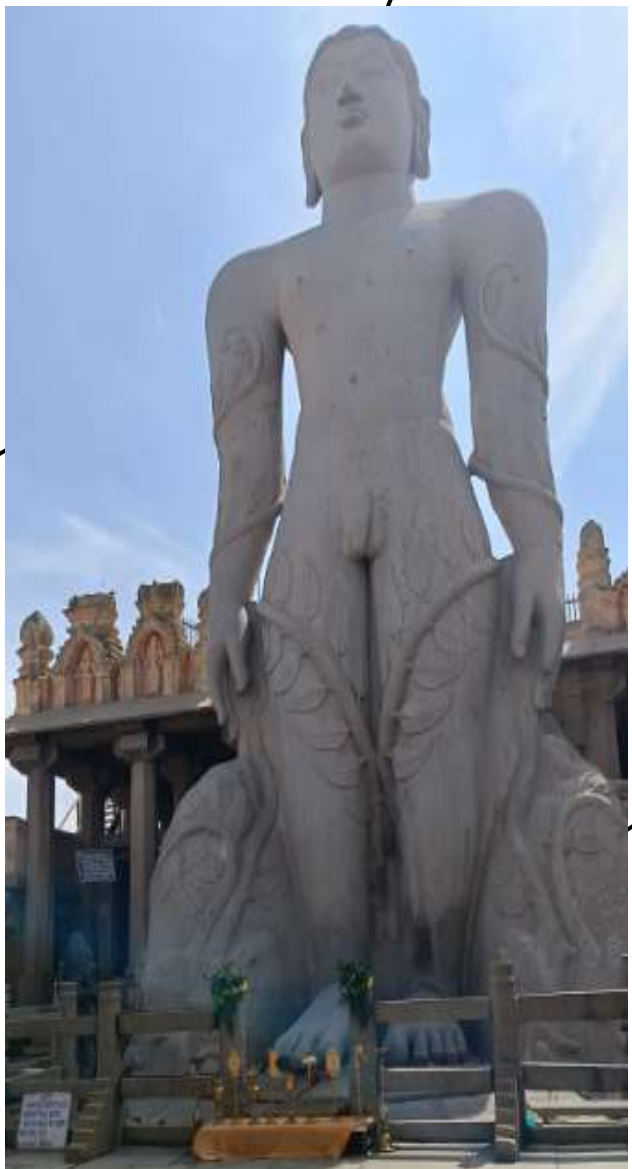
KEERTHANA C 5th SEM Student of AI&DS Department appreciated during Sambhramotsava for the participation in Hackathon in inter-college and got prize,



Social Connect and Responsibility (SCR) , Activities done by out 3rd SEM Artificial Intelligence and Data Science Branch Students in Academic year 2024-2025.

Students visited Historical places to know about history of the place, people culture, Dressing, Place Famous For.

Student Visited Agriculture Field to Know about Organic Farming.



Students of 3rd SEM students of AI&DS Department done SCR module-1 plantation and submitted to AI&DS Department



Technical Talk on “Smart Food Identification using Artificial Intelligence” by Pantech Solution Private Ltd. on 3/12/2024 conducted by AI&DS Department for II year and III year Sambhram Institute of Technology



Hackathons



A Hackathons is an event where programmers, designers, and other tech enthusiasts collaborate intensively to develop innovation solutions to real world problems

Hackathons was conducted on 18/September 2024 in our college
 Students participated and our student participated in different college



Sl.No	Hackathon	Participated Name
1	Sambhram Institute of Technology on 18 th September 2024	Bindu,Dhanush,Ganya R,Mounika M,Adithya Tirakapadi
2	Sambhram Institute of Technology on 18 th September 2024	Dhanush kumar M,Adithi Hegde,hafsa kauser L, Harshith gowda R P,Kavana S,srinitha
3	Bangalore Institute of Technology on 6 th and 7 th july 2024	Keerthana C(won 1 st prize)
4	Bangalore Institute of Technology on 6 th and 7 th july 2024	Dhanush kumar M(won 1 st prize)
5	Sambhram Institute of Technology on 18 th September 2024	Meghana p,Bharata, MD Arslan,kavaya B, keerthana A.L and Palla Jeevana sreeja

✦ Food walk conducted by the department under social connect and responsibilities activity done by 3rd SEM students by AI&DS organized on 6th December 2024



INDUSTRIAL VISIT at AIR FORCE Technical College JALAHALLI-1

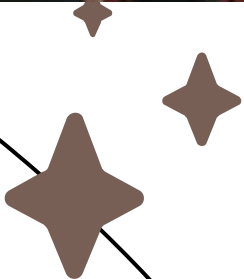
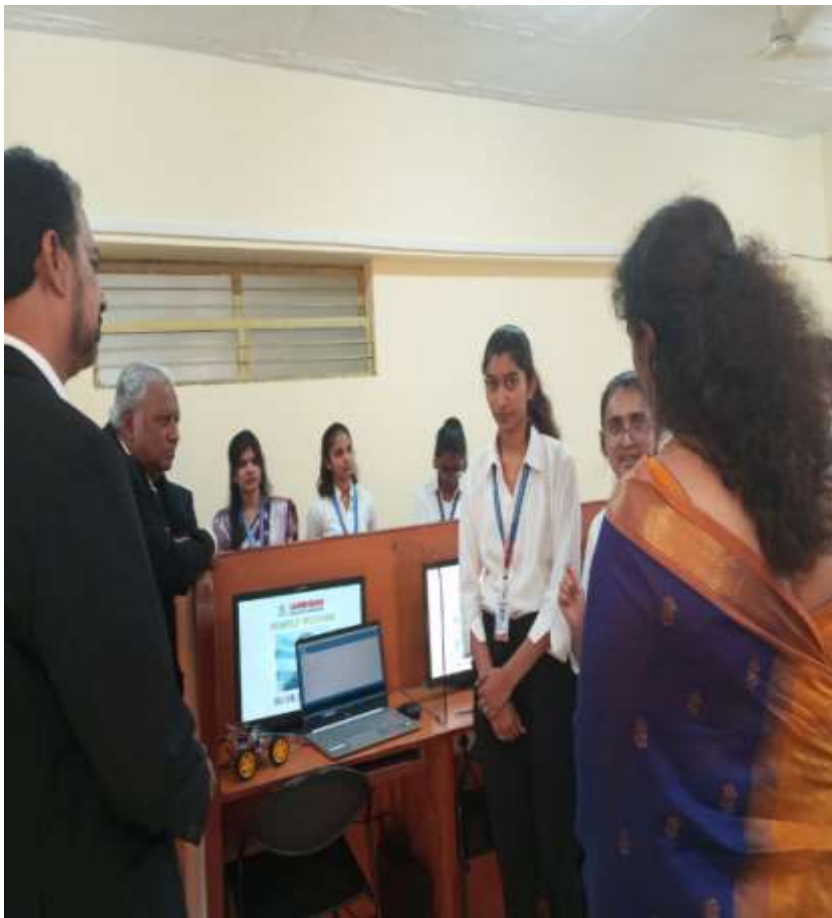
The industrial visit to AIR FORCE Technical College located at Jalahalli-1, Bangalore, was organized on 19/07/2024 by the Artificial Intelligence & Data science Department for the students of 6th Semester for a team size of 52 students.



FACULTIES AND STUDENT ORGANIZED AYUDHA POOJA IN DEPARTMENT OF AI&DS Lab.



STUDENTS PRESENTED THEIR INNOVATIVE IDEA AND PROJECTS DURING Lab INAGURATION FUNCTION



Dr B. Vani and Dr. Mamatha M got appreciation award for the completion of PhD from Management of Sambhram Institute of Technology during Teachers day Celebration.



TOPPER STUDENTS

**Topper student details of I and II year of AI&DS
Department Academic year 2024-25**

Sl.No	YEAR	USN	NAME	MARKS SCORED
1	II	1ST22AD029	MEGHANA P	784
2	II	1ST22AD036	PALLA JEEVANA SREEJA	765
3	II	1ST22AD059	YASHASWINI J	758
4	II	1ST22AD022	KEERTHANA C	745
5	II	1ST22AD019	KAVANA S	745
6	I	1ST23AD034	RADHIKA L	675
7	I	1ST23AD050	YASHASWINI P N	669
8	I	1ST23AD035	RAKSHITA V THAKUR	663
9	I	1ST23AD041	SUPRIYA B	647
10	I	1ST23AD042	SUSHMA M	639
11	III	1ST22AD022	KEERTHANA C	758
12	III	1ST22AD029	MEGHANA P	748
13	III	1ST22AD059	YASHASWINI J	745
14	III	1ST22AD050	SHRUTHI G	745

STUDENTS and FACULTIES OF AI&DS
Department SaIT Participated in Kannada
Rajyothsava function organized in Sambhram
Institute of Technology.



STUDENT PARTICIPATED IN CULTURAL EVENTS

Students from both I year and II year Participated in Cultural activities in campus during Sambhramotsava



Flash Mob Dance Team both II year and III year students of AI&DS Department SaIT.



Welcome song Bharath Natyam Dance program for Sambhramotsava event.



Fashion Show program by students during Sambhramotsava



M.S. Palya, Jalahalli East, Bengaluru - 560022

**DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND MACHINE LEARNING
FEB – JULY 2024**

Intelligence, Machine Learning, and related encouragements

HOD MESSAGE



Dr. Ajeet Chikkamannur

HOD AI&ML

The world is in the focus of a significant transformation due to Industrial evolution by intelligent, autonomous systems. This is due to significant changes in requirements of real world scenario. We are striving hard to produce qualified professionals in the promising fields of Artificial Intelligence and Machine Learning (AIML). Our institute has begun a four-year B.E. program in AIML with 60 seats in 2022. This program focuses on subjects of the AIML.. The Visvesvaraya Technological University Belagavi frames the syllabus for the Department to follow. The additional requirement of skill, information and knowledge is augmented by the Institution. Students will participate in a variety of multidisciplinary, holistic development tasks that will enhance their knowledge, skills, and professional ethics. Engineers with knowledge and expertise in the field of Artificial Intelligence & Machine Learning can build their career in the competitive world.

The Institute, Department's faculty and non-teaching staff, infrastructure, facilities are dedicated to ensuring that our students are prepared for success in their career by giving them the knowledge and skills in Artificial

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

The department of Artificial intelligence and Machine learning at Sambhram Institute of Technology was established in the year 2022. It offers program at UG level. The institution and the department is affiliated to Visvesvaraya Technological University. The Artificial Intelligence and Machine Learning (AI & ML) Department is at the forefront of technological innovation, equipping students with the expertise to develop cutting-edge intelligent systems. This department serves as a hub of creativity and research, where students explore advanced algorithms, data-driven decision-making, and real-world problem-solving. With a curriculum blending theoretical foundations and practical applications, it empowers future engineers to push the boundaries of what machines can achieve. It encompass a vast spectrum of technical skills such as deep learning, neural networks, natural language processing, computer vision, and robotics. However, mastering AI & ML is not just about coding and algorithms—it demands critical thinking, creativity, problem-solving, and ethical reasoning. The ability to work in teams, communicate complex ideas effectively, and adapt to ever-evolving technologies is just as crucial. AI & ML have become the driving forces behind transformational change in society. From healthcare innovations to self-driving cars redefining transportation, the influence of AI is profound. These technologies are not just reshaping industries; they are improving lives, making the world smarter, safer, and more efficient. College students are the torchbearers of innovation, actively contributing to society

through AI-driven projects, research initiatives, and entrepreneurial ventures. The college provides an ecosystem that fuels curiosity and fosters innovation. With state-of-the-art laboratories, expert mentorship, and industry tie-ups, students get unparalleled exposure to the latest AI trends. Through hackathons, internships, and collaborations with industries, they are not only gaining hands-on experience but also making meaningful contributions to technological advancements.

Artificial Intelligence and Machine Learning are not just subjects—they are constantly evolving revolutions. As AI progresses from automation to human-like reasoning, fields like quantum computing, explainable AI, and ethical AI governance are gaining momentum. In this dynamic landscape, students and educators must stay ahead by embracing continuous learning and fearless innovation.

Through dedication, collaboration, and visionary thinking, the AI & ML Department is sculpting the engineers of tomorrow, preparing them to lead, innovate, and create a better, more intelligent future.



VISION

To impart high quality professional training with sound footing on basis of principles of information Technology and to promote cutting edge research in fast changing field. to make our students technologically superior and ethically strong who in turn contribute to the advancement of society and mankind.

MISSION

Evolve as a "CENTRE OF EXCELLENCE" to offer Technical Education and Research opportunities of very high standard to student develop the total personality of the individual and to facilitate transformation.

FACULTY ATTENDED EVENT OFF-ON CAMPUS

1.Prof. Saritha Kishore, Dept. of Artificial intelligence and machine learning, SAIT, has participated in the three day Faculty Development Programme on “MongoDB – A Project based Hands-on Training” organized by Dept. of CSE(artificial intelligence and machine learning) and Dept.of CSE(Data science), Sai Vidya Institute of technology, Bengaluru, held from 16th – 18th April, 2024 in associated with VTU Belagavi.



2.Prof.Saritha Kishore Dept. of Artificial intelligence and machine learning, SAIT, has successfully competed the 5-days online workshop Python in ML: A Hands-on Workshop on NumPy from 24 June 2024 – 28 June 2024.



SKILL DEVELOPMENT FOR STUDENTS

A Skill Development Program is a structured training initiative designed to enhance students' technical, professional, and soft skills. These programs aim to bridge the gap between academic learning and industry requirements, ensuring that participants acquire practical knowledge and hands-on experience in a specific domain. The Artificial Intelligence and Machine Learning Department, in collaboration with Vtricks Technologies, successfully conducted a Skill Development Program on Robotic Process Automation (RPA). The program provided an in-depth understanding of RPA tools, automation workflows, and real-world applications in various industries.



A key focus of the training was UiPath Automation, a leading RPA platform used to design, develop, and deploy automation solutions efficiently. Participants learned how to build, test, and implement bots using UiPath, gaining hands-on experience in

automating repetitive tasks and optimizing business processes.

Key Highlights

✔ **Hands-on Training:** Students gained practical experience in designing and implementing automation solutions using UiPath.

✔ **Industry-Relevant Skills:** The program covered key concepts such as bot development, process automation, and AI integration.

✔ **Expert Guidance:** Sessions were conducted by industry professionals from Vtricks Technologies, ensuring exposure to real-world use cases.

✔ **Project-Based Learning:** Participants worked on mini-projects, applying RPA concepts with UiPath Automation to solve automation challenges.

The event was a great success, empowering students with cutting-edge automation skills that align with industry trends, further preparing them for future career opportunities in AI, ML, and automation.

WORKSHOP AND BOOTCAMP ATTENDED BY STUDENTS

1. Shravani M L, 4th Sem has participated in Robotics Process Automation workshop from 19th July 2024 to 27th July 2024 held at Sambhram Institute of Technology, Bengaluru.



2. Vishwas S N ,4th Sem has participated in Robotics Process Automation workshop from 19th July 2024 to 27th July 2024 held at Sambhram Institute of Technology, Bengaluru.



3. D Yogamrutha ,4th Sem has successfully completed 4 hours of Data Analytics with POWER BI workshop with END-TO-END project organized by TechTip24.



4.D Yogamrutha ,4th Sem has successfully completed Data Science and Analytics Workshop from jobaaJ learnings.



5.D Yogamrutha ,4th Sem has successfully completed 2-days Python for Data Analytics bootcamp conducted by skill camper held on 10 July 2024.



6. D Yogamrutha has participate in the Workshops on TechX : Figma held on 8th June 2024 conducted by Comed Kares.



INDUSTRIAL VISIT

An Industrial Visit is an educational tour designed to provide students with real-world exposure to industry operations, technologies, and innovations. It allows students to bridge the gap between theoretical knowledge and practical applications by interacting with professionals and observing industry processes firsthand.

The Department organized an industrial visit to the ISRO Exhibition near HAL, providing students with an immersive learning experience in space technology and satellite applications.

The exhibition showcased India's space achievements, satellite missions, and advancements in aerospace technology, giving students a deep understanding of ISRO's contributions to space exploration and scientific research.

Key Highlights of the Visit

- ☑ Live Demonstrations: Students explored models of rockets, satellites, and space exploration systems.
- ☑ Interaction with Experts: Scientists and engineers provided insights into satellite technology, space research, and upcoming ISRO missions.
- ☑ AI & Space Research: Discussions on how AI and automation are playing a role in modern space exploration.
- ☑ Career Guidance: Students gained knowledge about career opportunities in aerospace, satellite technology, and AI applications in space research.

The visit was a great success, enriching students' understanding of space technology and its intersection with artificial intelligence and machine learning.

TECHNICAL SEMINAR

A Technical Seminar is a student-led initiative aimed at enhancing knowledge, improving presentation skills, and fostering confidence. These seminars provide students with an opportunity to explore advanced topics, engage in discussions, and share insights on subject-related-concepts.

The Artificial Intelligence and Machine Learning Department conducted a series of Technical Seminars where students presented topics related to their subjects. These sessions covered Algorithm Design and Analysis (ADA), Artificial Intelligence (AI), Database Management Systems (DBMS), and other core topics, providing a platform for students to enhance their understanding and improve their technical communication skills.

Key Highlights

- ☑ Subject-Oriented Topics: Seminars focused on ADA, AI, DBMS, and other relevant subjects.
- ☑ Interactive Sessions: Encouraged discussions, clarifying doubts, and sharing insights.
- ☑ Skill Development: Strengthened research, analytical, and communication skills.
- ☑ Peer-to-Peer Learning: Enabled collaborative learning and exchange of ideas.

These seminars played a crucial role in empowering students with technical expertise and confidence, preparing them for academic and professional challenges ahead.

STUDENTS PARTICIPATED IN HACKATHON

1.Kashaf S Aznain , 4th Sem has participated in “CyberQuest” 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management



STUDENTS PARTICIPATION IN SPORTS

1.Shradha ,4th Sem has competed in Inter Department Tournament in Throw Ball Girls conducted on 22 June 2024 and successfully qualified for the award of 2nd Runner up.



2.Adarsh D A , 4th Sem has participated in kabaddi competition held at Sambhram Institute of Technology and secured 1st prize at sambhramotsava 2024

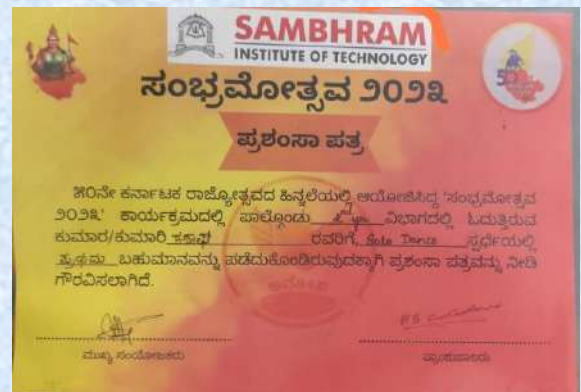


3.G R Pratham Gowda , 4th Sem has participated in kabaddi competition held at Sambhram Institute of Technology and secured 1st prize at sambhramotsava 2024.



STUDENTS PARTICITATED IN CO-CURRICULAR ACTIVITIES

1.Kashaf , 4th Sem has secured 1st prize in Solo Dance held on behalf of 50th Kannada Rajyotsava at Sambhram Institute of Technology.



STUDENTS ACADEMIC ACHIEVEMENTS (rank holders for 3rd sem)

1.Harshitha Rani P S - 91.2%



2.Shreyas M L- 90.7%



3.Milana H T- 90.6%



DEPARTMENT OF
CIVIL ENGINEERING
AUGUST 2024 TO
JAN 2025

SAMBHRAM INSTITUTE OF TECHNOLOGY



DEPARTMENT OF CIVIL ENGINEERING

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 environmental concerns, focusing on sustainability and reducing the environmental impact of infrastructure projects. The department was setup in the year 2009-10 with under graduate and 2014-15 with post graduate programs. The department offers a full time B.E degree course in Civil Engineering. The department organizes seminars, workshops & industrial visits for the benefit of students and faculty which would exposure of the recent trend in civil engineering. The department has been imparting quality education to make technological advancement and industrial requirements. The infrastructure available in the department facilitates students to develop their skill and knowledge within the framework of curriculum prescribed by the Visvesvaraya Technology University. This has been made possible due to qualified and dedicated faculty. The department has Civil Engineering Consultancy cell which actively involves in consultancy works from industry and government.

MESSAGE FROM HOD

The need for professionals with a background of Civil engineering is always on the rise. Those with problem solving skills are the ones in demand. Professionals with these skills are sure to land up with successful career in the years to come. The department of Civil Engineering of the SaIT is providing the opportunity for the students to develop a firm foundation in Science and Technology. I believe that the opportunities for the students in the campus should lead to an appreciation of the holistic development of an individual. And finally, the objective is to encourage our students for having passion towards the course and desire to continue to learn.



-Dr.Mallikarjun HOD Civil



ABOUT THE DEPARTMENT

The department was setup in the year 2009-10 with under graduate and 2014-15 with post graduate programs. The department offers a full time B.E degree course in Civil Engineering. The department organizes seminars, workshops & industrial visits for the benefit of students and faculty which would exposure of the recent trend in civil engineering. The department has been imparting quality education to make technological advancement and industrial requirements. The infrastructure available in the department facilitates students to develop their skill and knowledge within the framework of curriculum prescribed by the Visvesvaraya Technology University. This has been made possible due to qualified and dedicated faculty. The department has Civil Engineering Consultancy cell which actively involves in consultancy works from industry and government.

VISION AND MISSION STATEMENT

VISION

To become a school of excellence that brings out civil engineers with high technical competencies and promotes high-end research to meet the current and future challenges in civil engineering.

MISSION

The mission of the department of civil engineering is to develop highly competent professionals, preparing them for entry-level positions in civil engineering, further study in graduate school, life-long learning, and societal leadership. The department is dedicated to providing a dynamic learning environment that emphasizes open-ended design, problem-solving skills, team work, communication, and leadership skills.



MESSAGE FROM EDITORIAL BOARD

As the Editor of a Civil Department newsletter, Please let me start by conveying my regard to the entire civil engineering faculty members who supported me for making this happen. This News-letter mirrors the vision and mission of Civil Engineering Department. It also highlights the events activities and achievements. I do hope that this newsletter will encourage many more students to come forward and express their talent and creativity. In order To keep the readers widely interested and updated we will off course continue the tradition of communicating the significant events and activities of Civil Department. I would like to thank (HOD, Civil) for the continuous Motivation, inputs and time to time Feedback for the final draft.

EDITORIAL BOARD



EDITORIAL BOARD:

FACULTY: Mrs.Pratibha Kengannavar (ASSISTANT PROFESSOR)



STUDENT: DDEVARJ REDDY NEETISHKUMAR

DEPARTMENT FACULTIES DETAILS / PHD UPDATES

Prof. Vasantha D (Completed
course work)



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



Dr. Akshata. Mulgund



Prof. Pratibha Kengannanavar



•Prof. Ashwini Ingale




Prof. Priyanka desai




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

1. Engineer's Day

The engineer's day was celebrated by civil engineering department on 18th september 2024, the chief guest was Er. M Nagaraj. Prof.Monica M S from our department co ordinate the event, all other faculties, HOD's and students participated in the event.



SAMBHRAM
INSTITUTE OF TECHNOLOGY



DEPARTMENT OF CIVIL ENGINEERING

We Cordially invite you to the Occasion of

ENGINEER'S DAY CELEBRATION
on 18th September 2024

CHIEF GUEST
ER. M NAGARAJ
Chairman, IEI KSC

PRESIDED BY
DR. H G CHANDRAKANTH
Principal, SaIT

INVITED BY

PROF. VASANTHA D
Asst. Prof. & HOD I/C

DR. AKSHATHA A MULGUND
Asst. Professor

PROF. MONICA M S
Asst. Professor

PROF. SHINI SHANMUGHAN
Asst. Professor

PATRONS

DR. K V PRASAD **DR. M N SREERANGARAJU** **DR. H G CHANDRAKANTH**
Dean - Research, SaIT Dean - Academics, SaIT Principal - SaIT

SMT. DHANYA NAGARAJ **SRI. B N NAGARAJ (RTD. IPS)** **DR. V NAGARAJ**
Director, SGI CEO, SGI Chairman, SGI

Venue: Conference Hall (Behind Library) - 10.00 AM to 11 AM

Supported by SaIT Student Chapters IETE,ISTE, IEEE & EWB



2. Ayudha Pooja 10.10.2024, BMT Lab



3. World Mental Health Day 15.10.2024, auditorium



M.S.Palya, Hesaraghatta Road, via Jalnahalli East, Bengaluru-560097
In association with
AN ADITYA BIRLA GROUP initiative
&
SAIT- STUDENTS MENTAL HEALTH CLUB
Cordially invites you for the celebration of

WORLD MENTAL HEALTH DAY
Awareness Theme- 2024
'Mental Health at Work'
On
15th October 2024

Guest
Dr. MANJU ASWATH
Professor & Head, Department of Psychiatry
KIMS, Bangalore

Presided by
Dr. H.G. Chandrakanth
Principal-SAIT

Convener
Dr. Ravishankar.C.V
SMHC-SAIT

Invited By
Prof. Mallamma, Prof. Monica.M.S, & Prof. Anupama Hongal
Faculty Coordinators: SAIT-SMHC

Patrons

Dr. K.V.Prasad Dean-Research, SaIT	Dr. M. N. Sree Rangaraju Dean-Academic, SaIT	Dr. H.G.Chandrakanth Principal, SaIT
Smt. Dhanya Nagaraj Director,SGI	Sri. B.N.Nagaraj IPS(Retd.), CEO, SGI	Dr. V.Nagaraj Chairman, SGI

Venue: Auditorium **Time: 11:15 A.M. onwards**

4. National Pollution Control Day 02.12.2024, ECE Seminar Hall

National pollution control day was been organised jointly by Civil and Mechanical engineering Department through Institution Innovation Council, Sambhram Institute of Technology, Bangalore, on 2nd December 2024 at ECE Seminar hall. The Chief Guest was Dr. T V Ramachandra from Center for Ecological Sciences, Indian Institute of Science, Bangalore. Dr T V Ramachandra showed light on "Understanding Bangalore Environment in the context of climate change". Mr Vasantha D, Head of the department of Mechanical Engineering department Dr B B Manjunath, faculties of Civil and Mechanical engineering department were present, the students of second year and third year attended the session and gained insights on what is pollution, how to control the pollution, wetlands in and

INSTITUTION'S INNOVATION COUNCIL
SAMBHRAM INSTITUTE OF TECHNOLOGY
M.S.Polya, Hesaraghatta Road, via Jalahalli East, Bengaluru-560097

INSTITUTION INNOVATION COUNCIL - SaIT,
DEPARTMENT OF CIVIL & MECHANICAL ENGINEERING

in association with
EWB, SaIT

Cordially invites you for the celebration of
"NATIONAL POLLUTION CONTROL DAY"
CLEAN AIR, GREEN EARTH & STEP TOWARDS SUSTAINABLE LIVING

Guest
Dr. T V RAMACHANDRA
Centre for Ecological Sciences
Indian Institute of Science, Bangalore

An Expert Talk on
Understanding Bangalore Environment in the context of climate change

Smt. Dhanya Nagara
Director

Chief Patrons
Sri. B.N.Nagara
SGI IPB(Retd), CEO

Dr.V.Nagara
SGI Chairman, SGI

Patrons
Dr. M. N. Sree Ranganath
Dean (Academics)

Dr. H.G.Chandrakanth
Principal, SaIT

Invited By
Dr. Padmini B V Dept. of Mech, SaIT
Prof. Monica M S Dept. of Civil, SaIT
Dr. B B Manjunath HOD-Mech, SaIT
Prof. Vasantha D HOD-Civil, SaIT

Venue: ECE Seminar Hall
Date: 02.12.2024
Time: 11:00 A.M. to 12:00 P.M.



FACULTIES PARTICIPATION IN THE EVENTS (FDP/WORK SHOP/CONFERENCE e tc..)

1. Prof. Vasantha D attended 3 days online FDP on "Recent Advancement in Civil Engineering- RACE 2024" at Zeal Polytechnic, Pune from 28.08.2024 to 30.08.2024.
2. Prof. Shini Shanmughan attended 2 weeks international FDP on "Vertical Urbanization with Tall Structures and Construction Challenges" at SRM University from 21.08.2024 to 04.09.2024.
3. Prof. Vasantha D attended one week national level FDP on "Coastal Engineering Comprehensive Insights for Onsite Solutions" at Dr. D Y Patil Institute of Technology, Pune from 02.09.2024 to 06.09.2024.
4. Dr. Akshata. Mulgund attended one week national level FDP on "Coastal Engineering Comprehensive Insights for Onsite Solutions" at Dr. D Y Patil Institute of Technology, Pune from 02.09.2024 to 06.09.2024.
5. Prof. Shini Shanmughan attended one week national level FDP on "Coastal Engineering Comprehensive Insights for Onsite Solutions" at Dr. D Y Patil Institute of Technology, Pune from 02.09.2024 to 06.09.2024.
6. Prof. Monica M S has coordinated National Pollution Control Day organised jointly by Civil and Mechanical engineering Department through Institution Innovation Council, Sambhram Institute of Technology, Bangalore, on 2nd December 2024 at ECE Seminar hall.
7. Prof. Monica M S has participated in the "Posh Awareness Program" organized by Women's cell Sambhram Institute of Technology, Bangalore on 28th December 2024.



8. Prof. Pratibha Kengannanavar has participated in the "Posh Awareness Program" organized by Women's cell Sambhram Institute of Technology, Bangalore on 28th December 2024.



9. Prof. Vasantha D participated in the seminar on "Digital Innovations in Civil Engineering: Advancing Water Infrastructure and Geospatial Intelligence" organized by the Department of Civil Engineering, Sri Venkateswara College of Engineering, Bangalore on 12.02.2025.

PUBLICATIONS BY THE FACULTIES

1. Prof. Vasantha D, Dr Vinod B R, Prof Ashwini published a paper titled "Advances in Soil-Cement Technology: Bridging the Gap between Geotechnics and Structural Engineering" Journal of Propulsion Technology, ISSN: 1001-4055, Vol 45, No.2, 2024.

TECHNICAL TALK CONDUCTED BY THE DEPARTMENT

1. Department of Mechanical and Civil Engineering in association with IIC-SAIT supported by student chapters of FOSAMECH and EWB conducted a technical talk on "Career Opportunities in Non-Destructive Techniques (NDT)" on 12th November 2024, in mechanical seminar hall. The chief guest was Mr. Shashidhar P Pallakki, Director and CEO of Pallakki NDT Private Ltd. He spoke about the non-destructive testing techniques in civil and mechanical engineering field around the world. He told the students to learn NDT techniques and clear NDT related exams. He also told the students regarding NDT related job opportunities. Dr. Padmini B V and Prof. Pratibha Kengannanavar were co-ordinated the event, all other faculties and students participated in the event.



 **SAMBHRAM**
INSTITUTE OF TECHNOLOGY

Department of Mechanical and Civil Engineering
in association with
 **IIC - SaIT**
Supported by
Students Chapters of FOSAMECH & EWB

cordially invites you to a talk
On
**"CAREER OPPORTUNITIES IN
NON-DESTRUCTIVE TECHNIQUES
(NDT)"**
On
 **12th November 2024**

Resource Person
Mr. Shashidhar P Pallakki
Director & CEO
Pallakki NDT Private Ltd.



