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Editor's message

- I thank all my team members for the help and support extended during my tenure as chief editor. I congratulate Dr.Vidyalakshmi.K for assuming the charge as chief editor. I wish new team all the best.
- SSIT has bagged "Engineering college of the year 2023, Skill development" award.
- Distict Police Department, NCC, NSS , IQAC, IIC ,Energy club, Department of EE jointly organised "Drug Awareness Program" for the first year students. Sri Ashok K.V, SP, Tumkur, was the chief guest and he spoke on ill effects of Drugs.
- A team from C-DAC Bangalore led by Dr Sanjay, joint Director C-DAC visited SSIT.
- A team of 8 students of SSIT represented SSAHE at the South Zone Inter University Volley Ball Championship, held at PESCE, Mandya.



Events

- 1.Around 100 Students of Empress Government High School, visited SSIT campus on 13.12.2023. They had a guided tour of the campus in 2 groups, organised by NSS unit (Coord.: Dr. B.S.Ravikiran).
- 2.Department of Home affairs, IQAC, IIC and Energy club, Department of EE jointly organised "Drug Awareness Program" on 20/12/2023, for the first year students. Sri Ashok K.V, SP, Tumkur, was the guest of honour and he spoke on this occasion at length on the said topic. On this day, the NCC cadets, SSIT actively participated in "Narcotics and Drugs prevention Rally" organised by the police department, Tumkur.
- 3.SSIT-EED-Energy club jointly organised "Energy Conservation Awareness Program" for Empress Girls Govt. P U College, Tumkur, on 13.12.2023. (Coord: Dr. Pradeep M), A seminar was also arranged for EED students on this occasion, on Energy Conservation Opportunities.
- 4.Praveen Kumar (EE), Jeevith (ETE), Ravisimha (EC), Dr. Shilpa (EE), Prathibha (CS), Usha and Sowjanya (CVL)... Visited Reva University, Bangalore, in connection with IFC-Regional meet 2023, on 09.12.2023, organised by Ministry of Education Innovation cell and AICTE.
- 5.Dr. Arvind Singh, Wing commander, Commando Hospital, Bangalore, Mr. Manish, Amazon and Rajesh, AVP, ENVEST NET Co., visited SSIT on 09.12.2023 and interacted with HoDs and faculty of various departments with respect to the possible academic collaborations with SSIT (Coord.: Dr. H.V.Jayaprakash)
- 6.7th Sem. Students of BME Department visited SKanray Tech. Mysore, as part of their "Industrial visit" on 23.12.2023.
- 7.Dr. N Pradeep and Dr. L Sanjeev kumar, (Energy club Coordinators) organized Energy Conservation Awareness program at SSIT, during 14-18, Dec.2023. Prashanth Kodlige, EE, KPTCL was the Guest of honour.

Course Completion

- 1.**Dr. Yogananca** (EE) successfully defended his Ph.D. thesis, on 29.12.2023, at VTU-RRC, Bangalore, under the guidance of Dr. K.Tippeswamy, Dept. of EE, SJGP, Bangalore, thesis titled: "Design, simulation & analysis of PF for Harmonic & RPC, to improve PQ & reliability of PS",
- 2.**Sindhu T.N** (CS) successfully completed an on-line course offered by NPTEL, on "Cyber Security & Privacy" by scoring 52% during July-Oct. 2023. (the registration fee is paid by college)

