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Editors Message

They say “Celebrating is not only an act but also our duty. Every Art should become Science and every Science should become Art”

The days celebrating Kalegala Utsava “KALOTSAVA-2K24” and National Level Project Exhibition “TECHNODEA-2K24” also remembering great people like Gautama Buddha and Rabindranath Tagore I wish all a very Happy May 2024.....

Lots of publications, conferences, achievements, participations of faculty and students have brought feather to the cap this month. Good pace of various Departments in conducting events is highly appreciable which shows the coordination of faculty.

Congratulating the entire team of Samarthy, Kalothsava, Technodea and Open House for the successful conduction of events, greeting the students for their sincere participation and hats to all Departments for balancing the jobs of framing syllabus, lets all assure ourselves to bring out the best always to uphold the success of the Institution to the greater height.

Focus on FOCUS and be a part of it.

Publications and Conferences

• **Dr. M. Nagaraja**, Professor, Dept. of Physics published a research paper entitled “Investigating the charge transport mechanism and dielectric properties in nickel oxide polyaniline nanocomposites”, Materials Chemistry and Physics, Volume 318, May 2024.

• **Dr. Sheshadri G S**, Professor, Dept. of EEE has published a journal entitled “UPQC based PI, FLC and ANN controllers to Analyze Steady State and Transient State of Grid Connected Solar PV System” in International Research Journal of Engineering and Technology on 5th May 2024.

• **Prof. Sujatha G S**, Asst. Prof. under the guidance of **Dr. H S Annapurna**, Professor & Head, Dept. of ISE presented a paper titled “An Advanced Machine Learning Techniques for Cyberbullying Pre-

vention” in International Conference on Computer Science & Technology Allies in Research organised by RRIIT, Bengaluru during 6th and 7th May 2024.

• **Mrs. Nanda K V**, Asst. Prof, Dept. of MCA has presented a paper titled “MediGlove: IoT and Machine Learning for Personalized Remote Health and Care” in the International Conference on Data Science and Information System (ICDIS- 2024), held on 17th to 18th May 2024, organized by Malnad College of Engineering, Hassan.

• **Dr. Kavyashree N**, Asst. Prof, Dept. of MCA has presented a paper titled “Automated Revisit Structural Brain Tumor Segmentation Framework using Machine Learning” in the International Conference on Hybrid and Advanced Technologies -2024 held on

26th to 28th April 2024 at QIS College of Engineering and Technology.

- **Mrs.Usha S**, Asst. Prof. in the Dept. of Civil Engineering has published a paper titled “Numerical Simulation of Eco Sustainable Construction and Demolition Waste (CDW) based Geopolymer Concrete Blocks as Coarse Aggregates by using ANSYS Software” in the journal IOP Conf. Series: Earth and

Environmental Science 1327 (2024) 012016, published by IOP Publishing.

- **Dr. Ghouse Ahamed Z**, Asst. Prof. in the Dept. of ECE published article entitled “Advancements in Image Denoising: a Deep Learning Perspective” in Industrial Engineering Journal: ISSN 0970-2555 Volume: 53, Issue 5, No.11, May: 2024.

Faculty Achievements

- **Dr. L Sanjeev Kumar**, Professor & Head Dept. of EEE, **Dr. N Pradeep**, Asso. Prof. Dept. of EEE and **Dr. Komala K**, Asst. Prof. Dept. of ECE have recognize as chairpersons for International Conference on Smart Systems for Applications in Electrical Sciences-2024 held at SIT, Tumakuru on 3rd and 4th May 2024.

- **Dr Pradeep A.R**, Asst. Prof, Dept of Civil Engineering, has reviewed and evaluated M.Tech thesis of UVCE Bengaluru student bearing title “Analysis of Pre-Engineered Buildings with openings in proportion to uniform stress to optimise the section” on 6thMay 2024.

- **Dr. Ashwini S Shivannavar**, Asst. Prof. Dept. of ECE successful completion of Ph.D. on “Feature Extraction for Detection of Lung Cancer Cells using Image Processing Techniques” at SSAHE under the able guidance of Dr. M Z. Kurian, Registrar, SSAHE on 15thMay 2024.