Chief Patrons

Smt. Dhanya Nagaraj Director, SGI	Sri. B. N. Nagaraj IPS(Retd.), CEO, SGI	Dr. V. Nagaraj Chairman, SGI
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Patrons

Dr. K. V. Prasad Dean-Research, SaIT	Dr. M. N. SreeRangaraju Dean -Academics, SaIT	Dr. H. G. Chandrakanth Principal, SaIT
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Invited By

Dr. Padmini B. V Dept. of Mech, SaIT,	Prof. Pratibha K Dept. of CV, SaIT	Dr. Manjunath B B HoD - Mech, SaIT	Prof. Vasantha D HoD - CV, SaIT
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Venue: Mech Seminar Hall
Timings: 11:15 AM - 12:15 PM







2. Department of Mechanical and Civil Engineering in association with IIC-SaIT and IQAC-SaIT conducted a technical talk on the occasion of "National Energy Conservation Day" by Dr. Manjunath B B, Professor and Head, Department of Mechanical Engineering, Sambhram Institute of Technology, Bangalore on 31st December 2024, in mechanical seminar hall. Dr. Padmini B V and Prof. Monica M S were co-ordinated the event, all other faculties and students participated in the event.



SAMBHRAM INSTITUTE OF TECHNOLOGY
Aashahvanant Temple Road, M S Palya, Bengaluru

Department of Mechanical and Civil Engineering
 In association with
IIC - SaIT and IQAC - SaIT

Cordially invites you to a
Technical Talk
 On the occasion of
"National Energy Conservation Day"
 By
Dr. Manjunath B B
 Professor and Head, Department of Mechanical Engineering
 Sambhram Institute of Technology, Bengaluru

DATE: 31.12.2024
TIME: 11.15 am - 12.15 pm
Venue: Mechanical Seminar Hall

Chief Patrons

Smt. Dhanya Nagaraj Director, SGI	Sri. B. N. Nagaraj IPS (Retd), CEO, SGI	Dr. V. Nagaraj Chairman SGI
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Patrons

Dr. K V Prasad Dean - Research, SaIT	Dr. M N SreeRangaraju Dean - Academics, SaIT	Dr. H G Chandrakanth Principal, SaIT
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Invited By

Dr. Padmini B V Asoc. Prof. DME	Mrs. Monica M. S Asst. Prof. DCE	Dr. Manjunath B B HoD, Mech - SaIT	Mr. Vasantha. D HoD, Civil - SaIT
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ACTIVITIES FROM CELLS/FORUM CELL

1. Women cell SaIT has conducted "Posh Awareness Program" on 27th December 2024 at new conference hall. The chief guest was Mrs. Anitha S Practitioner Coach NLP, Executive Work. All faculties attended the event.





SAMBHRAM
INSTITUTE OF TECHNOLOGY

Women's Cell - SaIT

*Cordially Invites you
To*

"POSH AWARENESS PROGRAM"

On

27th DEC 2024

by



Anitha S
Practitioner Coach
NLP, Executive Work

Chief Patrons

Smt. Dhanya Nagaraj
Director, SGI

Mr. B.N. Nagaraj
IPS(Retd), CEO, SGI

Dr. V. Nagaraj
Chairman, SGI

Patrons

Dr. K.V. Prasad
Dean - Research, SaIT

Dr. M. N. Sree Rangaraju
Dean - Academics, SaIT

Dr. H. G. Chandrakanth
Principal, SaIT

Organizers

Dr. Padmini B. V.
Women's Cell Coordinator, SaIT

Dr. Vani B
Women's Cell Coordinator, SaIT

Dr. Latha P. H.
Women's Cell Chairman, SaIT

Venue: New Conference Hall.

Timings: 11:00 AM - 12:30PM



GPS Map Camera



Bengaluru, Karnataka, India
3gqw+mj8, Dkn Rd, Adityanagar, Vidyanarayapura,
Bengaluru, Karnataka 560097, India
Lat 13.089172° Long 77.546355°
28/12/24 10:35 AM GMT +05:30



GPS Map Camera



Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar,
Vidyanarayapura, Bengaluru, Karnataka 560097, India
Lat 13.0894° Long 77.546263°
28/12/24 12:00 PM GMT +05:30



2. Women cell SaIT in association with IIC Cell SaIT has conducted "International day of girls and women in science" on 14th February 2025 at new seminar hall. The chief guest was Dr. V. Susheela Devi Scientist, Indian Institute of Science, Bangalore. All faculties attended the event.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

Women's Cell - SaIT In
Association with IIC Cell- SaIT

Cordially Invites you
To

**"International day of girls and women in
science"**

On
14th FEBRUARY 2025

Guest of Honour



Dr. V. Susheela Devi
Scientist,
Indian Institute of Science, Bangalore

Chief Patrons

Smt. Dhanya Nagaraj Director, SGI	Mr. B. N. Nagaraj IPS(Retd), CEO, SGI	Dr. V. Nagaraj Chairman, SGI
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Patrons

Dr. M. N. Sree Rangaraju Dean - Academics, SaIT	Dr. H. G. Chandrakanth Principal, SaIT
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Invited by

Dr. Padmini B. V. Women's Cell Coordinator, SaIT	Dr. S. Vani Women's Cell Coordinator, SaIT	Dr. Latha P. H. Women's Cell Chairman, SaIT
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Venue: New Seminar hall **Timings: 3.00 PM - 4.00 PM**





SAMBHRAM
INSTITUTE OF TECHNOLOGY

M. S. Palya , Jalahalli East, Bengaluru - 560097

**DEPARTMENT OF
CSE (CYBER SECURITY)**

HoD's Message



Dr. Sanjeetha. R

HOD - Department of CSE (Cyber Security)

Learning cybersecurity is essential in today's digital age for safeguarding sensitive information, preventing cyber threats, and ensuring the security of online interactions. Given the escalating frequency and complexity of cyberattacks, comprehending cybersecurity empowers both individuals and organizations to protect their digital assets, preserve privacy, and foster a secure online environment.

The Department of CSE (Cyber Security) in Sambhram Institute of Technology emphasizes the importance of bridging the gap between theory and real-world applications. This emphasis equips students to become adept problem solvers and proficient security professionals. With a focus on hands-on experience, collaborative projects, and industry partnerships, we prepare our students to confront the intricate challenges of the contemporary digital landscape. Our goal is not solely to excel in cybersecurity but also to make a positive contribution to our interconnected world.

ABOUT THE DEPARTMENT

The Department of CSE(Cyber Security) 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.

AUGUST 2024 - JAN 2025
FACULTIES EVENT'S ORGANIZED
/PIONEERED/PARTICIPATION
HIGHLIGHTS

Dr. Sanjeetha R:

Set up a new 'Advanced Cyber Security Lab' with 60 high-end computer systems for the Department of CSE (Cyber Security)."

Organised a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Organised a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Conducted Hackathon “Hack the Trace: Cyber Forensics Challenge” for 5th sem students on 11th December 2024.

Organized 5 Days SDP program on Ethical Hacking & Cyber Security Level - 3 for 5th Sem Students from 6th December to 10th December 2024.

Conducted Hackathon “Cipher Clash: Cryptographic Combat” for 3rd sem students on 5th December 2024.

Organized 5 Days SDP program on Ethical Hacking & Cyber Security Level - 1 for 3rd semester students from 28th November to 4th December 2024.

Attended a talk on “Intellectual Property Rights & Patent filing” on 18th December 2024 at SaIT

Organized “Cyber Surakshit Bharat,” a Campaign on Cyber Security Awareness on 24th October 2024 at Sambhram Institute of Technology (SaIT).

Organized a seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability & Insight” for CSE (Cyber Security) students on 27th September 2024 at Sambhram Institute of Technology (SaIT).

Delivered a session on "Cyber Security Awareness" during the Student Induction Program on 27th September 2024 at Sambhram Institute of Technology.

Organized the event “Internal Smart India Hackathon” as SPOC of Sambhram Institute of Technology on 18th September 2024.

Attended a 5-day FDP on “Advanced Web Application Development using Docker” from 9th-13th September 2024, organized by the Departments of MCA, ISE, and CSE at Ramaiah Institute of Technology (MSRIT), Bangalore. Received a certificate.

Organized a Bootcamp Program for Smart India Hackathon 2024 on 3rd September 2024.

Attended a 5-day FDP program on “A Deep Dive into Generative AI: The Role of GANs and LLMs” in collaboration with IBM from 26th-30th August 2024, organized by the Department of AI-DS, AI-ML, and ISE at Ramaiah Institute of Technology, Bangalore.

Prof. B. Ganga

Co-ordinated a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Attended One Week Master Trainer Training Programme / Faculty Development Programme on Cyber Security & Ethical Hacking, (January 6th -11th, 2025) at SVCE, Bengaluru.

Co-ordinated a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Conducted Hackathon “Hack the Trace: Cyber Forensics Challenge” on 11th December 2024.

Conducted 5 Days SDP program on Ethical Hacking & Cyber Security Level - 3 from 6th December to 10th December 2024.

Attended a talk on “Intellectual Property Rights & Patent filing” on 18th December 2024 at SaIT

Attended a 5-day online FDP on Advancements in Computing Technologies and the Internet of Things from 21st to 25th October 2024.

Co-ordinated “Cyber Surakshit Bharat,” a Campaign on Cyber Security Awareness on 24th October 2024 at Sambhram Institute of Technology (SaIT).

Co-ordinated a seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability & Insight” for CSE (Cyber Security) students on 27th September 2024 at Sambhram Institute of Technology (SaIT).

Prof. B. Ganga is pursuing a Ph.D. in Computer Science and Engineering (CSE) at Bangalore University, with her research titled 'Crowd Behaviour Analysis Using Deep Learning.' She is affiliated with the University Visvesvaraya College of Engineering (UVCE), which follows the IIT model. She registered for her Ph.D. on October 22, 2020. As of January 2025, she has published three conference papers and four journal papers, with one more journal paper accepted, bringing her total to eight publications

Prof. Snehal Rathi

Co-ordinated Organised workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Coordinated “POSH Awareness Program” organized by women cell, SaIT on 27th December 2024.

Attended a talk on “Intellectual Property Rights & Patent filing” on 18th December 2024 at SaIT.

Conducted Hackathon “Cipher Clash: Cryptographic Combat” for 3rd sem students on 5th December 2024.

Organized 5 Days SDP program on Ethical Hacking & Cyber Security Level - 1 for 3rd semester students from 28th November to 4th December 2024.

Co-ordinated a seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability & Insight” for CSE (Cyber Security) students on 27th September 2024 at Sambhram Institute of Technology (SaIT).

Attended a 5-day FDP on Cyber Security organized by Nitte Meenakshi Institute of Technology in association with ICT Academy from 23rd-27th September 2024 at NMIT, Bengaluru. Received a certificate.

Co-ordinated the event “Internal Smart India Hackathon” as SPOC of Sambhram Institute of Technology on 18th September 2024.

Attended a 5-day online FDP on Gen-AI and Prompt Engineering Using Microsoft Co-Pilot from 16th-20th September 2024. Received a certificate.

Co-ordinated the event “Internal Smart India Hackathon” on 18th September 2024 at Sambhram Institute of Technology (SaIT),

Co-ordinated the Bootcamp Program for SIH 2024 on 3rd September 2024.

Co-ordinated a 5-day SDP on "Program on Soft Skills" in association with SPIC conducted by Genesis at Sambhram Institute of Technology (SaIT) from 2nd-6th September 2024.

Prof. Bhagyashree Hosmani

Organized a seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability & Insight” for CSE (Cyber Security) students on 27th September 2024.

Attended a 5-day FDP program on “A Deep Dive into Generative AI: The Role of GANs and LLMs” in collaboration with IBM from 26th-30th August 2024, organized by the Department of AI-DS, AI-ML, and ISE at Ramaiah Institute of Technology, Bangalore.

Prof. Manjula K B

Prof. Manjula K. B. is pursuing a Ph.D. at Presidency University, Bengaluru, with her research titled 'FPGA-Based Sentimental Analysis Using Machine Learning Algorithms.' She registered for her Ph.D. on February 6, 2023, and has completed her coursework

FACULTIES CONDUCTION OF /FDP/ CONFERENCE/ TECHNICAL TALK/ PATENTS/ ACHIEVEMENTS

1. R. Sanjeetha "Analyzing the impact of oblique DDoS attack on a Primary Server in Software Defined Networks by topology poisoning using Link Layer Discovery Protocol" *Swanirman Sunirmit Publications of Research Volume 4, Issue4(2024):108-113.*
URL:https://www.swanirmanconsultancy.in/pubdec2024/SSP_R_dec2024_3.pdf
2. R. Sanjeetha "Innovative Pedagogical Approaches for Teaching Cloud-Native DevOps: Integrating Theory and Practice." *Nanotechnology Perceptions (2024): 760-768.* **DOI :** <https://doi.org/10.62441/nano-ntp.v20iS6.61>
link:<https://nano-ntp.com/index.php/nano/article/view/1341>
3. R. Sanjeetha, "Revolutionizing Wireless Networks: Cutting-edge Machine Learning Paradigms for Next Generation Connectivity." *Nanotechnology Perceptions (2024): 785-796.* **DOI:**<https://doi.org/10.62441/nano-ntp.v20iS6.63>
link: <https://nano-ntp.com/index.php/nano/article/view/1343>
4. Ganga, B.; T, L.B.; Rajshekar, K.; Venugopal, K. Deep Learning Algorithm using CSRNet and Unet for Enhanced Behavioral Crowd Counting in Video. *Int. J. Comput. Digit. Syst.* 2025, 17, 1–15, <https://doi.org/10.12785/ijcds/1571015450>.
5. Ganga B, BT Lata, KR Venugopal. "Nested UNet GAN for Enhanced Crowd Counting via Density Map Generation and Accuracy Optimization," In IEEE technically sponsored International Conference on Innovation and Novelty in Engineering and Technology (INNOVA 2024).

STUDENTS METRIC ACTIVITIES EVENT CONDUCTED / PARTICIPATIONS

Attended a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

5th sem Students participated in Hackathon “Hack the Trace: Cyber Forensics Challenge” on 11th December 2024.

5th sem Students completed 5 Days SDP program on Ethical Hacking & Cyber Security Level - 3 from 6th December to 10th December 2024.

3rd sem Students participated in Hackathon “Cipher Clash: Cryptographic Combat” on 5th December 2024.

3rd sem Students completed 5 Days SDP program on Ethical Hacking & Cyber Security Level - 1 for from 28th November to 4th December 2024.

Attended a workshop on "Mastering Version Control with GIT and GitHub" conducted by the Department of CSE, SaIT, on 13th November 2024.

Participated in the Cyber Surakshit Bharat campaign on Cyber Security Awareness on 24th October 2024.

Attended a seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability & Insight” on 27th September 2024.

Participated in the Internal Smart India Hackathon conducted on 18th September 2024.

Completed Course on “Introduction to Cyber Security”

Five-day Skill Development Program on "Soft Skills" in association with SPIC, conducted by Genesis, at SaIT from September 2 to 6, 2024.

Completed Course on "Python for Beginners"

Completed Course on "Introduction to Python for Cyber Security"

Completed Course on "Introduction to Computers and Operating Systems and Security"

Completed Course on "Introduction to Computers and Operating Systems"

Completed Course on "Introduction to Cyber Security Tools & Cyber Security"

Completed Course on "Learn Ethical Hacking and Penetration Testing"

Completed Course on "Foundations of Cyber Security"

Completed Course on "Programming for Everybody"

Completed Internship on "Cyber Security(Web Application Vulnerability Assessment & Penetration Testing)"

Completed Workshop on "PowerBI"

Completed course on "Python 101 for Data Science"

Completed course on "JavaScript Bootcamp"

Completed course on "HTML & CSS Zero to Hero in 3 Days"

Completed certification Program in CCNA-Routing & Switching offered by the Digital Adda.

Completed 2-day workshop on “Business Intelligence Using Power BI”

Completed Live workshop on PowerPoint Using AI & ChatGPT.

Completed course on “Generative AI for DevOps”.

Completed course on “Cyber Threat Management”

Completed course on “Networking Basics”

Completed course on “Linux Tutorial”

Completed course on “Operating Systems Basics”

Completed course on “OOPs in Java”

Completed the Program on “Cybersecurity Essentials”

Completed course on “Ehack Certified Secure Computer User Boot Camp 16 Hours”

EVENTS/ ACTIVITIES CONDUCTED BY DEPARTMENT

Inauguration of Advanced Cyber Security Lab on 13th December 2024.

Organised a workshop on “Leveraging The Power of Generative AI” on 12th December 2024 conducted by Cloudthat Technologies, Microsoft Training partners.

Conducted Hackathon “Hack the Trace: Cyber Forensics Challenge” on 11th December 2024.

Conducted 5 Days SDP program on Ethical Hacking & Cyber Security Level - 3 from 6th December to 10th December 2024.

Conducted Hackathon “Cipher Clash: Cryptographic Combat” on 5th December 2024.

Conducted 5 Days SDP program on Ethical Hacking & Cyber Security Level - 1 for from 28th November to 4th December 2024.

“Cyber Surakshit Bharat” campaign on Cyber Security Awareness on October 24, 2024, at Sambhram Institute of Technology.

Seminar on “Leveraging Big Data Frameworks: Transforming Applications for Scalability and Insight” for CSE (Cyber Security) students on September 27, 2024, at SaIT.

Five-day Skill Development Program on "Soft Skills" in association with SPIC, conducted by Genesis, at SaIT from September 2 to 6, 2024.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

Department of CSE (Cyber Security)

Cordially invites you for
Inauguration of
ADVANCED CYBER SECURITY LAB

Chief Patrons:

Smt. Dhanya Nagaraj Director, SGI	Sri. B. N. Nagaraj (IPS-Retd.) CEO - SGI	Dr. V. Nagaraj Chairman, SGI
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Patrons:

Dr. K. V. Prasad Dean-Research, SaIT	Dr. M. N SreeRangaraju Dean-Academics, SaIT	Dr. H. G. Chandrakanth Principal, SaIT
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Invited by HoD, Faculties, Staffs & Students
Dept. of CSE (Cyber Security), SaIT
Date : 13th December 2024
Time : 12:00 PM
Venue : 3rd Floor, IT Block




Department of CSE(Cyber Security)
in association with IQAC - SaIT, IIC - SaIT
Supported by Student Chapters of IETE, IEEE & ISTE - SaIT
Cordially invites you for
WORKSHOP ON
“LEVERAGING THE POWER OF
GENERATIVE AI”



RESOURCE PERSON
G R DEEBA LAKSHMI
MICROSOFT CERTIFIED TRAINER
TECH LEAD, AZURE - DATA
CLOUDTHAT TECHNOLOGIES

Chief Patrons

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
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Patrons

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrakanth Principal, SaIT
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INVITED BY


Ms. Snehal Rathi Asst. Prof. CSE(CY)	Mrs. B Ganga Asst. Prof. CSE(CY)	Dr. Sanjeetha. R HoD - CSE(CY)
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DATE: 12TH DECEMBER 2024
VENUE: ECE SEMINAR HALL
TIME: 10:00AM - 1:00PM

DEPARTMENT OF CSE(CYBER SECURITY)
IN ASSOCIATION WITH IQAC - SAIT, IIC - SAIT
Cordially invites you for the inauguration of
5 DAYS SKILL DEVELOPMENT TRAINING
PROGRAM ON ETHICAL HACKING &
CYBERSECURITY LEVEL-3

CONDUCTED BY
SUPRAJA
TECHNOLOGIES
(A UNIT OF CHSMRLSS
TECHNOLOGIES PVT. LTD.)



Chief Patrons

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
--------------------------------------	---	--------------------------------

Patrons

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrakanth Principal, SaIT
--	---	---

INVITED BY

Ms. Snehal Rathi Asst. Prof. CSE(CY)	Mrs. B Ganga Asst. Prof. CSE(CY)	Dr. Sanjeetha. R HoD - CSE(CY)
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DATE: 06TH DECEMBER 2024
VENUE: CYBER SECURITY LAB, IT BLOCK
TIME: 9:00 AM




Department of CSE(Cyber Security)
in association with IQAC - SaIT, IIC - SaIT
Supported by student chapters of IETE, IEEE, ISTE &
Student forum - Cyber Ninja
cordially invites you for




Hack the Trace: Cyber Forensics Challenge

CONDUCTED BY
SUPRAJA TECHNOLOGIES

Chief Patrons

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
--------------------------------------	---	--------------------------------



Patrons

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrakanth Principal, SaIT
--	---	---

INVITED BY

Ms. Snehal Rathi Asst. Prof. CSE(CY)	Mrs. B Ganga Asst. Prof. CSE(CY)	Dr. Sanjeetha. R HoD - CSE(CY)
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DATE: 11TH DECEMBER 2024
VENUE: CYBER SECURITY LAB, IT BLOCK
TIME: 09:00 AM - 5:00 PM

DEPARTMENT OF CSE(CYBER SECURITY)
IN ASSOCIATION WITH IQAC - SAIT, IIC - SAIT

Cordially invites you for the inauguration of
5 DAYS SKILL DEVELOPMENT TRAINING PROGRAM ON ETHICAL HACKING & CYBERSECURITY LEVEL-1

CONDUCTED BY
SUPRAJA TECHNOLOGIES
(A UNIT OF CHSMRLSS TECHNOLOGIES PVT. LTD.)



Chief Patrons

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
---	--	---------------------------------------



Patrons

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrankanth Principal, SaIT
---	--	---

INVITED BY

Ms. Snehal Rathi Asst. Prof. CSE(CY)	Mrs. B Ganga Asst. Prof. CSE(CY)	Dr. Sanjeetha. R HoD - CSE(CY)
--	--	--

DATE: 28TH NOVEMBER 2024
VENUE: CYBER SECURITY LAB, IT BLOCK
TIME: 9:00 AM


Department of CSE(Cyber Security)
in association with IQAC - SaIT, IIC - SaIT

Supported by student chapters of IETE, IEEE, ISTE &
Student forum - Cyber Ninja

cordially invites you for
HACKATHON

Cipher Clash: Cryptographic Combat

CONDUCTED BY
SUPRAJA TECHNOLOGIES



Chief Patrons

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
---	--	---------------------------------------

Patrons

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrankanth Principal, SaIT
---	--	---

INVITED BY

Ms. Snehal Rathi Asst. Prof. CSE(CY)	Mrs. B Ganga Asst. Prof. CSE(CY)	Dr. Sanjeetha. R HoD - CSE(CY)
--	--	--

DATE: 05TH DECEMBER 2024
VENUE: CYBER SECURITY LAB, IT BLOCK
TIME: 10:00 AM - 5:00 PM




DEPARTMENT OF CSE (CYBER SECURITY)
in association with IQAC & IIC - SaIT

Supported by IETE, IEEE & ISTE Student Chapters of SaIT
Cordially invites you for
SEMINAR ON

“LEVERAGING BIG DATA FRAMEWORKS : TRANSFORMING APPLICATIONS FOR SCALABILITY & INSIGHT”

- **Prof. Akshatha G C**
Dept. of CSE(AI&ML)
MSRIT

CHIEF PATRONS

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
---	--	---------------------------------------

PATRONS

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrankanth Principal, SaIT
---	--	---

INVITED BY

Prof. Bhagyashree Hosmani Asst. Prof. Dept of CSE(CY)	Prof. Snehal Rathi Asst. Prof. Dept of CSE(CY)
Prof. B Ganga Asst. Prof. Dept of CSE(CY)	Dr. Sanjeetha. R HoD-CSE(CY)

Date: 27th September 2024
Venue: ECE seminar hall
Time: 2:00 pm to 3:00 pm




Hackathon Cell & IIC - SaIT
in association with IQAC

Supported by Student Chapters of IETE, IEEE and ISTE - SaIT
Cordially invites you for
INTERNAL SMART INDIA HACKATHON - 2024



CHIEF PATRONS

Smt. Dhanya Nagaraj DIRECTOR, SGI	Sri.B.N. Nagaraj (IPS-Retd.) CEO - SGI	Dr.V. Nagaraj CHAIRMAN, SGI
---	--	---------------------------------------

PATRONS

Dr. K.V. Prasad Dean-Research, SaIT	Dr. M.N SreeRangaraju Dean-Academics, SaIT	Dr. H.G.Chandrankanth Principal, SaIT
---	--	---

Faculty Coordinators

Mrs. Mallamma Goudar - CSE	Mr. Bharath S - ECE
Ms. Sowmya -ISE	Mrs. Saritha - AI-ML
Mrs. Mamatha M -AI-DS	Ms. Snehal Rathi - CSE(CY)
Mrs. Shini Shanmughan - CV	Mrs. Navya - MBA
Mr. Jagadeesh H -ME	Mr. Aravind H - PHY

INVITED BY

Dr. Padmini B V Head - IIC - SaIT	Dr. Sanjeetha. R SPOC-SIH & HoD-CSE(CY)	Dr. Ravishankar C V HoD - ECE
---	---	---

Date: 18th September 2024
Venue: ECE seminar hall
Time: 9:30 am - 4:30 pm




CYBER CRIME AWARENESS CELL - SaIT
 Department of CSE(Cyber Security)
 in association with IQAC, IIC &
 Student Chapters of IETE, IEEE, and ISTE - SaIT &
 Student Forum - Cyber Ninja
 Cordially invites you to celebrate
CYBER SURAKSHIT BHARAT
 a Campaign on Cyber Security Awareness



Resource Person
Dr. C.V.Ravishankar
 Chairman, IETE-Bangalore
 & HOD-ECE, SaIT

Smt. Dhanya Nagaraj
DIRECTOR, SGI

Sri.B.N. Nagaraj
(IPS-Retd.) CEO - SGI

Dr.V. Nagaraj
CHAIRMAN, SGI

Chief Patrons

Patrons

Dr. K.V. Prasad
Dean-Research, SaIT

Dr. M.N SreeRangaraju
Dean-Academics, SaIT

Dr. H.G.Chandrankanth
Principal, SaIT

INVITED BY

Prof. B Ganga
Dept. of CSE(CY)

Dr. Ravishankar C V
HoD - Dept. of ECE

Dr. Sanjeetha. R
Head - Cyber Crime Awareness Cell, SaIT
& HoD-CSE(CY)

Date: 24th October 2024
 Venue: Sri R. Venkatesh Auditorium
 Time: 11:30 am - 1:00 pm




HACKATHON CELL & IIC - SAIT
 IN ASSOCIATION WITH IQAC
 SUPPORTED BY IETE, IEEE AND ISTE SAIT STUDENT CHAPTERS
 Cordially invites you for
SIH-2024 BOOTCAMP



RESOURCE PERSON
ASHWINI TIRKEY
 COMEDKARES

CHIEF PATRONS

Smt. Dhanya Nagaraj
DIRECTOR, SGI

Sri.B.N. Nagaraj
(IPS-Retd.) CEO - SGI

Dr.V. Nagaraj
CHAIRMAN, SGI

PATRONS

Dr. K.V. Prasad
Dean-Research, SaIT

Dr. M.N SreeRangaraju
Dean-Academics, SaIT

Dr. H.G.Chandrankanth
Principal, SaIT

Faculty Co-ordinators

Mrs. Mallamma Goudar - CSE
Ms. Sowmya -ISE
Mrs. Mamatha M -AI-DS
Mrs. Shini Shanmughan - CV
Mr. Jagadeesh H -ME

Mr. Bharath S - ECE
Mrs. Saritha - AI-ML
Ms. Snehal Rathi - CSE(CY)
Mrs. Navya - MBA
Mr. Aravind H - PHY

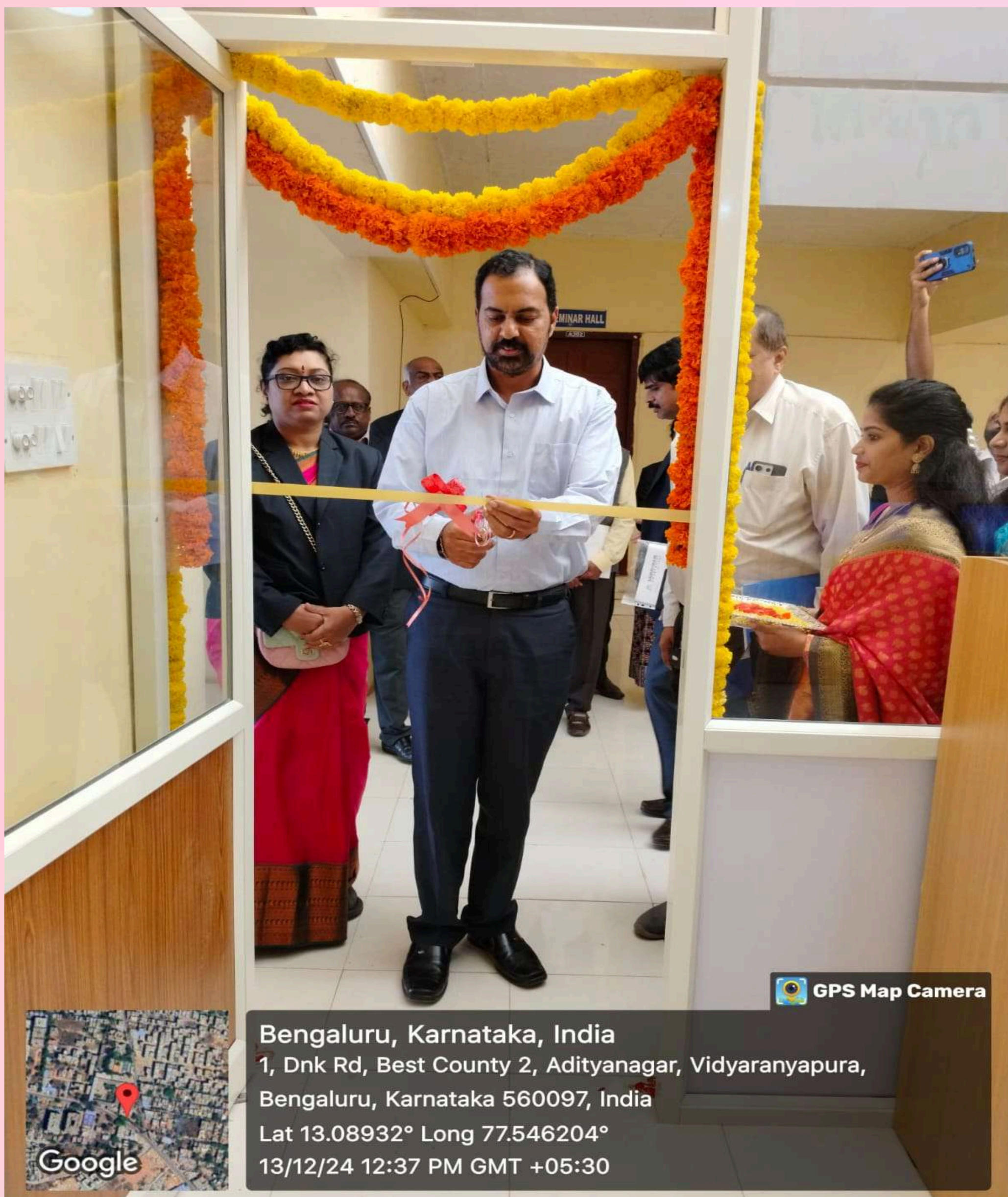
INVITED BY

Dr. Padmini B V
Head - IIC- SaIT

Dr. Sanjeetha. R
SPOC-SIH & HOD-CSE(CY)

Dr. Ravishankar C V
HoD - ECE

DATE: 3RD SEPTEMBER 2024
 VENUE: ECE SEMINAR HALL
 TIME: 12:00 PM TO 1:00 PM



Leveraging The Power of Generative AI

Inauguration of Advanced Cybersecurity Lab



Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar, Vidyaranyapura,
Bengaluru, Karnataka 560097, India
Lat 13.089178° Long 77.546073°
11/12/24 04:31 PM GMT +05:30

Hackathon “Hack the Trace: Cyber Forensics Challenge” Winners



Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar, Vidyaranyapura,
Bengaluru, Karnataka 560097, India
Lat 13.089097° Long 77.546105°
09/12/24 02:56 PM GMT +05:30

5 Days SDP program on Ethical Hacking & Cyber Security Level – 3



Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar,
Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.089219° Long 77.5463°
05/12/24 04:20 PM GMT +05:30