Workshops, VAC, Invited talks

- 1.A 3 day value added course on "Embedded system design using Arduino" was organised by ETE department on 16.12.2023, for the benefit of students and faculty of department of AI&ML, [Coord.: Dr. Guruprasad & Yogesh (ETE) and Dr. Manjula Y (AIML)].
- 2.As a part of PEER Teaching, three students of VII sem. (ISE) conducted workshop on "Web Dev." for ISE students on 16.12.2023.
- 3."Parishrama", Activity club of ECE Department organised internship (40 hrs) programs on (i) "ANDROID application / development" and (ii) AI & its applications, for the benefit of ECE students during 14-25, Dec'2023, in association with MeVi Tech., Bangalore.
- 4.A team from C-DAC Bangalore with Dr Sanjay, joint Director C-DAC visited SSIT on 22.12.23 & had interaction with the Principal & other members. The detailed information connected to C-DAC faculty & students development programs, was provided to SSIT team with the relevant brochures. A two hours cyber security session was also held for all the IT branch students. (coord.: Dr Ashok Mehta).
- 5.A talk for 7th ETE was held on "Toast Master" by vinay TJ, ETE alumni, on 13.12.2023. Toast Master is a non-profit organisation designed to help individuals become better communicators through leadership training and public speaking practice.
- 6.Department of CS organised a two-day Value Added Course to Non-IT branch students and a two day workshop for Sri Siddhartha First Grade College students, on the topic "Basic Computer Skills", during last week of December, as part of their consultancy activities.
- 7.The Department of IS organised a 3-day Value Added Courses on "web dev." and "Web-craft Fundamentals", for IIIrd sem. students of ISE, during 15-30, Dec.2023. (Coords.: Roopa T & Subhash C.S). The Department also organised a similar work shop for 5th & 7th sem. students on 26.12.2023, with Manoj, M.D, and Harish, Dev Ops head, CV2 Enterprises Pvt. Ltd., Bangalore, as the resource persons.
- 8.A work shop on "Yoga for Health and well-being" was organised for 1st year students on 22.12.2023. (Coord.: Yoga teacher: Puneeth, - ME).
- 9.A technical talk on "Robotic Process Automation" by Mr.Vijay Alagarsamy, Curriculum Developer, SS&C, Blue Prism, was organized by the department of ISE for 5 th semester students on 7 th December 2023.
- 10.Dr.M.N.Eshwarappa, Dr.M.C.Chandrashekhar and Dr. M.V. Chidanandamurthy (ECE), were session chairs and reviewers at 3rd IEEE International Conference on Mobile Networks and Wireless Communication (ICMNC-2023) of IEEE Bangalore Section, held during 4-5, Dec 2023, at ETE Dept., SSIT, Tumakuru.
- 11.The Department of ETE conducted a Workshop on SDR by Mr. Mahesh Shamrao Chaudhari, IISc, Bangalore on 5th Dec 2023.

Research Publications

1. Dr. A.S. Raju and Latha (BME) has published a paper on "An ensemble approach for ECG and Lip features based Biometric Authentication by using Grey-Wolf optimization" in the international, Indonesian Journal of Electrical Engineering and Computer Science, (Scopus indexed).

2. Dr. Guru Prasad S (BME) has presented a paper on "Design Strategy for Identification and Tracking of Video Objects over crowded Video Scene using a Novel Feature Learning Algorithm" in the IEEE international conference on Mobile Networks and Wireless Communication (ICM-NWC-2023) organized by the Department of ETE, SSIT, during 04-05, Dec. 2023.

3. Ashwini K (BME) published a paper titled "Deep Learning based Biometric Authentication Technique using ECG and Iris" in the Interna-

tional Journal of Advanced Engineering Sciences- Artificial Intelligence, (Scopus indexed Q2 journal).

4. Prasanna Kumar M (IS) published a paper entitled "A Lightweight Security Model using Delta Probabilistic Hashing Technique for Secured Data Transmission in IoT Systems" in the International Journal on Recent and Innovation Trends in Computing and Communication, during Dec. '23.

5. Mrs. Divyaprabha (ECE) published a research paper on "Design Strategy for Identification and Tracking of Video Objects over Crowded Video Scenes using a Novel Feature-Learning Algorithm", in 3rd IEEE International Conference on Mobile Networks and Wireless Communication (ICMNBC-2023) of IEEE Bangalore Section, held during 4-5, Dec 2023, at ETC Department, SSIT-Tumakuru.

Achievements

1. Academic Insights: Educational Awards-2023, Bangalore, have given the coveted award "Engineering college of the year 2023, Skill development", to SSIT, Tumkur, at an award ceremony held at Bangalore on 17.12.2023.

