Editors message

Warm Greetings of New Year 2024……….

Wishing all our readers a very happy, healthy and prosperous year ahead, FOCUS the monthly newsletter is a crown of Sri Siddhartha Institue of Technolgy, that covers the entire scenario of activities and events at the Institute. With the sanctified support of Management, Principal, the hard work and cooperation of the Editorial team members, Department activity coordinators, Student coordinators, team from Media Studies and all contributors behind the screen, we are able to get the best to the newsletter.

The Institute has undergone internal audit (AAA) of all Departments organized by IQAC, celebrated Republic Day, bagged VGST fund, NCC, NSS activites, winding up with visit to SRM University and many other events. Congratulating the raising achievements of faculty and students from the bottom of my heart, FOCUS solicits the similar enthusiasm and assistance in the coming days too.

Directly or indirectly all family members of SSIT are accountable for successful editions of newsletter. Read, participate and join hands for further success of FOCUS.

| Dr. Vidyalakshmi K, Chief Editor

Publications and Conferences

1. Dr. Ravi Prasad D and Mrs. Shaheena Khanum has Published a paper entitled "An In Depth Look at Multi-Tier Inverters for Grid Linked System uses" in International Journal IJCRT on 1st January 2024.

2. Dr. Umadevi K B , presented a research paper on "Inclined magnetic field impacts on SWCNT and MWCNT flow across a wedge in a Williamson nanofluid" in the International Conference on Advances in Applied Mathematics (ICAAM-2024) held on 10th and 11th January 2024, organized by the Department of Mathematics, University College of Science, Tumkur University.

3. Prof. Latha K and Dr. Raju A S presented a paper in Spinger conference titled "LE-Net: A deep learning based multimodal biometric authentication system by using LIP and ECG data" (paper ID: 166) in the International Multi-Conference on Advances in Information Technology, Communication, and Energy Systems (AITCES 2024) organized by Dr. AIT, Bangalore, held on 24th January 2024.

4. G K Ramesh, G R Manohar, et. al., published a research paper on "Thermal aspects of a radiative-convective semi-spherical porous fin of functionally graded material", In the European Physical Journal Plus, 29th January 2024 Vol. 139 Issues: 97, Page No. 1-13 (Springer).

Faculty Achievements

1. Dr. L Sanjeev Kumar, Professor and Head, Dept. of EEE, was an invited as speaker at ICAR-NIVEDI National level workshop on "Design Thinking, Critical Thinking & Innovation Design" held at CIT-Gubbi during 3rd – 5th January 2024.

2. A project proposal entitled "Establishment of Ethical Hacking - Centre of Excellence Lab" submitted by Dr.Annapurna H.S. has been selected for a research grant of Rs.20 Lakhs by VGST, GoK, under KFIST-L1 notified on 12th January 2024.

3. Dr. Ravikiran B S (NSS Officer), was invited as special guest for Inauguration of NSS camp at Govt. Polytechnic, Tumakuru on 18th January 2024.

4. Dr. Vivek Veeraiah, Assoc. Professor, Dept. of CSE has successfully defended his Ph.D thesis on 19th January 2024 under the guidance of Dr Ravikumar G K, Prof & Principal, Dept. of CSE, BGSCET, Mahalakshmipuram, Bangaluru, thesis titled "Internet-of-Things based Social Entrepreneurship for Future Generation: A Critical Study and Strategic Solutions towards developing countries."

5. Dr. Renukalatha S, Prof. & Head, Dept. of CSE has published a Book on "Digital System Design", Scientific International Publishing House, First edition, ISBN:978-93-5757-666-6.

6. Dr. M. Nagaraja, Professor, Department of Physics was one of the reviewer of "2024 IEEE International Conference On Recent Innovation In Smart And Sustainable Technology (ICRISST-24)".

7. Dr.Sunil K, Head Dept. of Chemistry, was one of the reviewer for the Journal "Current Pharmaceutical Design", Bentham Science Publications, USA/UAE & Netherlands.

8. Physical Education Director of Sports Department, Mr. K R Rudresh was invited as the chief guest by Sri Chaitanya Techno School Tumakuru, during their annual sports day on 31th January 2024.