- **Dr. M.C Supriya**, Prof., and Head, Dept. of CSE(DS), **Dr. Pushpalatha K R**, Asso. Prof., Dept. of CSE(DS), **Dr Savitha C**, Asst. Prof., Dept. of AI&ML, **Dr. Ashwini K**, Asst. Prof. Dept. of BME and **Dr. Shilpa G N**, Asst. Prof. Dept. of EEE were the reviewers for the IEEE International Conference on Data Science and Information System (ICDSIS – 2024) held at MCE-Hassan during 17th to 18th May 2024.

- **Prof. Champakamala S**, Asst. Prof. Dept. of ISE and **Dr. N Pradeep**, Assoc. Prof. Dept. of EEE received certificate of appreciation for their support and cooperation in conducting SAMARTHYA 2024 held on 14thand 15th May 2024

- **Prof. Champakamala S**, Asst. Prof. Dept. of ISE received appreciation letter from Principal dated 24th May 2024, appreciating the amazing work that

she has accomplished in submitting project proposals and received grants from KSCST during academic year 2023-24.

- **Dr. Savitha C**, Asst. Prof., Dept. of AI&ML was the reviewer for IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE- 2024) at BITM-Ballari during 26th to 27thApril 2024.

- **Dr. Ashwini K**, Asst. Prof. Dept. of BME defended her final Viva Voice to receive the award of PhD. Degree on “Design and development of an Efficient algorithm for biomedical authentication using ECG and Iris” under the guidance of Dr.Keshava Murthy G N, SIT-Tumakuru.

- **Mrs. Madhumala G, Mrs. Prathibha S B, Mrs. Bharathi N** and **Mr.Sharath Babu CG** Asst. Prof., Dept. of CSE has successfully completed 12 week on-line certification course offered by NPTEL-AICTE, on “Blockchain and its Applications” by scoring 57%, “Cloud Computing” by scoring 60%, “Research Methodology” by scoring 63% and on “Introduction to Internet of Things” by scoring 70% respectively during Jan-April 2024.

- **Dr. Komala.K**, Asst. Prof. Dept. of ECE successfully completed NPTEL online course on “cloud computing” with a consolidated score of 68% from Jan –April (12 week course).

- **Mrs. Maanasa M R**, Asst. Prof. Dept. of ECE successfully completed NPTEL online course on “Python for Data Science” with a consolidated score of 72% from Jan –Feb (04 week course) and “Data Analytics with Python” with a consolidated score of 61% from Jan –April (12 week course).



Dr. Pradeep A.R, Asst. Prof. Dept. of Civil Engineering, has received Special Gold Medal for completing Ph.D in Civil Engg. from VVN Trust Bengaluru for the academic year 2023 on 12th May 2024

- Dr Raviram V, Professor, Dept. of CSE** was a judge for National level 24 hours HACKATHON-2024, an intra college technical competition organized by Dept. of Electronics and Communication Engineering, Akshya Institute of Technology, Tumaukur on 15th May 2024.



Dr. L Sanjeev Kumar, Professor & Head, Dept. of EEE was invited as a resource person for a session on “Building Entrepreneurial Mindset to create Successful Startup” organized by CSE Dept., CIT, Gubbi . on 16th may 2024.



Pradeep G R (22ME417), 6th sem secured first place in INNOVATION SPHERE: Project Expo organised by SAMARTHYA (SSIT-IEEE-WIE-SB) in SSIT, Tumakuru on 14th and 15th May 2024.

Student Achievements



Mr. Ankith R, Mr. B R Darshan, Mr. Tarun G and Mr. Tousif Pasha T A, 6th semester students from Dept. of EEE have participated and won First prize in “State level Student Project Exhibition”- Meraki-2024 for their mini project work titled “LPG Gas leakage Detection system” under the guidance of **Mr. D Venugopal Chavan, Asst. Prof.** organized by R R Institute of Technology, Bangalore on 3rd May 2024.



Ameer Salam of 3rd year ISE, and **Prajwal A** of 2nd year ECE representing team AAVISHKAR of SSIT secured 1st place for their project- ‘High security mail envelope with self-destruction capability’ at National level Hardware hackathon and a cash prize of ₹10,000 - at BGS Institute of Technology (Adichunchanagiri University) on 21th May, 2024.



Ms. Smitha G R, Ms. Vinutha Patil, Ms. Tanuja and Ms. Shubha, 6th semester students, Dept. of EEE, participated and won Third Place for their project entitled “Solar Powered Portable Air Cooler” under the guidance of Mr. Praveen Kumar C, Asst. Prof. in GMITEEE Project Expo-2024 project competition organized by G Madegowda Institute of Technology, Maddur, Mandya on 23rd May 2024.