2. The newly setup labs at Department of DS & AIML were inaugurated by Hon'ble Chancellor on 18.12.2023. He later addressed the council of HoD's, Section heads and the faculty of DS/AIML and stressed on the importance of R&D to be improved by all concerned. He appreciated the efforts put in by SSIT in realising nearly 100% Admissions during this year. He insisted on every faculty to publish research articles on a continuous basis, since it will be linked strictly to the annual progress

card, hereafter.

3. Dr. D. Raja Naik (CV) has been selected as coordinator for the course, "AICTE-UHV from among 320 aspirants. He has to attend, the online meeting conducted by AICTE, during every month on Thursdays, 2-4 PM, thus representing SSIT at the national level.

4. The research student, Pruthviraj K (faculty of Chemistry) presented a research paper at the international conference held at Srinivas University, Mangalore and received Young Scientist Award. (Supervisor: Dr. Sunil K).

5. Mr. Praveen Kumar C has been nominated as Nodal officer of "digital learning and monitoring cell" w.e.f. 28/12/2023, at SSAHE, Tumkur.

Participation

1. Haripriya R (AIML) and Dr. Pushpalatha K.R (DS) attended 5 days' FDP on "Building Advanced Data Analytics Applications with Cloud" during 18-22 Dec. 2023

2. Dr. Pushpalatha KR (DS) attended 5 days FDP on "Data Analytics Using Python & Power" during 5-9 Dec. 2023. 3. Dr. Vidyalakshmi K (DS) attended International Conference on "Intelligent Systems in Computing and Communication", at Mangalore Institute of Technology and Engineering, Moodabidri, held during 8-9, Dec. 2023 (online) 4. Dr. G.N. Shilpa and Nataraj C (EE) participated in the Orientation Program on NAAC Process, Organised

by ARCDNET-India and CLi Med Reg. solutions-India, on Dec. 28, 2023. 5. Pradeep M N (BME) completed a 5 days' FDP on (Online) "Modern Medical Instrumentation", conducted by Department of Biomedical Engineering in association with Biomedical Engineering Society of India (BMESI) from 4-8, Dec. 2023.

6. Purnima P S (BME) completed a one week FDP (online) on "Outcome Based Education and Essential AI Tools for Teachers" organized by the Internal Quality Assurance Cell (IQAC) of Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata from 14-20, Dec. 2023.



IEEE international conference from TCE department.

Session Chair Reviewers

1. Dr. L. Sanjeev Kumar (EE) was a reviewer in the stream "Electric Vehicles" at the International Conference on Advances in RE&EV-2023, held at NMAMIT, Nitte, during 19-20, Dec. 2023

2. Dr. M.C. Supriya and Dr. Savitha C (DS&AIML) Chaired sessions & Dr. Shilpa GN (EE) as a reviewer at IEEE International Conference on Mobile Networks and Wireless Communication (ICMNBC-2023), SSIT, Tumakuru, held during 4-5, Dec. 2023.

3. Dr. Savitha C (AIML), Dr. Vidyashree K (DS) and Dr. Shilpa G.N (EE) were reviewers at the International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) held at BGSIT, Adichunchanagiri during 23-24 Nov. 2023.

4. Dr. Savitha C (AIML) was a reviewer for IEEE International

Conference on Integrated Intelligence and Communication Systems (ICI-ICS-2023) held at Sharanabasava University, Kalaburagi during 24-25 Dec. 2023

5. Jeevith (ETE) was a "Reviewer" for the international Journal of "Research in computer Science", a bulletin of the European Association for theoretical computer Science (EATCS).

6. Dr. Guruprasad S (BME) was a session chair and ETE, Himself & Ashwini (BME) were reviewers at the IEEE international conference on Mobile Networks and Wireless Communication (ICMNBC-2023) organized by the Department of ETE, SSIT, during 04-05 Dec. 2023.