Student Achievements

1. Vineeth, Syed Junaid, Suhas P, Thanuj, Sanjay, Vinay a team of 6 students of 3rd semester, Dept. of CSE have designed a model of PythonPitch: IPL Run Prediction Engine during an Internship Program on "AI and its Application" held from 6th to 12th January 2024 in association with MEVI Technologies, Bengaluru.

2. Darshan Kumar G R, 7th Semester ETE student, was felicitated on 26th January 2024, during the Republic Day celebration held at Govt. P U College, Gubbi for his outstanding achievements in Sports.

Faculty Participation

1. Dr. Savitha C, Dept. of AI&ML has successfully completed a live workshop on "Power Point using AI and Chat GPT" on 6th January 2024.

2. Prof. Swarnalatha G L, Asst. Prof, Dept. of CSE has participated in the workshop on "Mathematics and Cyber Security" organized by Division of Mathematics, School of Advanced Science, Vellore Institute of Technology, Chennai on 8th and 9th January 2024.

3. Dr M C Supriya , Head Dept., of CSE(DS) and AI&ML has successfully completed 30 Days "Web Development Master Class Full Stack" from 11th December 2023 to 10th January 2024.

4. Prof. Babitha M N, Asst. Professor and Prof. Veena N D, Asst. Professor, Dept. of CSE have participated in 10 hours National Faculty Development Program on Blockchain Technology organized by Ramrao Adik Institute of Technology-D.Y Patil Deemed to be University, Bishop Heber College and SR University in collaboration with ExcelR Edtech Pvt. Ltd during 8th to 12th January 2024.

5. Prof. Bharathi N, Asst. Professor, Dept. of CSE has participated in One Week National Level Online Faculty Development Program on "Outcome Based Education and Essential AI Tools" for Teachers organized by the IQAC of St.Thomas College, Palai in association with The Kerala State Education Council(KSHEC) from 10th January 2024 to 16th January 2024 and secured an A grade.

6. Prof. Purnima P S has completed a 3-day faculty development program on "Universal Human Values" organized by Electronics and Communication, Manipal Institute of Technology, Bangalore under the AEGIS of AICTE, New Delhi from 11th to 13th January 2024.

7. Prof. Bharathi N, Asst. Professor, Dept. of CSE has participated in the State Level Workshop on "Computer Simulation using Cisco Packet Tracer" organized by Department of Computer Science, Government First Grade College, Kadugudi in association with IQAC on 18th January 2024.

8. Dr. Sreerangappa M, Associate Professor, attended AICTE Training and Learning-FDP on the topic "Design Build and Real-world usage of Drones", held at Reva University, Bangalore, during 8th January 2024 and 13th January 2024.

9. Prof. Raju A S, Prof. Ashwini K and Prof. Pranoti K S has completed a 7-days online Faculty Development Program on "Exploring the NEXUS of Industry 4.0 and Healthcare – context, applications, advantages and challenges" organized by the Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai during January 18th - 24th 2024.

10. Mrs.Kavya N, Asst. Prof., attended FDP titled "A Global Symposium on Sustainable Development in Civil Engineering" organized by the Department of Civil Engineering, Dr. D Y Patil Institute of Technology, Pimpri, Pune through International Students Chapter of American Society of Civil Engineers (ASCE) on 19th and 20th January 2024.

11. Prof. Roopa T, Dept., of ISE has participated in 7 days online International Faculty development Program on "Latest Trend and Techniques in Software Engineering : An Industry Perspective" from 20th to 27th January 2024 organized by the Department of Computer Science, CHRIST (Deemed to be University), Bangalore Central Campus, Bangalore, Karnataka, India.

12. Mrs Sahana T.S, Asst. Prof., participated in a webinar on "Building Construction Management" by Mr.Natarajan conducted by Keylynk Business Consulting Pvt Ltd, Bangalore on 24th January 2024.