Suhas H M, Mohammed Jaffar M, Karthik C and Ajay K K, 8th semester students, Dept. of EEE secured first place in Technodea 2024 for their project entitled “Dual axis solar tracking system using weather sensor and efficient power generation” under the guidance of Dr. Shilpa G N, Asst. Prof. held on 24th & 25th May 2024 at SSIT, Tumakuru.



Pradeep G R (22ME417), S S Sharma (22ME423), Mohammed Shadabb (22ME412) and Ullas M (22ME429) got First place in Hobby project expo organised by National level project exhibition TECHN-ODEA-2024 in SSIT Tumakuru on May 25th 2024.

- Mr.Lingaraju, Mr.Shivshankar A R and Mr.Veerashekaraswami Students of 8th Semester, Dept. of BME secured 1st place in “Technodea-2024” held on 24th& 25th May 2024 for their project titled “Treatment of uterine fibroid by using ultrasound guided radio frequency ablation” guided by Mrs. Latha K and Mr. Kantharaju, Asst. Profs. Dept. of BME.

- Channegowda T.S, Harshitha N, Meghana R, and Nithish Patel H.V students of 8th semester, Dept. of Civil Engineering, participated and received 1st place in Technodea 2024-National level student project exhibition held on 24th and 25th May 2024 at SSIT Tumakuru with the title “Development of Non cement concrete precast elements for sustainable development” under the guidance of Mrs. Supriya C.B, Asst. Prof. Dept of Civil Engineering.

- Bharath G K , Gagana Y, Fathima Shamshiya and Sindhushree N students of 8th semester, Dept. of Civil Engineering, have participated and received 2nd place in Technodea 2024-National level student project exhibition held on 24th and 25th May 2024 at SSIT Tumakuru with the title “Replacement of reinforcement by Bamboo” under the guidance of Dr. A.R Pradeep, Asst. Prof. Dept. of Civil Engineering.

- Sonika V and Pramodini S P of 4th semester under the guidance of Mrs. Nanda K V, Asst. Prof. Dept. of MCA received the certificate of excellence for securing 1st prize in the project titled, “To – Do App” in Technodea-2024, A National Level Project Exhibition and competition under PG Section held at SSIT, Tumakuru on 24th & 25th may, 2024 organized by Science & Technology Entrepreneurs’ Park, SSIT.



Pradeep G R (22ME417) got Second place in ROBO Race organised by National level project exhibition TECHN-ODEA-2024 in SSIT Tumakuru on May 25th 2024..



Manoj U (21ME415), Ganeshachari B (21ME409), Chithra Y (21ME406) and Manojkumar H M (21ME416), Guide Dr Annapoorna T L, Asst. Prof, Dept. of ME, Co-Guide Dr Batluri Tilak Chandra, Asst. Prof, Dept. of ME of project title “Development Of Drawbridge In Train For Physically Disabled People” got the first prize in National level project exhibition TECHNODEA-2024 organised in SSIT Tumakuru on May 25th2024.



Chandan kumar B(21ME404), Chiranjeevi T S(21ME405), Darshan B(21ME407), Manoj H (21ME414) and Guide Mrs Leela B N, Asst. Prof, Dept. of ME of project title “Development of Stair Climbing Robot with Wireless Control Systems” got the Second prize in National level project exhibition TECHNODEA-2024 organised in SSIT Tumkur on May 25th 2024.



Rohith M C(20ME013),Shashank N R (20ME014), Udaykumar R (20ME015) and G N Prajwal(21ME408) under the guidance of Dr. Batluri Tilak Chandra, Asst. Prof, Dept. of ME of project title “Development & Fabrication Of Pedal Operated Groundnut Oil Extraction Machine” got the first consolation prize in National level project exhibition TECHNODEA-2024 organised in SSIT Tumakuru on May 25th 2024.



Amogha varsha S M (21ME401), Harsha S M(21ME410) and Sanjay kumar K S(21ME421) under the guidance of Dr. Bhaskar H B, Associate. Prof, Dept. of ME of project title “Hybrid Charging Station” got the Second consolation prize in National level project exhibition TECHNODEA-2024 organised in SSIT Tumakuru on May 25th2024.