7. Dr. Annapurna H S (IS) chaired a session in the 3rd International Conference, ICMNBC 2023, organized by the E&TE department at SSIT, during 4-5, Dec. 2023.

Faculty achievements

1. Mrs Usha S, Assistant Professor, Department of Civil Engineering, presented the paper titled "Fly Ash Based solutions for treating construction and demolition waste: an in-depth analysis" in the International Conference on Modern Trends in Civil Engineering Infrastructure Development and Management (MTCEIDM) 2023 held on 8th to 10th December, 2023 at Department of Civil Engineering, BMS College of Engineering, Bengaluru.

2. Mrs Sahana T S and Sowjanya G V, Assistant Professor, Department of Civil Engineering, visited Reva University, Bangalore, in connection with IFC-Regional meet 2023 on 9th December 2023, organised by Ministry of Education Innovation Cell and AICTE.

3. Dr. A R Pradeep, Assistant Pro-

fessor, Department of Civil Engineering, reviewed ASEP journal and International Journal of Steel Structures journal titled "Experimental investigation of the effect of welding parameters on material properties of SS 316L stainless steel welded joints".

4. Mrs. Sahana T S, Dr. Pradeep A R, Mrs. Sowjanya G V, Mr. Abilash K E, Mr. Guruprasad T N, Mrs. Usha S, Mrs. Supriya C B, Mrs. Hema H, attended FDP (virtual mode) on Advancements in Concrete Technology (AICT-2023) organized by Department of Civil Engineering, Ballari Institute of Technology, Ballari. 5. Mr. Abilash K E, Assistant Professor, Department of Civil Engineering, participated in one day conference on "Karnataka Geotechnical Fusion-KGF 2023" organized at VVCE, Mysore

Student activities

1. Team "Aavishkar" comprising of 9 students of SSIT (IS,ME,EC) attended various national and International competitions organised by IIT, Mumbai during 27-29, Dec. 2023. The competitions they participated are (Robot pick and place), (Robotic boat competition) and (RC plane build and fly challenge). Students also took part in Workshop organised at the Techfest 2023 and got a chance to visit International Project expo and R&D project expo.

2. 15 students of SSIT who are the members of varsity circle (various branch/ years) participated in the competition held at IIT- MUMBAI,

3. The Department of ETE Conducted Mini project exhibition for first year and second year students on 28th Dec 2023.

4. Shivashankar A R and Pushpa BPujar (BME students) have been selected for an internship in Nesa Med Tech with stipend of Rs. 18,000/-.

5. Disha Shankar H U (BME) of 7th Sem. won 2nd place in the event held during "Kannada Rajyostava" on 25th Nov. 23, at SSIT, Tumakuru. She also won 1st place in the event "Tantra Technical Fest" held at SSIT, Tumakuru. On behalf of Management and college Administration, Principal congratulated each one of the achievers, as above, and expressed the desire to improve on all counts and heads, month after month, so as to ensure a better standing for the Institution. This list shall be motivational and inspirational information for all the other not / less performing faculty and staff in the days to follow. Principal, took up the agenda for discussion: After thorough deliberations on each of them, the following resolutions were arrived at:

1. IEEE International Conference on Mobile Networks and Wireless Communication organised by Department of ETE was held during 4-5, Dec'2023. A total of 250+ papers were presented in parallel sessions, in addition to key note sessions. Prof. Dr. Rocio P de Prado, from University of Jaen. Spain and Dr. NPS Naidu, SF, CSIR-NAC, Bangalore were the guests of honour. This Conf. was cosponsored by Technical Inst. of Engineers, Bangalore.

2. The Alumni Annual get-together event "Sethu Bandha" was held on 09.12.2023 organised by the SSIT-Alumni Association. (Coord.: Dr.B.S.Ravikiran). The event was attended by more than 250 alumni members from different parts of the world. For a change, this year onwards, It is decided to hold the event on second Saturday, of December. Further, the function was held in 2 phases: firstly at the departments level in the morning session and later after lunch, at the global level. Sri Govinda-Vathsa H.S, DGM, GTTC, Bangalore, one of the proud alumni of SSIT, was the chief Guest, for the event.

