

SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY, KARUKUTTY

Report for the period

July 2023 – June 2024

July 2023

Department Activities

As a part of curriculum and pedagogical method "Concepts transfer to simulation using programming", four groups are selected as winners for CST 304 CGIP from S6 CS1.



Figure 1 . Winners for CST 304 CGIP are being awarded certificates by Dr.Varun G Menon ,Professor and Hod ,Department of Computer Science and Engineering ,SSET.

The Department of Computer Science and Engineering, SCMS School of Engineering and Technology conducted a one-day Flutter workshop on 1st July 2023. Workshop was handled by Mr.*Ashwin* Semester six CSE Thinker Hub Member and *Mr.Sooraj S Nair* Semester six CSE and Thinker Hub members . In the Workshop the following topics were covered. 1. Github 2. Dart Language Basics 3. Flutter Installation 4. Android Studio 5. Visual Studio Code 6. Flutter SDK 7. Simple Application development by Flutter Workshop gave a wonderful experience to students.

Second International Conference on Computing, Communication, Security & Intelligent Systems (IC3SIS' 23) was organized by the Department of Computer Science and Engineering, SCMS School of Engineering and Technology, on 6th and 7th July 2023 in hybrid mode. The IC3SIS' 23 consisted of five sessions in which three sessions were online and two in offline mode. The Day 1 started with Inaugural ceremony and Keynote Address by Chief Guest Dr. *Ajith Abraham*, Director-Machine Intelligence Research Labs (MIR Labs), USA at Main Seminar Hall, Administrative Block, SSET.

On 6th July 2023 Forenoon Technical Session started with Industry Expert Talk by Mr. **Ganesh D Iyer**, Group Manager, Learning and Development, IBS Kochi on the topic Strengthening the Bridge Between Academic and the Industry through the Academia-Industry Collaboration at Main Seminar Hall ,Administrative Block, SSET. The afternoon Paper Presentation Schedule (offline) was handled by external Chair Member Dr. **Anishin Raj**, Lead, Learning and Development, IBS Kochi. On 6th July 2023 afternoon Paper Presentation Schedule (online) was handled by external Chair Member **Dr. Deepika M. P.**, Assistant Professor, DCA, CUSAT, Kochi.

On 7th July 2023 Forenoon Paper Presentation Schedule (online) was chaired by external Chair Member **Dr. Bipin P. R.**, Associate Professor, ECE, ASIET, Kalady. During the afternoon Paper Presentation Schedule (online) was handled by external Chair Member **Dr. R. Sunder**, Associate Professor, SCET, Kodakara. The conference received 282 full paper submissions from academicians, research scholars and industry people. After two levels of single-blind reviews, 26 papers were shortlisted for presentation with an acceptance rate of 9.2%.



Figure 3. Dr. Ajith Abraham, Director-Machine Intelligence Research Labs (MIR Labs), USA Inaugural Ceremony of Second International Conference on Computing, Communication, Security & Intelligent Systems (IC3SIS' 23) organized by the Department of Computer Science and Engineering, SCMS School of Engineering and Technology, Karukutty, Ernakulam, on July 6th and 7th 2023 in hybrid mode.

The Department of Basic Science and Humanities in association with club Atelier had organized a session for the students of all semesters and branches on 21 st June 2023 at the Seminar Hall, Academic block from 10.00 am to 11.00 am. There were a total of Seventy-five students and more than ten faculty who attended the session. Fr. Baiju Varghese, Director of Athmayoga Academy, Vyttila chaired the session. One hour talk on the importance of Yoga and practical sessions were the highlights of the event. Students from all semesters and branches attended the session where they felt relieved both physically and mentally. Father spoke about the importance of each Yoga Asanas and how they could help us to overcome the stress that we are facing now. Students found it quite relevant as they found it relatable and applicable.

Staff Achievements

Ms. Chaithanyadas Nidhin, Assistant Professor, Department of Electronics and Communication, SSET, completed the 12 week NPTEL-SWAYAM MOOC course on “Deep Learning” conducted by IIT, Ropar.

Placement Activities

4 students from Batch 2019-2023 receive offers from Byjus and Movidu Technologies. The offers updates at 244 with 128 placed. Offers received from 40 companies out of the 174 that approached for placement drives. Recruitment results are yet to be announced by some companies.

Walkaroo International Ltd. (Mechanical Branch) interviewed 17 of our Mechanical Engineering students from Batch 2019-2023 and the results are awaited.

Paradigm (Civil Branch) has initiated the process of recruitment for the Civil Engineering students of Batch 2019-23.

Onboarding of our students who received offers from various companies begins after the completion of their academic schedule.

August 2023

Staff Achievements

Ms. Chaithanyadas Nidhin, Assistant Professor, Department of Electronics and Communication, SSET, published a paper titled, “Computer-aided diagnosis for early detection and staging of human pancreatic tumors using an optimized 3D CNN on computed tomography”, in SCIE Journal Multimedia Systems, 2023, Springer, in the month of August 2023.

Dr. Varun G. Menon, Professor and Head of the Department, Department of Computer Science and Engineering, SCMS School of Engineering and Technology, was the resource person for the one-day workshop on "Designing Your Research Journey" organized by SCMS School of Technology and Management on 26th July 2023 at SCMS Kalamassery.

Dr. Manish T. I, Professor, Department of Computer Science and Engineering, SCMS School of Engineering and Technology was selected as Advisory Board Committee Member and Reviewer in the Annual International Conference on Emerging Research Areas (AICERA 2023) organized by Amal Jyothi College of Engineering and will be held on 16-18 November 2023.

Mr. Akhil Baby, Assistant professor of The Department of Basic Science and Humanities published an Academic book titled “Industrial Economics and Foreign Trade” for B. Tech Programme Semester 5 and 6 common textbook, published by Notion Press Publishers with ISBN - 978-000045604-8 on 25th July 2023.

Ms. Jane Theresa published a book chapter titled Stream of Consciousness in the book named Remarkable Movements in English Literature in July 2023 with ISBN978-81-964615-1-6.

SEPTEMBER 2023

Department Achievements

The ASME-SSET chapter achieved the Most Significant Membership Growth Award in the ASME Student Section Recognition Program, in September 2023.

The Department of Electrical and Electronics Engineering organized a Seminar on 22nd August 2023, at Conference Hall, SSET from 10:00 a.m. to 12:30 p.m. by Mr. Sasidharan K B, Retd Senior General Manager, POWERGRID, on the topic " Evolution of National Grid, Mr. Jayarajan C N, Retd Dy Chief Engineer, KSEB on the topic " Advanced Power System Protection" and Dr. Jayanand B, Head and Professor Department of Electrical and Electronics Engineering, SSET on the topic "Future Electric Grid". The seminar was opened to all staff, S5 and S7 students of SSET. A total of 37 participants attended this program.



Fig 1: Mr. Jayarajan C N, , Retd Dy Chief Engineer, KSEB delivering a session on the topic " Advanced Power System Protection".

A one-day hands-on workshop " Working with excel and Canva " for the teaching staff of Sree Sankara NSS EMUP School Koratty was organized by the Department of Computer Science and Engineering on 5th, August 2023 from 9.00 a.m. to 4.00 p.m. The Session was handled by Ms. Asha S Rakesh and Ms. Seethal Prince Assistant Professors of the Department of Computer Science and Engineering.

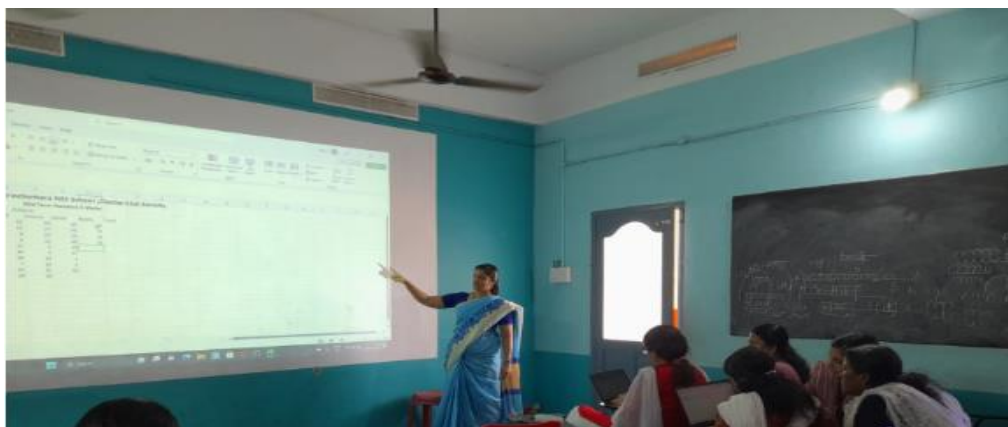


Fig 2: One day Hands on workshop on Working with excel and Canva at Sree Sankara NSS UP School Koratty handled by Ms. Asha Rakesh.

The Department of Civil Engineering conducted a short-term course on “Remote Sensing and Data Analysis” from 7th August 2023 to 19th August 2023 in online mode. This short-term training program was mainly intended to enhance the skill in Remote sensing using satellite data and how to perform data analysis in the GIS platform via hands-on sessions. Dr. Ratish Menon, Professor, Dr. Nisha L., Professor, Dr. Praseeja A. V., Associate Professor, Ms. Meera Varghese, Assistant Professor and Ms. Merin Mathew, Assistant Professor, from the Department of Civil Engineering, SCMS School of Engineering and Technology were the resources persons. Faculty members and Research scholars from various Institutions attended the Program.

The Department of Basic Science and Humanities organized an online FDP on Green and Sustainability Science from September 11 to 15 2023. Dr. Nuja M. Unnikrishanan, Associate Professor, and Dr. Santhosh M. V., Assistant Professor of the Department of Basic Science and Humanities coordinated the event with seven speakers and around forty participants from all over India.

ATELIER, Association of the Department of Basic Science and Humanities commemorated Independence Day on 16th August 2023 by organizing a spot quiz on the Nation’s history, constitution, and freedom struggle.

Staff Achievements

Dr. Raghav G.R, Associate Professor, Department of Mechanical Engineering published a research article titled “Reuse of used paper egg carton boxes as a source to produce hybrid AgNPs- carboxyl nanocellulose through bio-synthesis and its application in active food packaging” in International Journal of Biological Macromolecules, Elsevier, Volume 249, September 2023, SCI indexed, Impact factor-8.

Mr. Noel Gomez, Assistant Professor, Mechanical Engineering Department attended a one-day FDP on Innovative ways for enhancing student engagement - Blended application of technology and psychology by ICFAI Business School at PGS Vedanta on 19th August 2023.

Dr. Raghav G.R and Dr. Gibin George, Associate Professors, Mechanical Engineering Department published a chapter titled “ Corrosion behaviour of additive manufactured materials and

composites” in the book “ Mechanical Properties and Characterization of Additively Manufactured Materials” Taylor and Francis, CRC Press, ISBN 9781032392776, on 13th September 2023.