13. Mr.Akshay J, Asst. Prof., participated in the Presidency University Masterclass on "Soil Engineering: Coupled Processes and Applications" delivered by Prof. Hossam Abuel-Naga, Professor & Head of Engineering Department, La Trobe University, Australia organized by Department of Civil Engineering, School of Engineering in association with office of International Affairs, Presidency University, Bengaluru, on 24th January 2024.

14. Mrs.Ashwini K J, Dept., of MCA has successfully completed the state level online workshop on "Computer Network Simulation using Ciscopacket Tracer" organized by Dept of Computer Science, Govt First Grade College, Kadugudi, Bengaluru.

Student Participation

1.   Rohith Krishna of 3rd Semster ECE student, attended 4 days workshop on "Present & Future computing Systems" at IISc, Bangalore during 12th and 15th January 2024, who was one among the 40 participants selected among 1000 applicants.

Department Activities

BROADCAST – 24, Empowering Connectivity ETE Students Association function Inauguration was held 8th January 2024, Monday at PG Seminar Hall, SSIT Campus for the first time, previously was organized jointly with other circuit branches. The Inauguration of Broadcast-2024 marks the commencement of different technical, non- technical and sports events for ETE students. Dr.Minal Moharir, Professor & Co-ordinator of Cyber Security program, Dept., of Computer Science & Engineering, R V College of Engineering, Bengaluru was the chief guest.Inaugural function was presided by Dr. M S Raviprakasha, Principal, SSIT, Tumakuru in presence of Chairman Dr. Suma G, HOD, Dept. of ETE, Staff Coordinator Dr. Puneeth Kumar D N and Student Coordinators Chaitrashree R & Darshan Kumar G R and all the teaching and non-teaching staff and students.

A one-day workshop was organized on "Basic Computer Skills" by 3rd semester students of ISE Department for children of Government High School, Kyathasandra, Tumakuru, on 8th January 2024, as a part of extention activity of Department.

Department of CSE in association with MEVI Technologies, Bengaluru had organized a Two Days Value Added Course Program on "Android Application Development" for 3rd semester students from 4th to 5th January 2024. Faculty Coordinators: Mr.Gopala T, Mrs. Bharathi N and Mrs. K Noor Fathima, Asst. Professors, Department of CSE.

Seminar on "AWS Cloud and DevOps Platform" was organized by Department of Master of Computer Applications on 6th January 2024. Mrs . Naveen Taj (Lead Cloud. DevOps Engineer, Medibuddy, Bangalore) was the resource person who addressed on training for placement on AWS Cloud and DevOps platform.

Department of CSE had organized 6 days Internship Program on "AI and its Application" for 3rd semester students from 6th to 12th January 2024 in association with MEVI Technologies, Bengaluru. Faculty Coordinators: Mr.Gopala T, Mrs. Bharathi N and Mrs. K Noor Fathima, Asst. Professors, Department of CSE.

Launching of Mechanical Engineering Department Magazine Yanthrik 2022-23 and Newsletter were held on 9th January 2024 in Inaugural Function of Department Activities 2024. The chief guest Mr.Padmesh Gowda, Service Manager, RENAULT, Tumakuru and Dr.M.S.Raviprakasha, Principal, Dr.S.Renukalatha, Dean (Academics) staffs and students of Mechanical Department were present on this occasion.

"PARISHRAMA" Activity Club, by the student and for the student, ECE Dept., organised a ECE Skill Development activity on the topic, "Printed Circuit Board (PCB) Design", Santhosh Kumar and Ameen Ahamed of 7th Sem ECE Student, trained 3rd Sem ECE students and demonstrated the work. All the ECE students are participated and demonstrated the work individually, on 10th January 2024.

An industrial visit to DELL Technology for the students of 3rd Semester ETE was organized on 24th January 2024 to provide them in-depth knowledge about Internal Servers and operations labs and different kinds of servers. Dr. Srinidhi G A and Mrs.Swarnamba S were the faculty coordinators.

An industrial visit was organized for AI&ML students to IISc, Bangalore on 19th January 2024 to give them a glimpse of exposure for which Dr. Savitha C was the coordinator.