Hackathon “Cipher Clash: Cryptographic Combat” Winners



Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar, Vidyananyapura,
Bengaluru, Karnataka 560097, India
Lat 13.089097° Long 77.546105°
09/12/24 02:56 PM GMT +05:30

5 Days SDP program on Ethical Hacking & Cyber Security Level – 1



Bengaluru, Karnataka, India
3gqw+x96, Adityanagar, Vidyananyapura,
Bengaluru, Karnataka 560097, India
Lat 13.089969° Long 77.546015°
24/10/24 11:42 AM GMT +05:30

Cyber Surakshit Bharat” campaign on Cyber Security Awareness



Students performing Skit during Cyber Surakshit Bharat” campaign on Cyber Security Awareness



Leveraging Big Data Frameworks: Transforming Applications for Scalability and Insight



Students attending Five-day Skill Development Program on "Soft Skills" in association with SPIC



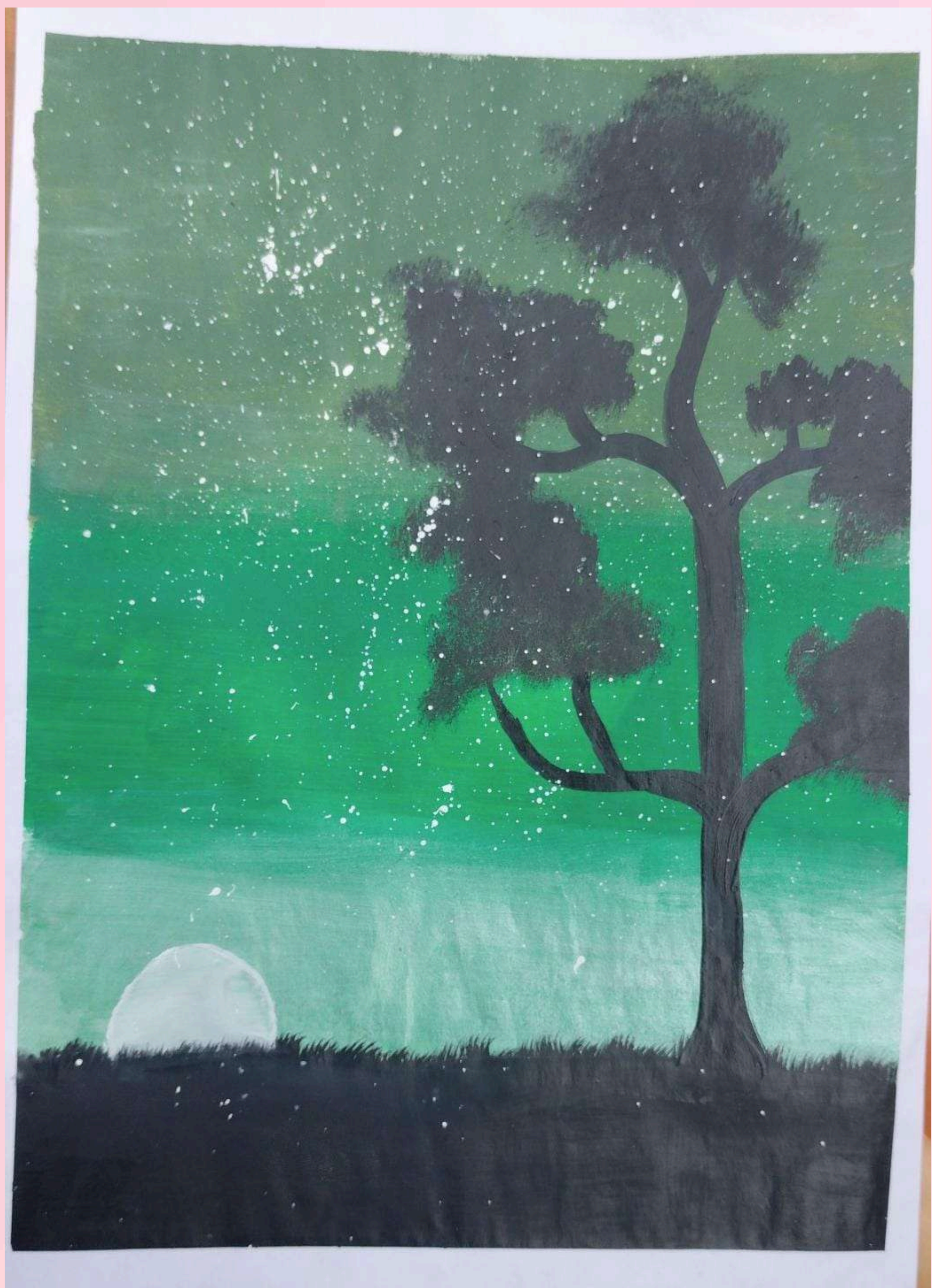
Soft Skills Resource person with placement officer and faculty



Internal Smart India Hackathon

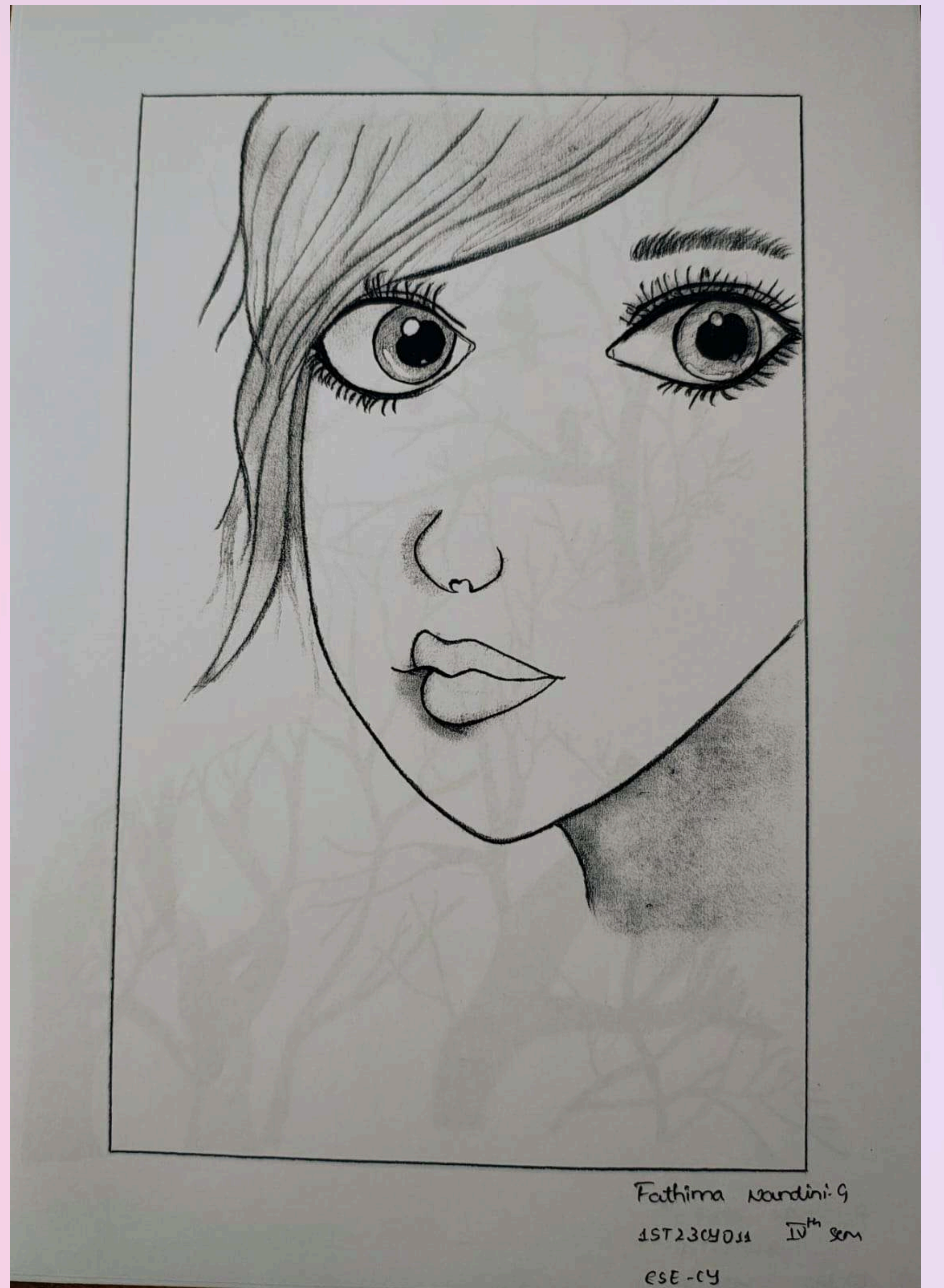


Bootcamp Program for Smart India Hackathon





Fathima Nardini: 9
15T2304011
4th sem CSE-CY



Fathima Nardini: 9
15T2304011 IVth sem
CSE-CY



Fathima Nardini: 9
15T2304011
4th sem CSE-CY



Art by
Vinay HP
CSE(Cyber Security)



-ದಕ್ಷಿಣ ಕನ್ನಡ

ಮಳೆ ಸುರಿಯುತ್ತಿವುದಿಲ್ಲಿ ಆಕಾಶಕ್ಕೆ ತೂತುಬಿದಂತೆ,
ಮನೆಗಳು ಇರುವುದು ಅಲೊಂದು ಇಲೊಂದು ಎಂಬಂತೆ,
ಚಿಲ್ಲಿ ಪಿಲ್ಲಿ ಎಂದಾಡುವ ಪಕ್ಕಿಗಳ ಶಬ್ದವೆ ಮಧುರವಂತೆ,
ನಿರ್ಜನ ಪ್ರದೇಶಕ್ಕೆ ಬೆಟ್ಟ, ಗುಡ್ಡಗಳೆ ಸೋಬಗಂತೆ.
ಜನ ಸಾಮಾನ್ಯರ ದಿನನಿತ್ಯದ ಕೆಲಸ ಸಾಗುತ್ತಿಹುದು ನಿಲ್ಲದಂತೆ,
ಎತ್ತ ನೋಡಿದರು ಕಾಣುವುದು ಗಿಡ, ಮರ, ಬಳ್ಳಿಗಳ ರಾಶಿಯಂತೆ,
ವಾಹನ ಸಾಗುತ್ತಿವುದು ಅತೊಂದೂ ಇತೊಂದೂ ಎಂಬಂತೆ,
ಪರಿಶುದ್ಧ ಹರಿಯುವ ನದಿ, ಜಲಪಾತವೆ ಇಲ್ಲಿನ ಸೌಂದರ್ಯವಂತೆ.

DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING
AUGUST 2024 TO JANUARY 2025

The Department of Electronics and Communication Engineering at Sambhram Institute of Technology remains at the forefront of academic and research advancements, promoting innovation and technical excellence. With a dedicated focus on emerging technologies such as IoT, Artificial Intelligence, Wireless Networks, and VLSI Design, our faculty and students actively contribute to pioneering projects and collaborate with industry leaders. Dr. Ravishankar C.V., HOD, ECE quoted that

“Recent achievements include successful student placements in top-tier companies, participation in national-level hackathons, and the publication of high-impact research papers. The department also organizes technical workshops, guest lectures, and hands-on training sessions to bridge the gap between academics and industry.

With a commitment to shaping future engineers, the ECE Department at Sambhram Institute of Technology remains a hub of innovation, preparing students for the ever-evolving world of electronics and communication”

RESEARCH ACTIVITY DETAILS
PhD Scholars updates

- Prof. Sowndeswari is in final stage to get Ph.D degree holder during February 2025



- Prof. Anupama appeared for the Ph.D related interview
- Prof. Khamar Unnisa appeared for the Ph.D related interview in REVA University

EVENTS PARTICIPATED

- Dr. Sowndeswari S participated an ATAL Faculty Development Program (FDP) on "AI in Satellite Image Processing & Applications" from January 20, 2025, to January 25, 2025, through online sessions.
- Prof. Nithiya K assigned paper reviews for the 3rd International Conference on Intelligent Computing and Applications (ICICACS) on January 20, 2025, which is scheduled to be held on

· February 21, 2025, under the IEEE Bangalore Section.

· Prof. C. Srivani conducted an FDP on "Emerging Wireless Technologies for 6G" from January 6, 2025, to January 10, 2025, through online sessions. Similarly, Prof. Bhargavi Arun Kulkarni also conducted an FDP on the same topic during the same period via online sessions.

· Prof. Nithiya K coordinated the review process for the International Conference on Intelligent Systems & Computational Networks, held at Linagraj Appa Engineering College on January 24 and 25, 2025.

· Prof. Anupama Hongal organized an FDP on "MEMS Characterization Techniques" at ALVA's Institute of Engineering from January 22, 2025, to January 25, 2025.

· Additionally, registration has been completed for a six-day FDP on "Chip Design Tapeout" at SJC Institute of Technology, scheduled to take place from February 3, 2025, to February 8, 2025, under the guidance of Dr. Sowndeswari and Prof. Anupama Hongal.

· A technical talk on "National Space Day" is scheduled for August 23, 2024, coordinated by Prof. Chaitanya Danamaraju, with resource persons Dr. K. Venkata Prasad (Dean of Research), Dr.

M. N. SreeRangaraju (Dean of Research), and Dr. Ravishankar C. V. (HOD-ECE, SaIT, Bangalore). The event is supported by the Alumni Association and Student Chapters of IETE, IEEE, and ISTE.

· A Faculty Orientation Program will be conducted from August 9 to August 10, 2024, with participation from Prof. Bhargavi, Prof. Pratiba, Prof. Chaitanya, Prof. Natraj, and Prof. Srivani.

· Registration for the IIRS-ISRO AI/ML Course is open on August 7, 2024, for III-semester students.

· The CIE marks entry and updation for the even semester will take place from August 7 to August 11, 2024, with faculty members Dr. Shreesha Kalkoor, Prof. S. Sowndeswari, Prof. Anupama, Prof. Nithiya K, Prof. Abhishek D G, Prof. Bharath S, Prof. Srivani C, Prof. Khamer Unnisa, Prof. Bhargavi, Prof. Pratiba, and Prof. Natraj overseeing the process.

· The list of library book requirements for the upcoming semester will be submitted on August 13, 2024, for all subjects, to Mrs. Ramya.

· The South Asian Games 2024 is scheduled for August 25, 2024, with VI-semester students participating. Food coordinators for the event are Prof. D. G. Abhishek and Prof. Bharath S.

· A Faculty Development Program (FDP) on "Transforming Education: Integrating

OBE & NEP 2020" was attended by Prof. Bhargavi from July 22 to August 2, 2024, at CVR College of Engineering (Online).

- Founder's Day will be celebrated on September 11, 2024, at SaIT, coordinated by Prof. Pratibha A Desai, Prof. Bhargavi Arun Kulkarni, and Prof. C. Srivani. The chief guest for the event is Dr. Narayan Murthy.

- A Short-Term Capacity Building Program on "Digital Skills Training for Non-Teaching Staff" will be held from September 12 to September 14, 2024, with participants Mrs. Shahina, Mrs. Sumamma B. N., and Mr. Kiran Kumar.

- Faculty members Prof. Sowndeswari and Prof. Anupama will receive awards during Founder's Day celebrations on September 11, 2024, at SaIT, presented by Dr. Narayan Murthy.

- A webinar on VTU Internship via Zoho is scheduled for September 14, 2024, for VII-semester students.

- Engineers' Day will be celebrated on September 18, 2024, at the SaIT Conference Hall, organized by the Civil Department and attended by all ECE faculty members.

- The inaugural function of the 1st-year B.E. classes and the Student Induction Program will take place on September 23, 2024, with all ECE faculty members present. The chief guest is B. N. Suresh,

Chancellor of IISc, and the guest of honor is Dr. H. R. Sudarshan Reddy from the Regional Center, Bangalore.

- A department meeting is scheduled for September 23, 2024, regarding the relief of Prof. Abhishek.

- The IETE-ISF Conclave 2024 will be held on October 26, 2024, with participation from Prof. S. Sowndeswari.

- An online FDP on "Developing AI-Powered AR/VR in Metaverse Applications" will take place from October 21 to October 25, 2024, at DNR College of Engineering & Technology, Bhimavaram, Andhra Pradesh, with participation from Prof. Nithiya K, Prof. Chaitanya Danamaraju, Prof. C. Srivani, and Prof. Bhargavi Arun Kulkarni.

- A MATLAB Masterclass on "Teaching DSP with MATLAB and Curriculum Support," presented by Sunil Mothwani from MathWorks, will be held online on October 26, 2024, and attended by Prof. Nithiya K.

- A one-week online FDP on "Communication, Signal Processing, and Recent Technologies for Different Applications" will be conducted from October 22 to October 28, 2024, at the Dept. of ECE, Budge Budge Institute of Technology, Kolkata, with participation from Mr. Nataraja P. R. and Prof. Bhargavi Arun Kulkarni.

- Faculty members Prof. Khamer and Prof. Chaitanya have submitted articles to the International Conference at Sambhram University, Uzbekistan, on October 29, 2024, under the guidance of Prof. Reddappa (SAMS).
- Faculty nominations for AICTE Online FDPs on Universal Human Values will be submitted on October 24, 2024.
- An Anti-Ragging Committee meeting is scheduled for October 24, 2024, and will be attended by Prof. Bharath.
- A one-week FDP on "Advanced Materials & Emerging Technologies" will be held from October 23 to October 28, 2024, in online mode, hosted by KLH Bachupalli Campus, Telangana, with participation from Prof. Bharath, Prof. Chaitanya, and Prof. Bhargavi.
- A technical talk will be conducted on November 8, 2024, for III-semester students in the ECE Seminar Hall.
- A Jio Meet App Knowledge Sharing Session on "Streamlined MLOps Pipelines for Scalable ML" will be presented by Prof. Nithiya on November 10, 2024.
- A Foundation Day event will be held at the Billiards Club on November 9, 2024, where Dr. Shreesha K will participate in the Vol-18 IETE Newsletter releasing program.
- Faculty members who have successfully completed NPTEL exams include Prof.

Bhargavi (Microelectronics Devices – 76%, 12-week course) on November 1, 2024, and Prof. Anupama Hongal (Digital Circuits – 66%, 12-week course) on November 14, 2024.

- A MATLAB Seminar will be organized by MathWorks on November 9, 2024, and attended by Prof. Nithiya K.
- A conference on "Innovations in Active & Passive Antenna Systems" will be held at RV College of Engineering on November 28, 2024, with participation from Prof. Khamer. The event is hosted by the IEEE Bangalore Chapter, with Dr. C. V. Ravishankar as the guest of honor.
- Kannada Rajyotsava & Ethnic Day will be celebrated on November 30, 2024, with participation from all ECE faculty members.
- Indian Constitution Day will be observed on November 26, 2024, with III and V-semester students participating, coordinated by Prof. Khamer and Prof. Anupama.

An FDP on "Future Trends & Design Challenges in 5G/6G" will take place from November 18 to November 23, 2024, at Vel Tech Multi Tech (Autonomous Institution), with participation from multiple faculty members.

- The college cultural event, "Sambhramotsava 2024," will be held on

December 13, 2024, at SaIT Campus, with participation from all ECE faculty members.

· A Research Centre Lecture Series featuring a technical talk on "IPR Patent Filing" will be conducted on December 18, 2024, with guest of honor Mr. Edwin Selvaraj and his team from Zacco & R&D Pvt. Ltd.

· Prof. Nithiya will serve as an IEEE conference reviewer from November 22 to November 23, 2024, at Sharnbasva University.

· A conference titled "Modern Practices & Trends in Expert Applications" will be held from November 22 to November 24, 2024, with Prof. Sowndeswari as a reviewer at IES College of Technology.

ACHIEVEMENTS

1. Dr. C.V. Ravishankar was honored by the BEL Chief, Mr. Manoj Jain, CMD, at an offline event held at the BEL office on 14th August 2024.

2. Prof. Nithiya served as a reviewer for the International Conference on "Intelligent Algorithms for Computational Intelligence Systems" at Navkis College of Engineering, Hassan, held on 23rd to 24th August 2024.

3. VI Semester Student, Sahana Bhai, secured the 3rd prize shield and certificate at the National Dance Competition "Nrithanrithyathi – A Celebration of Indian Dance & Music" on 25th August 2024, organized by Nrithyanthikalashetram.

4. Dr. Shreesha Kalkoor was a jury member for the Anveshana Innovation Challenge at BIT Bangalore, held on 20th September 2024, conducted by the Department of Robotics in association with Agastya Foundation.

5. Prof. Nithiya K acted as a reviewer for the IEEE International Conference on Wireless and IoT at Sharnbasva University on 27th September 2024, in an online format.

6. Prof. Bhargavi Arun Kulkarni completed the NPTEL exam on Analog Circuits and Systems with an Elite status.

7. Dr. C.V. Ravishankar met with the LRDE - DRDO Director & BEL Director in an offline meeting on 11th September 2024.

8. Dr. C.V. Ravishankar also participated in the IETE Governing Council meeting, which took place at the Citrus Hotel & Resort in Bhopal.

9. Dr. C.V. Ravishankar organized the IETE ISF Conclave 2024 on 26th October 2024.

10. Dr. C.V. Ravishankar also participated in the 5-day Advanced Workshop on System Engineering at BEL from 21st October 2024, where he was the chief guest along with former DRDO directors and the BEL ADGM.

11. Dr. C.V. Ravishankar will lead the IETE program on India's Leadership on 6G – Design & Produce in India for the World on 9th November 2024, to be conducted at RV College of Engineering.

12. On the same day, Dr. C.V. Ravishankar will convene Foundation Day at the Billiards Club and release Volume 18 of the IETE Newsletter.

13. Prof. Sowndeswari will be certified as the topper in the NPTEL exam on Accreditation & Outcome-Based Learning for an 8-week course, on 14th November 2024.

14. IEEE Bangalore Chapter will hold a conference on “Innovations in Active & Passive Antenna Systems” on 28th November 2024 at RV College of Engineering, with Dr. C.V. Ravishankar as the guest of honor.

15. Prof. Nithiya, Prof. Sowndeswari, Prof. Bhargavi, Prof. Natraj, Prof. Pratiba, and Prof. Anupama will have 7 projects from the ECE department shortlisted on 29th November 2024.

16. Prof. Nithiya will attend the AICTE Training and Learning (ATAL) Academy FDP from 25th to 30th November 2024 at RL Jalappa Institute, where the focus will be on exploring emerging technologies in next-gen communication networks.

17. Dr. C.V. Ravishankar inaugurated the BIS2024 Symposium at BEL, focusing on AI, cybersecurity, IoT, and aerial vehicle systems.

18. Prof. Nithiya coordinated the Jetson AI Masterclass and was certified by ATAL (AICTE Training and Learning Academy).

19. Dr. Sowndeswari completed an NPTEL FDP on Accreditation & Outcome-based Learning and a 6-day FDP5 G/6G technologies

20. Prof. Nithiya served as a reviewer for two IEEE international conferences on mobile networks and wireless communication.

20. Dr. Sowndeswari was a jury member for the JIGNYASA Science & Math model exhibition organized by the Agastya Foundation.

21. Dr. C.V. Ravishankar participated in the IETE program on "India's Leadership on 6G" at RVCE and convened the IETE Foundation Day celebration.

22. Prof. Sowndeswari was a certified topper in the NPTEL exam on Accreditation & Outcome-based Learning.

23. Seven projects from the ECE department, led by multiple professors, were shortlisted for recognition.

Dr. Sowndeswari completed an NPTEL FDP on Accreditation & Outcome-based Learning and a 6-day FDP5 G/6G technologies



24. Prof. Nithiya attended an ATAL FDP on emerging technologies in next-generation communication networks.

EVENTS CONDUCTED

1. A SemiCon VLSI technical talk was organized for all ECE faculty on 5-12-24.
2. A food walk was conducted for 150 students of the V and III semesters on 6-12-24.
3. ERP training for all ECE faculty took place on 7-12-24.

Internal Test II was conducted for III and V semester students from 16-18 December.

5. A technical talk on IPR patent filing was delivered by Zacco & R&D Pvt. Ltd. on 18-12-24.

6. Industry field visits were conducted to BEL Nalanda for V semester students on 19-12-24.

1. VTU Lab External Exams began on 22-12-24.

2. Christmas Eve was celebrated with a Secret Santa event on 24-12-24.

3. A department meeting was held on 26-12-24 to discuss subject allotments, skill development proposals, and result improvements.

4. A POSH awareness program was conducted for ECE lady faculty on 27-12-24.

A skill development program with an MoU signing ceremony involving Cranes Varsity was conducted on 8-11-24.

1. A blood donation camp was announced for VII semester students on 13-11-24.

2. A 5-day skill development program on PCB design and MATLAB was organized from 19-23 November.

3. World Television Day was observed on 21-11-24.

4. A research talk on "Deepfakes: The Double-Edged Sword of Modern AI" was held on 29-11-24.

EVENTS PARTICIPATED

1. All ECE faculty participated in SAMBHRAMOTSAVA 2024, a cultural event held on 13-12-24.

2. Faculty attended a technical talk on IPR patent filing conducted by Zacco & R&D Pvt. Ltd. on 18-12-24.

3. Women's Cell members participated in a meeting on 19-12-24, coordinated by Prof. Nithiya and Prof. Khamer.

4. All ECE faculty observed World Mathematics Day on 24-12-24 in the seminar hall.

5. Faculty attended a technical talk on National Energy Conservation Day organized by the Mechanical department on 30-12-24.

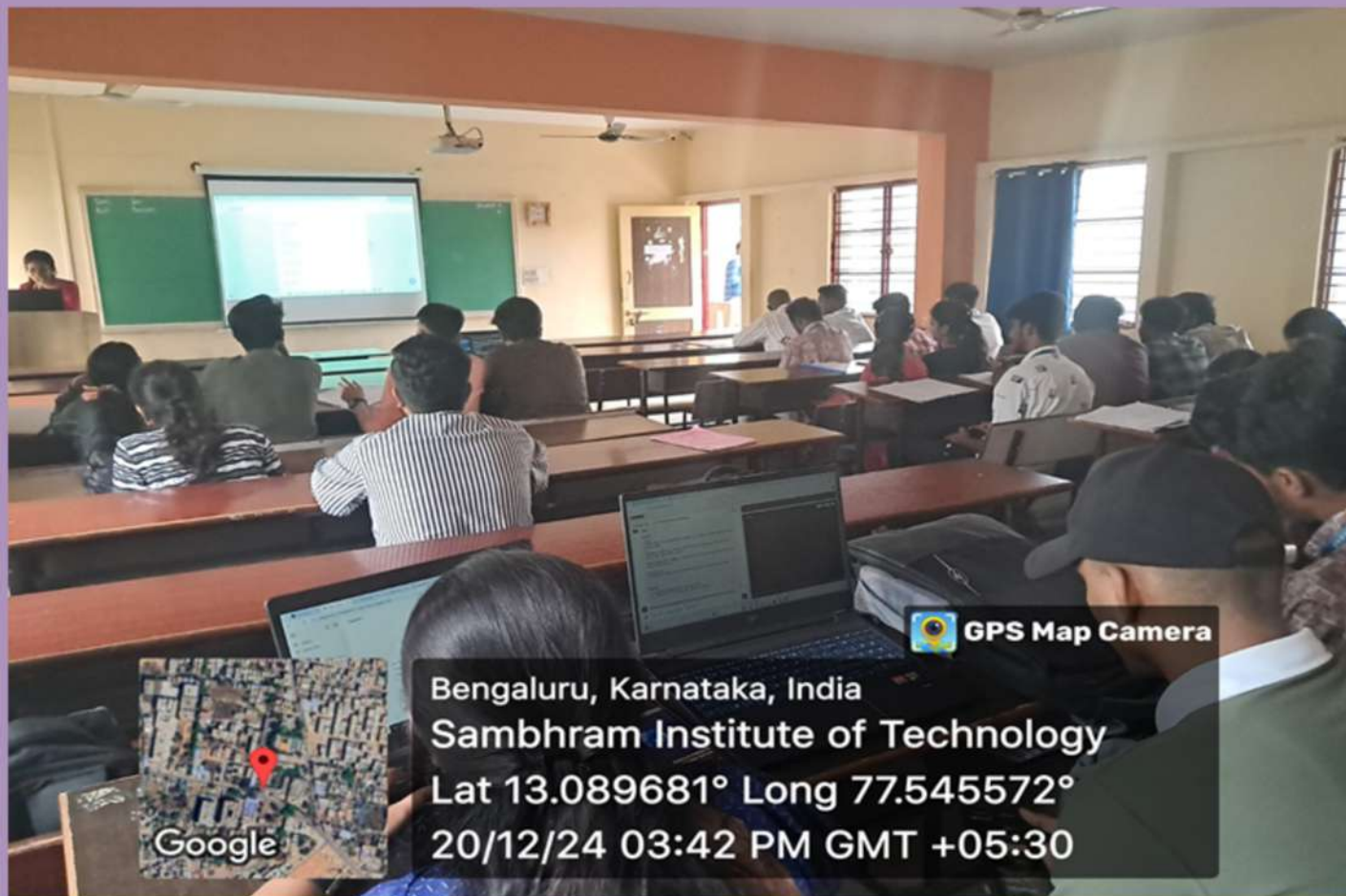
6. Prof. Nithiya presented a technical talk on "Streamlined MLOps Pipelines for Scalable ML" via Jio Meet on 10-11-24.

7. All Faculties participated in a conference on "Innovations in Active & Passive Antenna Systems" on 28-11-24.

8. Multiple faculty members participated in an FDP on 5G/6G technologies from 18-23 November.

9. Faculty attended the IEEE International Conference as reviewers from 22-23 November.

Kannada Rajyotsava and Ethnic Day were celebrated by all ECE faculty on 30-11-24.





SAMBHRAM
INSTITUTE OF TECHNOLOGY

RESEARCH CENTRE – LECTURE SERIES 1

“Expert Talk”

on



29th November 2024

“Deepfakes : The Double-Edged Sword of Modern AI”



Dr. Raghu Sesha Iyengar

Associate Professor, Department of CS & Information Systems
BITS-Pilani

Chief Patrons

Smt. Dhanya Nagaraj
Director, SGI

Sri. B. N. Nagaraj
IPS(Retd.), CEO, SGI

Dr. V. Nagaraj
Chairman, SGI

Patrons

Dr. K. V. Prasad
Dean-Research, SaIT

Dr. M. N. SreeRangaraju
Dean -Academics, SaIT

Dr. H. G. Chandrakanth
Principal, SaIT

Venue: New Conference Hall, SaIT

Timings : 12 noon-1.30 pm

*****ALL ARE INVITED*****



SAMBHRAM
INSTITUTE OF TECHNOLOGY

Ambabhavani Temple Road, M S Palya, Bangalore.

RESEARCH CENTRE – LECTURE SERIES 3

“An Invited Talk”

on

**“Intellectual Property Rights (IPR)
&
Patent Filing ”**

by

**Mr. Edwin Selvaraj
Mr. Gautam Kumar Maddipatla
Mr. Vinay Babu
(M/S Zacco India R&D Pvt. Ltd., Bangalore)**



18th December 2024

Chief Patrons

Smt. Dhanya Nagaraj
Director, SGI

Sri. B. N. Nagaraj
IPS(Retd.), CEO, SGI

Dr. V. Nagaraj
Chairman, SGI

Patrons

Dr. K. V. Prasad
Dean-Research, SaIT

Dr. M. N. SreeRangaraju
Dean -Academics, SaIT

Dr. H. G. Chandrakanth
Principal, SaIT

Co-ordinators

Prof. Anupama Hongal
Asst. Prof., Dept. of ECE, SaIT

Dr. Sowndeswari S
Asst. Prof., Dept. of ECE, SaIT

Venue: New Conference Hall, SaIT

Timings: 11 :00 A.M.