3. Major programs held: (i) Dr. HMG Painting competitions for school & College students was held on 02/12/2023 (Coordinated by Dr. Annapurna H.S, IS & team)

1. A team of 8 students of SSIT represented SSIT in volleyball; at the South Zone Inter University Volley Ball Championship, held at PESCE, Mandya, during 21-22, Dec. 2023.

2. The inter department Cricket tournament was organised by Dept. of Sports for SSIT students. CIVIL Engg. Students were the Winners and CS/IS team of students were the Runners.

3. NSS unit of SSIT organised the Fit India Movement driven "TRECKING" to Swandenahalli hill, Tumkur, on 16.12.2023, with about 80 NSS volunteers of 3rd year actively participating in the event.

4. Diwakar S, Instructor, (ECE) was a Member of Expert Committee for South Zone men and Women Ball Badminton Selection Trails held at Tumkur University Campus, during 19-20, Dec. 2023.

5. NSS students took part in the state level cultural fest held on 16th Dec.2023 at MSRIT, Bangalore, Further the NSS unit in association with energy club created awareness on Electrical, Electronics & Computer parts and gave important tips on Energy conservation at Government High School Kanakuppe Near Hebbur, on 29/12/2023.



Civil Engineering Department students Nuthan T P (19CV064) and Kiran Kumar M (21CV028) represented our university in the south zone inter university volleyball championship held at Mandya.

(ii) Parent-Teacher meetings were held across all departments during last week of Dec.2023.

(iii) Awareness lecture sessions on KSCST-Project proposal writing for 47th series SPP,2023-24 details were delivered to the final year BE students by Dr.Sreekanteshwara Swamy, RC, during

14-26, Dec'23, among all the departments. He informed about the last date as 20.02.2023, before which all the proposal submissions are to be made through the coordinator. Principal congratulated all the above coordinators and faculty for having made the said events very successful in achieving the set goals.

4. Inauguration of Associations: All the Engineering departments organised inauguration of their department associations and organised invited lectures, VAC, cultural events during the event. The details are as under:

#	Dept.	Association	Lecture delivered by experts
1	CIVIL	NIRMAN	"Concrete in Industry" by Latha Consultant, Bangalore
2	ECE	ELECTROTECH	"Career Prospects" by Dr.M.Z.Kurian, Reg., SSAHE
3	BME	B105MEDSPARK	"Qualities of an Engineer" by Dr.Bhanu Prshanth, BMS CE, Bangalore
4	EEE	VIDYUTH	"Career Prospects" by Jeevankumar K.P., Kerry Ingredients, Tumkur.
5	ISE	INFUSION	"Cloud Computing & Cyber Security" by Sandeep M.S, Batch Alumnus, Sr. Manager, TCL, Bangalore.
6	CSE	INTERFACE	"Project life cycle and scope in Industry" by Amareshkandagal
7	ETE	BROADCAST	"Cyber Security for 5G networks and beyond" by Minal RVCE, B'lore (to be held on 08.01.2024)
8	MECH	YANTRIK	To be conducted on 8/1/2024.
9	MCA	-----	To be held after first year Admissions
10	DS/AIML	-----	Already held as "Fresher's day"

Principal congratulated all the concerned event coordinators and their team for successfully completing the inaugural event as above in respective departments.

Student achievements



Departmental Activities



Celebration of Alumni day “Sanchayana 2023” organized by Department of Civil Engineering on 09.12.2023.



PTM meeting was organized by department of Civil Engineering for 1st, 3rd, 5th & 7th B.E & M.Tech students on 16.12.2023



A technical talk has organized by Department of Civil Engineering on the occasion of inauguration of NIRMAAN 2023-24. Dr. Latha M S, Professor & Head, Department of Civil Engineering, SVCE, Bengaluru, delivered talk on the topic “Sustainable Rammed Earth Construction for High-rise Buildings” on 19.12.2023.