- A project proposal from final year students **Anu N Raj, Aditi Bagewadi, Aishwarya B R, Kushi J M**, Dept. of CSE, titled “Sense Harmony-An android app for disabled people(visually impaired ,hearing impaired and mental well-being)” under the guidance of **Mrs.Veena ND**, Asst. Prof. Dept. of CSE has won 1st best project award under CSE Dept. category in National Level Project exhibition and Competition “TECHNODEA-2024” organized by Sri Siddhartha Institute of Technology on 24th and 25th May 2024.

- A project proposal from final year students **Rakshitha D, Sharavani T K, Yashaswini N, Swathi S B**, Dept. of CSE, titled “Missing Child Identification” guided by **Dr.V.RaviRam**, Professor, Dept. of CSE,

won 2nd best project award under CSE Dept. category in National Level Project exhibition and Competition “TECHNODEA-2024” organized by Sri Siddhartha Institute of Technology on 24thand 25th May 2024.

- **Arfain Akhil N, Sneha V, Harshitha T and Nisha H R**, final year students, Dept. of CSE under the guidance of **Mrs. K Noor Fathima**, Asst. Prof, Dept. of CSE, won consolation prize, under CSE Dept. category, Project entitled “Multipurpose Agricultural Machine Robot” in National Level Project exhibition and Competition “TECHNODEA-2024” organized by Sri Siddhartha Institute of Technology on 24th and 25th May 2024.

- **Ranjitha A, Sahana D, Shilpa A M and Syeda Saba Fathima**, final year students, Dept. of CSE under the guidance of **Mrs. Madhumala**, Asst. Prof, Dept. of CSE, won consolation prize, under CSE Dept. category, Project entitled “Eye Blink Detection for paralyzed people” in National Level Project exhibition and Competition “TECHNODEA-2024” organized by Sri Siddhartha Institute of Technology on 24th and 25th May 2024.
- **Gritaeyu P Nisavan and Chintan G**, 6th semester students, Dept. of CSE, under the guidance of **Mrs. Bharathi N**, Professor, Dept. of CSE, won 2nd best hobby project award under Hobby 3rd year category, project entitled “Face Attend Pro” in National Level Project exhibition and Competition “TECHNODEA-2024” organized by Sri Siddhartha Institute of Technology on 24th and 25th May 2024.

- **Harsha H S**, 8th semester students from Dept. of CSE have been selected for an Internship (CSR Activity) in Gentech Academy.
- **Sinchana KY**, 21CS096, 8th semester students from Dept. of CSE have been selected for IEEE WIE Scholarship 2023-24, funded by Quest Global & Team with a Scholarship amount of RS 50,000.
- **Shilpa B, Shubha TK and Tushara S**, 8th semester students from Dept. of CSE have been selected as Business Development Trainees into EdiGlobe Online Service Pvt. Ltd with an annual package of 5.5 LPA.
- **Afreentaj and Rachana**, 8th semester students from Dept. of CSE have been selected for an Internship (CSR Activity) in Java Learning Center.
- **Mr. Shivakumara R**, 8th semester student Dept. of EEE has cleared the GATE 2024 with Score 20.33

Faculty Participation

- **Mrs. Usha S**, Asst. Prof. Dept. of Civil Engineering, has successfully completed both the NPTEL course and the Faculty Development Program (FDP) on “Concrete Technology”, organized by NPTEL - AICTE.
- **Mr. Praveen Kumar C**, Asst. Prof. Dept. of EEE has successfully completed NPTEL online course on “Project Management” with a consolidated score of 60%, a 8 week course from Feb-April 2024 and “EV-Vehicle Dynamics and Electric Motor Drives” with a consolidated score of 42%, a 8 week course from Jan-Mar 2024.

- **Mrs Roopashree C R**, Asst. Prof. Dept. of Mechanical Engineering Participated in the online one day National level Faculty development programme on “Research Paper Writing Using Tools” organised by research and development cell, ACE Engineering college, Hyderabad held on May 10th 2024.
- **Prof. Bharathi N**, Asst. Professor, Dept. of CSE has actively participated in Faculty Development Program on “Data Science and its Applications” in association with IEEE and IIC organized by the Dept. of Artificial Intelligence and Data Science, Don Bosco Institute of Technology, Bengaluru, from 13th to 17th May 2024.

Student Participation



Sachin Naik R, Raghavendra D Y, Gururaja A N and N Veeresh, 6th semester students under the guidance of **Dr. B S Yogananda**, Asst. Prof. Dept. of EEE project titled “PLC based Object Sorting Automation” participated in for national level technical symposium held on 3rd May 2024 at AIT, Chikkamagaluru.