*****ALL ARE INVITED*****



SAMBHRAM
INSTITUTE OF TECHNOLOGY

Amba Bhavani Temple Road, M.S. Palys, Vidyananyapura Post, Bangalore-560097.

SAIT – SC /ST CELL

INVITATION

CELEBRATION OF

ವಾಲ್ಮೀಕಿಜಯಂತಿ

VALMIKI JAYANTHI



On

25-10-2024

@3.30pm

ECE – Seminar Hall,
Sait.

Invited by

Dr. Asha S R
Asst. Prof., Dept. of CSE

Prof. Anupama Hongal
Asst. Prof., Dept. Of ECE

Patrons

Dr. K V Prasad
Dean - Research, Sait

Dr. M N Sreerangaraju
Dean - Academics, Sait

Dr. H G Chandrakanth
Principal, Sait

Mrs. Dhanya Nagaraj
Director, SGI

Mr. B N Nagaraj
IPS(Retd), CEO, SGI

Dr. V Nagaraj
Chairman, SGI

August 2024

"National Space Day" was celebrated on August 24th with a speech by Dr. K.V. Prasad, Dean of Research. The welcome speech was delivered by Profs. Srivani and Khamer, and the event coordinated by Profs. Natraj and Srivani, with 50 attendees.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

Arbuda Bhawan Temple Road, M.S.Palya, Vidyananyapura Post, Bangalore - 97

Dept. of Electronics and Communication Engineering

In Association With



IETE-Bangalore

supported by

Alumni Association, SaIT

NATIONAL SPACE DAY



On 23rd August 2024

Speech By
Dr. K. V. Prasad
Dean-Research, SaIT

Coordinators

Prof. Bharath S
Assistant Professor
Dept. of ECE, SaIT

Prof. Nataraja P. R
Assistant Professor
Dept. of ECE, SaIT

Patrons

Dr. K. V. Prasad
Dean-Research, SaIT

Dr. M. N. SreeRangaraju
Dean-Academics, SaIT

Dr. H. G. Chandrakanth
Principal, SaIT

Mrs. Dhanya Nagaraj
Director, SGI

Mr. B. N. Nagaraj
#S(Retd.), CEO, SGI

Dr. V. Nagaraj
Chairman, SGI

Supported By:

Alumni Association - SaIT
Student Chapters of SaIT - IETE, IEEE & ISTE
Invited by: HOD, Faculty & Staff

Timings: 11:00AM

Venue: ECE Seminar Hall

"National Space Day"



Dr. Ravishankar CV ECE HOD addressing the gathering on 8/11/24

September 2024

"World Suicide Prevention Day 2024" was observed on 6th September as part of a Power Aditya Birla Group initiative and the SaIT

Students' Mental Health Club event, for III semester students, was conducted by the Institution's Innovation Council (IIC), with Prof. Natraj as the executor and Prof. Anupama as the coordinator.

INSTITUTION'S INNOVATION COUNCIL
Ministry of Education, India

SAMBHRAM
INSTITUTE OF TECHNOLOGY

M POWER
WILD MATTERS
ADITYA BIRLA EDUCATION TRUST

M.S.Palya, Hesaraghatta Road, via Jalahalli East, Bengaluru-560097

In association with
AN ADITYA BIRLA GROUP initiative
&
SAIT- STUDENTS MENTAL HEALTH CLUB
Cordially invites you for the celebration of

WORLD MENTAL HEALTH DAY
Awareness Theme- 2024
'Mental Health at Work'
On
15th October 2024

Guest
Dr. MANJU ASWATH
Professor & Head, Department of Psychiatry
KIMS, Bangalore

Presided by
Dr. H.G. Chandrakanth
Principal-SAIT

Convener
Dr. Ravishankar.C.V
SMHC-SAIT

Invited By
Prof. Mallamma, Prof. Monica.M.S, & Prof. Anupama Hongal
Faculty Coordinators: SAIT-SMHC

Patrons

Dr. K.V.Prasad
Dean-Research, SaIT

Dr. M. N. Sree Rangaraju
Dean-Academic, SaIT

Dr. H.G.Chandrakanth
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Dr. V.Nagaraj
Chairman, SGI

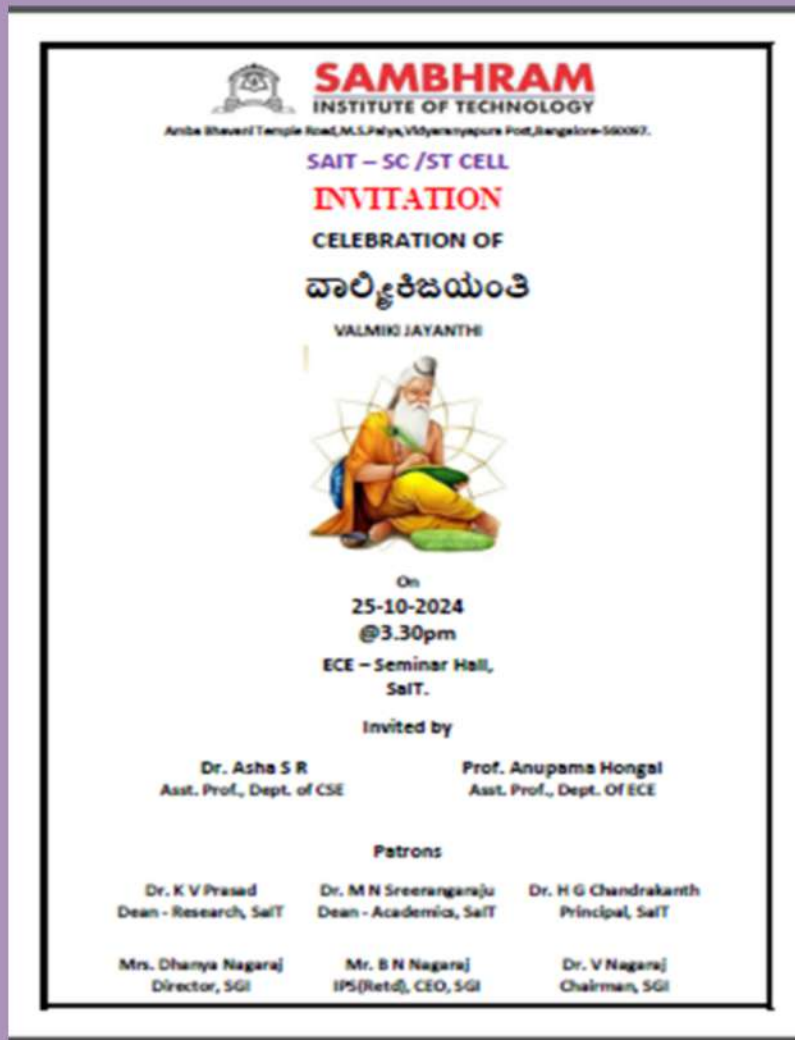
Venue: Auditorium

Time: 11:15 A.M. onwards

A Technical talk conducted on “Drone technology ” by ECE faculties on 25/9/24 coordinated by Prof.Sowndeswari & Prof. Anupama

October 2024

Valmiki Jayanti celebrations, coordinated by Prof. Anupama Hongal and Prof. S. Sowndeswari, took place on 25th October in the ECE seminar hall, attended by V semester students and all ECE faculty members.



World Mental Health Day" was observed on 15th October in the ECE seminar hall, coordinated by Prof. Anupama Hongal and Prof. S. Sowndeswari, with participation from both ECE students and faculty.



"World Mental Health Day" was observed on 15th October , 2024
Ayudha Pooja celebrations were held on 10th October for VII semester students and ECE faculty members on the third floor of the ECE department.



Ayudha Pooja celebrations on 10th October,2024

November 2024

Technical Talk conducted on 8/11/24 for V semester students on semiconductor the core of technological developments





AUGUST 2024

No.	Date	Type of Activity (Seminar / Workshop / Conference / Guest Lecturer / Industry Visit)	No. of Members Attended	Remarks
1	23.08.24	National Space Day	50	Speech by: Dr.K V Prasad, Dean- Research. Welcome speech – Prof.Srivani & Prof.Khamer Coordinated by – Prof.Natraj & Prof.Srivani
2.	2/8/24	Fees details submitted in principal office		IV semester Class coordinators –Prof Srivani & Anupama Hongal
3	2/8/24	Department Meeting conducted		Discussed about subject allocation & DHI updates
4	5/8/24	Tentative Academic calendar announced for upcoming Odd semester		
5	6/8/24	Foreign Students details submitted and updated in FRRO		
6	6/8/24	Vacation Matrix is finalized upcoming Odd semester		Head – Dr.Ravishankar C.V

5	6/8/24	Foreign Students details submitted and updated in FRRO		
6	6/8/24	Vacation Matrix is finalized		Head – Dr.Ravishankar C.V

SEPTEMBER 2024

N o.	Date	Type of Activity (Seminar / Workshop / Conference /Guest Lecturer / Industry Visit)	No. of Members Attended	Remarks
1	6/9/ 24	World suicide day prevention 2024 Power Aditya birla group initiative & SAIT Students mental health club	III semester students	Conducted by IIC Executor –Prof. Natraj Coordinator – Prof.Anupama

OCTOBER 2024

No.	Date	Type of Activity (Seminar / Workshop / Conference / Guest Lecturer / Industry Visit)	No. of Members Attended	Remarks
1	28/10/24 29/10/24 30/10/24	IA 1 conducted for VII, V, III semester students	255 students	
2.	15/10/24	Project batches informed to submit the KSCST Proposal & Journal Draft Copy	VII semester students	
3	25/10/24	Valmiki Jayanthi pooja & celebration	V semester students And all ECE faculties	Coordinator : 1.Prof.Anupama Hongal 2.Prof.S.Sowndeswari Place : ECE seminar hall
4	15/10/24	World Mental Health day	ECE students & faculties	Coordinator : 1.Prof.Anupama Hongal 2.Prof.S.Sowndeswari Place : ECE seminar hall
5	26/10/24	First review of Mini Project is scheduled	V semester students	
6	10/10/24	Ayudha Pooja celebration	VII semester students & ECE Faculties	III floor ECE department

NOVEMBER 2024

No.	Date	Type of Activity (Seminar / Workshop / Conference / Guest Lecturer / Industry Visit)	No. of Members Attended	Remarks
1	8-11-24	Five days Skill development program MoU signing ceremony with Cranes varsity	89 (V Sem students)	Coordinators Prof.Sowndeshwari Prof.Anupama Hongal
2	19-11-24 To 21-11-24	IA2 conducted	All 1st year handling faculties	
3	13-11-24	Blood donation camp announcement	VII semester students	@ Venakatesh Auditorium
4	19-11-24 to 23-11-24	5 days SDP on PCB design & MATLAB signal processing Supported by student chapters SaIT-IETE, ISTE,IEEE	III semester students	Resource persons : Ram Anjaneyalu Ms.Lakshmi vejandla ECE faculties participated
5	21-11-24	World Television day	V semester	Coordinator : Prof. Sowndeswari Prof.Anupama
6	21-11-24	Kanakadasa Jayanthi	All ECE students	ECE seminar hall Coordinator : Prof.Anupama
7	29-11-24	Research Talk –Deepfakes: Double edged sword of modern AI	All ECE students	Coordinator : Prof. Sowndeswari Prof.Anupama

DECEMBER 2024

No.	Date	Type of Activity (Seminar / Workshop / Conference / Guest Lecturer /Industry Visit)	No. of Members Attended	Remarks
1	5/12/24	SemiCon VLSI technical talk	All ECE faculties	Coordinated by Prof.Khmaer Prof.Srivani
2.	6/12/24	Food walk by Vth & III semester students	150	
3	7/12/24	ERP training @ CSE central lab	All ECE faculties	
4	9/12/24	Sambhramaotsava Offline events Tug of war & Musical chair	All ECE faculties	Shortisted Finalist- Dr.Shreesha, Prof.Nithiya, Prof.Prathiba
5	10/12/24	Sambhramaotsava Offline events Badminton & Mehndi		Prof.Srivani,Prof,Prathibha Prof.Anupama, Mrs.Summama Held @ CSE block & Badminton court
6	13/12/24	Technical Talk By Dr.Gowrish Basavarajappa,		Guest of honor from IIT Roorkee. Interview taken from Newsletter Coordinator - Prof.Nithiya
7	16/12/24 17/12/24 18/12/24	INTERNAL TEST II conduction	For III & V sem students	
8	18/12/24	Technical talk on IPR patent Filing by Zacco &R&D pvt .Ltd	All ECE faculties	Guest of Honor- Edwin selvaraj and team

9	19/12/24	VTU Lab internals conducted for IPCC subjects	V sem ECE students	
10	19/12/24 20/12/24	Industry field visit to BEL Nalanda	V sem ECE students	Prof.Natraj,Dr.Sowndeswari, Prof.Anupama
11	20/12/24	Rooman Technologies NSDC visit to SaIT		Coordinated by Prof.Nithiya & Dr.shreeshha – VII semester AIML batch Prof.Khamer & Prof.Bharath for VII semester : VLSI internship team
12	22/12/24	VTU Lab External exam started	All ECE faculties	
13	24/12/28	Christmas Eve conduction	All ECE faculties	Secret Santa Game - event Execution
14	26/12/24	Department meeting conducted	All ECE faculties	Details discussed: 1. Record corrections perfection required for faculties 2. Mini project report corrections should be looked into 3. Subject allotment regarding 4. Subject allotment 6th sem parallel subjects should be looked into 5. Steps to improve result for slow learners & action plan taken regarding 6. Counselling should be done regarding result improvement 7. Skill development course related proposal required
15	27/12/24	POSH Awareness program	ECE lady faculties	Coordinated by: Women cell department coordinators Prof.Nithiya & Prof.Khamer Unnisa



SAMBHRAM INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi And Approved By AICTE, New Delhi)
M.S. Palya, Vidyananyapura PO, Bengaluru - 560097

CERTIFICATE

This is to certify that Mr./Ms./Prof./Dr. Ms. C SRIVANI
Designation Assistant Professor, Department of ECE participated
in the "Faculty Orientation Program" held during August 9 and
10, 2024. Hope that the knowledge gained from this program will
serve you well in your future endeavour.

Dr. H.G. CHANDRAKANTH
Principal, SaIT

Dr. V. NAGARAJ
Chairman, SG



D.N.R. College of Engineering & Technology(Autonomous)

Affiliated to JNTUK, Kakinada, approved by AICTE New Delhi
Accredited by NBA and NAAC 'A++'
Bhimavaram - 534 202 Andhra Pradesh



Certificate of Participation

This certificate is awarded to C.Srivani of ECE Department in
recognition of your active participation in "Developing AI-Powered AR / VR
in the Metaverse Applications" between 21st to 25th October 2024. Your
participation, enthusiasm, and dedication have been an integral part of the
success.

Dr. S. Ravi Chand
Convener-IIC

Dr.K.Venu Gopal
HOD-ECE

[N. Venkata Rao]
[Dean Academics]

Dr.M.Anjan Kumar
Principal



Vel Tech Multi Tech

Dr.Rangarajan Dr.Sakunthala Engineering College
An Autonomous Institution



CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. C.SRIVANI, Assistant Professor
of Sambhram Institute of Technology has
participated in the six-day Online FDP on Future Trends and Design Challenges in 5G/6G
Wireless Technologies organized by the Department of Electronics and Communication at
Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi,
Chennai-600062, from 18.11.2024 to 23.11.2024.

HoD / ECE

Dr.E.N.Ganesh Ph.D
Principal



PLACEMENTS DETAILS



VIII semester ECE student Bhavana Reddy placed for the position of Quality Specialist at Amazon was held on December 5, 2024. The offered package details include a CTC of 3.6 LPA.



NEWS LETTER

**DEPARTMENT OF MECHANICAL
ENGINEERING**

AUGUST-2024 TO JANUARY-2025



DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established on 2002 and has an intake of 60. 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 PHD. 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.

Prof. JAGADEESH H

Successfully present the final PhD Defence at Jain College of Engineering & Technology Hubballi, on 16/01/2025 under the Guidance of Dr. Prashanth Banakar, Principal Jain College of Engineering & Technology Hubballi.



1. Attended Five day ATAL FDP on Navigation Climate Variability and Impacts for Effective Water Management, Disaster Preparedness, Resilience and Mitigation at Bharati Vidyapeeth's College Engineering for Women from 28/01/2025 to 03/02/2025
2. Attended Five day ATAL FDP on Transforming Industry 4.0 with Digital Twins: An Online FDP on
3. Enhancing Sustainability and Manufacturing Efficiency at NEW HORIZON COLLEGE OF ENGINEERING (E&T) from 16/12/2024 to 21/12/2024.



DR. MANJUNATH B B

1. Attended 5 days ATAL FDP Emerging Fuels and Technologies in Transport sector at SVCE from 16/12/2024 to 21/12/2024.
2. Attended Five day ATAL FDP on Sustainable Manufacturing Practices and Environmental Impact Optimization Techniques at Dayanand Sagar College of Engineering from 09/12/2024 to 14/12/2024.



DR.PADMINI B V

1.Attended Five day ATAL FDP on Transforming Industry 4.0 with Digital Twins: An Online FDP on Enhancing Sustainability and Manufacturing Efficiency at NEW HORIZON COLLEGE OF ENGINEERING (E&T) from 16/12/2024 to 21/12/2024.



2.Attended Five day ATAL FDP on Sustainable Manufacturing Practices and Environmental Impact Optimization Techniques at Dayanand Sagar College of Engineering from 09/12/2024 to 14/12/2024.

Conducted POSH awareness programme through women's cell at SaIT. on 27/12/2024

Prof. Chetan Kumar D S

1. Attended Five day ATAL FDP on Transforming Industry 4.0 with Digital Twins: An Online FDP on Enhancing Sustainability and Manufacturing Efficiency at NEW HORIZON COLLEGE OF ENGINEERING (E&T) from 16/12/2024 to 21/12/2024



Technical Talk on Innovation and Entrepreneurship delivered by Dr. P.Samathkumaran, Ex Director CPRI, Date: 29.10.2024.



Technical Talk on Career opportunities in NDT delivered by Mr. Shashidhar Pallakki, Director and CEO, Pallakki NDT PVT LTD: 12-11-2024



Department of Mechanical Engineering Conducted Industrial Visit for 3rd and 7th sem students on 24/12/2024 to R R Forgings Pvt. Ltd., Peenya III Phase, Bengaluru-560058



SAMBHRAM
INSTITUTE OF TECHNOLOGY

M. S. Palya, Jalahalli East, Bengaluru - 560022

DEPARTMENT OF MBA

AUGUST 2024 – JANUARY 2025

HOD's Message



Prof. C. R. Krishnaprasad
HOD - Department of MBA

Sambhram Institute of Technology MBA Department An introduction to the World of Corporate Welcome to the Best MBA College in Bangalore. Combining theoretical insights with practical experience, our program prepares students with the tools necessary for a competitive business environment.

Our curriculum imparts essential knowledge in fields like finance, marketing, HR, business analytics, and entrepreneurship, with prime focus on real-world learning via case studies, industry exposure, and live projects. Which you will begin to experience in this inspiring seminar, which our experienced faculty & vibrant learning environment encourages critical thinking, leadership & innovative.

We strive to create professionals who can adapt to changing market trends and excel in their careers. I encourage our students to embrace challenges, seize opportunities, and aim for excellence in all their endeavors.

Department of MBA

AUGUST 2024 - JANUARY 2025



The Department of MBA at Sambhram Institute of Technology (SaIT) offers a comprehensive management program affiliated with Visvesvaraya Technological University (VTU). Designed to equip students with essential business and leadership skills, the program provides specializations in Finance, Marketing, Human Resources, and Business Analytics. The curriculum integrates theoretical concepts with practical applications through case studies, industry projects, and interactive learning methods. With a strong emphasis on real-world exposure, students benefit from internships, guest lectures, and workshops that help them develop analytical and strategic thinking abilities.

Led by Prof. C R Krishna Prasad, the department has a team of experienced faculty members with academic and industry expertise. The well-equipped infrastructure, including smart classrooms, a modern library, and advanced computer labs, enhances the learning experience. The placement cell actively collaborates with reputed organizations, ensuring students receive ample internship and job opportunities. Additionally, career development programs focusing on soft skills, interview preparation, and corporate networking further strengthen students' readiness for the business world. With a blend of academic excellence, industry relevance, and career support, the MBA department at SaIT is a strong choice for aspiring management professionals.

Activities Organised by Department of MBA

1. Session on Angel investment/VC funding opportunity for early stage entrepreneurs - 20/08/2024

Dr. Charithra from BNMIT conducted a session on Angel Investment and VC Funding for early-stage entrepreneurs on August 20, 2024. She explained investor expectations, funding strategies, and common challenges. The session ended with a Q&A on fundraising and investor relations.



Bengaluru, Karnataka, India
Sambhram Institute of Technology
Lat 13.089802°
Long 77.545472°
30/08/24 11:00 AM GMT +05:30



Bengaluru, Karnataka, India
Sambhram Institute of Technology
Lat 13.089802°
Long 77.545472°
20/08/24 12:20 PM GMT +05:30

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES
IN ASSOCIATION WITH HC CELL-SAIT & ED CELL
you are cordially invited to

**GUEST TALK ON
WORLD ENTREPRENEUR DAY
GUEST SPEAKER**
Prof. Hemant Gowda
B.E Electrical and MBA Finance
Visiting Faculty

DATE: 30-Aug-2024
TIMINGS:
11:00 AM TO 1:00 PM

PRESIDED BY
DR. SREE RANGARAJU DEAN(ACADEMICS) DR. K.V. PRASAD DEAN(RESEARCH) DR. H.G. CHANDRAKANTH PRINCIPAL, SAIT

PATRONS
SMT. DHANYA NAGARAJ DIRECTOR, SGT SRI.K.N. NAGARAJ CEO, SGT DR. V. NAGARAJ CHAIRMAN, SGT

CONVENER
Prof. C.R. Krishna Prasad
Associate Professor, HOD, MBA, SAIT

COORDINATOR
Prof. Sheikh Nida Afreen A MBA, SAIT Prof. Vanishree G M MBA, SAIT Prof. Kanika MBA, SAIT

2. Guest Talk on Entrepreneurship Skill development among Students: 30/08/2024

Hemanth Gowda's guest talk on "Entrepreneurship Skill Development Among Students" on 30th August 2024 highlighted key entrepreneurial skills like creativity, problem-solving, and risk-taking. He discussed idea validation, market research, and financial management for startups. Sharing real-world experiences, he explained the challenges and rewards of entrepreneurship. The session ended with an interactive Q&A, providing students with valuable insights.

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES
IN ASSOCIATION WITH HC CELL-SAIT & ED CELL
you are cordially invited to

**ANGEL INVESTMENT OPPORTUNITY FOR
EARLY STAGE ENTREPRENEUR
GUEST SPEAKERS**
Dr. Charithra C M
Associate Professor
BNMIT, Bangalore

DATE: 20-Aug-2024
TIMINGS:
11:00 AM TO 4:00 PM

PRESIDED BY
DR. SREE RANGARAJU DEAN(ACADEMICS) DR. K.V. PRASAD DEAN(RESEARCH) DR. H.G. CHANDRAKANTH PRINCIPAL, SAIT

PATRONS
SMT. DHANYA NAGARAJ DIRECTOR, SGT SRI.K.N. NAGARAJ CEO, SGT DR. V. NAGARAJ CHAIRMAN, SGT

CONVENER
Prof. C.R. Krishna Prasad
Associate Professor, HOD, MBA, SAIT

COORDINATOR
Prof. Sheikh Nida Afreen A MBA, SAIT Prof. Vanishree G M MBA, SAIT Prof. Kanika MBA, SAIT

Activities Organised by Department of MBA

3. National Entrepreneurship Day - 31/10/2024

National Entrepreneurship Day on October 31, 2024, led by Hemanth Gowda, emphasized innovation and startup growth. The event included discussions, workshops, and networking sessions to support aspiring entrepreneurs. Successful business leaders shared insights, inspiring participants to take bold steps in their ventures.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES
WITH ASSOCIATION WITH NSS

You are cordially invited to

National Constitution Day

GUEST SPEAKER
Prof. Sanjay N
Visiting Faculty

Venue: Sambhram Institute of Technology, Department of MBA Date: 26/11/2024
Timing: 12:30 pm - 12:00 pm

CHIEF PATRONS

Smt. Dhanya Nagaraj Director, SGI	Sri B N Nagaraj IPS (Retd) CEO, SGI	Dr V Nagaraj Chairman, SGI
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PATRONS

Dr. K V Prasad Dean Research	Dr. Sree Ranganju Dean Academics	Dr. H G Chandrakant Principal, SAIT
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INVITED BY,

Prof. Shaikh Nisar Afsan A MBA-SAIT	Prof. Manjunath MBA-SAIT	Prof. C B Krishnaiah HOD - SAIT
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ORGANISER

Dr. K. Balakrishna
Program Officer, SGI

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES IN
ASSOCIATION WITH IIC-SAIT

You are cordially invited to

GUEST TALK ON NATIONAL ENTREPRENEURSHIP DAY

GUEST SPEAKER
Prof. Hemanth Gowda
EE Electrical and MBA Finance
Visiting Faculty

Venue: Sambhram Institute of Technology, Department of MBSA Date: 31/10/2024
Timing: 10:30 am - 02:00 pm

PRESIDED BY,

Dr. Sree Ranganju Dean Academics	Dr. K V Prasad Dean Research	Dr. H G Chandrakant Principal, SAIT
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PATRONS

Smt. Dhanya Nagaraj Director, SGI	Sri B N Nagaraj CEO, SGI	Dr V Nagaraj Chairman, SGI
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CONVENER

Prof. C B Krishnaiah
Associate professor & HOD -
Department of MBA

COORDINATORS

Prof. Vandana G M MBA-SAIT	Prof. Sanku MBA-SAIT
Prof. Shaikh Nisar Afsan A MBA-SAIT	Prof. Nayya J A MBA-SAIT

4. National Constitution Day - 26/11/2024

National Constitution Day, observed on November 26, marks the adoption of the Indian Constitution in 1949. It honors Dr. B.R. Ambedkar and promotes awareness of constitutional values. The day is celebrated with readings, discussions, and educational programs.

Activities Organised by Department of MBA

5. Session on the Basics of IPR and its importance for innovators and entrepreneurs - 29/11/2024

The session on Basics of IPR by Prof. Jeevitha M on November 29, 2024, covered key concepts like patents, copyrights, and trademarks. It emphasized how IPR protects innovation and benefits entrepreneurs. Real-world examples showcased its impact on business growth. The session ended with a Q&A on filing procedures and IP management.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES

You are cordially invited to
Orientation Week for 1st year MBA Students
2024 - 26 Batch

Venue: Sambhram Institute of Technology, Department of MBA Date: 23/12/2024
Time: 09:30 am - 03:00 pm

CHIEF PATRONS

San. Dhanya Nagaraj Director, SGI	Dr. B. N. Nagaraj IPS (Retd) CEO, SGI	Dr. V. Nagaraj Chairman, SGI
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PATRONS

Dr. K. V. Prasad Dean Research	Dr. Sree Rangaraju Dean Academics	Dr. H. S. Chandrakant Principal, SAIT
-----------------------------------	--------------------------------------	--

INVITED BY

Prof. C. R. Krishnagoudar
HOD - SAIT

COORDINATORS

Prof. Shaik Nida Aheen A MBA-SAIT	Prof. Naveya J A MBA-SAIT
Prof. Kanika MBA-SAIT	Prof. Vinodine S. M MBA-SAIT

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES
WITH ASSOCIATION WITH IIC- SAIT

You are cordially invited to
Session on the "Basics of Intellectual Property Rights and its importance for Innovators and Entrepreneurs"

GUEST SPEAKER
Prof. Jeevitha M
Assistant Professor, BIT

Date: 29/11/2024
Time: 11:15 am - 12:00 pm

CHIEF PATRONS

San. Dhanya Nagaraj Director, SGI	Dr. B. N. Nagaraj IPS (Retd) CEO, SGI	Dr. V. Nagaraj Chairman, SGI
--------------------------------------	--	---------------------------------

PATRONS

Dr. K. V. Prasad Dean Research	Dr. Sree Rangaraju Dean Academics	Dr. H. S. Chandrakant Principal, SAIT
-----------------------------------	--------------------------------------	--

INVITED BY

Prof. Shaik Nida Aheen A MBA-SAIT	Prof. Naveya J A MBA-SAIT	Prof. Kanika MBA-SAIT	Prof. C. R. Krishnagoudar HOD - SAIT
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6. 1 Week Student orientation Program - 23/12/2024 - 28/12/2024

The MBA Department at Sambhram Institute of Technology will host a one-week Student Orientation Program from December 23 to 28, 2024. The program will introduce students to the curriculum, faculty, and campus resources. It includes guest lectures, workshops, and team-building activities to enhance learning. Networking opportunities and mentorship will support student adaptation. The goal is to prepare students for a successful MBA journey.

Activities Organised by Department of MBA

7. Street Play on National Human Rights Day - 06/01/2025

On National Human Rights Day (Jan 6, 2025), 1st-semester MBA students performed a street play to raise awareness about fundamental rights. The play highlighted gender equality, freedom of speech, and anti-discrimination through powerful performances. The audience responded with enthusiasm and appreciation. The event successfully educated and inspired people.



SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES

You are cordially invited to
Guest Talk on National Startup Day
With Association with IIC - SAIT

Guest Speaker,
Dr. Suresh A. Shah
Chairman CSI-Mumbai,
Advisory ABCTE

Date: 27/01/2025
Time: 11:30 AM - 02:30 PM

Venue: Sambhram Institute of Technology,
Conference Hall

CHIEF PATRONS

Smt. Chinyra Nagaraj
Director, IIC

Dr. V. Nagaraj
Chairman, IIC

PATRONS

Dr. Sree Rangappa
Dean Academics

Dr. H.S. Chandrabasiah
Principal, SAIT

INVITED BY

Prof. C.R. Krishnaswami
HOD MBA - SAIT

COORDINATORS

Prof. Shashi Anand A
MBA - SAIT

Prof. Anjya J.A
MBA - SAIT

Prof. Kanika
MBA - SAIT

Prof. Vashtive G. H
MBA - SAIT

8. Guest Talk on National Startup Day - 27/01/2025

On January 27, 2025, Mr. Suresh A. Shah delivered a Guest Talk on National Startup Day at Sambhram Institute of Technology. He highlighted the importance of innovation, challenges in startups, and government support programs. The session ended with an interactive Q&A, inspiring students to pursue entrepreneurship.

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MANAGEMENT STUDIES

You are cordially invited to
Street Play by 1st Semester MBA students on "Human Rights Day"

THE POWER OF VOICE

Venue: Sambhram Institute of Technology,
Near Dolphin Fountain

Date: 06/01/2025
Time: 12:45 pm - 01:30 pm

CHIEF PATRONS

Smt. Chinyra Nagaraj
Director, IIC

Dr. V. Nagaraj
Chairman, IIC

PATRONS

Dr. Sree Rangappa
Dean Academics

Dr. H.S. Chandrabasiah
Principal, SAIT

INVITED BY

Prof. C.R. Krishnaswami
HOD MBA - SAIT

COORDINATORS

Prof. Shashi Anand A
MBA - SAIT

Prof. Anjya J.A
MBA - SAIT

Prof. Kanika
MBA - SAIT

Prof. Vashtive G. H
MBA - SAIT

Industrial Visit

1. Orient Bells - 07/10/2024

On October 10, 2024, students from Sambhram Institute of Technology's MBA department visited Orient Bell, a leading tile manufacturing company, for an industrial tour. The visit provided insights into the tile production process, including raw material selection, digital printing technology, and quality control measures. Experts from the company explained the importance of innovation, automation, and sustainability in modern manufacturing. Students also gained exposure to supply chain management and marketing strategies employed by Orient Bell in the competitive market. The visit was an enriching experience, enhancing their practical understanding of business operations and industrial practices.