Dr. Manish T. I, Professor, Department of Computer Science and Engineering, SCMS School of Engineering and Technology attended a meeting as an External Department Advisory Committee member at Sahrdaya College of Engineering & Technology, Kodakara, Thrissur, Kerala on 19th August 2023.

Dr Nuja M. Unnikrishnan, Associate Professor, Department of Basic Science and Humanities completed a Coursera course on “English for career development” organized by Penn, University of Pennsylvania.

Dr. Mini Tom, Professor and Deputy Dean, and Dr. Sreelekha Menon, Associate Professor and Head of the Department of Basic Science and Humanities attended a 7-day FDP on OBE and Essential AI Tools organized by Carmel College & KSHEC from 10th to 18th August 2023.

Ms. Jane Theresa, Assistant Professor, Department of Basic Science and Humanities attended a 7-day International FDP on the topic ICT and Language Learning organized by Westminster College of London from 14th to 18th August 2023.

Dr. Sreelekha Menon, Associate Professor and Head of the Department Basic Science and Humanities, and Assistant Professors Ms. Surya K A, and Ms. Reshma R, Department of Basic Science and Humanities published a Journal paper “Comparison of Machine Learning Algorithms for ECG Interpretations: Random Forest, K-Nearest Neighbours, and Logistic Regression “in the Scopus indexed journal “Journal of Data Acquisition and Processing”.

Dr. Nithya Mohan, Assistant Professor of the Department of Basic Science and Humanities attended the ACS talk series on Designing a greener energy conversion system for a sustainable future organized by the American Chemical Society on 25th August 2023. She also published an article “Structural tuning effect to enhance the nonlinear optical response of salen-type compounds in the AIP Conference Proceedings.

Student Achievements

Govind T V, Gokul Unnikrishnan, Abin Pauly and Allen Bijan, seventh semester students of the Department of Basic Science and Humanities received funding for their student project entitled "Fabrication of electrolysis chamber for water splitting using surface modified stainless steel mesh from ANERT Kerala on 25-07-2023. The project is supervised by Dr. Gibin George, Associate professor, Department of Mechanical Engineering.

PLACEMENT ACTIVITIES

Pre pre-placement talk organized by Qburst was held for all the branches of B.Tech batch 2020-24 on 11th September 2023 at Seminar Hall AC-1, SSET. Mr. Jo Mon, Technical Engineer, Qburst presented the company profile and job description. A total of more than 165 students were present for the talk. Their online test for the post of Software Developers and Software Testers for B. Tech Batch 2020-24 students was conducted on 20th September 2023.

Zynofus Technologies Pvt. Ltd. shared a link for the placement drive for the B. Tech (Batch 2020-24) and MCA (Batch 2022-24) students.

Organized a placement drive from Mitsogo for B. Tech (Batch 2020-24) students. A list of students interested in the recruitment was shared with the company.

Shared the list of interested candidates for Tripp deals catering to the B. Tech (Batch 2019-23). The officials are to visit the campus next month.

Global Quest Technologies approached for a drive to be conducted on 3.10.2023 at the college campus for the students of B. Tech (Batch 2020-24).

Intelliflo Redblack platform automates the entire investment management and they are visiting the college for a placement drive on 21st September 2023. A Pre-placement talk followed by an online test shall be conducted on the same day. More than 100 students from the B. Tech (Batch 2020-24) have registered for the same.

Airpay invites applications for a year of Apprenticeship in their company from B. Tech graduates Batch 2018-22 and 2019-23.

Ten students from the B. Tech Batch 2020-24 were shortlisted for the Technical round of interviews at UST.

Ashwin T S a Mechanical Engineering Graduate from Batch 2019-23 gets placed with OEN LTD.

A two-day Bhavisya Program by ICTAK was conducted on 12th and 13th September 2023 for B.Tech first-year students (Batch 2023-27).

Pre-placement aptitude training by Konfidence for Batch 2020-24 and Batch 2021-25 was conducted in the month of September 2023.

OCTOBER 2023

Department Achievements

The Department of Electrical and Electronics Engineering organized a technical talk on ‘Battery Chargers for Various Applications’ on September 29, 2023 in online mode. Er.Bilby Issac, Senior Engineer, Wave Electronics Pvt Ltd ,Kizhakkambalam spoke on various types of battery chargers and industrial applications. The technical talk was opened to all faculty and students of Semester 5 and Semester 7 of the Department of Electrical and Electronics Engineering. A total of 26 participants (21 students and 5 faculty) attended this talk

The Department of Electrical and Electronics Engineering organized a Seminar on ‘SOLAR PANEL DESIGN’ on September 21, 2023. Mr. Elvin T.G, FSE, Indus towers spoke on the topic ‘Solar Panel Design .. Craft your Campus.’ . Mr. Harikrishnan V Senior Engineer, Nita Gelatin, Koratty addressed the gathering on the topic ‘Basics of Solar PV Systems’ and Mr Allwyn Thomas, Managing Director, Tanam Electricals, Koratty , spoke on the topic ‘ Practical Aspects on Design on the Rooftop Solar Panel ’. The seminar was opened to all staff, and students of Semester 5 and Semester 7 of SSET. A total of 29 participants attended this program.

The Department of Electrical and Electronics Engineering organized a Hands-on training on “Introduction to Matlab” on September 30, 2023 in offline mode. Dr. Jayanand B, Professor and the department head of electrical and electronics, gave a presentation on how to use Matlab and other Matlab tools. The technical talk was opened to students of Semester 3 of EEE Dept. A total of 16 participants (14 students and 2 faculty) attended this training session.



Fig 1: Training session on Matlab by Dr. Jayanand B, Professor & HoD of EEE department.

An awareness session on “Managing E-Waste” was conducted by the Department of Computer Science and Engineering, SSET, at Government School Palissery on 29th September 2023. Mr. Mahesh K. M, and Ms. Hima K, Assistant Professors of Computer Science and Engineering were the resource persons. 80 students of class 8th and 9th participated in the session.



Fig: *An awareness session on “Managing E-Waste” at Government School Palissery*

The MCA association day programme titled “Frenzy Fiesta” was conducted on 29th, September 2023. *Mr. Nibin. P. Prasad*, a student of Semester 3 MCA delivered a session on GIT and GITHUB. He discussed some concepts on how to collaborate and work on GIT and GITHUB.



Fig: **Mr. Nibin. P. Prasad** delivering a session on GIT and GITHUB

Free and Open-Source Software (FOSS) Club SSET in association with the Department of Computer Science and Engineering, organized a one-day hands-on workshop on " Microservices and Kafka 'on 3rd October 2023'. The workshop provided a comprehensive understanding of the microservices architecture and the role of Kafka in building scalable and resilient systems. The resource persons were Mr. Vishnu C, Senior Engineer Litmus Consulting, and Mr. Sreedath P. S., Data Engineer Fractal Analytics (BTECH CSE 2019 PASSOUT). Thirty students from B.Tech Semester 5 and Semester 7, MCA participated in the workshop.

A hands-on learning session on “Firebase” was organized by the Department of Computer Science and Engineering in association with Google Developer Students Club on 30th September 2023.

The Department Association Day, jointly hosted by the Department of Computer Science and Engineering and the Department of Artificial Intelligence and Data Science, was held on 04, October 2023. The highlight of the day was the insightful session delivered by Mr. Sijoy Antony, TTP Manager at HDFC Bank, titled "A Walk Through Corporate Life for Upcoming Grads." Mr.Sijoy Antony provided valuable insights into the corporate world, emphasizing the importance

of adaptability, continuous learning, and networking for the upcoming graduates. Following this enlightening talk, the event recognized and celebrated the academic excellence of the top-performing students in the odd Semester of the academic year 2022-2023. To foster a sense of unity and teamwork among students, the day concluded with a series of enjoyable team-building exercises that encouraged collaboration, problem-solving, and effective communication. This event was a resounding success, exemplifying the Department's commitment to holistic education and the overall development of its students.

A curriculum gap-filling session for the seventh-semester students of Computer Science and Engineering, specifically addressing the elective subject CST 423-Cloud Computing, was skillfully conducted by Mr. Naizam Hassan. As the Chief Technology Officer at Macob IT Solutions LLC in Dubai and Director of Futuretech Info Vision, Mr. Hassan, a Certified Ethical Hacker, Cloud Architect, and Corporate IT Trainer, brought a wealth of expertise to the session on 5th October, 2023. He engaged students in a deep exploration of "Data Center Virtualization and Cloud Architecture", ensuring they gained a comprehensive understanding of these vital concepts. By fostering a deeper understanding of these essential concepts, Mr. Hassan empowered students to navigate the ever-evolving landscape of cloud computing. The session not only bridged curriculum gaps but also inspired students to excel in the dynamic field of cloud computing, setting them on a path to success in this rapidly evolving domain.

The Department of Computer Science and Engineering, in collaboration with the Innovation and Entrepreneurship Development Cell (IEDC), organized a dynamic Department Association Day. This event, held on October 6, 2023, featured Mr. Thomas V Zachariah, Executive Director of Aabasoft, who shared his expertise on "LinkedIn Benefits and Experience Sharing on Entrepreneur Life," leaving the audience inspired and informed. As a CX specialist and founder of AoF Media, Mr. Zachariah's insights resonated deeply with aspiring entrepreneurs. Moreover, the event celebrated academic excellence by awarding certificates to top-performing students, acknowledging their dedication and hard work. The day concluded with engaging team-building activities that not only provided a refreshing break but also strengthened bonds within the department, reflecting the department's commitment to fostering a holistic learning experience for its students.

The Department of Computer Science and Engineering has started working on a collaborative project with BTF Kerala. Title of the Project: Real time visualization of Trains, Signals, Tracks and Level crossings using FRMCS technology for Indian Railways on 9th October 2023. Project meetings are on every Tuesday and Thursday. So far four meetings have been completed.

The Department of Computer Science and Engineering in association with ICT Academy of Kerala organized a Hands-on workshop for S3 CSE, CO and AI students from 3rd October to 13th October 2023. A team of 231 students from the Department of Computer Science and Engineering, Data Science and Artificial Intelligence participated in the program. The focal theme for the program was to motivate students to develop projects on their own.

The Department of Basic Science and Humanities, had conducted an online Value added course on “Indian Constitution and Civil Liberties”. The course is designed to provide fundamental knowledge about human rights, their framework, problems with implementation, solutions to those problems, the rights from a national and international perspective, and various categories of our Constitution. Main objective is to create an awareness among students on the importance of our Constitution and Civil Liberties. This session is for 30 hrs on all Sundays and Saturdays from 4.00 pm to 6.00 pm. Sessions will be handled by Mr. Jose James, Head of the Department of Political Science, SH College, Chalakud, Mr. Akhil Baby, Assistant Professor and Mrs. Rony Tresa Davis, Assistant Professor Department of Basic and Humanities.