Ganavi M S, Preetham N S, Ramya C P and Ruthvi K, 6th semester students Dept. of EEE project titled “Smart Irrigation based on PLC” under the guidance of **Dr. B S Yogananda**, Asst. Prof., participated in national level technical symposium held on 3rd May 2024 at AIT, Chikkamagaluru.

- **Keerthana R, Nandu Kumari G, Jayanth H L and Raghavendra R**, 6th semester students Dept. of EEE have participated in GMITEEE Project Expo-2024 project competition project entitled “PLC based colour sorting automation” under the guidance of **Mr. Praveen Kumar C**, Asst. Prof. organized by G Madegowda Institute of Technology, Maddur, Mandya on 23rd May 2024.

- The final year students **Bhoomika B U and Harshitha L Solanki** under the guidance of **Mrs. Champakamala S**, Dept. of ISE published a paper titled “Food Image Pattern Recognition and Recipe Generation Using Convolution Neural Networks” in International Advanced Research Journal in Science, Engineering and Technology, Impact factor 8.066,

Volume 11, Issue 5, May 2024.

- **Final year students Leena M S, Arushitha R K, Arshiya Banu and Kommineni Bhavyashree** under the guidance of **Mrs. Nandini G R**, Dept. of ISE published a paper entitled “Fake Product Review Monitoring and Removing Using Opinion Mining” in International Journal of Advanced Research in Computer and Communication Engineering with impact factor 8.102, volume 13, Issue 5, May 2024.

- **G. Kurra Naga Sai**, M.Tech Second year PG student (VLSI &ES) presented a paper in International Journal of Circuit, Computing and Networking 2024, paper titled “A comprehensive review of door lock security systems”.

Department Activities

- **Dr. Shilpa G N and Dr. Nataraja C**, Asst. Prof. Dept. of EEE have submitted a proposal to DST-FIST program 2024 on “Smart Grid Cyber Security Infrastructure to study the Cyber Attacks and suggest the counter measure scheme”. Project cost worth about Rs.3.0 Cr. submitted on 2nd May 2024.

- **Dr. Vivek V, Advisor to Chancellor, SSAHE and Dr. L Sanjeev Kumar**, Prof. and Head, Dept. of EEE have submitted a proposal to DST-FIST program 2024 on “Electric Vehicle Endline Testing and Emulator Lab” Project cost worth about Rs.3.0 Cr. Submitted on 2nd May 2024.

- Dept. of ISE had organised a value-added course on “Cloud Application Development” for 6th semester students from 13th to 15th May 2024. **Mr. Prasanna Kumar M**, Asst. Prof. was the resource person for the course.

- Dept. of CSE had organized an Internet of Things based Hobby Project Exhibition by the 4th semester Computer Science and Engineering students on 23rd May 2024.

- Dept. of ISE had organised Industrial visit to DELL Company for 6th semester students organised by on 29th May 2024.



Dept. of CSE conducted CODEBIZZ the Ultimate Coding Showdown, a coding competition for students from various branches of SSIT on 4th May 2024.



The event Ideathon-2024 was organised in the Dept. of ISE on 20th May 2024 under the convener **Mr. Prasanna Kumar M**, Asst. Prof. co-convener **Mr. Gangadhar M L**, Asst. Prof. and coordinator **Mr. Abhinav N D**, Asst. Prof., Dept. of ISE.



Tumakuru, Karnataka, India
 Scholars Building, Sri Siddhartha Institute of Technology, Tumkur Main
 Saraswathipuram, Tumakuru, Karnataka 572105, India
 Lat 13.321986°
 Long 77.091157°

On the Occasion of Technodea-2024 A National level Exhibition and Open House day held on May 24th Friday, 45 students of 4th semester Civil Engg. from BGSIT, Mandya visited the Dept. lab , research lab, project lab, STP, Library and Interacted with Principal, HoD and faculties. They expressed happiness and students got good exposure of both technical and non technical things inside the campus.



Dept. of EEE organized six days practical hands-on training on Electrical Switchgear & its applications by dbson universal power controls, on May 20th -22nd & May 27th-29th 2024 at step seminar hall, SSIT.



Dr. N Pradeep, Asst. Prof. co-ordinator of Energy Club and Dr. Sreenath K, coordinator of E&E Engineering Association jointly organizes technical seminar on “Indian Electricity Grid Codes” on 25th May 2024 at Dept. seminar hall, SSIT.