Workshop

1. Smart Money Moves by Fintopedia - 09/01/2025

The Smart Money Moves workshop by Fintopedia on January 9, 2025, covered budgeting, saving, investing, and debt management. Experts shared smart investment strategies for different risk levels. Interactive discussions highlighted common financial mistakes and solutions. The session provided practical tools for wealth building.



Extra - Curricular Activities

1. Management Games - 08/08/2024

The Management Games on August 8, 2024, by 2nd semester MBA students focused on teamwork, leadership, and problem-solving. Students participated in strategic activities simulating real-world business challenges. The event fostered collaboration, critical thinking, and peer learning in a fun, practical way.



2. Teacher's Day celebration - 05/09/2024

The 4th and 2nd semester MBA students celebrated Teacher's Day on September 5, 2024, with cultural performances and gratitude-filled speeches. Professors were honored with tokens of appreciation and inspiring words. The event concluded with a vote of thanks, making it a memorable occasion.

Faculty Development Programme Attended by Faculties

Prof. Vanishree G M attended FDP by Jain College - 27/08/2024



Prof. Kanika attended FDP by Jain College - 27/08/2024



Paper Presentation by Facultyies

Prof. C R Krishnaprasad attended Paper Presentation at IIM - 26/08/2024 & 29/08/2024



Prof. Vanishree G M attended Paper Presentation at Shri Dharmasthala Manjunatheshwara Institute for Management Studies- 25/10/2024



Prof. Vanishree G M attended Paper Presentation at IIM - 26/08/2024 & 29/08/2024



Prof. Kanika attended Paper Presentation at Shri Dharmasthala Manjunatheshwara Institute for Management Studies- 25/10/2024



Prof. Kanika attended Paper Presentation at IIM - 26/08/2024 & 29/08/2024



Awards and Recognitions

Prof. Vanishree G M was awarded with Best Teacher Award by Mr. Narayan Murthy on 11/09/2024



Workshop attended by Faculties

Prof. Kanika attended AI tools for enhancing classroom teaching - 13/11/2024 & 14/11/2024



Other Programmes attended by Faculties

Prof. Sheikh Nida Afreen A Attended
Faculty Orientation Program by SaIT -
09/08/2024 - 10/08/2024



Prof. Sheikh Nida Afreen A attended
POSH Awareness Programme by Women
Cell in SaIT - 28/12/2024



Prof. Vanishree G M attended POSH
Awareness Programme by Women Cell in
SaIT - 28/12/2024



Prof. Navya J A attended POSH Awareness
Programme by Women Cell in SaIT -
28/12/2024



Prof. Kanika attended POSH Awareness
Programme by Women Cell in SaIT -
28/12/2024





ISSUE 2

SAMBHRAM INSTITUTE OF TECHNOLOGY

AUG - JAN

Information Science and Engineering department



In this newsletter:

SDP's, Tech visits,
Hackathons and many
more.....

Vision

To impart high quality professional training with sound footing on basic principles of Information Technology and to promote cutting edge research in the fast changing field. To make our students technologically superior and ethically strong, who in turn contribute to the advancement of society and mankind

Mission

To evolve as a Centre of Excellence by offering technical education and research opportunities of the highest standards, fostering the holistic development of individuals, and facilitating their transformation into well-rounded, capable contributors to society.

Short Term Goals

- To strive towards Institute-Industry interaction
- To encourage students and staff to pursue research.
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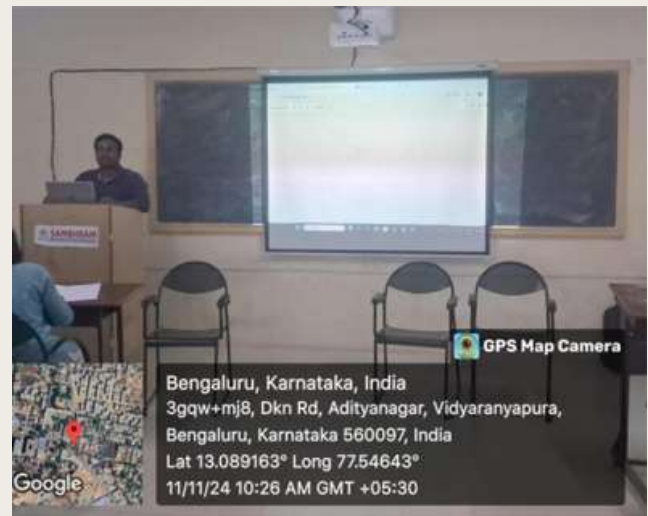
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Workshop on Advanced Java – Bridging the Gap Between Theory and Industry



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The workshop was formally inaugurated by Dr. Latha P H, HOD of ISE, in the presence of faculty members and enthusiastic students. Prof. Chaithra V S, Assistant Professor, Department of ISE, coordinated the inaugural session. In her opening remarks, Dr. Latha P H emphasized the importance of continuous learning, encouraging students to adapt to new technologies and leverage workshops like these to enhance their career prospects in software development.



Key takeaways from the workshop:

- ✓ Hands-on training in Advanced Java, covering Servlets, JSP, JDBC, and web development frameworks.
- ✓ Practical implementation of Java-based enterprise applications to strengthen problem-solving skills.
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Exploring the Frontiers of Space Technology

The visit was an eye-opening experience, giving students insights into the cutting-edge technologies used in satellite development and space exploration. Experts at URSC guided students through various sections of the research center, explaining the design, manufacturing, and testing of satellites that contribute to India's space missions.

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Inspiring the Next Generation of Innovators

The visit to the Tech Summit served as a motivational experience, encouraging students to explore new technologies, enhance their skills, and innovate beyond limits. It was an excellent opportunity to connect with industry experts and gain hands-on insights. The Department of ISE remains committed to providing such enriching experiences, ensuring that students are industry-ready and equipped with knowledge that goes beyond textbooks.



POSH Awareness Program: Empowering Women Through Knowledge



The Women's Cell – SaIT successfully conducted the POSH Awareness Program on 27th December 2024 at the New Conference Hall, Sambhram Institute of Technology (SaIT). The event was designed to educate and empower faculty, staff, and students about the Prevention of Sexual Harassment (POSH) Act, 2013, ensuring a safe and inclusive environment for all.

Keynote Speaker: Anitha S

The session was led by Ms. Anitha S, a Practitioner Coach in NLP and Executive Work, who provided insightful perspectives on workplace safety, legal rights, and strategies to prevent harassment. Through her expertise, attendees gained a deeper understanding of gender sensitivity and the importance of a harassment-free academic and professional space.



The session covered critical topics, including:

- Understanding sexual harassment and recognizing inappropriate workplace behavior.
- The importance of reporting incidents without fear of retaliation.
- The legal framework of the POSH Act, including complaint mechanisms and redressal processes.
- Breaking the stigma surrounding discussions on harassment and fostering a culture of open communication.

The Women's Cell remains committed to fostering a culture of respect, equality, and safety, ensuring that every individual is aware of their rights and responsibilities. The POSH Awareness Program was a significant step toward creating an environment where everyone feels safe, valued, and empowered.



With the support of esteemed faculty members and organizers, the POSH Awareness Program successfully underscored the importance of knowledge and vigilance in safeguarding the workplace. By fostering awareness and promoting proactive measures, Sambhram Institute of Technology continues to uphold its commitment to safety, respect, and inclusivity within its academic community.





*STUDENT SPOTLIGHT: ACHIEVEMENTS,
EXPERIENCES & INNOVATIONS*

Recognizing leaderships in AI, hackathons and more

Leadership in AI Education

Manasa S from 4th Semester ISE demonstrated exceptional leadership in the successful execution of the workshop "AI for Students: Build Your Own Generative AI Model", conducted by AI expert Mr. Abhinav Devaguptapu. Her dedication and organizational skills played a key role in ensuring the smooth delivery of this hands-on learning experience, equipping students with essential AI skills. Her contribution reflects a strong commitment to fostering technical growth and innovation within the academic community.



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Sambhram Institute of Technology proudly acknowledges the commendable participation of M.S., Anjali, Afreen Taj, and Manasa S in the Internal Smart India Hackathon held on 18th & 19th September 2024. Their dedication, problem-solving skills, and innovative approach set them apart as emerging talents in the field of technology.

Their active engagement in the hackathon reflects their technical acumen and teamwork, demonstrating a strong ability to tackle real-world challenges. By participating in this prestigious event, they have further strengthened their expertise and readiness for future competitions.



From Ideas to Impact: The ISE Hackathon Journey



The students of the Department of Information Science and Engineering (ISE) recently participated in a prestigious hackathon held at RR Institute of Technology, where they showcased their technical skills, problem-solving abilities, and innovative thinking. Competing against some of the best minds, our students pushed boundaries and delivered outstanding solutions to real-world challenges.

- ✓ Diverse Problem Statements – Participants tackled real-world challenges in AI, cybersecurity, automation, and smart applications.
- ✓ Expert Mentorship – Industry professionals guided teams, providing valuable insights and technical expertise.
- ✓ Competitive Spirit – Students collaborated and coded under high-pressure conditions to develop practical solutions.
- ✓ Innovative Solutions – Our teams worked on impactful projects ranging from AI-driven security systems to data driven automation tools.



Research paper Publication



International Journal for Multidisciplinary Research (IJFMR)

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Building a Web-Based Password Manager Using the MERN Stack: A Fundamental Approach

Chaithra V S¹, Vinay N², Rishikesh Ranjan³, Raghavendra P⁴,
Raunak Thakur⁵

¹Assistant Professor, Sambhram Institute of Technology
^{2,3,4,5}UG Students, Sambhram Institute of Technology

Abstract

This paper presents the design and implementation of a basic password manager web application. Built using the MERN stack, the project focuses on providing essential functionalities for managing user credentials. While it lacks advanced security measures like encryption, the project serves as a practical educational tool for understanding full-stack development principles. Inspired by the IEEE paper Improving Web Application Development Course by Natheer Khalif Gharaibeh, this research discusses the system architecture, implementation details, limitations, and potential future enhancements



Project Title: Fundamental Approach to Manager SMG

Guide: Prof. Chaithra V S (Assistant Professor), Sambhram Institute of Technology

Students: Vinay N , Rishikesh Ranjan , Raghavendra P , Raunak Thakur

Research paper Publication and presentation

Analysis of MTC Data Traffic Over TCP in 5G Wireless Networks

Harshitha B¹, Vinisha K² and Goudru N G³[0000-0003-0712-3591]

¹Sambhram Institute of Technology (affiliated to Vissveshvaraya Technological University),
Bengaluru, India

Harshithabasavaraju4@gmail.com, vinishak04@gmail.com,
nggoudru@gmail.com

Abstract

5G wireless networks accommodate a variety of traffic types generated by applications on different devices. These include traditional data traffic from protocols like HTTP, FTP, and video streaming, as well as human-type communication (HTC) and machine-type communication (MTC). MTC uses sensors, actuators, and other devices that produce data in a periodic or event-driven manner, adding variability to traffic patterns [1]. This study investigates how MTC

traffic loads impact Transmission Control Protocol (TCP) performance within a 5G network, focusing on periodic MTC traffic. Traffic control at the base station is achieved through a Random Early Detection (RED) router to manage congestion. Building on previous research [1], the study analyses TCP sender window dynamics, round-trip time (RTT) delays, queue behavior, and packet loss rates in various MTC traffic scenarios. Python is used for visual and statistical analysis, aiming to enhance network performance and maintain Quality of Service (QoS) through

efficient resource allocation.

Key Findings of the Study

The research examines various aspects of TCP performance in handling MTC traffic, focusing on:

- Impact of Periodic MTC Traffic on TCP Window Size – Analyzing how TCP adjusts its sender window size based on fluctuating MTC data flow.
- Round-Trip Time (RTT) Delays – Studying the delay variations when MTC traffic increases, affecting response times.
- Queue Behavior in Network Routers – Exploring how Random Early Detection (RED) routers help manage congestion before network overload occurs.
- Packet Loss Analysis – Investigating the effect of network congestion on packet loss rates, a critical factor for maintaining Quality of Service (QoS) in MTC applications.

Project Title: Analysis of MTC Data Traffic Over TCP in 5G Wireless Networks

Guided by: Dr. Goudru N G

Presented by: Harshitha B & Vinisha K

Research paper Publication

Optimizing TCP Performance and QoS in Mobile Wireless Communications through Prioritized Hard Handoff (PH2)

Akshatha A¹, Bhuvana Gowda N U², Goudru N G³[0000-0003-0712-3591]

^{1,2,3} Department of Information Science and engineering, Sambhram Institute of Technology (affiliated to Visvesvaraya Technological University), Bangalore, India.

akshatha26akki@gmail.com, bhuvananu2003@gmail.com, nggoudru@gmail.com

Project Title: Optimizing TCP Performance and QoS in Mobile Wireless Communications through Prioritized Hard Handoff (PH2)

Guide: Dr Goudru N G

Students: Akshatha A & Bhuvana Gowda N U

Abstract

The internet is changing as a result of extensive integration of wireless networks and mobile computers into already-existing infrastructures. This transformation, however, brings forth inherent challenges: bandwidth constraints, latency spikes, error-prone connections, and frequent disconnections, all exacerbating network losses during handoffs. Compounding these issues, TCP performance degrades in wireless settings. Our paper tackles these complexities by presenting a novel approach to improve end-to-end reliable transport in mobile wireless environments. Based on a novel methodology based on the normalized delay gradient (NDG) loss predictor function, we enable mobile hosts and base stations to dynamically modify sender window sizes in response to different types of losses, such as congestion or handoff-induced losses. This adaptive strategy preserves TCP's integrity end-to-end while optimizing network-layer operations. Using stochastic modeling, we thoroughly examine crucial parameters, including handoff call rates, blocking probabilities, loss attribution (congestion vs. handoff), sender window dynamics, router queue lengths, throughput metrics, and impacts of congestion and handoff-induced losses. Our findings provide avenues to mitigate handoff-related call drops and provide accurate, forward-looking solutions for mobile wireless systems.



Certificate of Participation

This is to certify that Dr. / Mr. / Ms.

Ms. Akshatha A

has participated in the International Conference on
"Advance Communications and Machine Intelligence (MICA)"
organized by Mahindra University, Hyderabad.


Arun Kumar Pujari
General Chair



Akshata A, Bhuvana Gowda N U, Vinisha K and Harshita B dedicated students from the Information Science and Engineering Department of Sambhram Institute of Technology, showcased their academic excellence by participating in the prestigious International Conference on Advance Communications and Machine Intelligence (MICA), organized by Mahindra University, Hyderabad, under the guidance of **Dr. N G Goudru** .

This esteemed conference brought together researchers, academicians, and industry professionals to discuss advancements in communication technologies and machine intelligence. Their participation reflects a strong commitment to research and highlights the institution's emphasis on fostering innovation and knowledge exchange.

Supported by reputed organizations like SERB, ACM, and TICE, the conference provided valuable insights into emerging technologies, trends, and real-world applications. Such engagements enable students and faculty to contribute to technological progress while expanding their professional networks.

Sambhram Institute of Technology takes pride in its students' active involvement in international academic forums, encouraging them to excel in research and innovation.

The background of the page is a light cream color, decorated with a pattern of small, five-pointed stars. The stars are scattered across the page, with a higher density on the right side. They come in two colors: a vibrant teal and a dark navy blue. The overall effect is a subtle, celebratory pattern.

*FACULTY SPOTLIGHT: FACULTY EXCELLENCE
AND CONTINUOUS LEARNING*

Faculty Development Program Participation

We commend Sowmyashree C S, Assistant Professor, ISE Department for successfully participating in the Faculty Development Program on "Data Visualization Lab (BAIL604)." Her engagement in advanced data visualization techniques reflects her dedication to academic and professional growth, contributing to the institution's commitment to excellence.



Prof. Sowmyashree C S has successfully completed a Faculty Development Program (FDP) on Full Stack Development using the .NET framework. The program covered key aspects of backend and frontend development, API integration, database management, and deployment strategies within the .NET ecosystem. Her participation enhances the Department of Information Science and Engineering's focus on modern software development methodologies. By applying these concepts, she can provide students with industry-relevant insights, bridging the gap between academic learning and real-world full-stack development practices.

Faculty Development Program Participation

Chaithra V S, Assistant Professor, ISE Department from Sambhram Institute of Technology was one of the participants who successfully completed this FDP. The training covered fundamentals of Machine Learning, AI algorithms, real-world applications, and hands-on projects to equip educators with modern AI teaching methodologies.



Artificial Intelligence (AI) is revolutionizing every industry, and academic institutions are at the forefront of integrating AI into education. Recognizing the need for faculty to stay updated with cutting-edge technologies, an International Faculty Development Program (FDP) on Machine Learning and Artificial Intelligence was conducted from August 12 to August 19, 2024.

The 10-hour intensive training was organized by Pimpri Chinchwad College of Engineering and Research (PCCOER), Pune, in collaboration with Sri Venkateswara Degree College, Andhra Pradesh; SJB Institute of Technology, Bangalore; Sri Indu PG College, Hyderabad, and ExcelR Edtech Pvt. Ltd. The program provided a platform for faculty members to enhance their knowledge and practical skills in AI-driven technologies.

By engaging in such advanced learning programs, faculty members are better prepared to guide students in AI research and industry-oriented projects. This initiative highlights the commitment to fostering innovation and excellence in education, ensuring that academic institutions produce AI-skilled graduates ready for the future workforce.



Faculty Development Program Participation

The Department of Information Science and Engineering at Sambhram Institute of Technology takes pride in the dedication and continuous learning of its faculty. Sowmya N S, Assistant Professor, ISE Department has demonstrated exceptional commitment to academic excellence and professional growth, further enriching the institution with her expertise and knowledge.



- Prestigious Collaboration: Organized by Pimpri Chinchwad College of Engineering and Research, Pune, along with Sri Venkateswara Degree College, SJB Institute of Technology, Sri Indu PG College, and ExcelR Edtech Pvt. Ltd.
- Focus on AI & ML: FDP covered advancements in Machine Learning and AI, emphasizing industry trends, research methodologies, and innovative teaching techniques.
- Commitment to Excellence: Sambhram Institute of Technology ensures faculty stay updated with the latest technologies for enhanced student learning.



- MongoDB FDP (April 16–18, 2024)
- Organizer: Sai Vidya Institute of Technology, Bengaluru, in association with VTU Belagavi.
- Key Topics: Project-based hands-on training on MongoDB, real-world applications in data management and software development.
- Outcome: Faculty gained technical expertise and improved teaching methodologies.



- Gen-AI & Prompt Engineering FDP (Sept 16–20, 2024)
- Organizer: BNMIT, D.Y. Patil Agriculture and Technical University, Marwadi University, in collaboration with ExcelR Edtech Pvt. Ltd.
- Focus: Generative AI, Prompt Engineering, and Microsoft Co-Pilot for AI-driven applications.
- Learning Methods: Interactive sessions, hands-on exercises, and expert discussions on AI in automation and decision-making.
- Impact: Strengthened faculty expertise in AI, ensuring students stay updated with cutting-edge technologies.



Honoring Excellence: Prof. Pankaja B Receives Best Teacher Award on Teacher's Day & Founder's Day 2024

The Sambhram Institute of Technology proudly celebrated Teacher's Day & Founder's Day 2024, recognizing the dedication and contributions of its faculty members. On this prestigious occasion, Prof. **Pankaja B**, Assistant Professor in the Department of Information Science and Engineering, was honored with the **Best Teacher** Award for her unwavering commitment to academic excellence, mentorship, and student empowerment.



The highlight of the event was the award being presented by none other than **Mr. Narayana Murthy**, the esteemed **founder of Infosys**, a visionary leader in the world of technology and entrepreneurship. His presence added immense prestige to the occasion, inspiring both faculty and students alike.

This recognition stands as a testament to her passion for teaching, dedication to student success, and contributions to the field of education. The Sambhram Institute of Technology congratulates Prof. Pankaja B on this well-deserved honor and looks forward to many more years of her inspiring service to the academic community.



Turning Dreams into Reality: ISE Students Excel in Campus Placements

The Department of Information Science and Engineering (ISE) at Sambhram Institute of Technology is proud to announce the successful placements of its talented students in reputed companies. Their dedication, technical expertise, and perseverance have led them to secure remarkable positions in the industry.

Vinisha K has been placed at **Amazon** as a **Quality Specialist** during the campus recruitment drive held on December 5, 2025.

Aabha Pandey has been selected by **Infosys** for the **role of MS Engineer** during the placement drive was conducted on February 13, 2025.

Shrea K N has also secured a position at **Infosys** as a **Systems Engineer** through the same placement drive on February 13, 2025.

These achievements reflect the department's commitment to academic excellence, hands-on training, and industry readiness. The faculty and placement cell continue to guide students toward promising career opportunities, ensuring they step into the professional world with confidence and competence. Congratulations to all the placed students! May this success be the stepping stone to even greater accomplishments in their careers.



ISSUE 2

SAMBHRAM INSTITUTE OF TECHNOLOGY

AUG - JAN

Information Science and Engineering department



In this newsletter:

SDP's, Tech visits,
Hackathons and many
more.....

Vision

To impart high quality professional training with sound footing on basic principles of Information Technology and to promote cutting edge research in the fast changing field. To make our students technologically superior and ethically strong, who in turn contribute to the advancement of society and mankind

Mission

To evolve as a Centre of Excellence by offering technical education and research opportunities of the highest standards, fostering the holistic development of individuals, and facilitating their transformation into well-rounded, capable contributors to society.

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- To strive towards Institute-Industry interaction
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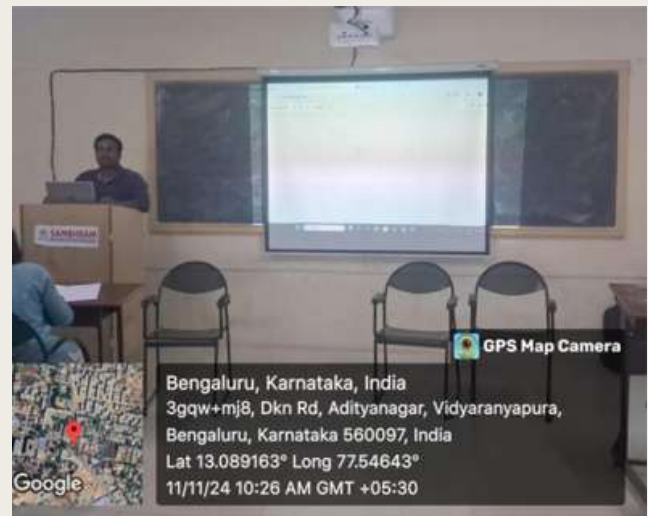


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Project Title: Fundamental Approach to Manager SMG

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nggoudru@gmail.com

Abstract

5G wireless networks accommodate a variety of traffic types generated by applications on different devices. These include traditional data traffic from protocols like HTTP, FTP, and video streaming, as well as human-type communication (HTC) and machine-type communication (MTC). MTC uses sensors, actuators, and other devices that produce data in a periodic or event-driven manner, adding variability to traffic patterns [1]. This study investigates how MTC

traffic loads impact Transmission Control Protocol (TCP) performance within a 5G network, focusing on periodic MTC traffic. Traffic control at the base station is achieved through a Random Early Detection (RED) router to manage congestion. Building on previous research [1], the study analyses TCP sender window dynamics, round-trip time (RTT) delays, queue behavior, and packet loss rates in various MTC traffic scenarios. Python is used for visual and statistical analysis, aiming to enhance network performance and maintain Quality of Service (QoS) through

efficient resource allocation.

Key Findings of the Study

The research examines various aspects of TCP performance in handling MTC traffic, focusing on:

- Impact of Periodic MTC Traffic on TCP Window Size – Analyzing how TCP adjusts its sender window size based on fluctuating MTC data flow.
- Round-Trip Time (RTT) Delays – Studying the delay variations when MTC traffic increases, affecting response times.
- Queue Behavior in Network Routers – Exploring how Random Early Detection (RED) routers help manage congestion before network overload occurs.
- Packet Loss Analysis – Investigating the effect of network congestion on packet loss rates, a critical factor for maintaining Quality of Service (QoS) in MTC applications.

Project Title: Analysis of MTC Data Traffic Over TCP in 5G Wireless Networks

Guided by: Dr. Goudru N G

Presented by: Harshitha B & Vinisha K

Research paper Publication

Optimizing TCP Performance and QoS in Mobile Wireless Communications through Prioritized Hard Handoff (PH2)

Akshatha A¹, Bhuvana Gowda N U², Goudru N G³[0000-0003-0712-3591]

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Project Title: Optimizing TCP Performance and QoS in Mobile Wireless Communications through Prioritized Hard Handoff (PH2)

Guide: Dr Goudru N G

Students: Akshatha A & Bhuvana Gowda N U

Abstract

The internet is changing as a result of extensive integration of wireless networks and mobile computers into already-existing infrastructures. This transformation, however, brings forth inherent challenges: bandwidth constraints, latency spikes, error-prone connections, and frequent disconnections, all exacerbating network losses during handoffs. Compounding these issues, TCP performance degrades in wireless settings. Our paper tackles these complexities by presenting a novel approach to improve end-to-end reliable transport in mobile wireless environments. Based on a novel methodology based on the normalized delay gradient (NDG) loss predictor function, we enable mobile hosts and base stations to dynamically modify sender window sizes in response to different types of losses, such as congestion or handoff-induced losses. This adaptive strategy preserves TCP's integrity end-to-end while optimizing network-layer operations. Using stochastic modeling, we thoroughly examine crucial parameters, including handoff call rates, blocking probabilities, loss attribution (congestion vs. handoff), sender window dynamics, router queue lengths, throughput metrics, and impacts of congestion and handoff-induced losses. Our findings provide avenues to mitigate handoff-related call drops and provide accurate, forward-looking solutions for mobile wireless systems.



Certificate of Participation

This is to certify that Dr. / Mr. / Ms.

Ms. Akshatha A

has participated in the International Conference on
"Advance Communications and Machine Intelligence (MICA)"
organized by Mahindra University, Hyderabad.


Arun Kumar Pujari
General Chair



Akshata A, Bhuvana Gowda N U, Vinisha K and Harshita B dedicated students from the Information Science and Engineering Department of Sambhram Institute of Technology, showcased their academic excellence by participating in the prestigious International Conference on Advance Communications and Machine Intelligence (MICA), organized by Mahindra University, Hyderabad, under the guidance of **Dr. N G Goudru** .

This esteemed conference brought together researchers, academicians, and industry professionals to discuss advancements in communication technologies and machine intelligence. Their participation reflects a strong commitment to research and highlights the institution's emphasis on fostering innovation and knowledge exchange.

Supported by reputed organizations like SERB, ACM, and TICE, the conference provided valuable insights into emerging technologies, trends, and real-world applications. Such engagements enable students and faculty to contribute to technological progress while expanding their professional networks.

Sambhram Institute of Technology takes pride in its students' active involvement in international academic forums, encouraging them to excel in research and innovation.



*FACULTY SPOTLIGHT: FACULTY EXCELLENCE
AND CONTINUOUS LEARNING*

Faculty Development Program Participation

We commend Sowmyashree C S, Assistant Professor, ISE Department for successfully participating in the Faculty Development Program on "Data Visualization Lab (BAIL604)." Her engagement in advanced data visualization techniques reflects her dedication to academic and professional growth, contributing to the institution's commitment to excellence.



Prof. Sowmyashree C S has successfully completed a Faculty Development Program (FDP) on Full Stack Development using the .NET framework. The program covered key aspects of backend and frontend development, API integration, database management, and deployment strategies within the .NET ecosystem. Her participation enhances the Department of Information Science and Engineering's focus on modern software development methodologies. By applying these concepts, she can provide students with industry-relevant insights, bridging the gap between academic learning and real-world full-stack development practices.

Faculty Development Program Participation

Chaithra V S, Assistant Professor, ISE Department from Sambhram Institute of Technology was one of the participants who successfully completed this FDP. The training covered fundamentals of Machine Learning, AI algorithms, real-world applications, and hands-on projects to equip educators with modern AI teaching methodologies.



Artificial Intelligence (AI) is revolutionizing every industry, and academic institutions are at the forefront of integrating AI into education. Recognizing the need for faculty to stay updated with cutting-edge technologies, an International Faculty Development Program (FDP) on Machine Learning and Artificial Intelligence was conducted from August 12 to August 19, 2024.

The 10-hour intensive training was organized by Pimpri Chinchwad College of Engineering and Research (PCCOER), Pune, in collaboration with Sri Venkateswara Degree College, Andhra Pradesh; SJB Institute of Technology, Bangalore; Sri Indu PG College, Hyderabad, and ExcelR Edtech Pvt. Ltd. The program provided a platform for faculty members to enhance their knowledge and practical skills in AI-driven technologies.

By engaging in such advanced learning programs, faculty members are better prepared to guide students in AI research and industry-oriented projects. This initiative highlights the commitment to fostering innovation and excellence in education, ensuring that academic institutions produce AI-skilled graduates ready for the future workforce.



Faculty Development Program Participation

The Department of Information Science and Engineering at Sambhram Institute of Technology takes pride in the dedication and continuous learning of its faculty. Sowmya N S, Assistant Professor, ISE Department has demonstrated exceptional commitment to academic excellence and professional growth, further enriching the institution with her expertise and knowledge.



- Prestigious Collaboration: Organized by Pimpri Chinchwad College of Engineering and Research, Pune, along with Sri Venkateswara Degree College, SJB Institute of Technology, Sri Indu PG College, and ExcelR Edtech Pvt. Ltd.
- Focus on AI & ML: FDP covered advancements in Machine Learning and AI, emphasizing industry trends, research methodologies, and innovative teaching techniques.
- Commitment to Excellence: Sambhram Institute of Technology ensures faculty stay updated with the latest technologies for enhanced student learning.



- MongoDB FDP (April 16–18, 2024)
- Organizer: Sai Vidya Institute of Technology, Bengaluru, in association with VTU Belagavi.
- Key Topics: Project-based hands-on training on MongoDB, real-world applications in data management and software development.
- Outcome: Faculty gained technical expertise and improved teaching methodologies.



- Gen-AI & Prompt Engineering FDP (Sept 16–20, 2024)
- Organizer: BNMIT, D.Y. Patil Agriculture and Technical University, Marwadi University, in collaboration with ExcelR Edtech Pvt. Ltd.
- Focus: Generative AI, Prompt Engineering, and Microsoft Co-Pilot for AI-driven applications.
- Learning Methods: Interactive sessions, hands-on exercises, and expert discussions on AI in automation and decision-making.
- Impact: Strengthened faculty expertise in AI, ensuring students stay updated with cutting-edge technologies.