Staff Achievements

Dr. Varun G. Menon, Professor and HoD, Department of Computer Science and Engineering, SCMS School of Engineering and Technology features in the Stanford University’s Top 2% Most Influential Scientists for the year 2023.

Dr Raghav G.R Associate Professor, Department of Mechanical Engineering along with 2023 passed-out students, T. G. Avinash, K. A. Althaf, R. Varma Yadu, K. Nowshad Shabeeb published a review article titled “A Review on Additive Manufacturing Process” in Metallophysics and Advanced Technologies, Volume 45, issue 6, Scopus indexed with cite score -1.1 on 28th September 2023.

Mr Noel Gomez, Assistant Professor, Department of Mechanical Engineering co-authored paper “A geometric algebraic study approach on the parallels between electromagnetism and fluid dynamics” got published in AIP Conference Proceedings, volume 2856, Scopus indexed on 8th September 2023.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering Published a research article entitled “ Effect of cellulose nanofibers from red coconut peduncle waste as a reinforcement in epoxy composite sheets” in Cellulose Chemistry and Technology, SCI indexed, Impact Factor 1.3 on October 2023.

Mr. Rakesh.A, Assistant Professor, Department of Mechanical Engineering and Dr Anjana Viswanath, Associate Professor Department of Mechanical Engineering (NSS coordinators) have received an appreciation letter on behalf of Southern Railway, Angamaly Railway station for taking part with dedication in Swachh Bharath Abhiyan on 1st October 2023.

A book chapter titled “ Fabrication Techniques for Printed and Wearable Electronics” by Dr Raghav G R Associate Professor, Department of Mechanical Engineering is accepted for publication in IOP Publication 15th September 2023.

Dr. Sreeja K A, Associate Professor, Department of Electronics and Communication, SSET, has been awarded a patent, Design Number: 387239-001, titled “ Agriculture Robot”, subject to the provisions in collaboration with various institutes of higher education in India on 12th September 2023.

Mrs Deepa.S Associate Professor, Department of Electrical and Electronics completed a course on “Energy Literacy Training ” organized by Energy Swaraj Foundation on 4th October 2023.

Ms. Megha Jasmin Benny, Teaching Assistant, Department of Electrical and Electronics completed a course on “Energy Literacy Training ” organized by Energy Swaraj Foundation on 27 September 2023.

Dr Divya Nath K and Mrs Deepa.S, Associate Professors along with Mrs Beena Puthillath, Mrs Jayalakshmi S, Mrs Priya Venugopal, Mr Varun Jose, Assistant Professors and Ms. Megha Jasmin Benny, Teaching Assistant of Department of Electrical and Electronics attended 7 Day National level Online FDP on Outcome Based Education and Essentials AI Tools for Teachers organized by IQAC of Carmel College, Mala in association with KSHEC from 10th August to 18th August 2023.

Dr. Varun G. Menon, Professor and HoD, Department of Computer Science and Engineering, SCMS School of Engineering and Technology gave a session on “ How to organize quality conferences” at the IEEE Conference Organizers Workshop, College of Engineering (CET) Thiruvananthapuram on 7th October 2023.

Ms. Surya K A, and Ms. Reshma R, Assistant professors of the Department of Basic Science and Humanities published a Journal paper “Fuzzy Z+ transforms: An overview and applications in nondestructive testing” in AIP Conference proceedings on 22nd September 2023.

Ms. Divya M S, Department of Basic Science and Humanities published a journal paper “Art of Defamiliarizing the Familiar ” in a UCG Care list journal Mukta Shabd Journal on 18th October 2023.

Student Achievements

Mr Paul Tomy S7 ME2 Student and SSET has received funding of Rs.5600 against the patent application fees From KAPLIA.

Mr. Ijas Ahammed, a student of semester seven of the Department of Computer Science and Engineering won a logo design contest organized by The Department Association Synergy on 3rd October 2023.

On the Occasion of International week of Deaf 2023, SSET KOOTTU in association with H2O organized a painting & drawing competition on 26th September 2023. The theme of the competition was “Ear and hearing care for all ”.Winners of the Competition were Saurav K, 7th semester student of Computer Science and Engineering and Devi Subhash,1st semester student of Artificial Intelligence.

Placement Activities

Batch 2024 passout students from all branches B.Tech and MCA to attend the Wheelbox Employability Test from the 3rd of October till the 2nd of November 2023.

Vanenburg to conduct online test on 20th October 2023 for B.Tech/M.Tech CSE and MCA students Batch 2024 passouts.

Global Quest Technologies visited the campus for a pooled placement drive on 3rd and 4th October 2023. Seven colleges in total attended the placement drive. More than 1000 students from SCMS School of Engineering and Technology, Federal Institute of Science and Technology, Viswajyothi college of Engineering and Technology, Royal College of Engineering and Technology, SCMS School of Technology and Management, MES College of Engineering and Technology and College of Engineering, Cherthala participated in the drive. Mr. Narendra Reddy, Managing Director, Global Quest Technologies presented the pre-placement talk followed by an online test arranged in several computer labs. Global Quest Technologies shortlisted 67 of our students for the GD round of their placement drive conducted on 10th October 2023. The company offered scholarships worth Rs 1,00,000 to 15 of our students from Batch 2024 passouts.

Abdulla Imzan Shafi, Abhishek S, Aleena Johny, Arjun J, Chackochan Sebastian, Gopikrishnan L, H Bharath, Ijas Ahammed, Lenita Biju, Roshna.K.R all from S7 CSE get placed with UST.

Gopikrishnan, S7 CSE and Pooja R Menon, S7 CSE placed with Qburst.

Anjaly Krishna, S7CSE and Sebin Tomy, S7 CSE placed with Experion Technologies.

An Awareness program was conducted by Kerala Knowledge Economic Mission (KKEM) on the topic "Digital Work Force Management System " on 12th and 13th of October 2023 for the students of batch 2024 passouts. Mr. Muhammed Sadiq, Talent Curation Executive, Ernakulam District Coordinator was the resource person.

CTS delivered an IOT technical session for CSE students, batch 2024 passouts on 19th October 2023. The resource persons were Ms. Sangeetha Chingamchira Velayudhan and Mr. Basil Abraham from the IOT domain.

NOVEMBER 2023

Department Achievements

Students from the fifth semester of the Department of Computer Science and Engineering went for an industrial visit to ICT Academy, Koratty Infopark on 16th October 2023. Students were given hands-on training on AI, ML in the industry. **Mr. Mahesh K M** and **Ms. Jotsna Philomina**, Assistant Professors of the Department of Computer Science and Engineering assisted the students.

The Department of Computer Science Engineering conducted a session on "Internet of things and its applicability" in the real world for Semester Seven students as an eye opener for choosing innovative and novel projects on 31st October. The session was handled by Mr. Vinoj P G, Assistant Professor of Electronics and Communication Engineering Department which was held at SCMS School of Engineering and Technology.

The Department of Computer Science and Engineering organized a 7-day Hands-on workshop on "Recent Applications in Natural Language Processing (NLP)" from 6th to 12th November at SCMS School of Engineering and Technology.

The ACM student chapter of the Department of Computer Science and Engineering organized a one-day workshop, "AI UNLEASHED," for S5 Data Science students on the topic of "AI and AI Ethics." The event took place on November 10th, 2023. Ms. Deepasree Varma and Mr. Joseph from ICT Academy Kerala conducted the workshop. They introduced various AI tools and provided examples related to AI ethics for the students.

The Department of Mechanical Engineering in association with AEE Student Chapter organized an Idea Pitching Competition "Green Nation Challenge" for students on 15th November 2023. The event was inaugurated by Dr. Binoy K Choudhury, Professor at Indian Institute of Social Welfare and Business Management Kolkata, West Bengal, India and mentor to the student Chapter.

Staff Achievements

Dr. Manish T I, Professor of the Department of Computer Science Engineering is selected as the Session Chair for Special Track 18: Intelligent Systems and Analytics on the 5th IEEE International Conference on Computing, Power, and Communication Technologies (IC2PCT) which will be held on 9th February, 2024, at Galgotias University in Greater Noida, India.

Dr Gibin Geoorge, Associate Professor of the Department of Mechanical Engineering successfully completed an NPTEL course "Structural analysis of Nanomaterials" in October 2023.

Mr. Rakesh A, Assistant Professor, Department of Mechanical Engineering, is selected as one of the vigilance squad members of karukutty, Gramapanchayath on 20th October 2023.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering, delivered an online lecture on "Synthesis and Characterization of Nanomaterials" for the faculty members of SRM Madurai College for Engineering and Technology on 3rd November 2023.

Ms. Jane Theresa, Assistant Professor of the Department of Basic Science and Humanities, successfully completed a course in Coursera titled Creative Thinking: Techniques and Tools for Success by Imperial College London on 31st October 2023.

Student Achievements

Paul Tomy of Semester Seven of the Department of Mechanical Engineering participated in the student innovation program on 4th November 2023 at XIME College and was declared to be at the 4th position.

Placement Activities

Vanenburg conducted an online test for our students from Batch 2020-24 on 20.10.2023. shortlisted 3 students for the interview rounds.

GQT Scholarship offer letters were handed over to the 15 students from Batch 2020-24

42 of our students attended the placement drive conducted by Nalaasha Solutions at SCMS Muttom campus on 25.10.2023 for Batch 2020-24.

Technologies Global Projects & R&D Labs conduct their online test for all branches of Batch 2020-24 on the 30th and 31st of October 2023 and confers offers to 3 female students. Ms. Jisha Suresh (ME), Ms. Sreedarsana Ajay (CSE), and Ms. Anet Jobai (ECE)

Qvantel shares the link for online tests with those students shortlisted by the company from Batch 2020-24. The test link was active from 30th to 31st October 2023. The company conducted 3 rounds of interviews (2 technical, and HR rounds) for the shortlisted candidates (25) from batch 2020-24 (CSE) on 10.11.2023 at our campus and selected Ms. Isha Krishna V U, Ms. Amrutha Vipin, Ms. Fathima Safna P and Mr. Sooraj S.

Mitsogo conducted 2 rounds of online tests on the 26th and 27th of October 2023 for Batch 2020-23. 56 clear the first round of aptitude tests. The results of the second round are awaited.

Visteon shortlists 2 students from Batch 2020-24 (ECE) for the interview round.

Hudini, Algorithmma, and Coapps are companies that showed interest in our students. The list of eligible candidates was shared with these companies.

Algorithmma conducts their online test on 10.11.2023 at 3.00 p.m. at CCF. 100 students from CSE (batch 2020-24) and MCA (batch 2022-24) participated in the test and shortlisted 7 for the interview round to be conducted on campus, tentative dates are 21st, and 22nd November 2023.

Coapps conducts their online test on 13.11.2023 and the GD for the shortlisted on 14.11.2023. The company shortlisted 36 students for the technical rounds to be conducted at a later date.