Sports



On account of Annual Sports Day 2023-24 “Prize Distribution Ceremony” was organized on 30th May 2024 at PG Seminar Hall, SSIT. Sri Rohith Gangadhar T R, Asst. Director, DYES, Govt. of Karnataka, International Fencing Player, Ekalavya Awardee, Karnataka Olympic Awardee, was the chief guest. Dr. Linge Gowda K B, Vice-Chancellor, SSAHE and Dr. M Z Kurian, Registrar, SSAHE were the guest of Honour. The event was presided by Dr. M S. Raviprakash, Principal, SSIT and Mr. Rudresh K R, Physical Education Director, SSIT was the event organizer.

Placement News

117 students got placed in the month of May for various companies like In Time Tec (4 students), ITC INFOTECH (13 students), eLitmus (1 students), Code Young (2 students), Sanketika (10 students), Kalvium (18 students), Technologic Global (3 students), Kalpataru Projects International Ltd (2 students), Mu Sigma (1 student), Rinex (9 students) and Biltech (12 students). EdiGlobe Online Services Pvt. Ltd(10 students), Ever Green Solutions(32 students), EdiGlobe Online Services Pvt. Ltd (10 students), Ever Green Solutions : (32 students).

115 students got Internship opportunities from 15 companies.

This is not the end, still recruitment process is in progress. The registration link has been shared to the students for the companies like upGrad, Geeksfor-Geeks, Sapiientury Pvt Ltd., Nokia Internship, Byjus, Emertxe Information Technologies, Immensphere, FACE Prep, KGIS Mega Walk In, Hyrathon, Techmahindra, Panacea Medical Technologies Pvt Ltd., Westline Shipping Group, Teachnook, TCS and edi-globe.

NSS



SWACHCHA BHARATH ABHIYAN activity was organised at Sri Malleshwara temple, Halanur (15 kms from Tumakuru). 86 students took part in this activity. Swachcha Bharath pledge was administered to the NSS volunteers. 10 groups were formed. Each group was given a particular task with respect to cleaning. The temple premises and roads leading to the temple were cleaned. Later the NSS volunteers interacted with villagers and they stressed the importance of cleanliness, hygiene in and around their living place and also educated about hand washing before taking food daily. Dr. B. S. Ravikiran NSS Programme coordinator, SSAHE and Prof. S. H. Jeevith, NSS Officer SSIT, Tumakuru were present on the occasion.

College Events



Dr. T R Hemanth Kumar, Professor, Dept. of Mechanical Engg. was assigned as Head of the Department of Mechanical Engineering in May 2024.



Dr. Suma R, Prof., Dept. of ISE, Asst. Registrar (Exam) was designated as Dean (Exam) in May 2024. Dr. Pushpalatha K R, Asso. Prof., Dept. of CSE (DS) was assigned as Coordinator, Exam Section.



Dr. Channakrishnaraju, Professor, Dept. of Computer Science & Engineering was assigned as the Head of the Department of AI&ML in May 2024.



“SAMARTHYA-2024”, Connecting through Innovations was organised on 14th and 15th May 2024. Prof. Ashwini Holla, Chair, IEEE-WIE-AG, Bangalore Section, Canara Engineering College, Mangaluru was the chief guest. Dr. Linge Gowda K B, Honourable Vice Chancellor, SSAHE and Dr. M. Z Kurian, Registrar, SSAHE graced the occasion. Dr. M S Raviprakash, Principal, SSIT was the president of Samarthya-2024. Dr. M N Eshwarappa, Prof., & Head, Dept. of ECE, Branch Counsel, SSIT-IEEE-SB, Dr. Savitha D Thorvi, Prof., Dept. of ETE, Branch Mentor, SSIT-IEEE-SB and Dr. Sharada Gupta, Asst. Prof., Dept. of ECE, Faculty Advisor, SSIT-IEEE-WIE-AG was the organizing Team. Koushik Pai, 8th Semester ISE, Chair, SSIT-IEEE-SB, Sagar Sonale, 8th Semester ECE, Vice-Chair, SSIT-IEEE-SB, Anagha Arvind, 8th Semester ECE, Chair, SSIT-IEEE-WIE-AG and Amodh Jain, 8th Semester CSE, Coordinator, Samarthya 2024 were the student team. Various competitions like Quiz, Coding, Debate were conducted for the students of all branches and faculty of various Departments across the Institute were invited as judges for the events conducted.