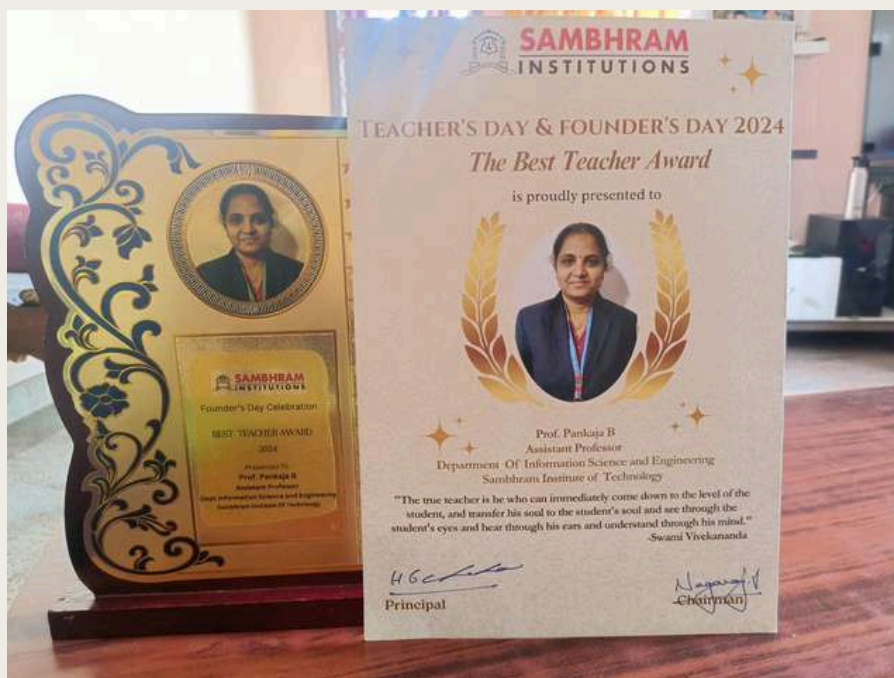
Honoring Excellence: Prof. Pankaja B Receives Best Teacher Award on Teacher's Day & Founder's Day 2024

The Sambhram Institute of Technology proudly celebrated Teacher's Day & Founder's Day 2024, recognizing the dedication and contributions of its faculty members. On this prestigious occasion, Prof. **Pankaja B**, Assistant Professor in the Department of Information Science and Engineering, was honored with the **Best Teacher** Award for her unwavering commitment to academic excellence, mentorship, and student empowerment.



The highlight of the event was the award being presented by none other than **Mr. Narayana Murthy**, the esteemed **founder of Infosys**, a visionary leader in the world of technology and entrepreneurship. His presence added immense prestige to the occasion, inspiring both faculty and students alike.

This recognition stands as a testament to her passion for teaching, dedication to student success, and contributions to the field of education. The Sambhram Institute of Technology congratulates Prof. Pankaja B on this well-deserved honor and looks forward to many more years of her inspiring service to the academic community.



Turning Dreams into Reality: ISE Students Excel in Campus Placements

The Department of Information Science and Engineering (ISE) at Sambhram Institute of Technology is proud to announce the successful placements of its talented students in reputed companies. Their dedication, technical expertise, and perseverance have led them to secure remarkable positions in the industry.

Vinisha K has been placed at **Amazon** as a **Quality Specialist** during the campus recruitment drive held on December 5, 2025.

Aabha Pandey has been selected by **Infosys** for the **role of MS Engineer** during the placement drive was conducted on February 13, 2025.

Shrea K N has also secured a position at **Infosys** as a **Systems Engineer** through the same placement drive on February 13, 2025.

These achievements reflect the department's commitment to academic excellence, hands-on training, and industry readiness. The faculty and placement cell continue to guide students toward promising career opportunities, ensuring they step into the professional world with confidence and competence. Congratulations to all the placed students! May this success be the stepping stone to even greater accomplishments in their careers.



DEPARTMENT OF
Basic Sciences

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.

DR.APPAJIGOWDA.C
PROF & HOD,
DEPT. OF MATHEMATICS

Department of Physics



DR.JAGADEESH GOWDA G V
Prof. & HOD,
Department of Physics

The Physics department at our institution is dedicated to providing a comprehensive education in the fundamental principles of physics to our Engineering students. Our experienced faculty members employ innovative teaching-learning methods, including experiments, simulations, and real-world applications, to foster a deeper understanding of complex concepts.

Research activities are thriving in the department, with faculty collaborating on projects in cutting-edge areas like materials science, and condensed matter physics. Our state-of-the-art laboratories provide hands-on experience, enabling students to explore and experiment with various phenomena.

The department's commitment to academic excellence and innovation is evident in its consistent achievements. The department's focus on interdisciplinary research and collaboration has also led to publications in reputable International Journals

Department of Chemistry



DR.MANJU M
Prof. & HOD,
Department of Chemistry

The Department of Chemistry at Sambhram Institute of Technology, established in 2001, is committed to fostering intellectual growth and providing quality education to undergraduate students across all engineering disciplines.

With a focus on engineering chemistry and its laboratory courses, the department is dedicated to teaching, training, and shaping the next generation of scientists and engineers. The faculty consists of five highly qualified and experienced members, including two with Ph.D. qualifications, alongside two dedicated non-teaching staff, all working together to create a dynamic and thriving academic environment.

Our department is also at the forefront of cutting-edge research, addressing both fundamental and applied challenges in various chemistry disciplines. With state-of-the-art research facilities and well-equipped laboratories, students have the opportunity to explore and innovate in their studies. Emphasizing interdisciplinary collaboration, we encourage students and faculty to engage in cross-disciplinary research, understanding that significant advancements often emerge from the intersection of diverse scientific fields.

EVENT'S ORGANIZED / PIONEERED / PARTICIPATION HIGHLIGHTS

- The Basic Science Department at Sambhram Institute of Technology (SaIT) hosted a **New Faculty Orientation Program** on August 9-10, 2024, to prepare new faculty for their teaching roles. Key highlights included speeches by distinguished guests, including Dr. K. Balaveera Reddy, who emphasized the importance of teachers as mentors, and The Chairman stressed the need for faculty to align teaching and research with SaIT's goals, highlighting their key role in promoting academic excellence, student growth, and collaboration. Dr. H.G. Chandrakanth, Principal who discussed SWOC analysis and faculty responsibilities. Dr. M N Sreerangaraju, Dean Academics outlined the institution's academic framework, while speakers from Disha Bharat and Dr.K V Prasad, Dean Research stressed leadership

and research innovation. The program also covered NAAC and NBA accreditation, VTU exam processes, and IQAC's role in maintaining academic quality, fostering a culture of continuous improvement at SaI



Invitation of Faculty Orientation Programme



Lighting of Lamp by dignitaries



Dr.K Balaveera Reddy addressed the gathering



Dr. H G Chandrakanth ,Principal and Dr. M N Sreerangaraju, Dean academics addressed the gathering about SWOC analysis, Rules and Regulations and Academics of the college



Dr. K V Prasad , Dean Research and Dr. V Nagraj, Chairman highlighted the Importance of R&D and Faculty Collaboration at SaIT



Group photo of the event.

- The Student Induction Program (SIP) at Sambhram Institute of Technology, held from September 23 to October 1, 2024, was a grand event welcoming new students. Distinguished guests, including Dr. B.N. Nagaraj (CEO), Dr. H.G. Chandrakanth (Principal), and Dr. B.N. Suresh (Chancellor, Indian Institute of Space Science and Technology), graced the occasion during the inaugural session. Alumna Gayathri Prabhu inspired students with her journey in data analytics. The event recognized the academic excellence of top-performing students and included various informative sessions. Dr. B.N. Nagaraj's address emphasized the importance of education and innovation, setting a positive tone for the academic year. The Student Induction Program was successfully conducted, offering a variety of sessions to inform, motivate, and entertain the new students.



Inaugural session of Student induction programme



Felicitation of guests



On the second day of SIP, Mr. Kumaraswamy discussed the global water crisis, Dr. Raju B.P.G. emphasized self-development, Prof. Aravind H introduced Universal Human Values, and Dr. Sanjitha raised awareness on cyber security.





On the third day of SIP, Dr. Suresha provided a roadmap for engineering success, Dr. C.S. Kedar inspired students for competitive exams, and Bajaj Pulsar NS 125 conducted a Road Safety Awareness Programme.



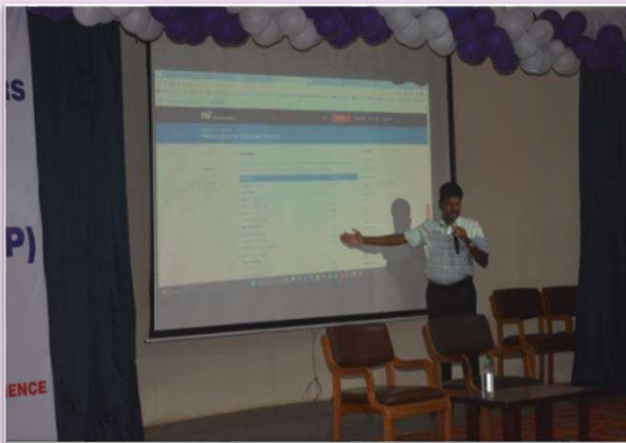
On Day 4 of SIP, Prof. Anupama Hongal introduced Heartfulness Meditation for mental well-being, followed by Dr. Ravishankar C V's session on time management for engineering students. Dr. Somashekhar V K delivered an inspiring motivational speech, and senior CS students shared insights into web design, encouraging first-year students to explore and develop their skills in the field.



On Day 5 of SIP, students visited the COMED KARES Innovation Hub in Yelahanka, where they explored hands-on facilities for prototype building, electronics prototyping, 3D printing, and laser cutting



On Day 6 of SIP, Mr. M.G. Anand Kumar inspired students with his insights on motivation, emphasizing the importance of perseverance and goal-setting for success. Mr. Pradeep Y N taught relaxation and memory techniques to help with focus and information retention, while Mr. Lakshman U N delivered a powerful speech on 'The Engineering Mindset,' encouraging students to turn challenges into opportunities for growth and innovation.



On Day 7 of SIP, Dr. K.V. Prasad inspired students with insights into India's achievements in space exploration, highlighting the success of the Chandrayaan-3 mission. Yogashree Mallanna, a Guinness World Record holder and National Gold Medalist, delivered an inspiring talk, while Dr. Ramesh discussed the vital role of engineering libraries in academic excellence. The day ended with a vibrant cultural celebration, featuring a captivating dance performance by senior BE students.



On Day 8 of the Student Induction Program, the team from Disha Bharat, a non-profit organization dedicated to the holistic character development of youth in India, conducted an insightful session for students.

- The Basic Science Department celebrated Ayudha Pooja, a traditional ceremony honoring tools, instruments, and knowledge. This



occasion was marked by rituals to seek blessings for success and prosperity. The celebration aimed to recognize the importance of the tools and resources that contribute to academic and professional growth. Faculty and students participated in the event, reflecting on



the significance of knowledge in their work. It



was a moment to express gratitude and seek divine guidance. The ceremony reinforced the values of respect and reverence in education and work.

Celebration of Ayudha Pooja in Basic science Department

- The Department of Mathematics celebrated National first Education Minister. This event, held in the EC Education Day on 21st November 2024, honoring the Seminar Hall, saw enthusiastic participation from both birth anniversary of Maulana Abul Kalam Azad, India's faculty and students








Invitation



Celebration of National Education Day

- The Department of Physics at Sambhram Institute of Technology organized a meaningful celebration of "National Farmers Day" on December 23, 2024, to honor the invaluable contributions of farmers to the nation's growth and prosperity. The event featured a range of activities aimed at highlighting the significance of agriculture and the dedication

SAMBHRAM
INSTITUTE OF TECHNOLOGY
M.S.Palya, Heeraghatta road, via Jalahalli East, Bangalore-560097

Department of Physics
Is
Organizing
Farmers Day
On
23-12-2024

Chief Patrons

Mrs. Dhanya Nagaraj Director, SGI	Mr. B. N. Nagaraj IPS (Retd.), CEO, SGI	Dr. V. Nagaraj Chairman, SGI
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Patrons

Dr. K.V. Prasad Dean-Research, SGI	Dr. M. N. Sree Rangaraju Dean-Academics, SGI	Dr. H.G. Chandrashekhara Principal, SGI
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Invited By

Dr. Appaji Gowda HOD, Department of Mathematics	Dr. Jagadeesh Gowda HOD, Department of Physics	Dr. Manjula M HOD, Department of Chemistry
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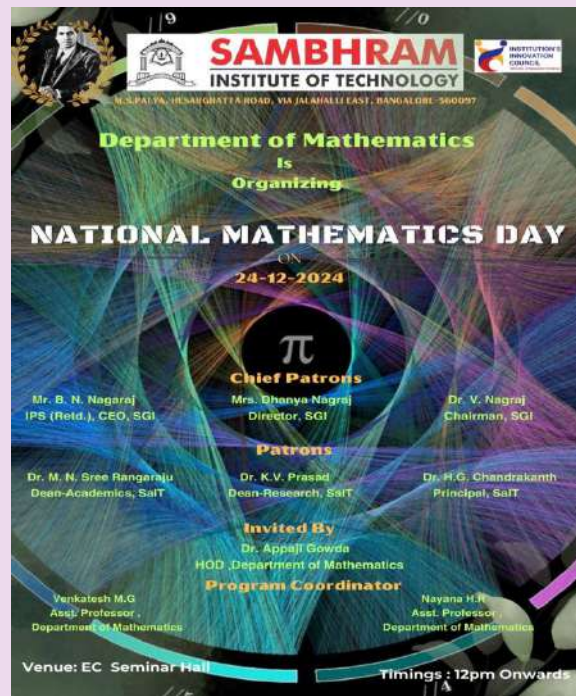
Venue: Social media

of farmers. These activities were shared through social media and class groups to engage a wider

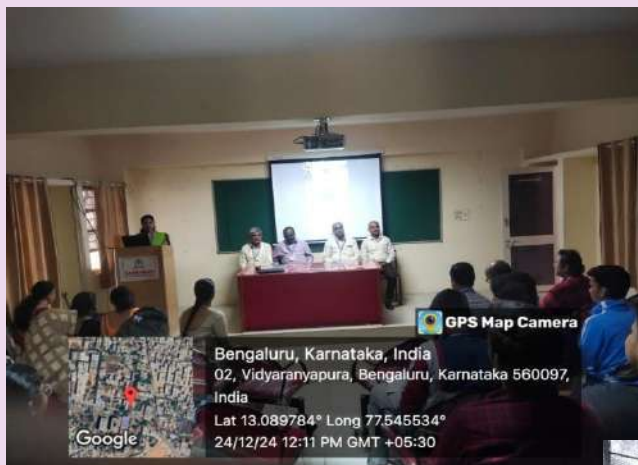
audience and raise awareness about the vital role of farmers in society.

Invitation

- The Department of Mathematics at Sambhram Institute of Technology organized a grand celebration of "National Mathematics Day" on December 24, 2024, in honor of the birth anniversary of the legendary Indian mathematician Srinivasa Ramanujan. The event, held in the EC Seminar Hall, saw enthusiastic participation from students, faculty, and distinguished guests.



Invitation



Celebration of National Mathematics Day

- The Department of Chemistry at Sambhram Institute of Technology celebrated National Youth Day on January 12, 2025, to mark the birth anniversary of Swami Vivekananda. The day was observed to honor his invaluable contributions to the youth empowerment movement and to inspire young minds to work towards the welfare of society. The event saw active participation from both students and faculty, fostering a spirit of motivation and social responsibility. It was a day dedicated to reflecting on Swami Vivekananda's teachings and encouraging everyone to contribute positively to the community.



Celebration of National Youth Day

- Dr. Bhavana H.V., Assistant Professor in the Physics Department, participated in a one-week short-term training program on "Hands-on AI Tools for Academic Writing: Elevate Your Research and Publishing Impact." The program was organized by the Department of Science at St. Joseph College of Engineering and RSP Science Hub, Coimbatore, Tamil Nadu, from October 21st to 26th, 2024
- Dr. Bhavana H.V., Assistant Professor in the Physics Department, participated in a 2-day Faculty Development Program (FDP) on "Advanced AI Tools for Preparing Research Papers." The program was organized by the Department of Computer Science and Engineering at Sasi Institute of Technology and Engineering, held on November 8th and 9th, 2024.

- Dr. Bhavana H.V., Assistant Professor in the Physics Department, participated in a 3-day Faculty Development Program (FDP) on "Research Paper Writing and Publishing in Scopus Indexed Journals." The program was organized by Learnix Thrive and took place from January 4th to 6th, 2025

FACULTIES ACHIEVEMENTS / PIONEERED / PARTICIPATION HIGHLIGHTS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

August 2024 – January 2025

The Department of Computer Science and Engineering (CSE) is committed to staying at the forefront of technological advancements by continuously evolving its academic programs. Through a rigorous and future-focused curriculum, the department equips students with a deep understanding of information theory, algorithmic problem-solving, and computational paradigms, empowering them to develop innovative solutions to complex real-world challenges.

Beyond traditional programming and software development, the CSE program fosters interdisciplinary learning, integrating emerging fields such as artificial intelligence, machine learning, cybersecurity, and data science. This holistic approach not only enhances technical expertise but also cultivates creativity, adaptability, and critical thinking—essential skills for success in the ever-evolving digital landscape.

Experiential learning is a cornerstone of the curriculum, with hands-on projects, industry internships, and research opportunities seamlessly woven into the academic framework. These practical experiences bridge the gap between theory and application, equipping students with the problem-solving and collaboration skills needed to excel in professional environments. Additionally, the program emphasizes teamwork, communication, and leadership, preparing graduates for both technical and managerial roles. As a hub of innovation and research, the CSE department provides students and faculty with opportunities to work on cutting-edge projects, collaborate with industry leaders, and contribute to technological advancements. With state-of-the-art laboratories, modern infrastructure, and strategic industry partnerships, students gain exposure to emerging trends and best practices,

ensuring they are well-prepared to lead in the digital revolution.

The demand for skilled computer science professionals is surging across diverse industries, from major tech firms and startups to government sectors and research institutions. With expertise spanning software engineering, cybersecurity, robotics, and data analytics, CSE graduates have the flexibility to pursue dynamic and impactful career paths.

As pioneers of technological progress, CSE graduates play a crucial role in shaping innovation, addressing global challenges through technology-driven solutions, and driving societal transformation. The department remains dedicated to nurturing the next generation of technologists, entrepreneurs, and thought leaders, equipping them with the knowledge, skills, and vision to push the boundaries of possibility in the digital age.

By fostering a culture of academic excellence, research, and industry collaboration, the Department of Computer Science and Engineering empowers students to become catalysts of change, ensuring they stay at the cutting edge of the rapidly evolving technological landscape. Through its commitment to interdisciplinary learning and real-world application, the department continues to shape the future of technology and society.

PAPERS/ PATENTS PUBLISHED OR PRESENTED BY FACULTIES/STUDENTS Ph.D REGISTERED FACULTY DETAILS

1. Dr. T. John Peter published a research paper titled "A Comprehensive Review of Sequential Pattern Analysis Techniques in Aspect-Level Sentiment Classification" in the Journal of Emerging Technologies and Innovative Research (JETIR) (ISSN: 2349-5162), Volume 11, Issue 9, Pages 175-185.
2. Prof. Indi Jayashree presented a paper titled "Fusion of Artificial Intelligence and Virtual Reality in the Educational Sector:

A Brief Overview" at the International Conference held at Sambhram University, Jizzax, Uzbekistan, on 11th November 2024.

3. Prof. Jyothi S. S. has published an Indian Patent titled "AI Powered IoT Device for Agricultural Applications."
4. Prof. Jyothi S. S has also published a research paper titled "Integrating Deep Learning for Crop Recommendation and Plant Disease Detection" in the Nanotechnology Perceptions Journal on December 1, 2024 (Volume 20 S15, Q4 Journal).
5. Prof. Sunitha B. has had her research paper titled "Machine Learning Approaches for Semantic Analysis of Hindi Data" accepted in the International Journal of Intelligent Systems and Applications of Engineering on December 27, 2024 (Q4 Journal).
6. Dr. K. Anatha Padmanabha had his research paper titled "An Efficient Model to Detect Power Fluctuation in Solar Systems using Machine Learning" accepted at an International Conference conducted by IIT Roorkee.

**PHD REGISTERED CANDIDATE
DETAILS AT OUR RESEARCH CENTRE**

1. Prof. Suchitra Devi A. has registered for Ph.D. at Visvesvaraya Technological University (VTU) under the guidance of Dr. T. John Peter.



2. Prof. Deepa S. Bhat has registered for Ph.D. at Visvesvaraya Technological University (VTU) under the guidance of Dr. K. Balakrishnan.



3. Mrs. Chaitra H. has registered for Ph.D. at Visvesvaraya Technological University (VTU) under the guidance of Dr. T. John Peter.



4. Dr. T. John Peter successfully guided his research scholar, Ms. Asha M. L., toward the completion of her Open Seminar 1.

**FACULTIES EVENT'S ORGANIZED /
PIONEERED / PARTICIPATION
HIGHLIGHTS**

1. Dr. K. Balakrishnan served as the SPOC for the 26-Day Capgemini Center of Excellence Program on "Web Development using Python," conducted from 2nd September 2024 to 8th October 2024.



2. Prof. Saranya B. mentored the 26-Day Capgemini Center of Excellence Program on "Web Development using Python,"

conducted from 2nd September 2024 to 8th October 2024, with 65 participants

3. .Dr. K. Balakrishnan served as the Coordinator for the OSCODE Hackathon Kickstart event held on 9th October 2024.



4. Prof. Mallamma C. G. served as the Coordinator for Technical Events for 1st-year students as part of the Student Orientation Program held on 28th October 2024.

5. Prof. Anuradha U. served as the Coordinator for the SDP on "Power BI and Data Visualization," conducted from 21st October 2024 to 26th October 2024 for 5th-semester students, with 249 participants.

6. Prof. Suchitra Devi A. organized an Industrial Visit to SAP Labs for 5th-semester students on 19th October 2024.



7. Dr. K. Balakrishnan coordinated a Technical Talk on "GIT and GITHUB" in

association with the OSCODE community on 13th November 2024.



8. Dr. K. Balakrishnan organized a Blood Donation Camp in association with the Lions Club Vijayanagara on 15th November 2024.

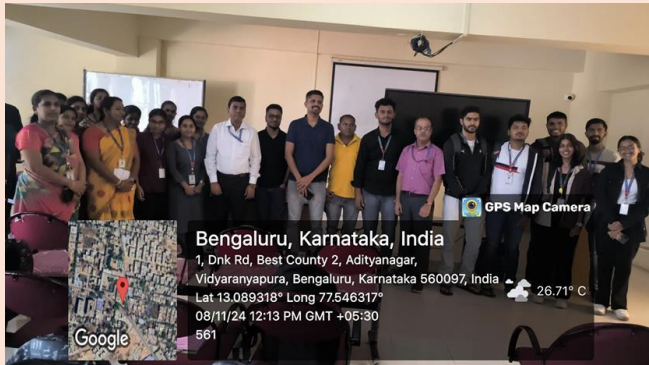
9. Dr. K. Balakrishnan organized the National Constitution Day event on 26th November 2024.

10. Dr. K. Balakrishnan and Prof. Mallamma C. G. coordinated the Kannada Rajyotsava celebrations on 30th November 2024.

11. Prof. Deepa S. Bhat, Prof. Saranya B., Prof. Anuradha V., and Prof. Poovidha S. coordinated a 6-Day SDP on "Industrial Training and Java Programming" on 11th November 2024, for all 3rd semester students.



12. Prof. Suchitra Devi A. and Prof. Anuradha V. coordinated a Technical Talk on "Journey of Building a Product – Agile Software Engineering" on 8th November 2024, for the 7th semester students.



13. Dr. Asha S. R. coordinated the Kanakadasa Jayanthi event organized on 21st November 2024.

14. Dr. K. Balakrishnan and Prof. Mallamma C. G. served as the Coordinators for Sambhramotsava 2K24.

15. Prof. Deepa S. Bhat took on the role of Hospitality Coordinator for Sambhramotsava 2K24.

16. Prof. Saranya B. and Prof. Gnaneshwari T. R. were part of the PR Committee for Sambhramotsava 2K24.

17. Prof. Anitha K. coordinated the Chess Competition during Sambhramotsava 2K24, which had 43 participants.

18. Prof. Anitha K. also coordinated the Rubik's Cube Competition during Sambhramotsava 2K24, with 25 participants.

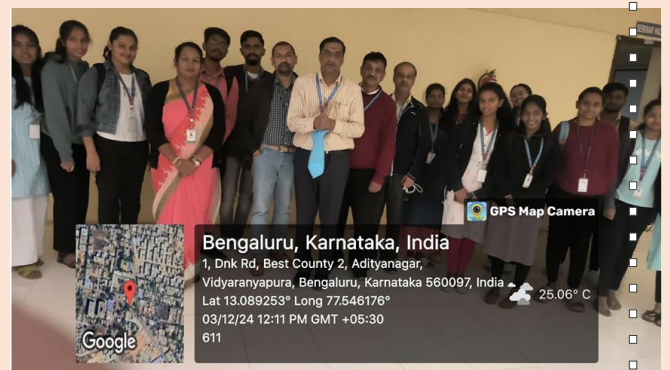


19. Prof. Gnaneshwari T. R. coordinated the Pot Painting and Painting Competitions during Sambhramotsava 2K24, which had 5 participants.

20. Prof. Jyothi S. S. coordinated the Nail Art Competition during Sambhramotsava 2K24, which had 6 participants.

21. The Food Walk as part of SCR Activities on December 6, 2024, was coordinated by Prof. Deepa S. Bhat (60 participants), Prof. Saranya B. (55 participants), Prof. Anuradha V. (56 participants), and Prof. Poovidha S. (55 participants).

22. Prof. Suchitra Devi A. and Prof. Rajaraman G. coordinated a 1-day SDP on "20 Plus Years in Data Science: Lessons Learnt for the Next Generation" on December 3, 2024.



23. Prof. Suchitra Devi A. and Prof. Anuradha U. coordinated a Technical Talk on

"Emerging Trends and Technologies in Blockchain" on December 6, 2024.



24. Prof. Suchitra Devi A. and Prof. Anuradha U. coordinated a Talk on "Prevention of Sexual Harassment (POSH)" on December 28, 2024.

25. Dr. Asha S. R, Prof Deepa S Bhat, Prof Jyothi S.S, Prof. Bhargavi Gorre, Prof Anitha. K , Prof Gnaneshwari. T R, Prof. Saranya B. participated in a 10-hour International Faculty Development Program on Machine Learning and Artificial Intelligence, organized by Pimpri Chinchwad College of Engineering and Research, Pune, Sri Venkateswara Degree College, Kadapa, SJB Institute of Technology, Bangalore, and Sri Indu PG College, Hyderabad, in collaboration with ExcelR Edtech Pvt. Ltd., from 12th to 19th August 2024.

26. Prof Anuradha V, Prof Gnaneshwari. T R, Prof. Saranya B. Prof Poovidha, Prof Sourna Lakshmi attended the Faculty Orientation Program at Sambhram Institute of Technology on 9th and 10th August 2024.

27. Dr. Asha S. R. participated in an FDP on "Full Stack Python with Data Science," organized by MSME Technology Centre, Government of Karnataka, from 11th June to 1st July 2024 (online).

28. Prof Anitha. K, Prof Gnaneshwari. T R, Prof. Saranya B have successfully participated in the programme titled 'Artificial Intelligence Master Class (21

Days)' conducted by SkillDzire from 24th July to 23rd August

29. Prof. Hanumantha Rao K. R. received a Certificate of Participation for attending the P&G Safalta Apni Mutthi Mein grooming workshop on 21st August 2024.

30. Prof. Hanumantha Rao K. R. received a Certificate of Participation for actively participating in the Infosys Springboard Summit 2024, conducted on August 23, 2024.

31. Dr. Asha S. R., Prof. Rajaraman, Prof. Giridhar Rao M, Prof Sunitha B, Prof Jyothi S.S, Prof. Bhargavi Gorre, Prof Anitha. K , Prof Gnaneshwari. T R , Prof. Saranya B. participated in a five-day International Faculty Development Program on "Gen-AI and Prompt Engineering Using Microsoft Co-Pilot," organized by BNM Institute of Technology (BNMIT), Bangalore, D.Y. Patil Agriculture and Technical University, Talsande, and Marwadi University, Rajkot, in collaboration with ExcelR Edtech Pvt. Ltd., from 16th to 20th September 2024.

32. Dr. K. Balakrishnan, Dr. Asha S. R, Prof. Mallamma C. G., Prof. Anuradha U., Prof. Jyothi S. S., Prof. Deepa S. Bhat, Prof. Anuradha V., Prof. Hanumantha Rao K. R., Prof. M. Giridhar Rao, Prof. Sunitha B., Prof. Suchitra Devi A., Prof. Bhargavi G., Prof. Anitha K., Prof. Gnaneshwari T. R., Prof. Saranya B., Prof. Rajaraman G., and Prof. Sourna Lakshmi P. participated in a 5-Day International Faculty Development Program on "Project Excellence Guide: Digital Marketing," organized by MLR Institute of Technology, Dundigal - Hyderabad, SKN Sinhgad College of Engineering, Pandharpur - Maharashtra, Dhaanish Ahmed Institute of Technology, Coimbatore - Tamil Nadu, and Sri Vasavi Institute of Engineering and Technology, Nandamuru - Andhra Pradesh, in collaboration with ExcelR Edtech Pvt. Ltd., from 21st October to 25th October 2024.

33. Prof. M. Giridhar Rao, Prof. Bhargavi G., Prof. Anitha K., Prof. Gnaneshwari T. R., Prof. Saranya B., Prof. Rajaraman G., Prof. Sourna Lakshmi P., Prof. Poovidha, Prof. Anuradha V., Prof. Indi Jayashree, and Prof. Jyothi S. S. participated in a One-Day Workshop on "Data Visualization using Power BI and Tableau" held at Sambhram Institute of Technology on 19th October 2024.
34. Dr. Asha S. R., Prof. Anitha K., Prof. Saranya B., Prof. Sunitha B., Prof. Gnaneshwari T. R., Prof. Rajaraman G., Prof. Jyothi S. S., Prof. Anuradha V., Prof. Bhargavi G., Prof. Deepa S. Bhat, Prof. Suchitra Devi A., Prof. Hanumantha Rao K. R., Prof. Anuradha U., and Prof. Giridhar Rao participated in a 5-Day Faculty Development Program (FDP) on "Cloud Architect" in association with ExcelR from 18th November 2024 to 22nd November 2024.
35. Dr. K. Balakrishnan participated in a 1-Day Workshop for College Coordinators on AICTE Activity Points organized by VTU at SKIT on 23rd November 2024.
36. Prof. Suchitra Devi A., Prof. Saranya B., Prof. Anuradha U., and Prof. Giridhar Rao successfully completed a 3-week FDP on "Java Full Stack" organized by Wipro Talent Next, receiving completion certificates.
37. Prof. Hanumantha Rao K. R. completed a 3-week FDP on "Database Solutions Expert" organized by Wipro Talent Next, receiving a completion certificate.
38. Prof. Anuradha U. completed a 1-week ATAL FDP on "Smart Cities and Mobility" from December 9 to December 14, 2024, receiving a completion certificate.
39. Dr. K. Balakrishnan, Prof. Anitha K., Prof. Saranya B., Prof. Gnaneshwari T. R., Prof. Sunitha B., Dr. Asha S. R., Prof. Rajaraman G., Prof. Deepa S. Bhat, and Prof. Bhargavi G. participated in a 5-day FDP on "AI Applications in Banking & Healthcare" in association with ExcelR, held from December 12 to December 18, 2024.
40. Dr. K. Balakrishnan, Prof. Anitha K., Prof. Saranya B., Prof. Gnaneshwari T. R., Prof. Suchitra Devi A., Prof. Anuradha U., Prof. Sunitha B., Prof. Giridhar Rao, Prof. Sourna Lakshmi, Prof. Poovidha S., Dr. Asha S. R., Prof. Rajaraman G., Prof. Anuradha V., Prof. Deepa S. Bhat, and Prof. Bhargavi G. participated in a 1-day Technical Talk on "Perspective on Intellectual Property and Patent Filing" conducted on December 18, 2024.
41. Prof. Anitha K., Prof. Saranya B., Prof. Suchitra Devi A., Prof. Gnaneshwari T. R., Prof. Anuradha U., Prof. Jyothi S. S., Prof. Sourna Lakshmi, Prof. Poovidha S., Dr. Asha S. R., Prof. Mallamma C. G., Prof. Anuradha V., Prof. Deepa S. Bhat, and Prof. Bhargavi G. participated in a Talk on "Prevention of Sexual Harassment (POSH)" organized by the Women Cell, SaIT, on December 28, 2024.
42. Prof. Anuradha U. completed a 10-hour course on Blockchain Technology organized by Reliance Foundation Skilling Academy on January 23, 2025.
43. Dr. K. Balakrishnan, Prof. Savitha Masali, Prof. Suchitra Devi A., Prof. Anuradha V., Dr. Asha S. R., Prof. Sunitha B., Prof. Anuradha U., Prof. Jyothi S. S., Prof. Sourna Lakshmi, Prof. Hanumantha Rao K. R., Prof. Deepa S. Bhat, Prof. Saranya B., Prof. Rajaraman G., Prof. Anitha K., Prof. Bhargavi G., Prof. Gnaneshwari T. R., and Prof. Mallamma C. G. participated in a 5-day FDP on Gen-AI and ChatGPT Applications organized by ExcelR from January 27, 2025, to January 31, 2025.
44. Dr. K. Balakrishnan, Prof. Savitha Masali, Prof. Poovidha S., Prof. Suchitra Devi A., Prof. Anuradha V., Dr. Asha S. R., Prof. Sunitha B., Prof. Anuradha U., Prof. Jyothi S. S., Prof. Deepa S. Bhat, Prof. Saranya B., Prof. Anitha K., Prof. Gnaneshwari T. R., and Prof. Mallamma C. G. participated in a 5-day FDP on Salesforce

Administrator organized by ICT Academy from January 6, 2025, to January 10, 2025.