Dr. Jenson Joseph. E, Officer- Corporate Relations, SSET went to Delhi for a three-day industrial visit from 30-10-23 to 02-11-23 and met the Human Resource Managers of various companies and invited them for campus recruitment. The detailed report of the Industrial visit is as follows.

30-10-23

Krishna Maruti Ltd., Gurgaon, Haryana. Krishna maruti Ltd is a manufacturer of side door panels for Maruti Cars. Direct supplier for Maruti.

Jindal Rail Infrastructure Ltd., Delhi. They are the largest manufacturers of Rail Wagons and supplier to Indian Railways, Exports to Africa.

Midas Group is an IT – HR management firm in Noida. Midas group is working for USA clients.

31-10-23

P P Rolling mills, Faridabad. They are manufacturers of Gear box and gears for Eicher Vehicles.

Yamaha motor solutions India Pvt Ltd., Faridabad.

GLS Films Industries Pvt Ltd., Gurgaon. They are the largest packaging solutions company partnering with ITC, Britannia, and Tata.

01-11-23

Wanfeng Aluminum wheels India pvt Ltd., Bawal, Haryana. It's a Japanese company manufacturing Aluminum Alloy wheels for two wheelers and largest supplier for TVS, Honda and Yamaha.

Siegwerk India Pvt Ltd., Bhiwadi, Rajasthan. It's a Japanese company manufacturing printing inks for Indian rupee and Euro.

Ashirvad pipes, bhiwadi, Rajasthan. India's largest manufacturers of PVC pipes and CI pipes.

Mitsuba India Pvt., Ltd, Gurgaon, Haryana. The company manufactures automobile spares.

All the companies have agreed to offer Graduate Engineer Trainee positions for our students in Mechanical, Automobile and Electrical Engineering branches.

December 2023

In a significant recognition of her contribution to the field of Geotechnical Engineering, Dr. Anitha G Pillai, Principal of SSET, has been declared as one of the 75 Influential Indian Women in Geotechnical Engineering under the prestigious title Daughters of Indian Soil. This is a momentous occasion that not only recognizes her achievements but also serves as an inspiration to aspiring women professionals in the field of Geotechnical Engineering.



Fig 1: Dr. Anitha G Pillai , Principal of SSET, has been declared as one of the 75 Influential Indian Women in Geotechnical Engineering under the prestigious title Daughters of Indian Soil.

Department Achievements

The Department of Computer Science and Engineering organized a Department Association Day for second-year students on 19th October, 2023. The event featured a distinguished resource person, **Mr. Jeevan Sebastian**, a prominent entrepreneur, writer, and content strategist. He shared his insights in a captivating session titled "Life through the Lens of a Storyteller," imparting valuable storytelling skills to the eager students.

The women's forum of SSET conducted a talk on the topic "Cancer Awareness among Youth-Details, Remedies and Precautions" by Dr. Philip George Kuttikat, Consultant Medical Oncologist, Apollo Adlux Hospital on September 17th, 2023 from 2.00 pm to 3.00 pm at Seminar hall, SSET. Around 95 participants attended this including students and faculties of the college.



Fig 2: Dr. Anitha G Pillai, Principal of SSET handing over the momentum to Dr.Philip George Kuttikat, Consultant Medical Oncologist, Apollo Adlux Hospital.

Staff Achievements

Mr. Suraj R, Assistant Professor of the Department of Mechanical Engineering, the Yi Yuva Student Chapter Faculty Coordinator of SSET, received the Best Teacher Coordinator Award during the Inspiration Summit held at Chittilappilly Square, Ernakulam on 24th November 2023.

Ms.Seethal Price, Assistant professor of the Department of Computer Science and Engineering delivered a session on “ mongoDb ” as part of the knowledge-sharing series on 18th October 2023 at Hardware Lab , SSET.

Student Achievements

On 16th October, students from BTech CSE- (S5) went for an industrial visit to ICT Academy, Koratty, Infopark. Students were given hands-on training on AI, ML in the industry. Mr. Mahesh K M, Assistant Professor, and Ms. Jotsna Philomina , Assistant Professor of the Department of Computer Science and Engineering assisted the students.



Fig 2: Students of Semester five of the Department of Computer Science and Engineering attending a session as part of the industrial visit at Koratty Infopark.

Gourinandana P of S1 CS(AI) has secured 4th position in the 8th state Yogasana championship held in Kochi on 30th September 2023.

SSET Men's Badminton team won a bronze medal in the APJAKTU D zone Badminton Championship held at MITS on 19th and 20th October 2023.



Fig 3: SSET Men's Badminton team winning a bronze medal in the APJAKTU D zone Badminton Championship held at MITS.

SSET Men's and Women's teams won Silver medals in the APJAKTU D Zone Kabaddi championship held at KMEA Pukkattupady on 26th October, 2023.

SSET Men's team secured 4th position in the APJAKTU Inter Zone Kabaddi Championship held at VAST Thrissur on 31st October and 1st November, 2023.



Fig4: SSET Men's team receiving trophy securing 4th position in the APJAKTU Inter zone Kabaddi Championship held at VAST Thrissur.

Rijo Paulose of semester five of the Department of Artificial Intelligence and Data Science has been selected to represent the APJAKTU at the All India Inter University Kabaddi championship. Avanthika Cinesh and Avinash Cinesh of semester three of the Department of Computer Science have won Gold medals in the All Kerala Roller Skating championship held in Palakkad from 26th to 30th October, 2023.



Fig 5:Avanthika Cinesh and Avinash Cinesh, students of semester 3 of the Department of Computer Science and Engineering winning Gold medals in the All Kerala Roller Skating championship held at Palakkad.

PLACEMENT ACTIVITIES

On-campus recruitment drive was conducted by Prakash Group of companies at SSET on 29-11-23. Mr. Naveen, HR Manager, Prakash Group of Companies conducted the Interview process. Students from the Mechanical, Automobile, Electrical and Electronics, Electronics and Communication Engineering branches participated in the drive. The company offered opportunities to seven of our students from Batch 2020-24 (three Mechanical, 1 Electronics and Communication, 1 Electrical and Electronics, 2 Automobile)

GLS Placement drive was held on 5th December 2023 at SSET for core branches Automobile, Mechanical, and Electrical and Electronics. The company offered the positions of Graduate Engineer Trainee to Six Mechanical and Two Automobile students from the Batch 2020-24.

Coapps offered placement opportunities to 36 of our students, 32 from B.tech Computer Science, Electronics and Communication Engineering branches (Batch 2020-24), and 4 from MCA(Batch 2022-24) after their online test conducted on 13.11.2023.

MIDAS Technologies, Noida, Delhi conducted an on campus drive on 08.12.2023. Twelve students, 11 from B.Tech Computer Science(Batch 2020-24) and 1 from MCA(Batch 2022-24) were conferred offers by the company.

Sutherland conducted a campus recruitment drive on 20-11-23. There was a Pre-Placement talk, and written test for the students of Batch 2020-24 (B.Tech) and Batch 2022-24 (MCA) which was followed by JAM (just a minute) conducted for the voice domain of their placement drive. Finally, the selected candidates attended the HR round. In total d 28 of our students from B. Tech and MCA were placed in the Voice category.

One student from the Electronics and Communication Engineering branch (Batch 2020-2024) got an offer from Visteon (OFF Campus).

Five placed with Autobahn from Batch 2019-23 (3 from Mechanical and 2 from Automobile)

Innovature, Litmus7, IBM, Future tech, QuanHack Solutions, Jesco Energy, Delta X, ZF Commercial Vehicle Control Systems India Ltd. ZH Healthcare, Recruit CRM are companies that approached us for placements for the Batch 2024.

The summary of offers received for the present outgoing Batch 2024

NAMES OF COMPANIES THAT SELECTED BATCH 2020-24		
2020 - 2024 BATCH		
<u>SLNO</u>	COMPANIES	NO. OF OFFERS
1	UST	10
2	Global Quest Technologies	15
3	Experion	2
4	Qburst	2
5	Qvantel	4
6	Technologies Global Pvt. Ltd	3
7	Coaaps	36
8	Sutherland (Voice)	28
9	Prakash Group	7

10	Visteon	1
11	GLS	8
12	MIDAS	12
	TOTAL OFFERS RECEIVED	128

January 2024

In a festive gathering that radiated warmth and camaraderie, the staff of SCMS School of Engineering and Technology celebrated Christmas on Friday December 22, 2023.

The event featured a delightful array of festivities, including entertaining performances and interactive games followed by Santa dance and a soulful carol singing creating a harmonious atmosphere with festive joy. The hall was adorned with decorations, creating a cheerful atmosphere that resonated with the spirit of the season.

Each department showcased its talents in music, dance, and skits, adding a personalized touch to the celebration.



Fig: The voices of SSET's singers weave a festive spell during the Christmas celebration, filling the air with the joyous spirit of carol singing.



Fig: The dynamic staff of Team SSET lighting up the stage with their energetic moves as well as engaging in interactive games during a memorable Christmas celebration.

Department Achievements

The Department of Basic Science and Humanities organized a talk on the Value of Research and Communication of Results in High Impact Journals on January 12, 2024. The resource person was Dr. Manoj E, Associate Professor, Department of Chemistry, CUSAT.



Fig: Dr. Manoj E, Associate Professor of the Department of Chemistry, CUSAT delivering a session on Value of Research and Communication of Results in High Impact Journals.

The Department of Mechanical Engineering and AEE - SSET Chapter conducted the final round of Idea Pitching Competition - 'Green Nation Challenge' on December 8, 2023. Eight teams shortlisted as finalists from twenty-one participants who exhibited their projects during the event.

Staff Achievements

Dr. Rag R L, Professor and Head, Department of Mechanical Engineering has been assigned as the reviewer of the book "Nano Refrigeration based Vapour Compression Cycle" by CRC Press/Taylor and Francis.

Dr. Rag R L, Professor and Head, Department of Mechanical Engineering has been assigned as the reviewer of the BME textbook of AICTE, by KTU.

Dr. Nithya Mohan, Associate Professor, Department of Basic Science and Humanities has been selected for the reviewer's database of the Royal Society of Chemistry. Royal Society of Chemistry (UK) is a premier publishing group in the field of Chemistry.

Ms. Jane Theresa, Assistant Professor, Department of Basic Science and Humanities published a paper titled Whispers of the Wild: Narrative Techniques in Patrick White's Voss in UGC Care List Journal Mukta Shabd with ISSN NO: 2347-3150 on January 16, 2024.

Ms. Asha Rakesh, Assistant Professor, Department of Computer Science and Engineering, conducted a session on "VAK Mind Tool for Teaching," as part of the Knowledge Sharing Programme Series on January 10, 2024. She talked about the different ways people learn through seeing, hearing, and doing things. She shared useful strategies for teachers to adapt their methods and make learning more effective by catering to these different learning styles.