- Delegates from Avalon University, School of Medicine, Willestad, Curacao had visited SSIT campus on 27th May 2024, on the occasion of MOU signing Ceremony with SSAHE-Tumakuru.

“KALOTSAVA-2024”



“KALOTSAVA-2024” the National Level Intercollegiate cultural fest of Sri Siddhartha Institute of Technology celebrated on 17th and 18th May 2024. On 17thMay at 9:30am the inauguration of the event was made by Smt.Kannika Parameshwari, Honourable Director, Governing Council, SSES, Tumakuru and Mr. Vidwan Yashwanth M G, Playback Singer, Zee Kannada Saregamapa, was the chief guest. Dr. Linge Gowda K B, Honourable Vice Chancellor, SSAHE, Dr. M.Z Kurian, Registrar, SSAHE and Dr. Vivek Veeraiah, Advisor to Chancellor, SSAHE graced the occasion. Dr. M S Raviprakash, Principal, SSIT was the president of Kalotsava-2024 and Dr. Renukalatha S, Prof. and Head, Dept. of CSE, Dean(Aca) was the Chairman of Kalotsava-2024.

The day was continued by various events and competitions like Quiz, Debate, Turn coat, Mehendi, Rangoli, Cooking without Fire, Singing, Dancing... etc For more than 35 events were conducted throughout 17th and 18thof May, followed by Valedictory function on 18th May at 6:30pm. Mr. Ashwin Sharma, Playback Singer, Zee Kannada Saregamapa, Champion of Champions was the chief guest.

“TECHNODEA-2024”



“TECHNODEA-2024” the National Level Project Exhibition organised on 24th and 25th May 2024. On 24th May at 10:00am was the inauguration of the event and Mrs.Ashwija B V, IAS, MD & CEO, TSCLC, Commissioner, TMC Tumakuru and Mr.Chethan Sampige, Senior Manager, Equipment & Capacity Growth GE BE India Pvt.Ltd., GE Healthcare, Bengaluru were the chief guests. Dr. Linge Gowda K B, Honourable Vice Chancellor, SSAHE, Dr. M.Z Kurian, Registrar, SSAHE and Dr. Vivek Veeraiah, Advisor to Chancellor, SSAHE were the guests of honour. Dr. M S Raviprakash, Principal, SSIT was the president of Technodea-2024 and Dr.L Sanjeev Kumar, Prof. & Head, Dept. of EEE, Director, STEP-SSIT

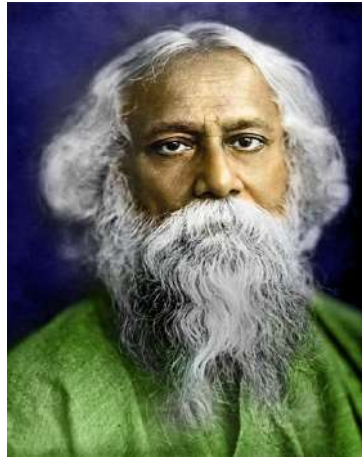
was the Convenor of Technodea-2024. The event was followed by evaluation of all the projects categorized separately for Hobby Projects and UG and PG final year projects, by the judges invited from various Institutes and Industry. It was followed by Valedictory on 25th May at 4:30pm and Mr. Gangesh Gunjan, Regional Manager, Canara Bank, Tumakuru was the Chief Guest.

24th and 25th May also was the Open Day organised for the high school and PU college students for seeing the projects and labs of various Departments of SSIT and Dr. Manjula Yerva, Asso.Prof., Dept. of AI&ML, Dea(SW) was the coordinator for the same.

Person of the month

Rabindranath Tagore (Born on May 7, 1861)

Rabindranath Tagore, also known as Gurudev, was a multifaceted genius from India who made significant contributions to literature, music, and art. Born on May 7th, 1861, in Kolkata (then Calcutta), Tagore was a poet, playwright, composer, philosopher, and painter. He is most famous for reshaping Bengali literature and music, as well as Indian art with contextual modernism. In 1913, Tagore became the first non-European to win the Nobel Prize in Literature for his book "Gitanjali" (Song Offerings), a collection of deeply spiritual and lyrical poems. He wrote numerous poems, stories, novels, essays, and plays. Some of his notable works include "Gora," "Ghare-Baire" (The Home and the World), and "Chokher Bali. His works often dealt with themes of humanity, nature, and the interplay between individual freedom and societal



constraints. Tagore wrote the national anthems of two countries: "Jana Gana Mana" for India and "Amar Shonar Bangla" for Bangladesh. In 1921, Tagore founded Visva-Bharati University at Santiniketan, aiming to blend the best of Eastern and Western educational traditions. The institution became a center for the arts, humanities, and culture. Tagore was an outspoken advocate for social reform. He spoke against British colonial rule, social inequality, and

the caste system.