45. Prof. Saranya B., Prof. Anitha K., and Prof. Gnaneshwari T. R. participated in a 5-day FDP on Building Web Development Solutions with Cloud Computing under the Next Gen Employability Program organized by Edunet Foundation in association with AICTE from January 27, 2025, to January 31, 2025.

STUDENTS METRIC ACTIVITIES EVENT CONDUCTED / PARTICIPATIONS

1. Anmol Kumar (1ST21CS021) and Ankush K (1ST21CS020) were finalists in the National Level Smart India Hackathon, conducted on 8th October 2024.
2. Deepasha Shukla (1ST21CS059), Saurabh Kumar Gupta (1ST21CS185), and Akhila Anant Gouda (1ST21CS007) participated in the National Level Hackathon organized by PES University under the Intracollege category on 26-27 Oct 2024 and received participation certificates and goodies.



3. Bhoomika S. Hosmath (1ST21CS039) received the Certificate of Achievement in the Technical GUVI event at SAWIT AI Learnathon.
4. Shridhar J(1ST23CS) participated in the “MIndTrick-2024” All India Level Chess Tournament on 11th November 2024 and secured 4 points in 9 rounds and placed 160.



5. Kusuma S. O. (1ST23CS102) secured Second Place in the Throwball competition organized on December 13, 2024, at SaIT.
6. Darshan R (1ST21CS057) secured Second Place in the Logo Design competition organized on December 12, 2024, at SaIT.
7. Navneet Kumar (1ST22CS128) represented the INDIAN AIR FORCE & Karnataka & Goa Directorate in the National Level Advanced Leadership Camp organized at the National Institute of Technology, Surathkal, from December 9 to December 21, 2024.
8. Anmol Kumar (1ST21CS021) secured Third Place in the Smart India Hackathon organized on December 12, 2024, in Erode, Tamil Nadu.
9. Charan N (1ST22CS041) secured Second Place in the Carrom competition organized on December 12, 2024, at SaIT.
10. Akash S D (1ST21CS006), Anmol Kumar (1ST21CS021), Umme Aiman (1ST21CS224), Amitha Raj B (1ST21CS016), Vinutha P V (1ST21CS238), and Ankush K (1ST21CS020) were Grand Finale Finalists in the Smart India Hackathon 2024 held at Excel Engineering College, Erode, Tamil Nadu, on 11-Dec-2024, securing 3rd place and receiving participation certificates and goodies.



2. The OSCODE Hackathon Kickstart Event was organized on 9th October 2024, with 130 participants actively taking part.
3. An Industrial Visit to SAP Labs was arranged for 5th-semester students on 19th October 2024, with a total of 20 participants.

11. Purab Modi (1ST22CS415) was a Resource Person for the "Java & Web Development" workshop organized on December 3, 2024, at Loyola College, Pulivendula, Andhra Pradesh, where 120 Diploma students participated.

12. Pooja Kumari (1ST21CS146) won the Fashion Show event at the Intracollege Cultural Fest held at Cambridge Institute of Technology on 25th Nov 2024 and received a winning certificate.



13. Apoorva Ronad (1ST22CS023) successfully completed a virtual internship at Altair.

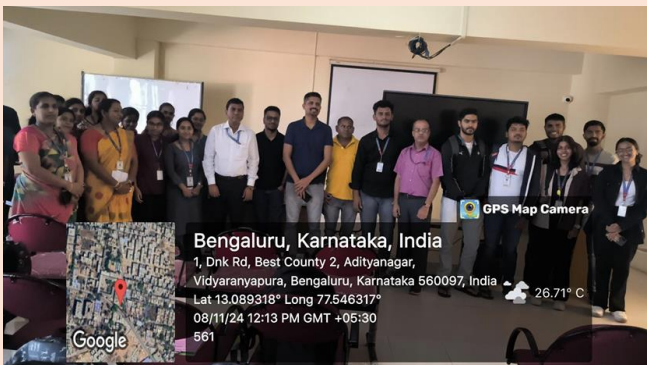
4. A 5-Day Student Development Program (SDP) on "Power BI and Data Visualization" was conducted for 5th-semester students from 21st October 2024 to 26th October 2024, with 249 participants benefiting from the session.
5. The Department of Computer Science and Engineering (CSE) organized a Technical Talk on "GIT and GITHUB" in association with the OSCODE community on 13th November 2024.
6. The department conducted a 6-Day SDP on "Industrial Training and Java Programming" on 11th November 2024..

EVENTS /ACTIVITIES CONDUCTED BY DEPARTMENT

1. A 26-Day Capgemini Center of Excellence Program on "Web Development using Python" in association with ICT Academy, held from 2nd September 2024 to 8th October 2024, with 65 participants.



7. A Technical Talk on "Journey of Building a Product – Agile Software Engineering" was organized on 8th November 2024.



8. A 1-Day SDP on "20 Plus Years in Data Science: Lessons Learnt for the Next Generation" was conducted on December 3, 2024, for 7th semester students

9. A Technical Talk on "Emerging Trends and Technologies in Blockchain" was held on December 6, 2024, attended by 7th semester students

10. The Department of CSE organized a Food Walk as part of SCR activities on December 6, 2024 for 3rd semester students.



PLACED STUDENTS –VIII SEMESTER

1. Shalu Singh (1ST21CS187) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
2. Mallu Suma Sahithi (1ST21CS108) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
3. Surabhi (1ST21CS213) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
4. Manasa D (1ST21CS109) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
5. Deepasha Shukla (1ST21CS059) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
6. Tejas G (1ST21CS218) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
7. Yama Hyndavi (1ST21CS246) was selected in the Amazon campus drive for

the role of Quality Specialist with a package of 3.6 LPA.

8. Deeksha M (1ST21CS058) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
9. Prema P (1ST21CS159) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
10. Punya D K (1ST21CS162) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
11. Manoj B (1ST21CS111) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
12. Meghana S (1ST21CS115) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
13. Shashank S V (1ST21CS191) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
14. Soniya Kumari B (1ST21CS205) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.
15. Amaresh Kumar (1ST21CS014) was selected in the Amazon campus drive for the role of Quality Specialist with a package of 3.6 LPA.

Articles By students and Faculties

Technological Trends in Wireless Sensor Networks for Parkinson's Disease

- By Dr. Asha S. R, CSE

The rapid advancements in technology have transformed healthcare, with Wireless Sensor Networks (WSNs) playing a vital role in managing chronic diseases like Parkinson's disease (PD). As a progressive neurodegenerative disorder, PD presents challenges in diagnosis, monitoring, and treatment due to fluctuating symptoms. Traditional clinical assessments rely on periodic evaluations, which may not capture real-time changes. WSNs provide continuous monitoring, enabling accurate tracking of disease progression and personalized treatment adjustments.

WSNs integrate wearable sensors, the Internet of Things (IoT), artificial intelligence (AI), and cloud computing to revolutionize PD management. These networks facilitate remote monitoring, early detection of motor and non-motor symptoms, and predictive analytics for improved intervention. Low-power communication protocols and energy-efficient sensors ensure seamless data collection with minimal maintenance. The rise of smart wearables, AI-driven analysis, and home-based monitoring solutions further underscores WSNs' potential in transforming PD care.

Techniques Used by Sensors for Parkinson's Disease Wearable Sensor-Based Techniques

Accelerometers and gyroscopes in smartwatches, gloves, and insoles detect tremors, slow movement, and gait abnormalities. Electromyography (EMG) sensors track muscle activity to assess rigidity and tremors, while pressure sensors in shoes analyze balance and fall risk.

IoT and Wireless Sensor Networks

Remote patient monitoring systems transmit real-time sensor data to doctors, ensuring continuous symptom tracking. Smart home sensors, including motion detectors and cameras, monitor daily

activities and detect mobility changes, falls, and nighttime movement disturbances.

Non-Invasive Sensor Technologies

Smart textiles and wearable patches embed sensors in clothing for long-term movement monitoring. Radar-based sensors use microwave technology to track gait and mobility without requiring physical contact.

AI and Machine Learning-Based Analysis

AI models predict movement patterns for early-stage PD detection, aiding doctors in dynamic treatment adjustments. Deep learning algorithms analyze tremors and gait changes to track disease progression and differentiate PD symptoms from other conditions.

How Sensors Benefit Parkinson's Disease Management

Sensors play a crucial role in PD care by enabling early detection, continuous monitoring, and remote patient management. They capture subtle motor changes, allowing for early diagnosis and timely intervention. Wearable sensors provide real-time tracking of tremors, gait abnormalities, and freezing of gait (FOG), offering long-term insights into symptom progression.

IoT-enabled devices transmit health data to doctors, reducing clinic visits and enabling proactive care. AI-driven analysis helps adjust medications based on symptom fluctuations, ensuring personalized treatment. Fall detection sensors in shoes and smart home systems identify balance issues, preventing accidents. Additionally, motion sensors and exoskeletons support rehabilitation therapy by tracking physical progress.

Conclusion

The integration of WSNs and advanced sensor-based techniques marks a major advancement in Parkinson's disease management. By leveraging wearable technology, AI analytics, and remote monitoring, these systems enhance symptom tracking and treatment efficacy. With continuous innovation, WSNs will further revolutionize

healthcare, making PD management more proactive, efficient, and accessible.

Optimizing AI-Assisted Code Generation: Enhancing Security, Efficiency, and Accessibility in Software Development

- By Prof. Suchitra Devi A, CSE

Artificial Intelligence (AI) has revolutionized software development, with AI-assisted code generation tools such as OpenAI Codex, GitHub Copilot, and AlphaCode streamlining the coding process. These tools leverage machine learning (ML) and natural language processing (NLP) to generate functional code from textual instructions.

While AI-based code generators improve efficiency and accessibility, concerns regarding code security, reliability, and ethical implications remain. This article explores how AI-assisted code generation can be optimized to enhance security, efficiency, and accessibility in software development.

Enhancing Security in AI-Assisted Code Generation:

Security remains one of the primary challenges in AI-driven code generation. As AI models are trained on vast amounts of publicly available code, they may inadvertently introduce vulnerabilities such as hardcoded credentials, insecure data handling, or SQL injection risks.

Security Challenges

1. **Untrusted Training Data:** AI models learn from large datasets that may contain security flaws, leading to the propagation of unsafe coding practices.
2. **Prompt Injection Attacks:** Attackers can manipulate AI-generated code by crafting deceptive prompts, leading to the execution of malicious operations.
3. **Data Poisoning:** If adversaries introduce biased or faulty code into the training data, it can compromise the integrity of the AI model.
4. **Lack of Explainability:** AI-generated code may contain logic that is difficult for developers to

interpret, increasing the risk of unnoticed security loopholes.

Mitigation Strategies

- Training on Curated Datasets: AI models should be trained on high-quality, vetted datasets that follow secure coding practices.
- Static and Dynamic Code Analysis: AI-generated code should be tested using automated security tools such as CodeQL and Semgrep to detect vulnerabilities before deployment.
- Human-in-the-Loop Review: Developers must verify AI-generated code, implementing manual reviews alongside AI assistance to ensure security compliance.
- Ethical and Secure Prompt Engineering: Clearly specifying security requirements in prompts can improve the quality of AI-generated code.

Improving Efficiency in AI Code Generation

AI-assisted coding significantly enhances productivity by reducing the time required to write, debug, and optimize software. However, inefficiencies such as incorrect code generation, excessive dependency on AI, and the need for manual verification persist.

Efficiency Challenges

1. Inaccurate Code Suggestions: AI models sometimes generate incorrect, redundant, or inefficient code that requires debugging.
2. Lack of Context Awareness: AI struggles to understand large-scale project structures, leading to inconsistencies in generated code.
3. Over-Reliance on AI: Developers may become overly dependent on AI-generated code, reducing their ability to critically assess and optimize software.

Enhancing Accessibility in AI-Assisted Software Development

AI-powered coding tools lower the barrier for individuals with limited programming experience, enabling broader participation in software development.

Accessibility Benefits

- No-Code and Low-Code Platforms: AI tools like ChatGPT for programming enable non-programmers to develop software using natural language commands.

- Multi-Language Support: AI models can generate code in multiple languages, facilitating global collaboration.

- Automated Debugging and Explanations: AI can help beginners by generating explanations for code snippets and providing debugging assistance.

Conclusion

AI-assisted code generation holds immense potential for transforming software development by enhancing efficiency, accessibility, and productivity.

However, ensuring security, optimizing model accuracy, and making AI tools accessible to a broader audience remain key challenges. By integrating curated training datasets, refining prompt engineering techniques, and implementing security best practices, AI-driven coding tools can become safer, more reliable, and user-friendly. As AI continues to evolve, responsible AI development practices will be essential to harness its full potential while minimizing risks.

Developing Soft Skills – Skill or Art?

- By Prof. Saranya B,CSE

In today's dynamic professional landscape, technical expertise alone is not enough to ensure success. Soft skills, including communication, teamwork, leadership, and emotional intelligence, play a crucial role in shaping an individual's career and personal growth. But is developing soft skills a learned skill or an inherent art? The answer lies in understanding the balance between structured learning and the natural finesse of human interaction.

The Science Behind Soft Skills Development

Soft skills can be cultivated systematically, much like hard skills. Training programs, workshops, and experiential learning help individuals acquire these competencies. For example, public speaking

can be improved through structured practice, feedback, and exposure to various speaking environments. Similarly, teamwork and leadership can be enhanced through group activities, role-playing, and case studies. These indicate that soft skills can be developed with deliberate effort, making them a learnable skill.

Moreover, various psychological and behavioral studies support the idea that soft skills can be trained. For instance, emotional intelligence, a key soft skill, can be improved through self-awareness exercises and empathy training. Many organizations invest in professional development programs to enhance employees' interpersonal abilities, proving that these skills can be nurtured systematically.

The Art of Soft Skills

While structured learning helps, soft skills often have an intrinsic element that makes them an art. Some individuals naturally excel in areas like communication and leadership due to their personality, emotional sensitivity, or innate social intelligence. For them, understanding people, resolving conflicts, or leading teams comes effortlessly.

The art of soft skills lies in adaptability, intuition, and the ability to read social cues. Unlike hard skills that have definitive answers and processes, soft skills require fluidity. For instance, an effective communicator must adjust their tone, language, and expressions based on the audience, a skill that often stems from intuition rather than formal training. Similarly, leadership is not just about decision-making; it involves inspiring and influencing people, a quality that is often associated with emotional intelligence and personal charisma.

Finding the Balance

Since soft skills encompass both learned techniques and intuitive abilities, their development is a blend of skill and art. A structured approach provides the foundation, while personal experience, self-awareness, and continuous learning refine these abilities.

Educational institutions and organizations should focus on experiential learning, mentorship, and real-world exposure to help individuals hone their soft skills effectively. While training programs can provide guidance, real-life interactions and challenges help individuals develop the artistic aspect of soft skills.

Conclusion

Developing soft skills is both a skill and an art. While training, practice, and feedback improve proficiency, personal intuition and adaptability make the difference between an average and an exceptional communicator, leader, or team player. A successful professional is one who blends both aspects—learning systematically while refining their natural abilities.

The Role of AI Tools in Enhancing Pedagogy, Productivity, Content Generation, Scholarly Research, and Data Analytics

- By Prof. Hanumantha Rao K. R, CSE

Introduction

AI has undergone significant advancements, redefining paradigms within education, healthcare, commerce, and empirical research. AI-powered applications facilitate automation, enhance creative processes, optimize accuracy, and support evidence-based decision-making. This study explores the role of AI tools in academia and professional environments, highlighting their transformative potential.

Conceptual Framework: AI and Its Applications

Definition and Evolution of AI

Artificial Intelligence denotes the simulation of human cognitive processes within computational frameworks. The evolution of AI spans from rudimentary rule-based algorithms to sophisticated deep learning architectures capable of advanced pattern recognition and autonomous decision-making.

Taxonomy of AI

- Narrow AI: Specialized AI designed for domain-specific tasks, such as chatbots and recommendation systems.
- General AI: A hypothetical AI framework capable of executing diverse cognitive functions at human equivalence.
- Superintelligent AI: A theoretical construct surpassing human intellectual capabilities across all domains.

AI Across Industry Verticals

AI is revolutionizing various industries by augmenting operational efficiency and facilitating data-driven insights. In educational contexts, AI-adaptive learning platforms personalize instructional pathways. Healthcare applications leverage AI for diagnostic precision and patient outcome optimization. Enterprises deploy AI to automate workflows, enhance customer engagement, and refine predictive analytics.

AI-Enabled Tools for Pedagogical Enhancement and Productivity

Khan Academy AI offers personalized learning trajectories and interactive modules that enhance student engagement. Curipod provides interactive presentations with embedded assessment components, simplifying curriculum development. Blackbox.AI streamlines programming tasks with AI-assisted code generation and debugging, while Grammarly refines syntax, coherence, and tone in written communication. Mail Tracker enables real-time analytics for monitoring email interactions. ChatGPT facilitates content synthesis, instructional design, and problem-solving through AI-driven insights. GitHub Copilot enhances software development with intelligent code completion and debugging.

AI-Driven Innovations in Scholarly Writing and Digital Design

DeepL Write supports multilingual content optimization, ensuring linguistic precision. Scribe automates technical documentation and workflow illustrations, improving efficiency in knowledge transfer. Canva AI generates templates that expedite digital design workflows, and Quetext

ensures academic integrity through AI-powered plagiarism detection.

AI Integration in Presentations and Academic Research

Microsoft Designer AI enhances slide composition with AI-generated layouts. Research Rabbit curates literature and manages citations, streamlining scholarly research. Chat PDF provides conversational AI interactions with research papers, extracting key insights.

Trinka improves academic writing with syntactic and stylistic optimization, while Plagscan ensures originality verification in scholarly publications.

AI in Data Analytics and Computational Research
Sheet GPT AI for Excel automates complex computations and enhances data processing efficiency. AI-Augmented Excel Formulas generate accurate solutions for data analytics and financial modeling. Presentations.AI facilitates AI-driven content curation for professional presentations.

Conclusion

This article has explored the multifaceted role of AI in pedagogy, productivity, research, and content generation. AI tools are transforming how professionals and educators approach tasks, enabling greater efficiency, creativity, and accuracy.

By integrating AI technologies, individuals can streamline workflows, enhance decision-making, and elevate scholarly and professional outputs. However, effective utilization requires a deep understanding of AI's capabilities, ethical considerations, and best practices.

Readers are encouraged to adopt AI tools in their respective fields, ensuring they leverage them strategically for optimal impact. Future research should explore AI's evolving landscape, addressing ethical challenges and unlocking new applications across disciplines.

Universal Human Values: A Foundation for a Harmonious Society

- By Prof. Gnaneshwari T. R, CSE

Introduction

Universal human values are fundamental principles that guide human behavior and interactions in society. These values are not bound by culture, religion, or nationality but are shared by all human beings. They promote peace, harmony, and ethical living, helping individuals and communities to coexist with mutual respect and understanding.

Core Universal Human Values

The essential universal human values include:

- 1. Truth** (Honesty and Integrity)
Truthfulness is the foundation of trust and credibility in any society. Being honest in words and actions helps build strong relationships and fosters a culture of transparency.
- 2. Peace** (Inner and Social Harmony)
Peace is essential for personal well-being and societal progress. Inner peace leads to emotional stability, while external peace ensures a conflict-free environment.
- 3. Love** (Compassion and Kindness)
Love and compassion create bonds among people, fostering empathy and care. Acts of kindness strengthen communities and promote emotional well-being.
- 4. Non-Violence** (Respect for Life and Nature)
Non-violence means resolving conflicts without harm and respecting all forms of life. It includes being tolerant and adopting sustainable practices to protect the environment.
- 5. Righteous Conduct** (Ethical Behavior and Responsibility)
Acting with fairness, respect, and responsibility ensures a just and moral society. Ethical conduct in personal and professional life leads to long-term success and harmony.

Importance of Universal Human Values

1. **Strengthening Relationships** – Values like honesty, love, and empathy improve personal and social relationships.

2. **Promoting Global Peace** – Respect and understanding among diverse cultures reduce conflicts and foster unity.
3. **Ensuring Sustainable Living** – Values such as non-violence encourage environmental conservation and responsible consumption.
4. **Enhancing Personal Growth** – Following ethical principles leads to self-improvement and inner fulfillment.

Implementation in Daily Life

Education: Schools should include value-based education to shape ethical individuals.

Workplace Ethics: Businesses should encourage fairness, honesty, and social responsibility.

Community Engagement: Societies should promote volunteerism and social service to uplift the underprivileged.

Conclusion

Universal human values serve as a moral compass, guiding individuals and societies toward peace, harmony, and sustainability. By practicing these values, we can create a world where respect, empathy, and justice prevail.

THINK LIKE A MONK - JAY SHETTY

- By ASHWINI, 1ST22CS028, 5 A,CSE

"Think Like a Monk" by Jay Shetty offers practical guidance on adopting a monk's mindset to achieve inner peace and purpose in modern life. Drawing from his experiences as a Vedic monk, Shetty presents actionable steps to overcome negativity, cultivate gratitude, and discover one's dharma (purpose). The book is structured into three parts:

1. **Let Go:** Focuses on releasing negative thoughts, detaching from materialism, and fostering forgiveness.
2. **Grow:** Emphasizes personal development through mindfulness, establishing meaningful routines, and aligning actions with core values.
3. **Give:** Highlights the importance of serving others, practicing compassion, and building authentic relationships.

"Think Like a Monk" by Jay Shetty imparts the central lesson that adopting a monk's mindset—characterized by mindfulness, detachment, and service—can lead to a more peaceful and purposeful life. Shetty emphasizes the importance of letting go of negativity, understanding one's true self, and dedicating efforts toward the well-being of others. By integrating these principles into daily routines, individuals can cultivate inner tranquility and clarity, enabling them to navigate life's challenges with resilience and compassion.

KEY TAKEAWAYS TO OVERCOME NEGATIVITY:-

Learn to identify and detach from negative thoughts, replacing them with positive affirmations and a more optimistic perspective.

Mindfulness practice: Regularly engage in meditation and deep breathing exercises to achieve inner stillness and awareness.

Finding your purpose: Reflect on your values and passions to discover your "dharma," the guiding force in your life.

The power of routine: Establish a structured daily routine that supports your goals and well-being.

Comparison is destructive: Avoid comparing yourself to others and focus on your own personal growth.

Embrace discomfort: Learn to use challenges and setbacks as opportunities for learning and development.

Key quotes from think like a monk:

1)"Fear is just excitement without breath."

This quote from Think Like a Monk by Jay Shetty means that fear and excitement are similar emotions, but how we experience them depends on our breathing and mindset.

When we feel fear, we tend to hold our breath or breathe shallowly, which intensifies anxiety. However, if we take deep, controlled breaths, we can shift our perspective and turn fear into excitement.

Lesson:--

By controlling our breath and changing our outlook, we can transform fear into motivation and confidence.

2)"Detach yourself from the voices of the world so you can hear your own."

This quote means that to truly understand ourselves, we must step away from external noise—society's opinions, social media, and expectations—and listen to our inner voice.

When we constantly seek validation from others, we lose clarity about what we truly want. By practicing self-reflection and mindfulness, we can connect with our authentic thoughts and values, leading to a more fulfilling life.

Lesson:--

To find true purpose and fulfillment, we must silence distractions and focus on what genuinely matters to us.

3)"The highest goal in life is to develop a mindset that allows us to handle both success and failure with equal grace."

This quote highlights the importance of emotional balance and resilience. Success and failure are both temporary and part of life's journey. If we become too attached to success, we may develop ego and fear of losing it. If we dwell too much on failure, we may lose confidence and motivation.

By cultivating a monk-like mindset—one that remains steady in both highs and lows—we can stay humble in success, learn from failure, and continue growing without being emotionally controlled by either. True wisdom is in accepting both with gratitude and grace

Lesson:--

The key lesson from this quote is emotional balance and resilience. Life is full of ups and downs, but true growth comes when we learn to stay humble in success and strong in failure.

"Think Like a Monk" by Jay Shetty encourages readers to adopt a monk-like mindset to achieve inner peace and purpose by applying ancient wisdom to modern life, focusing on practices like mindfulness, detachment from negative thoughts, finding one's "dharma" (life purpose), and cultivating gratitude, with the aim of overcoming stress, improving focus, and navigating challenges with greater clarity and resilience; the book draws from Shetty's personal experiences as a former monk, offering practical exercises and insights to

help readers cultivate a more mindful and fulfilling life.

MANAGING CO-CURRICULAR ACTIVITIES WITH STUDIES

- Asadullah, 1ST22CS025, 5th A, CSE

Discipline and hard work are the keys to mastering time.

As an NCC cadet and a student, I have learned the true essence of time management. Balancing my studies and NCC responsibilities required dedication, but with proper discipline, I made sure to excel in both. I always completed the tasks given in college on the same day, ensuring that I stayed ahead of deadlines. Any observations or records were documented immediately, allowing me to stay organized and focused. If time permitted, I even worked ahead, preparing for the next task in advance.

By staying proactive, I could manage my commitments efficiently without compromising on either. This approach not only helped me maintain academic excellence but also strengthened my leadership, teamwork, and discipline as an NCC cadet. Ultimately, it all comes down to discipline, hard work, and the unwavering determination to excel in every aspect of life, no matter how challenging the journey may be.



AI to the Rescue: Solving City Traffic Jams

-By Shivananda P, 1ST22CS193, 5 D, CSE

Introduction

Traffic is a huge headache in cities today. People waste hours stuck in their cars, which is bad for the environment and just plain irritating. Old-

school traffic systems can't keep up with the number of cars on the road. It's a growing problem, and cities need better answers, fast.

That's where AI comes into play. AI can watch traffic as it happens, guess where things will get jammed, and keep cars moving. It's not something out of a sci-fi movie, it's changing city traffic right now.

The Problem

Traffic jams happen for all sorts of reasons, and fixing them is tough. Here are a few of the main causes:

Ineffective Traffic Lights: Traffic lights that don't change based on how traffic is moving cause unnecessary waiting.

Human Mistakes: Simple mistakes people make on the road can make a jam way bigger.

Accident-Related Delays: When accidents happen, it takes too long to respond, which blocks roads even more.

Unoptimized Public Transport: Buses and trains that don't run on good schedules push people to drive their own cars, making traffic worse.

How AI Can Help?

AI can make traffic flow better by using cameras, sensors, GPS, and social media to get the full picture. Here's how:

1. **Smart Traffic Lights:** AI lights change in real-time based on how traffic is flowing. AI looks at old and new data to keep traffic moving smoothly and cut down on wait times.

2. **Spotting Jams Ahead:** AI can see jams coming from far away and tell drivers about other routes before they get stuck. Algorithms can learn how traffic flows in the long run to skip future jams.

3. **Smart Directions and Self-Driving Cars** Navigation apps like Google Maps and Waze use AI to give up-to-date traffic info and better routes. Self-driving cars use AI to avoid bad traffic, which helps everyone.

4. **Faster Accident Help:** AI camera systems spot accidents right away and call for help. This makes response times faster and stops more accidents from happening.

5. **Better Public Transport:** AI looks at how people use buses and trains and changes schedules

to fit. Getting people to use public transport more can take a ton of cars off the road.

Benefits of AI in Traffic Management

Less Traffic: AI makes roads run better and gets rid of pointless delays.

Less Pollution: Fewer cars sitting still means less gas being wasted and less pollution.

Faster Trips: AI directions find faster, smarter routes.

Safer Roads: AI helps people respond to accidents and other problems faster.

Challenges and Considerations

Privacy: Tracking traffic with AI can bring up questions about data security and personal privacy.

Large Implementation Expenditures: Putting AI into traffic systems can cost a lot.

Needs Updates: AI systems need to be updated all the time to keep up with how traffic changes.

What's Next for AI in Traffic?

Soon, cities will have to use real-time info and automation to deal with traffic. Cars will talk to each other to avoid jams, and city planning will rely more on AI. AI and the Internet of Things will bring in a transport age that's good for the environment. Traffic jams are a tough problem now, but AI can make roads smoother, trips faster, and roads safer. There are things to work out, but AI keeps getting better, pushing what's possible and building the way for smart cities all over.

Bridging the Digital Divide: A Step Towards an Inclusive Future

-By Thrisha.V, 1ST22CS230, 5 D, CSE

Introduction

Imagine a world where everyone, regardless of location or economic status, has equal access to knowledge, opportunities, and services. Unfortunately, this is not yet a reality. The "digital divide"—the gap between those with access to digital technology and those without—continues to widen. In today's fast-paced world, internet connectivity and digital literacy are crucial for

education, employment, healthcare, and even social inclusion.

However, millions of people, particularly in rural and underserved communities, are still left behind due to limited infrastructure, lack of affordable technology, and insufficient digital literacy. Bridging this divide is no longer just an option; it is a necessity to create a fairer, more inclusive society.

The digital divide is not just about lacking access to the internet but also about the inability to use digital tools effectively. Many people, even if they have access to a smartphone or a computer, lack the necessary skills to take advantage of digital opportunities. This further limits their ability to participate in economic and social activities that require digital engagement.

The Impact of the Digital Divide

The lack of digital access affects multiple aspects of life. In education, students in remote areas struggle to access learning materials, leading to knowledge gaps and limited career prospects. Many educational institutions have shifted to digital platforms, making it difficult for students without internet access to keep up with their peers. This has created a significant gap between urban and rural students, reducing their chances of competing equally in academic and professional fields.

Employment opportunities are increasingly dependent on digital skills, putting those without them at a disadvantage in the job market. With many companies transitioning to digital platforms for recruitment and training, job seekers without access to the internet face difficulties in applying for positions, learning new skills, and improving their employability.

In healthcare, telemedicine and online health services have the potential to save lives, yet those without digital access remain deprived of these advancements. Many rural areas lack access to healthcare facilities, and digital solutions could help bridge this gap. However, without reliable

internet connectivity and knowledge of how to use telemedicine services, these communities continue to struggle with inadequate healthcare access.

Moreover, limited digital connectivity prevents economic growth by restricting access to global trade, investment, and technological innovations. Small businesses and entrepreneurs in underserved areas are unable to leverage e-commerce platforms, digital marketing, and financial services, keeping them at a competitive disadvantage.

Technology as a Solution

Technology offers powerful solutions to bridge this gap. Some key strategies include:

Expanding Internet Access: Initiatives such as public Wi-Fi programs, low-cost broadband services, and satellite internet connectivity can help reach underserved areas.

Enhancing Digital Literacy: Community training centers, free online courses, and educational programs can help people develop essential digital skills.

Leveraging Mobile Technology: Smartphones enable access to e-learning applications, mobile banking, and telemedicine, making digital services more accessible.