Ms. Jinu M J, Assistant Professor, Department of Basic Science and Humanities completed the Udeemy certificate course on "Decision Making Using Analytical Hierarchy Process" on January 06, 2024.

Dr. Gibin George, Associate Professor, Department of Mechanical Engineering delivered a talk at ATAL-FDP "Advances in Subtractive and Additive Manufacturing Technologies" organized by Mangalam College of Engineering, Ettumanoor, Kottayam. December 7, 2023.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering delivered a talk at the National Level one-week faculty Development Program on “Cutting-edge Developments and Research Frontiers in Mechanical Engineering organized by SRM Madurai College For Engineering and Technology, from December 4 to 9, 2023.

Dr. Rag R L, Professor and Head of the Department of Mechanical Engineering delivered an invited expert talk on “Biomimicking - the Sustainable Design Solution” at Rajadhani Institute of Engineering and Technology, Nagaroor. for faculty and selected semester students, December 11, 2023.

Dr Raghav G R, Associate professor published a book chapter entitled “Fabrication techniques for printed and wearable electronics” in the book “Advances in Flexible and Printed Electronics Materials, Fabrication, and Applications”, IOP Publication, December 31, 2023.

Dr. Mahesa Rengaraj, Professor and Mr. Noel Joseph Gomez, Assistant Professor, Department of Mechanical Engineering have successfully participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Precision Manufacturing at Mar Athanasius College of Engineering, Kothamangalam from December 4 to 12, 2023.

Dr Raghav G R, Associate professor, Department of Mechanical Engineering published a Journal article entitled “PEEK-based 3D printing: a paradigm shift in implant revolution for healthcare” in Polymer-Plastics Technology and Materials, Taylor and Francis publication, SCI indexed, Impact Factor-2.7 of January 4, 2024.

Student Achievements

Ms. Karen Mary Francis, of semester seven from Civil Engineering branch got selected for a paid internship at NIT Calicut for the project titled Investigations on Probabilist Flood Forecasting Techniques using Medium Range NWP Ensembles for Chaliyar River Basin, Kerala.

Ms. Aflah of semester one from Computer Science and Engineering branch has achieved a remarkable feat, securing a spot on the University team for the prestigious All India Inter University Kho Kho Championship, showcasing exceptional skill and dedication.



Fig. Ms. Aflah of S1 CSE has made it to the University team for the All India Inter University Kho Kho Championship.

Ms. Avantika Cinesh from semester three from Computer Science and Engineering branch, has bagged a silver medal in the National Roller Skating Championship held at Chandigarh from December 13 to 15, 2023.

FEBRUARY 2024

A career guidance session was organized at SCMS School of Engineering and Technology for semester eight, B. Tech students. The event was organized by Students' Service Centre, featuring Dr. Indu Nair, Director SCMS Group of Educational Institutions, and Dr. Varun G Menon, Professor and Deputy Dean Research and Development, SSET as the main speakers. The event aimed to provide valuable insights to students about different career paths. Dr. Indu Nair discussed effective communication, teamwork, and, adaptability as crucial elements for success in any career. Dr. Varun G Menon, shared his expertise on industry trends, emphasizing the importance of staying updated with technological advancements. He encouraged students to explore diverse career opportunities based on individual interests and skills. In the career counselling session, both speakers discussed different paths for higher education suitable for B.Tech students. The event proved to be informative, empowering students with the knowledge to make well-informed career decisions.

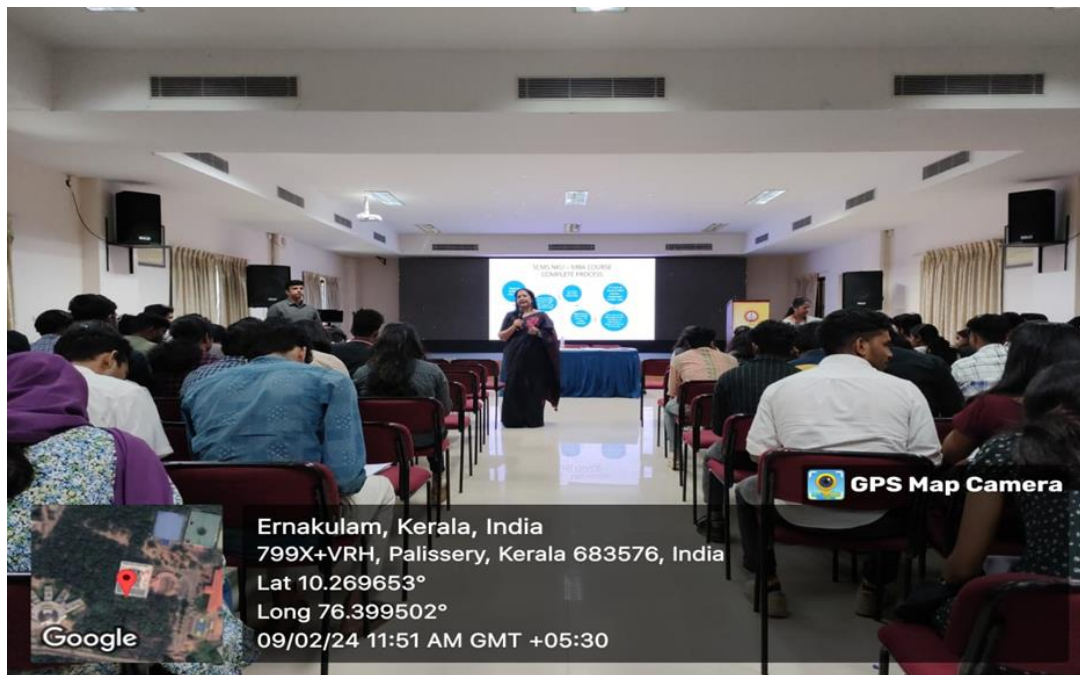


Fig 1: Dr. Indu Nair, Director of SCMS Group of Educational Institutions addressing students.

Department Achievements

A Six-day Faculty Development Programme (FDP) sponsored by AICTE Training and Learning Academy (ATAL) and organized by the Department of Mechanical Engineering from 15th to 20th January 2024. Dr. Soumitra Mukhopadhyaya, Senior Manager, SMS India Pvt. Ltd, Kolkata inaugurated the FDP, and Dr. Praveensal C.J, Director, SSET, presided over the function. Dr. Rag R.L, Professor and Head, Department of Mechanical Engineering, Dr Vidyachandran, Associate Professor and Coordinator of FDP, Mr Sujith R, Assistant Professor and Co-coordinator of FDP were present during the occasion. Experts from IIIT, NITs, Government research organizations and industries delivered talks in various sessions. Expertise of the in-house faculty members was also utilized. Technical sessions were handled by Dr. N Gnanasekaran, NIT, Karnataka, Dr. Viswanath Gopalakrishnan, IIIT Bangalore, Dr. Soumitra Mukhopadhyaya, Senior Manager, SMS India Pvt. Ltd, Kolkata, and other experts from reputed institutions. The concluding session was delivered by Dr. Lalith Kumar Singh, Senior Scientist, NPCIL, BARC. Hands-on sessions were handled by Ms. Susmi Jacob and Ms. Asha S, Assistant Professors of the Department of Computer Science and Engineering, SSET. The FDP was attended by Faculty members from various Engineering Colleges in India.



Figure 2: Faculty members from various engineering colleges along with Dr. N Gnanasekaran, NIT, Karnataka.

A one-day Advanced Microsoft Excel workshop was conducted on 15th January 2024 for SSET's non-teaching staff as part of Skill Upgradation Workshop 2.0. organized by the Internal Quality Assurance Cell and the Department of Computer Science and Engineering. The session was led by Ms. Asha S Rakesh, Assistant Professor, Department of Computer Science and Engineering, who discussed basic concepts, hands-on exercises with formulas, and practical applications like freezing panes, sorting, filtering, and data validation in Excel.

The Department of Computer Science, in association with IQAC, R&D, and the Department of AI & DS, organized a research talk and demo on 'Internet of Medical Things' on 25th January 2024. The event was handled by Dr. Venki Balasubramaniam, Associate Professor at Federal University, Australia.

The Department of Computer Science in collaboration with TinkerHub and GDSC SSET, organized 'The World of Front-End Web Development,' featuring a full-stack developer on 30th January 2024. The session was conducted by students of Semester eight and the participants were third year students from Computer Science Engineering and Data Science.

The Department of Civil Engineering conducted a short term training on "Analysis of water and wastewater quality" from 29th to 31st January 2024. This training program was mainly intended to enhance the skill of participants in the field of water and wastewater quality analysis, air quality sampling, chromatographic techniques, spectrometric techniques and examination of microplastics. Dr. Ratish Menon, Professor & Head, Dr. Nisha L, Professor, Dr. Sanju Sreedharan, Associate Professor, Dr. Lakshmi Priya, Ms. Merin Mathew, Ms. Roshni K R, Ms. Meera Varghese and Ms. Sruthy S, Assistant Professors of the Department of Civil Engineering, SSET were the resources persons. 30 students from various Engineering colleges participated in the program.



Fig 3: Participants of short term training on "Analysis of water and wastewater quality" along with Dr. Anitha G Pillai, Principal, SSET and Dr Rathish Menon Professor and Head of the department of Civil Engineering

The Department of Civil Engineering conducted a staff development program on "AUTO CAD" from 22 January 2024 to 30 January 2024. This training program was mainly intended to enhance the skill on various applications of AUTOCAD software via hands on sessions. Mr. Jerry Anto, Assistant Professor, Department of Civil Engineering, SSET was the resources person. Staff members from various departments attended the Program.



Fig: 4 Mr. Jerry Anto, Assistant Professor, Department of Civil Engineering delivering the session on AUTO CAD

Staff Achievements

Dr. Ratish Menon Professor and Head of the Department, Civil Engineering Department was invited as a resource person by World Health Organization (WHO) for a workshop on "Climate Resilient Sanitation Safety Planning" conducted during 6th to 9th February 2024 at Anil Agarwal Environmental Training Institute, Tijara, Rajasthan. Government officials & representatives of NGOs working in the sanitation sector from India, Nepal, and Bangladesh were the participants in this workshop.

Dr. Rag R L, Professor and Head of the Department, Mechanical Engineering has participated in the One Week National Level Online Faculty Development Program on Outcome Based Education and Essential AI Tools for Teachers, organized by the Internal Quality Assurance Cell (IQAC) of St. Thomas College, Palai in association with The Kerala State Higher Education Council (KSHEC) from 10th to 16th January 2024 and has completed all the tasks, assignments and assessments securing an A grade.

Dr. Raghav G R, Associate Professor and Mr. Noel Joseph Gomez, Assistant Professor of Department of Mechanical Engineering have successfully participated & completed AICTE Training And Learning (ATAL) Academy, Faculty Development Program on AI and ML

Empowerment - Shaping the Future of Mechanical Engineering at SCMS School of Engineering and Technology, Karukutty from 15th to 20th January 2024.