ElectroTec-23, Dept. Association activities continued with "Hobby Project Work Exhbhition-23" by 3rd Semester students,was organized on 11th January 2024, at Project Lab, ECE Dept., Project was evaluated by Dr. Guruprasad and Mr. Yogesh, from BME Dept., and ETC Dept., SSIT-Tumakuru.

Dept., of CSE had organized an awareness program on Digital Computer Literacy under the Rural Community Service Club at Government Primary School, Hulikunte, Koratagere and created awareness about computer education to rural school children on 20th January 2024. A Team of 20 students of 3rd semester were the volunteers and Mrs. Babitha M.N, Mrs.Prathibha S.B, Mrs.Bharathi N and Mrs.Bhoomika P, Asst. Professors, Dept., of CSE were the faculty coordinators.

College Events

Dr.Vidyalakshmi K, Assistant Professor, Dept. of CSE(DS) took the charge as Chief Editor of FOCUS, SSIT monthly news letter, on 2nd January 2024 with a new editorial team formed.

10 Faculty members of various Departments represented SSIT at "SAMAVESHA" program to bridge a gap between researchers and academics organized by I-STEM in association with IISc Bangalore on 17th January 2024.

75th Republic day was celebrated at SSIT for which more than 200 staff 50 students participated. Dr.S.Renukalatha Dean (Academics), SSIT hoisted the flag and delivered Republic day message who spoke about the importance of Republic day celebrations, constitution and fundamental rights on this occasion. Faculty members also shared their thoughts on this occasion. The program ended with vote of thanks by Mrs.Nirmala.G Dept., of CSE. The program was coordinated by Mr.Rudresh K.R., Physical Education Director, SSIT.

IQAC had organized, Internal AAA audit for all the Departments across the Institution on 19th January 2024 for the academic year 2022-23.

Nominations were invited from the faculty for the posts of office bearers of SSIT Alumni Association. With regards to this, SSIT Alumni Association general body meeting was held on 22nd January 2024 and the below general body was nominated.

(i)   Dr. V Raviram, was elected unanimously as Vice President by the members.

(ii) Prof. Jeevith, was nominated as Secretary cum treasurer.

(iii) Prof. G L Swarnalatha, was nominated as Joint secretary.

Placement News

Kodnest company has placed students for Internerships for 9 students of variuous Departments under CSR activities.

The entrance exams for the post of Police Constables was held at SSIT on 28th January 2024, where 900 students across the state had written exams in our campus for which Dr. M.N.Nagaraja (Dept., of Physics) was the Coordinator.

A team of 10 faculty of which 8 were from SSIT, led by Hon'ble Vice Chancellor, SSAHE, had visited SRM University and A R Crescent Institute of Science and Technology, during 29th and 30th January 2024 as a part of elite interactions with Institutions of the country.

Martyrs' Day 2024 was observed in SSIT, Tumakuru on 30th January 2024 in memory of those who sacrificed their lives during the struggle for India's freedom and to commemorate death anniversary of Mahatma Gandhiji. Deans, HoDs, teaching & non teaching staff members and students observed two minutes silence to pay homage to the Indian martyrs who ought for the freedom of India. Dr.B.S.Ravikiran NSS Programme Coordinator SSAHE and Prof.S.H.Jeevith, NSS Officer, SSIT were present on the occasion.

NCC Activities

Plogathon-2024 was organized at SSIT, Tumakuru on 12th January 2024 in association with Tumakuru city Corporation, NCC unit of SSIT on account of National Youth Day. Dr.M.Z.Kurian, Registrar inaugurated the event reiterated that the endeavours under the Swachh Bharat Abhiyan have been instrumental in bringing about behavioural change towards cleanliness a concept that has evolved into a wider phenomenon encompassing sustainable development and environment conservation. Dr.M.S.Raviprakasha Principal SSIT highlighted on the importance of cleanliness and waste management.

He encouraged the students to take up waste management project works. Mr.Dharnendra Kumar Corporator called upon the students to preserve the nature for next generation. Dr.R.Prakash Asst. Registrar, Dr.H.V.Jayaprakash, NCC Officer Dr.B.S.Ravikiran NSS Programme Coordinator, Prof. SH Jeevith, NSS Officer, HoDs, Teaching and non Teaching staff, Mr Rajesh Revenue inspector, staff of Tumkur city corporation were present on the occasion.