Government Initiatives: E-governance platforms streamline access to official documents and benefits, while digital ID systems ensure participation in essential services.

AI-Powered Assistance: Automated chatbots and online support systems reduce bureaucratic barriers and provide easy access to information.

By implementing these solutions, governments and private organizations can work together to ensure digital inclusion for all.

The Road Ahead

Bridging the digital divide remains a challenge, but the future holds promise. Collaboration between governments, private organizations, and NGOs is essential in expanding digital access, improving affordability, and promoting digital education. Efforts to provide affordable smart devices, improve infrastructure, and increase

digital training programs will contribute to reducing disparities.

Technology companies can play a role by offering subsidized internet plans and developing user-friendly platforms that cater to those with limited digital literacy. Grassroots initiatives, such as community-led digital literacy campaigns, can help bring awareness and training to individuals who are unfamiliar with digital tools.

A digitally connected world is a world of opportunities. Investing in technology can empower communities, foster innovation, and create a more inclusive society where the benefits of the digital revolution are accessible to everyone. Ensuring digital access and literacy for all will not only promote equality but also contribute to social and economic growth on a larger scale.

Conclusion

Nearly 3 billion people worldwide still lack internet access. Raising awareness and advocating for digital inclusion is essential to ensuring equal opportunities for all. Supporting initiatives, volunteering for digital literacy programs, and encouraging discussions about digital access within communities can help bridge this gap.

As technology continues to evolve, it is crucial to ensure that no one is left behind. Governments, organizations, and individuals must work together to create an environment where digital access is a fundamental right rather than a privilege. A connected world is a stronger world, and every effort toward digital inclusion makes a significant difference in building a fairer and more equitable future for all.

Smart Agricultural Rover: AI Driven Disease Prediction and Crop Management”

-By Sunidhi Sunil, 1ST21CS212, 7 D, CSE



In a world where agricultural efficiency is paramount, a groundbreaking innovation is set to redefine crop management and disease detection. Introducing the Smart Agricultural Rover, an AI-powered system designed to assist farmers with real-time plant health analysis and precision agriculture. Developed by a team of forward-thinking engineers, this project integrates Artificial Intelligence, Machine Learning, and Raspberry Pi technology to bring automation to the heart of farming.

The Vision Behind Smart Agricultural Rover

Agriculture is the backbone of the economy, yet farmers worldwide struggle with undetected plant diseases that reduce yields and profits. The Smart Agricultural Rover aims to tackle this challenge head-on by providing an intelligent, real-time plant health monitoring system that minimizes manual labor and maximizes productivity. By leveraging AI-driven disease detection, this innovative rover is set to transform traditional farming practices into smart agriculture.

How It Works?

At its core, the Smart Agricultural Rover is equipped with a Raspberry Pi system, an advanced image processing unit, and a high-resolution camera that captures images of crops in real time. These images are processed using machine learning algorithms, which analyze the visual characteristics of leaves and stems to detect early signs of plant diseases. The AI model, trained on a vast dataset of crop diseases, can classify infections accurately, allowing farmers to take immediate action.

The rover is also designed for autonomous navigation, enabling it to move through fields,

scan multiple crops, and provide insights without human intervention. Wireless connectivity ensures that the collected data is transmitted to a centralized platform, where farmers can access reports and recommendations via an intuitive dashboard.

Key Features & Benefits

AI-Powered Disease Detection: Identifies plant infections at an early stage, preventing crop loss.

Real-Time Image Processing: Uses Raspberry Pi to process and analyze images instantly.

Autonomous Operation: Navigates through fields independently for efficient monitoring.

Cost-Effective & Scalable: A sustainable solution that can be adapted to various agricultural settings.

A Step Towards Sustainable Agriculture

With climate change and global food demand on the rise, precision farming is more crucial than ever. The Smart Agricultural Rover aligns with the vision of smart and sustainable agriculture, reducing the need for excessive pesticide use and promoting eco-friendly farming techniques.



Future Prospects

The potential of the Smart Agricultural Rover extends beyond disease detection. Future iterations could include automated irrigation systems, soil nutrient analysis, and pest control mechanisms, making it an all-in-one smart farming assistant. By integrating IoT (Internet of Things) and cloud-based analytics, the rover can evolve into a fully connected smart farm ecosystem.

Final Thoughts

The introduction of the Smart Agricultural Rover marks a significant leap toward AI-driven farming. By embracing technology, innovation, and automation, this project is set to empower farmers, enhance food security, and pave the way for a more sustainable agricultural future.

As the world looks towards precision agriculture, the Smarty Agricultural Rover stands as a beacon of progress—proving that AI can indeed cultivate a smarter tomorrow.

Mathematics: The invisible engine behind every tech innovation

-By Bhuvan N, 1ST22CS032, 5 A, CSE

It's astonishing how many people step into the world of computer science under the illusion that mathematics is irrelevant to the field. Yet, this couldn't be further from reality. Mathematics is not just a component of computer science — it is its very soul. It is the silent architect behind every innovation, the invisible thread weaving logic into existence, and the force that propels humanity's greatest technological revolutions. The intricate processes computers perform are not mere mechanical operations but the embodiment of mathematical brilliance. From the simplest loops to the most complex neural networks, mathematics is the guiding light that turns human imagination into reality.

Picture a universe where the flickering states of on and off — mere zeros and ones — orchestrate symphonies, paint digital masterpieces, and breathe intelligence into machines. It is nothing short of miraculous that this binary duality, so deceptively simple, forms the foundation of our digital cosmos. These tiny states build entire virtual worlds, safeguard sensitive information through encryption, and even carry the weight of human emotions in pixels on a screen. Zeros and ones are the atoms of computation, while logical gates like AND, OR, and NOT become the neurons of artificial minds, whispering together to create the illusion of thought and perception.

Every line of code is a verse in a grand mathematical epic. Recursion echoes the infinite beauty of mathematical induction, while graph theory traces the connections of complex systems. The elegance of sorting algorithms, the precision of data structures, and the power of search engines all stem from mathematical insight. What may

appear trivial — swapping elements or iterating through loops — is, in reality, the choreography of modern technology, powering everything from colossal databases to the intricate neural networks that learn, evolve, and mimic the human brain.

My fascination with artificial intelligence and machine learning ignited when I uncovered the mathematical magic behind image recognition. Concepts like matrices, once just symbols in textbooks, revealed themselves as the foundation of visual learning. Computers translate images into numerical matrices, harness linear algebra to manipulate them, and wield complex algorithms to unveil hidden patterns. Witnessing how pure mathematics breathes perception into machines is an awe-inspiring reminder of human ingenuity — proof that mathematical thought can give machines the power to see, understand, and interact with the world.

But mathematics doesn't just enable technology; it flings open the doors to infinite possibility. Computational geometry, number theory, probability, and statistics underpin innovations in robotics, game development, and cybersecurity. Discrete mathematics shapes the beating heart of computers through logic gates and finite state machines, defining the very essence of computation. Without these mathematical pillars, the groundbreaking innovations we marvel at today would collapse like sandcastles against the tide.

Even the humble act of sorting — comparing values, swapping elements — mirrors humanity's eternal struggle to bring order to chaos. What starts as a simple loop evolves into an AI-optimized ballet of efficiency, echoing nature's pursuit of harmony. Every algorithm, every optimization, every technological leap is a testament to the human spirit's relentless quest to understand and shape the universe through mathematics.

By embracing the mathematical core of computer science, we do more than honor the discipline's roots — we unlock a boundless future. Every

breakthrough, every advancement, is a love letter to mathematics — a symphony of logic, precision, and infinite potential. When we recognize this profound connection, we unleash the true power of human creativity, bridging the gap between abstract theory and tangible impact. The fusion of mathematics and computer science holds the promise of solving humanity’s most complex challenges, driving innovation, and shaping a future where the only limits are those of our imagination.

Mathematics is not just a tool. It is the spark that ignites discovery. The language of the cosmos.

THE JOY OF HOBBIES: Why doing what you love matters

-By Yashaswi N, 1ST22CS250, 5 D, CSE

In today’s fast-paced world, it’s easy to lose sight of what brings us joy amidst the demands of college life—assignments, exams, internships, and social commitments. Hobbies often take a backseat, but indulging in them can unlock happiness, reduce stress, and boost productivity. Whether painting, playing guitar, gardening, or coding for fun, hobbies offer profound benefits beyond the activity itself.

A hobby is any activity done purely for enjoyment—not out of obligation but desire. Painting, gardening, playing an instrument, cooking, or birdwatching allows us to explore passions and express creativity. They break the monotony of routine and provide fulfilment beyond professional achievements.

Balancing Hobbies with College Life

Many students struggle to find time for hobbies due to demanding schedules. However, prioritizing hobbies doesn’t mean sacrificing productivity—it enhances it. Studies show that taking breaks for enjoyable activities improves focus and efficiency. Treat hobbies as investments in long-term success rather than distractions.

To incorporate hobbies into your routine, start small. Dedicate 15–30 minutes daily to something you enjoy, like reading, sketching, or yoga. Use weekends for deeper exploration or multitask creatively, such as listening to podcasts during commutes. Aligning hobbies with existing commitments, like joining campus clubs, integrates passions into your social life while saving time.

Building Connections and Confidence

Hobbies connect people through shared interests, fostering meaningful relationships. Campus organizations dedicated to chess, dance, environmental activism, or other pursuits provide opportunities to meet like-minded peers. Group activities centered on hobbies promote teamwork, empathy, and collaboration, helping you see others—and yourself—in new ways.

For introverted students, hobbies offer organic networking avenues based on shared enthusiasm rather than professional gain. Volunteering for causes tied to your interests, such as teaching art or organizing charity runs, deepens community connections while giving back. This blend of personal fulfilment and social contribution amplifies their positive impact.

The Power of Passion

At its core, a hobby is pursued purely out of love. Unlike academic or career goals driven by external expectations, hobbies remind us why doing what we love matters—they connect us with our authentic selves. Research shows that engaging in hobbies reduces stress and improves mental health by releasing dopamine, the “feel-good” neurotransmitter. Even 30 minutes spent on a creative or physical pursuit can recharge both mind and body, providing clarity and renewed energy.

Hobbies also offer a much-needed break from screens and technology. Activities like knitting, gardening, woodworking, or sports encourage mindfulness and presence, grounding us in the moment and reducing anxiety about the future.

Rediscovering Joy in Everyday Life

Hobbies remind us to slow down, savor the present, and celebrate simple joys. In a culture dominated by hustle and constant connectivity, they provide a sanctuary where we reclaim agency over our time and rediscover happiness. Success isn't solely measured by grades or accolades; true fulfillment comes from balancing ambition with passion. Reflect on what excites or inspires you, then carve out space for it in your life. Doing what you love isn't a luxury—it's a necessity.

Finding Time for What You Love

A common barrier to pursuing hobbies is the belief there isn't enough time. Incorporating small pockets of hobby time into your schedule makes a big difference. Instead of scrolling through social media during breaks, pick up a book, strum chords on your ukulele, or go for a quick run. These brief interludes add up, offering consistent doses of happiness.

Hobbies don't need to be expensive or elaborate. You don't require top-of-the-line equipment or formal lessons—just curiosity and a willingness to explore. Start small, experiment, and let your interests guide you.

Amid college chaos, hobbies serve as anchors, reminding us who we are outside our roles as students. They bring joy, spark creativity, and build connections while promoting mental and emotional well-being. Whether rediscovering an old passion or trying something new, make time for what you love. Life is too short to focus solely on obligations. Embrace hobbies, and watch how they enrich not only your college experience but also your journey toward becoming a more balanced, fulfilled individual.

In conclusion, making time for hobbies nurtures well-being and creates a life that balances productivity with personal joy. Remember, doing what you love matters—not because it leads to success, but because it makes life worth living.

Majorana 1: Pioneering the Future of Quantum Computing with Microsoft's Quantum Processor Chip

-By Sudarshan R. Hegde, CSE, SaIT

Quantum computing stands at the frontier of modern technology, promising to solve problems that are intractable for classical computers. Among the innovations driving this revolution is Microsoft's ambitious development of the Majorana 1 quantum processor chip—a cutting-edge platform that harnesses the exotic properties of Majorana fermions to pave the way for robust, scalable quantum computing.

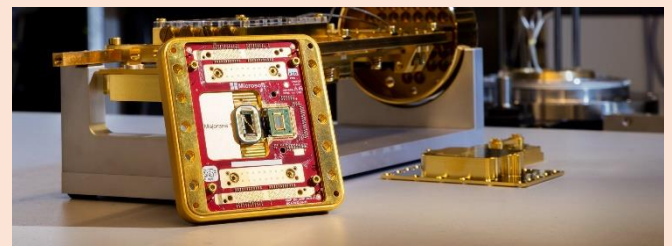


Fig: mojourana_1

A New Era in Quantum Computation

Quantum computing holds the potential to revolutionize problem-solving in cryptography, chemistry, and optimization. However, a key challenge is decoherence—the fragile nature of qubits that leads to rapid loss of quantum information. Microsoft's Majorana 1 chip aims to address this by leveraging topologically protected qubits, which rely on intrinsic material properties for error resistance rather than extensive error correction.

Majorana Fermions and Topological Protection

Majorana fermions, theorized in the 1930s, are unique quantum particles that exhibit non-abelian statistics, meaning their system state changes based on the order of their exchange. Encoding information in their topological states reduces error susceptibility, as disturbances cannot easily corrupt data. The Majorana 1 chip is designed using superconducting materials and semiconductor interfaces to stabilize these fermions, improving coherence times and reducing the need for error correction.

Microsoft's Vision and Engineering Challenges

Microsoft's strategy integrates theory, materials science, and quantum software to develop topological quantum computing. Fabricating Majorana-based qubits requires materials with precise superconducting and spin-orbit coupling properties. Additionally, the chip operates at ultra-low temperatures to maintain quantum coherence, necessitating advanced cryogenic systems. Cutting-edge nanofabrication techniques ensure precise control of qubit interactions.

Innovations and Potential Applications

The Majorana 1 chip is designed for scalability, integrating high-fidelity quantum control systems for reliable computation. If successful, this technology could redefine industries:

Cryptography: Threatens classical encryption but enables quantum-secure cryptographic methods.

Pharmaceuticals & Materials Science: Simulates molecular interactions for faster drug discovery.

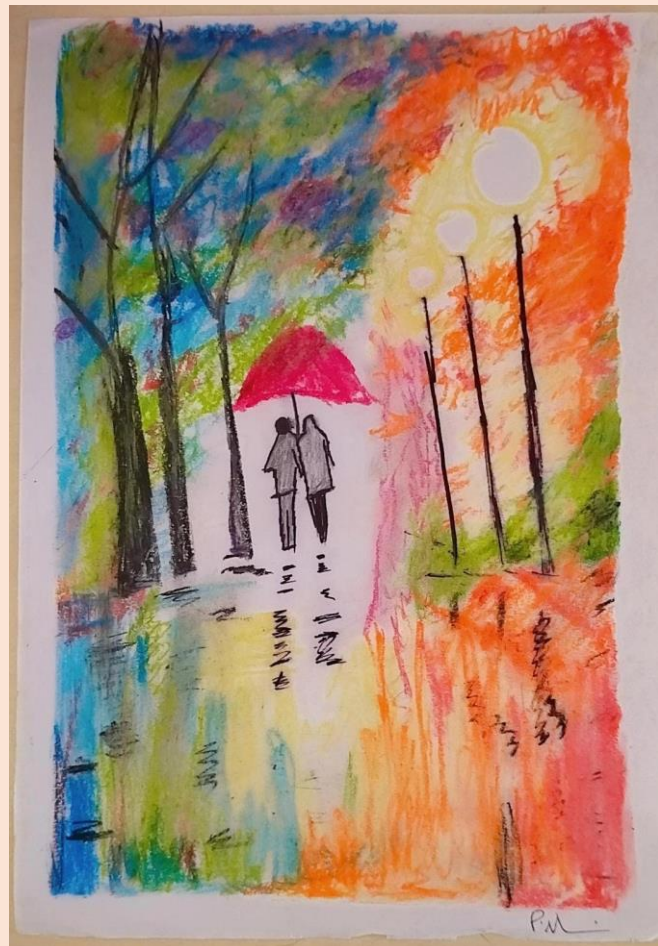
Optimization Problems: Enhances logistics, finance, and AI.

Fundamental Research: Advances our understanding of quantum mechanics and topological matter.

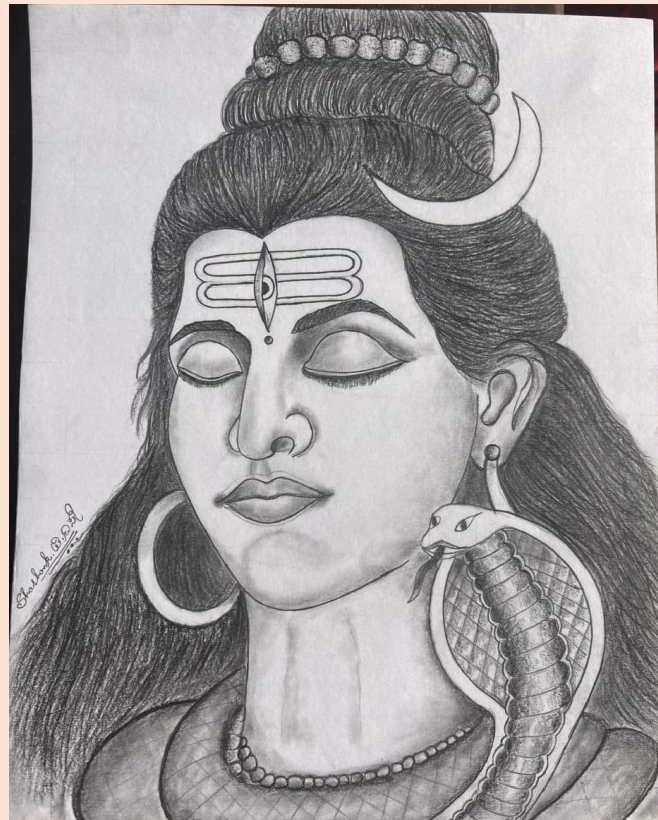
The Road Ahead

Despite its promise, challenges remain, including confirming Majorana fermions' behavior, scaling fabrication, and integrating qubits into larger systems. Microsoft continues to refine its approach through collaborations with academic and industry leaders, ensuring steady progress toward fault-tolerant quantum computing.

By pioneering topological quantum computing, Microsoft is pushing the boundaries of computation, potentially ushering in a new technological era. The Majorana 1 chip may serve as a foundation for large-scale quantum processors, reshaping industries and redefining what is computationally possible.



- Prof. Sourna Lakshmi, Dept of CSE



- By Shashank D S, 7th Sem CSE

Art by students and faculty



- By Kiran C Badigar, 7th Sem CSE



- By Maanya N 5th sem CSE



- By Meghana M K 5th sem CSE

STUDENT ACHIEVEMENTS

Pooja Kumari, a 7th Semester student, has successfully participated in the IFFA Summer Sizzle Spectacular 2024 held at Gold Rush Brews and has secured the prestigious position of 1st Runner-up in the Fashion Show on 27th July 2024. We recognize and appreciate her talent, dedication, and outstanding performance in the event.

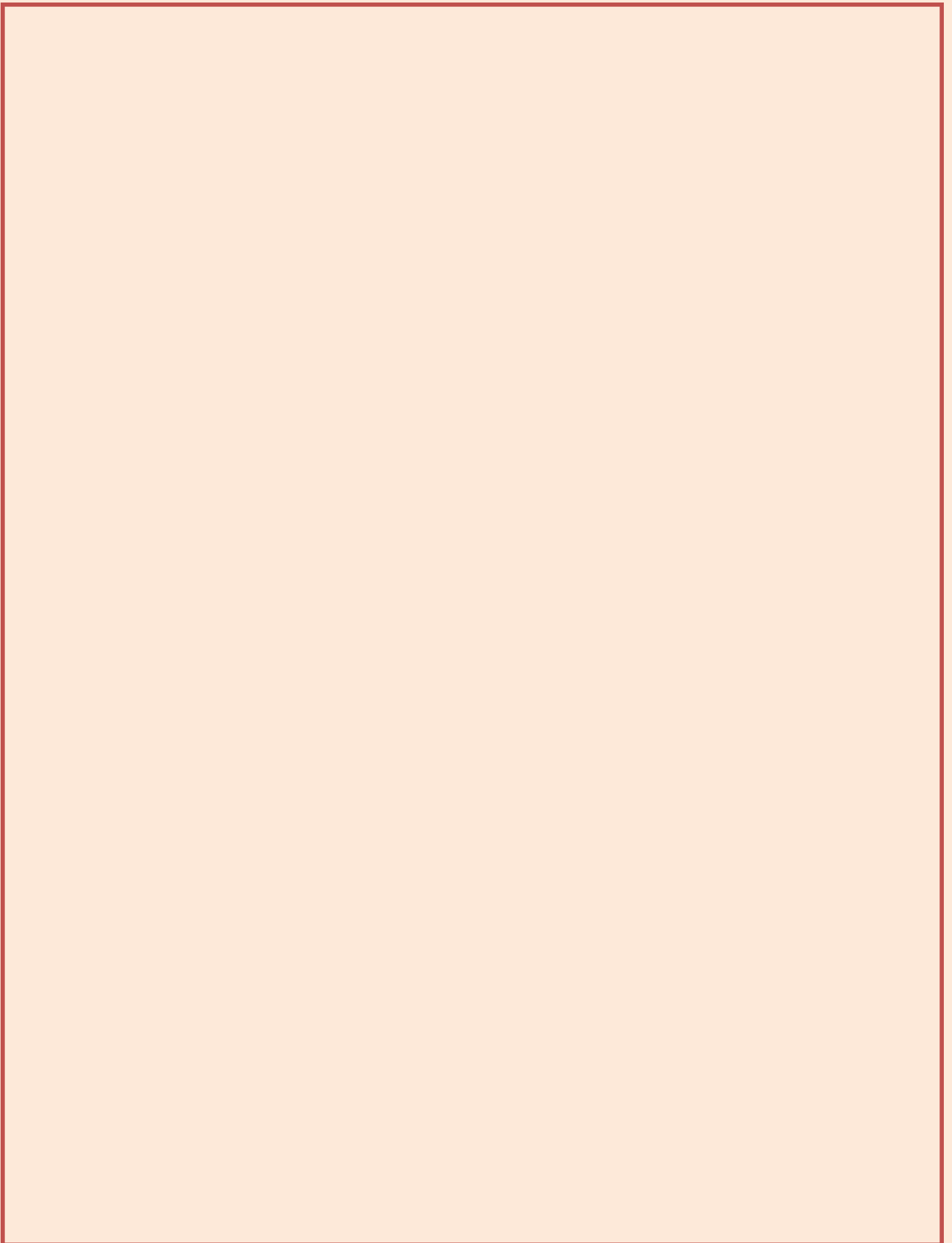




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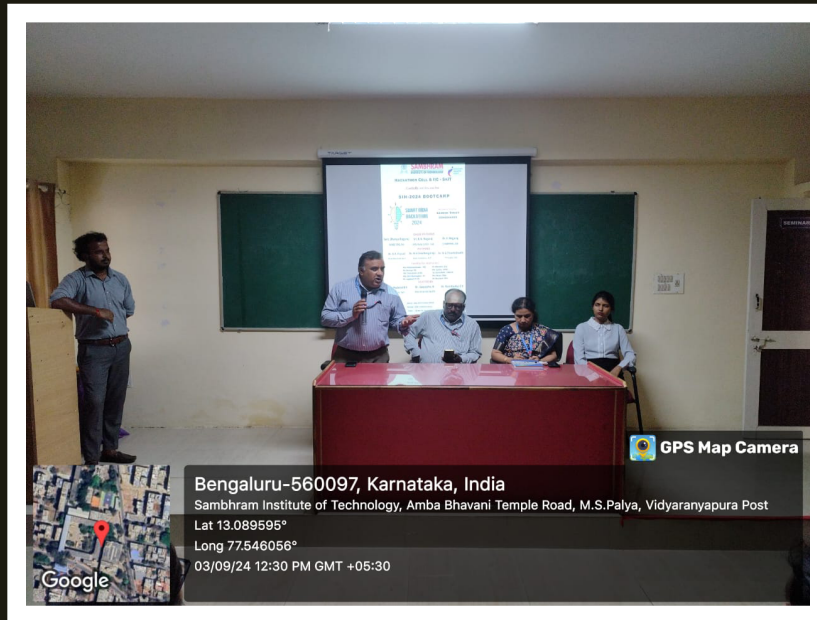
National science day



Women's day event held on February 14th 2025 @ New seminar hall behind library coordinated by Prof.Khamer & Prof.Nithiya ,ECE .



Women's cell Event held on 29th December 2024 on Health & Hygiene awareness





Dr.Latha IS HOD Honoring the chief guest during Women's day event's Chief Guest





IISc Open day attended by ECE faculties, IISc open day visit on March 1st, 2025 by ECE faculties Prof.Nithiya K, Prof. Khamer , Prof.Sri vani



AI Innovation day conducted by CSE





Prof.Padmini with mechanical department students @IISc Open day 2025



IISc open day visit on March 1st, 2025 by ECE faculties Prof.Nithiya K, Prof. Khamer , Prof.Sri vani



IISc open day visit -ECE faculties Prof.Nithiya K, Prof. Khamer , Prof.Sri vani with VI , VIII & IV semester students of Sambhram Institute of technology



VIII semester Students In IISc Open Day visit



AI Innovation day celebrated in SaIT campus By CSE department



Dignitaries on the dais @ AI innovation day



ECE students in Indian Institute of technology during Open day 2025





Field visit to IISc on behalf of Open day 2025



IISc open day 2025 visited by SaIT faculties – Dept.of.Mathematics



IISc open day 2025 visited by SaIT faculties & students



IISc open day 2025 visited by SaIT faculties- Basic science department



IISC open day 2025 visited by SaIT faculties- Basic science department



Dr.Chandrakanth Principal SaIT honored by chairman Dr.Nagaraj





Principal , SaIT Dr.Chandrakanth honoured by Chairman sir Dr.Nagaraj



LEO club event conducted on February 19th, 2025



Dr.Nagaraj Chairman SaIT addressing the gathering in Leo's club event





LEO CLUB EVENT HIGHLIGHTS





GPS Map Camera



Bengaluru, Karnataka, India

3GQW+R2M, Chikkabettahalli, Vidyananyapura, Bengaluru, Karnataka 560097, India

Lat 13.089712°

Long 77.545356°

07/06/24 12:38 PM GMT +05:30





Dr.Ravsihankar attended NMIT as chief guest on 29th july, 2024





Bengaluru, Karnataka, India
20a, 1st Cross Rd, Bharath Nagar, Adityanagar,
Vidyaranyapura, Bengaluru, Karnataka 560014, India
Lat 13.088995° Long 77.546411°
14/02/2025 04:08 PM GMT +05:30







Bengaluru, KA, India
Hesarghatta Road, Chikkabettahalli, Bengaluru,
560097, KA, India
Lat 13.089700, Long 77.545213
06/07/2024 11:37 AM GMT+05:30
Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
31, Dnk Rd, Sai Nagar, Adityanagar, Vidyaranyapura,
Bengaluru, Karnataka 560097, India
Lat 13.089327° Long 77.546421°
14/02/2025 04:15 PM GMT +05:30





Pooja kumari Participated in Beauty contest 2025



World "RADIO DAY " February 13th , 2025 by ECE faculties



Dignitaries on the dais on WORLD RADIO DAY 2025





February 26th, 2025 Republic day gathering in SaIT campus





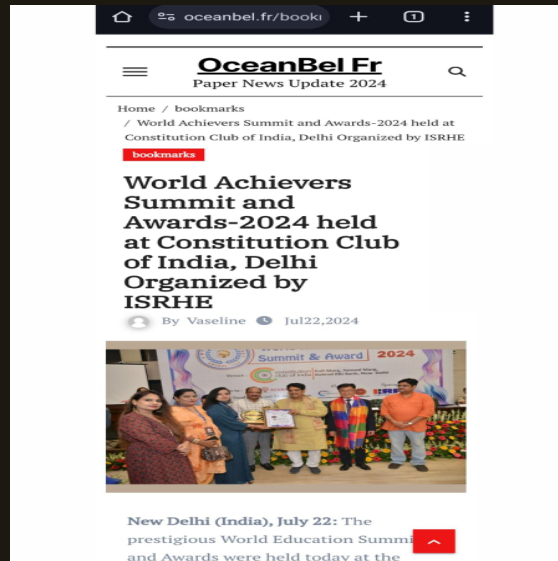


Republic day event in SaIT campus on January 26th, 2025



On 18th jan 2025 dean academics Dr.Sreerangaraju visited NLSIU bangalore with prof. Sathyanarayana ,ECE SaIT





World Achievers summit by ISRHE 2025



On 16th January 2025 Prof. Jagdeesh Mechanical Department completed his final viva of Ph.D



Paypal Event participation by SaIT students





Dr. Ravishankar cv.. Gone to KSSEM as chief guest for FDP



ECE student Soundarya awarded VI th sem positioned as 8th place topper



ECE alumni 2028 batch Prakash visited our college on 20th August 2024



Business and Finance

[< Back](#)

World Achievers Summit and Awards-2024 Held at Constitution Club of India, Delhi Hosted by ISRHE

Monday, Jul 22, 2024 14:07:34 | ISRHE



New Delhi (India), July 22: The prestigious World Education Summit and Awards were held today at the Constitution Club of India, Delhi. The



On 1.1.2025 Dr. H. G. Chandrakanth took over charge as Campus director.



ECE alumni students 2018 batch visited ECE department Dr.Ravishankar CV on august 24th 2024





Walkathon 2025 held on March 8th, coordinated by Prof.Khamer & Prof.Nithiya K from ECE



SAMBHRAM

INSTITUTE OF TECHNOLOGY

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IETE- BANGALORE CENTRE

cordially invites you to

18th Series
National Level Inter -
Collegiate Project Competition
&
Ideathon Contest (Pre-final Year)
(Offline/Online)



PRATIRA

2025



Registration Fee:
Rs. 600/-
(For non-IETE/IETE members)
Rs. 450/-
(For IETE/IETE members)
Rs. 300/-
(For IETE/IETE members)

4th April 2025
 Inauguration : 9.30 AM
 Valediction : 3.00 PM

Who Can Participate?

Pre - final & final year Students
 Open to all Branches
 ECE, ETE, EEE, CSE, ISE, AIML, AI & DS, CY
 Robotics, Mech, Civil, Mechatronics

Scan to Register



For any queries contact:
 Prof. Chaitanya D : **+91 9880042781**
 Prof. Nithiya K : **+91 6369964382**

Supported by:
 Alumni Association - SaIT
 Student Chapters of IETE, ISTE, IEEE

PRATIRA 2025 – National level Intercollegiate Project competition & IDEATHON CONTEST in ECE department about to held on April 4th, 2025 Coordinated by Prof. Nithiya K & Prof.Chaitanya D



STUDENT ACHIEVEMENTS

Pooja Kumari, a 7th Semester student, has successfully participated in the IFFA Summer Sizzle Spectacular 2024 held at Gold Rush Brews and has secured the prestigious position of 1st Runner-up in the Fashion Show on 27th July 2024. We recognize and appreciate her talent, dedication, and outstanding performance in the event.





Pooja Kumari, a 7th-semester student, participated in the Miss India Role Model 2024 fashion show held at The Lalit Ashok Hotel and emerged as one of the three title winners.







VIII SEMESTER ECE STUDENTS PARTICIPATED IN EXHIBITION FAIR 2025 @ visveswaraya
Museum on 20/3/2025



Quiz competition attended by our students



SALT student awared as 2nd Runer up in COMED care event 2024





Our students participation in Gopalan college & awarded in HACAATHON on 13th July 2024