Dr. Rag R L, Professor and Head of the Department, Mechanical Engineering published a book chapter in a book published by Elsevier Ltd. "Vaporisation of Lignocellulose Biomass Through Biorefinery Concepts" on 25th January 2024 with DOI: <https://doi.org/10.1016/B978-0-443-19171-8.00015-8>.

Dr. Rag R.L, Professor and Head of the Department, Mechanical Engineering along with three S8 students, visited WFB Baird and Company India Ltd on January 18th, 2024. The project was found to be feasible, and the company has granted its approval. From the same date, students have commenced their work. It has been agreed that they will visit the company at least once a week to conduct their tasks on-site. Dr. Rag R.L., serving as the internal guide, has been requested to be present at the company at least once a month. This marks the department's second project at WFB Baird, and the progress has been smooth. Furthermore, there is a possibility of securing another long-term student project for the junior batch.



Fig 5: Dr. Rag R.L, Professor and Head of the Department of Mechanical Engineering, along with three Semester eight students, explores innovation at WFB Baird and Company India Ltd.

Dr. Raghav G R, Associate Professor, Department of Mechanical Engineering, published a journal article entitled "The influence of tool shoulder size and plate position on the characteristics of friction stir welded different aluminium alloys" in Journal of the Chinese Institute of Engineers, Taylor and Francis Publication, Impact factor:1.1 in February 2024.

Dr. Vidya Chandran, Associate Professor, Department of Mechanical Engineering was recognized by NPTEL as active SPOC based on the performance and participation of candidates for the July to December 2023 Semester.

Mr. T.G. Avinash, Mr.K.A. Althaf, Mr.Yadu R Varma, Mr.Nowshad Shabeed K of 2023 batch students along with Dr Raghav G R, Associate Professor, Department of Mechanical Engineering, published an article entitled” A review on Additive Manufacturing Process” in Metallophysics and Advanced Technologies, Volume 45, issue 6, p.no 795-8 on 11th February 2024, Scopus indexed.

Dr. Mahesh R, Professor of the Department of Mechanical Engineering, and the project students visited for an ergonomic aspect survey in WFB Baird on 12th February 2024 and partially completed the survey.



Fig 6: Dr. Mahesh R, Professor of the Department of Mechanical Engineering, along with project students, conducts an ergonomic aspect survey at WFB Baird

Ms. Deepa K, Associate Professor, Department of Computer Science and Engineering was the evaluator for the state-level evaluation of YIP Sastra Padam 5.0.

Dr. Varun G Menon, Professor and Deputy Dean of Research, SSET attended a patent analytics session at SSTM on January 9th, 2024, refining his expertise in the field. He has also been selected to the Editorial Board of the Journal of Advanced Digital Communications (JADC).

Ms. Asha Rakesh, Assistant Professor of The Department of Computer Science and Engineering presented an engaging session on the “VAK Mind Tool for teaching “as part of the KSP Series on January 10th, 2024.

Ms. Surya S G, Assistant Professor, Department of Computer Science and Engineering delivered a session on "Zero Trust Security: A Shift in Cybersecurity" as part of the KSP series on January 19th, 2024.

Mr. Mahesh K M, Assistant Professor, Department of Computer Science and Engineering delivered a session on presentation skills and Mr. Ajish K K, Lab Instructor also delivered a session on "Networking and Hardware", for SSET's non-teaching staff as part of Skill Upgradation Workshop 2.0 on January 19, 2024. The workshop was organized by the Internal Quality Assurance Cell and the Department of Computer Science and Engineering.

Ms. Sindya K Nambiar and Ms. Asha S, Assistant Professors of the Department of Computer Science and Engineering conducted a workshop for Semester eight students organized by the Department of Computer Science and Engineering and the Department of Artificial Intelligence and Data Science on "Introduction to Overleaf: Elevating Technical Writing" on 24th and 25th January 2024.

Mr. Akhil Baby, Assistant Professor of the Department of Basic Science and Humanities participated in a Five-day FDP on Research Methodology and Data Analysis, Organized by KMM College Thrikkara from 15th to 19th January 2024.

Dr. Geethu R, Associate Professor, Ms. Anju Nair and Dr. Santhosh M V, Assistant Professors of the Department of Basic Science and Humanities published a book chapter (INTERNATIONAL publication), entitled "Inorganic Nanomaterials in Organic Solar Cells: A Renewable Energy Application", in book entitled New Advances in Materials Technologies, Experimental Characterizations, Theoretical Modeling, and Field Practices, Publisher- Apple Academic Press, with ISBN- Hard ISBN: 9781774914847, E-Book ISBN: 9781003459262 on 13th February 2024.

Dr. Nithya Mohan, Assistant Professor, Basic Science and Humanities Department published a journal paper entitled "A novel Salen-based dual channel sensor for easy and selective nanomolar detection of L-cysteine" in the New Journal of Chemistry published by Royal Society of Chemistry on 18th January 2024.

Ms. Jinu M J, Assistant Professor of the Basic Science and Humanities Department completed the Udemy certificate course on “Decision Making Using Analytical Hierarchy Process” on 6th January 2024.

Dr. Sreelekha Menon, Professor of the Department of Basic Science and Humanities reviewed an article "Acquiring data forecasting titled "ARIMA, LSTM and Prophet compared"; for the Journal of Computer Science in January 2024.

Ms. Divya M S, Assistant Professor of the Basic Science and Humanities Department had published a chapter titled "Health and Well-Being: Mental Health Challenges and Support" in an edited book "Women and The Society" with ISBN No: 978-81-962962-3-0 in December 2023.

Student Achievements

Mr. Thapus Simon, M.Tech Computer Science and Engineering Third Semester student under the project guidance of Dr. Varun G Menon, Professor and Deputy Dean of Research got 900 USD of credits for Amazon Web Cloud Services for Ramp-Up Project.

Mr. Shyam S. Pillai and Mr. Aswin Harikumar, first-year students of Computer Science and Engineering, secured the third prize in the Artha Fiesta All Kerala Inter Collegiate Debate Competition at St. Stephen's College, Uzhavoor.

PLACEMENT ACTIVITIES for February 2024

Dr. Jenson Joseph. E, Officer- Corporate Relations, attended an online workshop conducted by Kerala Knowledge Economy Mission regarding the placements and training for the final year students on 24th January 2024 at 11.30 am.

Dr. Jenson Joseph. E, Officer- Corporate Relations, attended the Industries & Training Placement Officers (TPO) meet at Kailasanadha Vidyanikethan, Mannuthy P.O, Thrissur on 31st January 2024 conducted by Board of Apprenticeship Training, Southern Region, Govt of India, (Department of Higher Education, Ministry of Education, Govt. of India).

A virtual placement drive was conducted by Movate Technologies, Chennai for all the branches of B. Tech students from Batch 2020-2024.

IndianOil-Adani Gas Pvt Ltd conducted an online test on 25th January 2024 for the students of branches Mechanical, Electronics and Communication, Electrical and Electronics Engineering from batch 2020-2024. Sixteen students from Mechanical Engineering and Electrical and Electronics Engineering were shortlisted for the second round of the recruitment drive conducted by the Indian Oil Adani group of companies. The second round of interviews was conducted on 16th February 2024.

Qvantel offers placement opportunities to two more students from the Computer Science and Engineering branch, Batch 2020-24. Qvantel had earlier offered four of our students with job opportunities from the same branch and batch.

RDC Concrete conducted its off-campus drive on 8th February, 2024 at Adishankara College of Engineering and Technology. Sobin Varghese from Civil Engineering Batch 2020-24 received an offer from the company.

Unisis Engineering, UAE conducted an off-campus placement drive at VISAT Engineering College, Elanji. Forty Six Students from Mechanical, Electrical and Civil Engineering branch, batch 2020-24 participated in the drive. Mr. Aadhilshah, from semester eight Mechanical Engineering was selected with a salary package of Rs. 6LPA.

Rohith P Liju from Computer Science and Engineering branch, batch 2020-24 receives an offer from Innovature.

PKJ Technologies has scheduled to conduct its first on-campus placement drive on 19th February, 2024 for Mechanical, Automobile, and Computer Science Branches Batch 2020-24. Fifty Three students have applied for various positions in the Company.

Twenty Five students from the Mechanical, Automobile, and Electrical and Electronics branches, Batch 2020-24 applied for Graduate Engineer Trainee positions at the PP Rolling Mills Mfg Co. Pvt. Ltd, Delhi.

Placement Cell organized a Foreign Delegate interaction on 8th February, 2024 at 10.30 am in Conference Hall, SSET. Prof.Brian Rodrigues from the School of Physics, University College Dublin Ireland, and Dr. Ankur Sati, Post-Doc Associate, University College of Dublin, Ireland interacted with Mechanical and Automobile Engineering students.

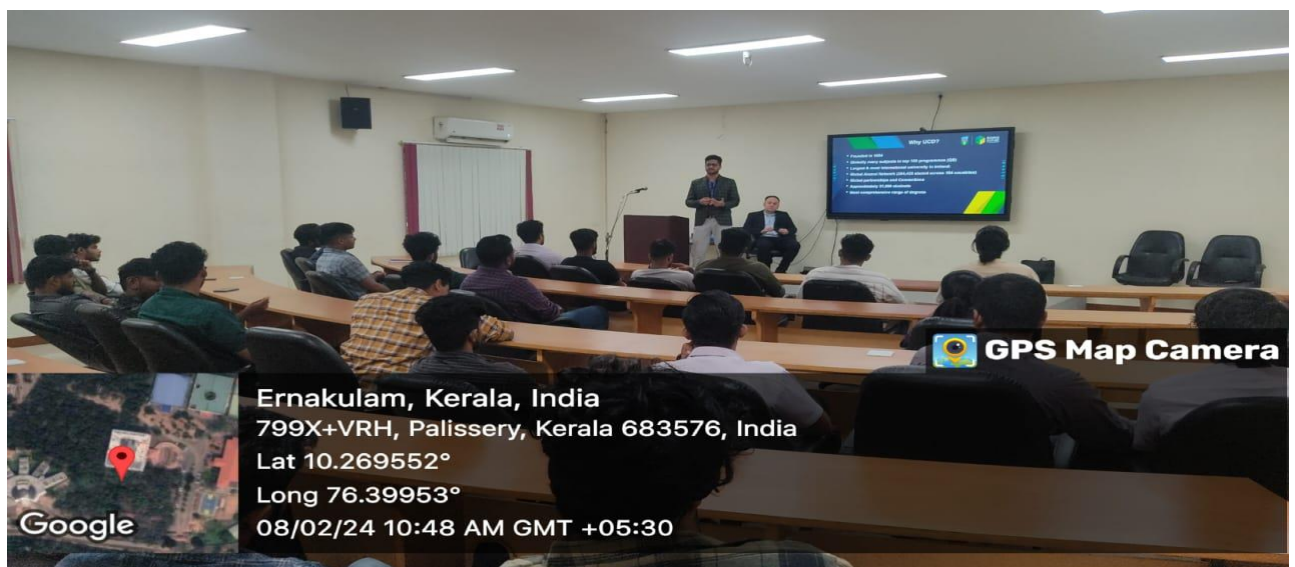


Fig 7: Prof.Brian Rodrigues from the School of Physics, and Dr. Ankur Sati, Post-Doc Associate, University College of Dublin conducting the session.