Nearly 250 staff and students took part in this activity. Plogging event started by collecting trash during jogging. Later tree saplings were planted in a park near to SSIT.

National Youth day-Plagathon was organized in association with Tumakuru city corporation, Tumakuru

NSS Activities

National Voters' Day was observed at SSIT, Tumakuru on 25th January 2024 to mark the Foundation day of Election Commission of India, which was established on 25th January 1950. The main purpose of the National Voters' Day celebration is to encourage, facilitate and maximize the enrolment, especially for the new voters. Dedicated to voters of the country, this Day is utilized to spread awareness among voters for promoting informed participation in the electoral process. Dr.D.Rajanaik, Dean (Humanities), Sri Siddhartha Institute of Technology, Tumkur highlighted of importance of voting in any general elections and administered the voters' pledge to the students. Dr. B.S.Ravikiran, NSS Programme Coordinator, SSAHE, Mr.S.H.Jeevith, NSS Officer, HoDs, faculty and non teaching staff, SSIT were present on the occasion.

Quote of the month

"
Keep your face always towards the sunshine, and shadows will fall behind you
"

Person of the month

Aluru Seelin Kiran Kumar: Pioneering the Indian Space Odyssey

Aluru Seelin Kiran Kumar (born 22 October 1952, at Hassan, Karnataka) is an Indian space scientist and former chairman of the Indian Space Research Organisation(ISRO).Having assumed the office on 14th January 2015, he is credited with the development of key scientific instruments aboard the Chandrayaan-1 and Mangalyaan space crafts. In 2014, he was awarded the Padmashri, India's fourth highest Civilian Award, for his contributions in the field of Science and Technology. Kiran Kumar previously has served as Director of Ahmedabad Space Applications Centre.

Technical Article

Witricity (Wireless Electricity) – The Future?

Ever wondered of getting electricity just like your internet? Well, this concept of transmitting electricity wirelessly dates back to 1899, when Nikola Tesla proposed this ground breaking concept in power transmission. Unlike traditional methods that rely on wires, Witricity offers a fresh approach, providing an advanced means of delivering electrical energy.

How Witricity Works: At its essence, Witricity operates through two key methods: direct induction and resonant magnetic induction. Direct induction creates a connection between two conductors, where changes in current in one conductor induce voltage in the other—akin to the principles found in transformers. Resonant magnetic induction, on the other hand, facilitates energy transfer between wires tuned at the same frequency, guided by a device known as a resonance transformer. The combination of these methods lays the foundation for wireless electricity transmission.

 Embracing Witricity comes with a host of advantages. Primary among them is the elimination of physical clutter, allowing for more adaptable designs without the need for conventional wires. Witricity proves especially advantageous in scenarios where traditional wiring poses challenges or risks. The technology opens doors to inventive applications in fields such as electric vehicle charging and medical devices, promising enhanced convenience and efficiency.

Witricity faces challenges worthy of consideration which includes energy loss during transmission, potential electromagnetic interference, and the necessity for precise alignment between transmitter and receiver. Safety considerations, particularly in high-power applications, demand careful attention. Additionally, initial implementation costs and the need for infrastructure development present challenges to widespread adoption.

Witricity emerges as a catalyst for the future of power transmission, offering a glimpse into a world where the limitations of wires become a thing of the past. The journey ahead promises a redefined landscape of electricity transmission, with Witricity poised to lead the way into a wire-free future.

| Sheeba Aaliyah K J (22EE081)
3rd semester, Dept. of EEE
SSIT-Tumakuru

February- Notifications

(i)   Zithara Technology, People Tech, LG Soft, KPIT and many more companies are expected in the month of February for placements.

(ii) MoU to be signed with ExcelR company.

(iii) 3rd Semester SEE begins from 13-02-2024.

(iv) Results of 1st, 5th and 7th semester are expected in the last week of February 2024.

(v)   Students will participate in Open Day of IISc-Bangalore (24-02-2024).

(vi) FDPs to be organised benefiting the faculty by various Departments.

PHOTO GALLERY