Rabindranath Tagore's legacy continues to thrive in the fields of literature, music, education, and art. His works are still widely read, performed, and studied.

Tagore passed away on August 7th, 1941, but his influence endures, making him a towering figure in global literature and culture.

Quote of the month



"Embrace every new day with gratitude, hope and love"

| Lailah Gifty Akita



Technical Article

Securing the Future: Post-Quantum Cryptography for a Quantum-Safe World

The digital age thrives on secure communication. We rely on encryption to safeguard sensitive information, from online transactions to confidential government communications. However, the very foundation of this security - traditional cryptography - faces a looming threat: quantum computers.

Quantum computers harness the principles of quantum mechanics to perform calculations that are intractable for classical computers. While still in their nascent stages, these machines have the potential to break the encryption algorithms widely used today, jeopardizing the security of our digital infrastructure.

This vulnerability is where Post-Quantum Cryptography (PQC) steps in. PQC refers to the development of cryptographic systems that are resistant to attacks by both classical and quantum computers. It's a crucial area of research aimed at safeguarding the future of cybersecurity in a quantum computing era.

Why is Traditional Cryptography Vulnerable?

Traditional public-key cryptography relies on the mathematical difficulty of certain problems, such as factoring large numbers or solving the discrete logarithm problem. These problems are computationally expensive for classical computers, making it impractical to break the encryption.

However, quantum computers can leverage their unique properties to solve these problems significantly faster. Shor's Algorithm, a theoretical breakthrough in the 1990s, demonstrated how a quantum computer could efficiently break these traditional encryption schemes.

The potential consequences are dire. If left unaddressed, a functional quantum computer could compromise the security of critical infrastructure, financial systems, and sensitive communications.

The Rise of Post-Quantum Cryptography

The potential threat posed by quantum computers has spurred a global effort to develop PQC algorithms. These new algorithms are based on different mathematical problems that are believed to be resistant to quantum attacks. Here are some promising approaches:

- **Lattice-based cryptography:** This method utilizes the properties of mathematical lattices, which are structured grids of numbers. Breaking the encryption involves

finding a specific point within the lattice, a task believed to be challenging for quantum computers.

- **Code-based cryptography:** This approach relies on error-correcting codes, which are sets of mathematical objects with specific properties. Decoding a message encrypted with a code-based scheme is thought to be computationally difficult for quantum computers.

- **Multivariate cryptography:** This technique utilizes complex systems of polynomial equations. Solving these equations to break the encryption is believed to be intractable for quantum computers.

The National Institute of Standards and Technology (NIST) in the US is leading a global initiative to standardize PQC algorithms. In 2023, NIST announced draft standards for three promising PQC algorithms, paving the way for their wider adoption.

Challenges and Considerations

While PQC offers a promising path forward, there are challenges to consider:

- **Performance:** PQC algorithms often require larger key sizes and more computational resources compared to traditional methods. This can impact performance on resource-constrained devices.

- **Interoperability:** Transitioning to PQC necessitates updating existing systems and protocols to accommodate the new algorithms. This requires significant effort and coordination across the technology landscape.

- **Standardization:** Ongoing research is crucial to refine and standardize PQC algorithms. Selecting robust and secure algorithms that are efficient and interoperable is vital.

The Road Ahead: Building a Quantum-Safe Future

Despite the challenges, proactive measures are being taken to prepare for the quantum era. Here's what we can expect:

- **Continued research and development:** PQC is a rapidly evolving field. Continued research is essential to refine existing algorithms and explore new approaches.



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June Notifications

- i) Companies like upGrad, GeeksforGeeks, Nokia Internship, Byjus, KGIS Mega Walk In, Hyrathon, Techmahindra, Panacea Medical Technologies Pvt Ltd., Westline Shipping Group, Teachnook, TCS and ediglobe etc. are expected.
- ii) Department fests are to be organized.
- iii) Semester End Exams to be conducted.
- iv) Net exam is to be conducted on 18th June 2024.

PHOTO GALLERY