Placement Cell organized an online interactive session on 13th February, 2024 at 11.00 am for the students shortlisted for the 2nd Round of Interviews by Indian Oil Adani Group Pvt. Ltd. 2019-2023 pass out Mechanical engineering students Mr. Sanjay and Mr. Jithin who were already placed

in Indian Oil Adani Groups addressed the shortlisted students and shared their experience. Shortlisted students also clarified their doubts with them.

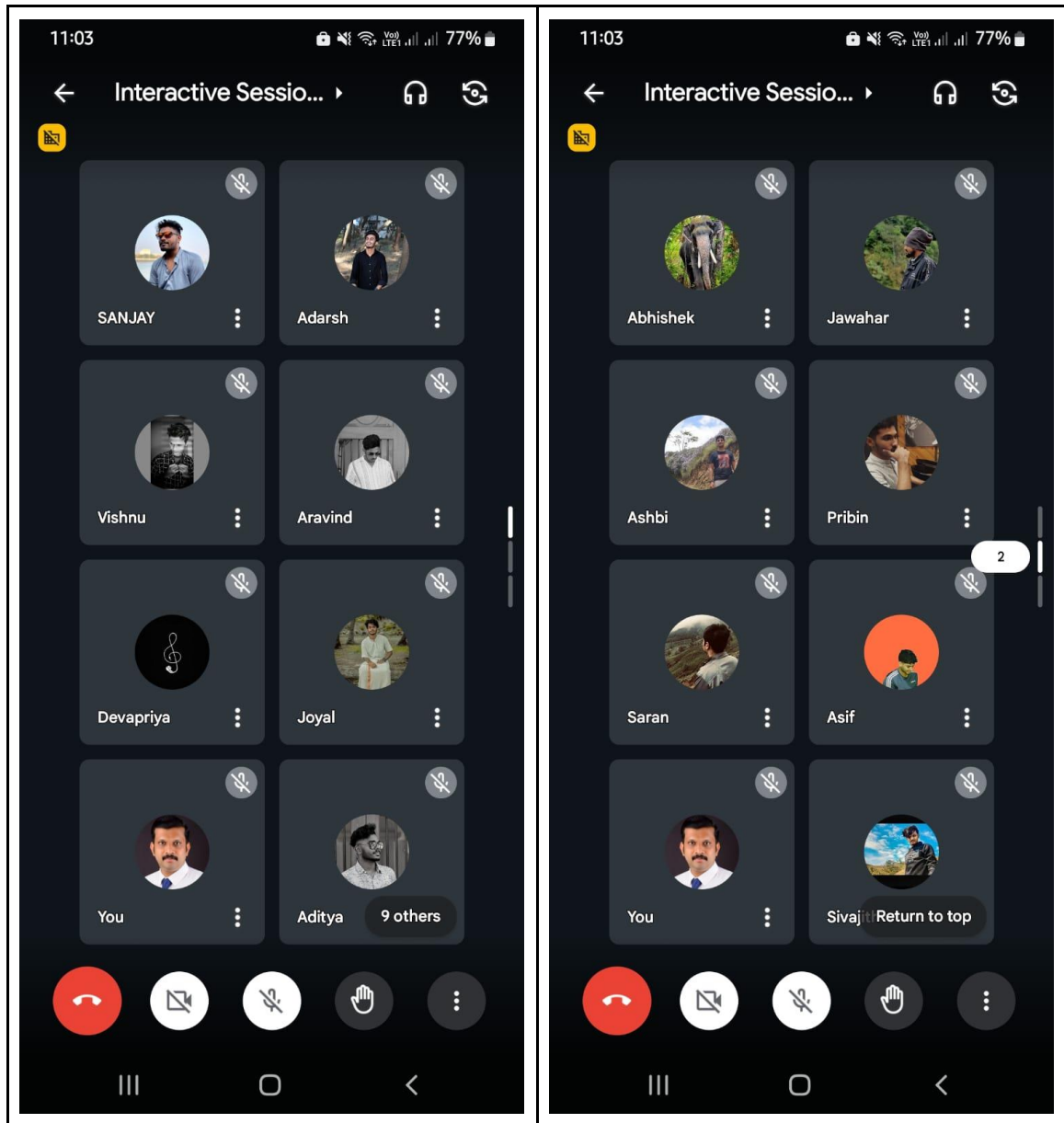


Fig 8: Dr. Jenson Joseph. E, Officer- Corporate Relations along with the students in the online session.

The placement cell organized an Interaction with the Officials from IBM on 08-02-24 at 10.00 am in the Mini-conference hall to discuss the possibility of tie-up to train the students in Artificial Intelligence and Data Science. Mr. Devkant Aggarwal, Leader Growth Initiatives, IBM and Jagadisha Bhat, Country Manager, Software Services, IBM were present in the discussion from IBM. Dr. Praveensal C J, Campus Director, Dr. Anitha G Pillai, Principal, Dr. Manish, Head of

the Department Computer Science and Engineering, Dr. Sonal Ayyappan, Head of the Department Artificial Intelligence-Data Science and Dr. Jenson Joseph. E, Corporate Relations officer took part in the discussion.



Fig 9: Dr. Anitha G Pillai, Principal, Dr. Manish, Head of the Department Computer Science and Engineering, Dr. Sonal Ayyappan, Head of the Department Artificial Intelligence-Data Science and Dr. Jenson Joseph. E, Corporate Relations officer in discussion with Mr. Devkant Aggarwal, Leader Growth Initiatives, IBM and Jagadisha Bhat, Country Manager, Software Services, IBM.



Fig. Ms. Avantika Cinesh of S3 CSE has bagged a silver medal in the National Roller Skating Championship.

PLACEMENT ACTIVITIES

Litmus7 conducts their online test on 22.12.2023 for the students from Batch 2020-24.

Innovature conducted the first round of its selection process on 13.12.2023 at FISAT. Three students were shortlisted for the interview rounds from the Computer Science and Engineering branch (Batch 2020-24).

Dhoot Transmission conducts its online test on 31.12.2023 for the Mechanical, Electrical and Electronics, Electronics and Communication branches (Batch 2020-24) and offers placement opportunities to students (Batch 2020-24). Three from Electronics and Communication Engineering and three from Mechanical Engineering

Thirteen Companies have offered placement opportunities to our students from the present batch of 2020-24. The offers received are 134 with 109 students placed in these companies.

TCS NQT invite registration for their hackathon which kick starts on 27.01.2024.

Hut Labs, Eleation, Frasco Advanced Technology Pvt. Ltd, Aarbee Structures Pvt. Ltd, RDC Concrete (India) Pvt. Ltd, Indian Oil Adani Group Pvt. Ltd, Unisis Engineering are a few companies that have invited application from our present outgoing Batch of 2020-24.

MARCH 2024

Department Achievements

The Computer Science and Engineering Association Synergy hosted a momentous event on 27th February, 2024, at the Main Seminar Hall, unveiling the new department logo and presenting the 8th edition of the department magazine, Horizon. The principal, Dr. Anitha G Pillai, inaugurated the logo, and Dr. Varun G Menon, Deputy Dean of Research and Development, introduced the digital magazine format. Dr. Manish T I, HoD, Department of Computer Science and Engineering, and Dr. Sonal Ayyappan HoD, Department of Artificial Intelligence and Data Science jointly unveiled the magazine. Additionally, a cash prize was awarded to Mr. Ijas Ahammed, an Semester eight Computer Science and Engineering student, for his winning logo design.



Figure 1 Dr.Anitha G Pillai ,Principal ,SSET awarded a cash prize to Mr.Ijas Ahammad ,Semester eight of Computer Science Engineering who is the winner of the logo competition

The Department of Computer Science and Engineering, in association with the Department of Artificial Intelligence and Data Science and the Department of Electronics and Communication, organized a one-day Women's Hackathon held on 2nd and 3rd March , 2024. The Tinker Hub, sponsored by HP, supported the program. Dr. Anitha G. Pillai, Principal, SSET, inaugurated the function. There were 20 teams, out of which two teams from other colleges participated in the

event. Three mentors from Tinker Hub evaluated the performance of participants at various stages and provided guidance to them.

The Department of Computer Science and Engineering initiated a collaborative project titled "Real-time Visualization of Trains, Signals, Tracks, and Level Crossings using FRMCS Technology for Indian Railways" in September 2023, partnering with BTF and Pradjna Intellisys Pvt. Ltd. The first phase of the project was completed successfully in February 2024 under the guidance of Ms. Josna Philomina, Faculty Advisor and Dr. Varun G Menon, Faculty Co-advisor. On March 5, 2024, the industry team distributed mementos and certificates to both the students and faculty.

The five days online FDP program organized by the EEE Department was conducted on 26 February 2024 to 1st March 2024 from 10.00 A.M to 12. noon. Topic was "Opportunities of Power Electronics for Smart grid, Renewable Energy and Electric Vehicles " There were four external speakers and one internal speaker who are experts in power electronics and electric vehicle field. Inaugural function was done by Chief guest Dr Rijil Ramchand, Professor, NIT Kozhikode at Conference Hall, SCMS School of Engineering Campus at 9.45 A.M. Total of 150 participants attended the inaugural function of online FDP. The FDP gave an insight about control of converters, importance of power electronics in Electric vehicles, sliding mode control on electric vehicles, infinite level inverters with special emphasis to research perspectives. All sessions had a good amount of take away for faculty and research scholars. Total 250 registrations were received and 150 participated of which 135 were external participants and 15 internal participants.

The Department of Mechanical Engineering, SCMS School of Engineering and Technology, conducted an invited talk on "Electrical Sailing Ship Research & AI in Ship Life Cycle" by Prof. Dean Vucinic, Managing Director and Founder, VICORE SA, Brussels, Belgium, Professor Emeritus, Department of Mechanical Engineering, Department of Electronics and Informatics, Vrije Universiteit Brussel, Belgium. The program was coordinated by Dr Vidya Chandran, Associate Professor, Mr. Sujith R and Mr. Dinil Babu, Assistant Professors of Department of Mechanical Engineering, SCMS School of Engineering and Technology on 23rd February, 2024. 39 Faculty members attended the program.



Fig 2: Prof. Dean Vucinic, Managing Director and Founder, VICORE SA, Brussels addressing the gathering

The mechanical engineering association ARiME of SSET organised an expert talk on Applications of Engineering in Biomedicine by Mr. Sudhir K Nair, Head - Academic Programs HR AGAPPE DIAGNOSTICS LTD, Ernakulam on 7th March.2024. Students were enlightened about the requirements of engineers in the field of biomedical applications like Imaging as well as invitro diagnostics. During the talk he appreciated the mechanical engineering department of SSET for the completed student projects and ongoing consultancy work. He stressed the possibilities of microfluidics, MEMS, exoskeletal designs and materials and the formation of reagents. Students from Mechanical Engineering and selected students from other departments were present.

Dr Vidya Chandran, Dr Gibin George, Associate Professors and, Mr. Suraj R, Assistant Professor of the Department of Mechanical Engineering, along with the Head of the Department, Dr. Rag R L, visited the production unit of Agappe Diagnostics Ltd, a leading medical equipment manufacturer as part of the ongoing consultancy work on 19th February 2024. The team had discussions with Mr. Varghese N Ouseph, Head of R&D, and Dr. Sudhir K Nair, Head, Academic Programs. A group of 4 students from final year Mechanical Engineering is also working on the problem addressed by the team through this consultancy.



Figure 3: Glimpses of the visit to production unit of Agappe Diagnostics Ltd as a part of Consultancy work

Staff Achievements

Dr. Varun G Menon, Deputy Dean of Research, Department of Computer Science and Engineering, SSET, delivered a session on "How to Identify Fake, Cloned, and Predatory Journals" for the faculty members of SSET at the Main Seminar Hall on 21st February, 2024.

Dr. Varun G Menon, Deputy Dean of Research, Department of Computer Science and Engineering, SSET was selected as the Secretary of the IEEE Kochi Subsection. He was also the keynote speaker and session chair at the IEEE conference organized at Vellore Institute of Technology (VIT) on 21st and 22nd February 2024.

Dr. Manish T. I, Professor and Head of the Department of Computer Science and Engineering, SSET, was the keynote speaker at the Fourth International Conference on "Advanced Computing and Communication Technology" organized by Francis Xavier Engineering College, Tirunelveli, on 23rd February 2024.



Fig 4: Dr. Manish T. I delivering a session at the Fourth International Conference on "Advanced Computing and Communication Technology" organized by Francis Xavier Engineering College, Tirunelveli.

Ms. Sruthy S , Assistant Professor, Department of Civil Engineering, presented a paper on “Treat Assessment of water distribution network in a semi urban area of Kerala” at National Environmental Conference organized by IIT Bombay on 16th February 2024.

Ms. Merin Mathew, Assistant Professor, Department of Civil Engineering, presented a paper on “Management plan for Thevara-Perandoor Canal at Panampilly Nagar-A cost benefit approach” at National Environmental Conference organized by IIT Bombay on 16th February 2024.

A journal article entitled “Optimization of multi-response process parameters in friction stir processing of AA6063/n-graphene composites by Taguchi's grey Relational Analysis” authored by Dr Raghav G R, Associate Professor, Department of Mechanical Engineering and Dr Jenson Joseph E, Professor and HOD, Department of Automobile Engineering, is accepted for publication in journal of Metal Physics and Advanced Technologies, Scopus indexed.

As a part of Knowledge sharing program Dr. Rag .R.L, HOD, Department of Mechanical Engineering, SSET delivered a lecture on “ Biomimicking as a design tool” on 2nd March 2024.

On 29th February 2024, Ms. Bini D Nair, Assistant Professor in the Basic Science and Humanities Department, delivered a Knowledge Sharing program titled "Exploring Vedic Mathematics: Bridging Ancient Wisdom with Modern Learning for Real - World Applications".

Student Achievements

Mr. Anirudh V Kumar and Mr. Akas T S students of third year Computer Science and Engineering, won the grand prize at the Business Contest organized by Matsue, Japan .



Figure 5: Winners of the Matsue Japan San’In Business Pitch Contest along with an internship opportunity Anirudh V. Kumar and Akash T S – Semester 6 Computer Science and Engineering

Mr. Amit George and Mr. Gautham T Gopinath, students from Semester four of the Department of Computer Science and Engineering shared their inspiring experiences of working with differently-abled children of Oorjja Ecosystems in a session organized by SSET KOOTTU.

Students from the eighth and fourth semester of the Department of Electrical and Electronics Engineering visited the Electric World 2024 Electrical Engineering Expo on Saturday, March 2nd ,2024.The expo showcased a myriad of renewable energy technologies, emphasizing sustainability and environmental consciousness.Integration of artificial intelligence and machine learning algorithms into grid management systems was demonstrated, enabling predictive maintenance, fault detection, and real-time optimization.

PLACEMENT ACTIVITIES

MOU was signed between SCMS Group and Niyati Training Solutions Pvt Ltd., Chennai on 27-02-24 at SCMS Muttom. Prof Pramod P Thevannoor, Vice-Chairman, SCMS Group, Mr. Aswin Gopinath, General Manager, Niyati Training Solutions Pvt Ltd and Dr. Jenson Joseph. E, Officer-Corporate Relations, SCMS School of Engineering & Technology were present on the occasion.



Figure 6: . Prof Pramod P Thevannoor, Vice-Chairman, SCMS Group, Mr. Aswin Gopinath, General Manager, Niyati Training Solutions Pvt Ltd and Dr. Jenson Joseph. E, Officer- Corporate Relations, SCMS School of Engineering & Technology

Career guidance session and student profiling was done for S6 Computer Science and Engineering, Data Science students and S4 Computer Science and Engineering, Data Science and Artificial Intelligence students by Mr. Nagendra Yadav, Data Scientist, IBM, Gurgaon and Ms. Deekshitha Kolusu, Data Scientist, IBM, Bangalore on 04-03-24 at Seminar Hall, SSET



Figure 7: Students attending the Career guidance session followed by student profiling

The Companies that approached for placement drives On and Off Campus are ESAF Small Finance Bank, Electrifax Technologies Pvt. Ltd, K P Reliable Techniques, Xplor, Camerin Folks, Tems Tech, Rane (Chennai) Ltd, Saint Gobain, ULTS, Think Palm Technologies, Hexaware.

Adil V. A. Batch 2019-23 from Electrical and Electronics Engineer got placed with Sud - Chemie India Pvt. Ltd.

The following companies offered placement opportunities to students of Batch 2020-24 across various branches.

K P Reliable Techniques - 9 offers received (Mechanical-6, Electronics and Communication-2, Electrical and Electronics -1)

Electrifax Technologies Pvt. Ltd - 1 offer received for Computer Science

Rane (Chennai) Ltd - 4 Offers received (Mechanical - 3, Automobile -1)

Arbee Structures Pvt. Ltd - 1 offer received for civil

Indian Oil Adani Pvt. Ltd.- 1 offer received for mechanical

APRIL 2024

On 12th April, 2024, the SSET Women's Forum celebrated a significant milestone with the launch of its new logo and the revelation of its official name during a special event at the Conference Hall. The occasion was graced by the presence of Dr. Anitha G Pillai, Principal of SSET, who delivered an inspiring keynote address emphasizing the importance of gender equality and the empowerment of women. Her speech highlighted the vital role that unity and strength play in promoting women's empowerment within the community. The highlight of the event was the unveiling of the forum's new logo, designed by Mr. Edwin Joy of Semester four of the Department of Computer Science Engineering, who won the logo contest. The logo, representing the themes of unity and empowerment, was revealed to an audience full of applause and appreciation. Dr. Anitha G Pillai presented the award to Mr. Edwin Joy, commending his creativity and understanding of the forum's vision.



Fig 1: Logo of SSET Women's Forum

Department Achievements

The Intra-College Debate competition was organized as an initiative of Atelier, the Department Association of Basic Science and Humanities. Competition "LISTEN UP! SPEAK UP!", was held at the Conference Hall, Academic Block on 21st March 2024, from 9.00 am to 3.30 pm with a total of 110 participants. Best speaker and three consecutive winning teams were acknowledged with prizes. Ms. Nayana Nair of semester two Data Science and Engineering was selected to be the best speaker and Mr. Pavan Murali, semester two of Computer Science and Engineering4 and Bharath Sankar semester two Computer Science and Engineering2 bagged the first prize following with Mr. Ashwin Harikumar ,semester two Computer Science and Engineering2 and Shyam M, semester two of Computer Science and Engineering4 were runners up.



Fig:2_Ms. Nayana Nair of semester two of Artificial Intelligence and Data Science receiving the Best Speaker award from Dr. Anitha G Pillai, Principal ,SSET

Staff Achievements

Ms. Neethu Krishna, Assistant Professor, Department of Computer Science and Engineering, SSET has published a book chapter titled "Homomorphic Encryption and Machine Learning in the Encrypted Domain" with IGI Global Publishers .

Dr.Varun G Menon , Professor and Deputy Dean of Research ,SCMS School of Engineering and Technology, has completed his Doctoral fellowship in Computer Science and Engineering from Lincoln University . He also represented the IEEE Kerala Section and participated in the inauguration of ICITIIT'24 at the Indian Institute of Information Technology, Kottayam.



Fig 3: Dr.Varun G Menon (First from left side) in the inauguration of ICITIIT'24 at the Indian Institute of Information Technology, Kottayam

Ms. Jane Theresa, Assistant Professor of the Department of Basic Science and Humanities published an article titled Rooted Resilience: Nature’s Consolation in Scopus indexed journal titled Educational Administration: Theory and Practice on 10th April 2024.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering, got certified as a trusted reviewer by IOP publishing in recognition of a high level peer review competency, 20th March 2024.

Ms. Nandita Mohan, Assistant Professor of Department of Civil Engineering delivered a Knowledge sharing Program on the topic “An introduction to BIM in Civil Engineering” on 20th March 2024 at SCMS School of Engineering and Technology, Karukutty.

Dr. Manish T I, Professor and Head of the Department of Computer Science and Engineering, SSET delivered a session on "Transforming Student Projects into Research Papers," organized by Research and Development Cell in association with IQAC and the Department of Computer Science and Engineering, on 25th March 2024 .

Ms. Meera V M, Assistant Professor, Department of Computer Science and Engineering , SSET, delivered a session on "Replit " an online tool for coding and software development platform as part of the Knowledge Sharing Series on 5th April 2024.

The research proposal titled 'Deep Learning-based Intrusion Detector for Cybersecurity,' was evaluated by Dr. Manish T. I, Professor & Head, Department of Computer Science Engineering, SSET for funding by the University of Technology and Applied Sciences , Muscat, Sultanate of Oman.

Mrs. Litty Koshy, Assistant Professor, Department of Computer Science and Engineering, SSET, has Published paper on "Detection of Speech Emotions Using Deep Learning Techniques" in the Proceedings of the Second International Conference on Computing, Communication, Security and Intelligent Systems(IC3SIS 2023) Part of book chapter of Algorithms for Intelligent Systems (AIS)

Ms. Surya S G, Assistant Professor, Department of Computer Science Engineering, SSET ,published a journal paper titled “Securing cyberspace against cyberbullying: A wireless network security Perspective” ,ICTACT Journal on Communication Technology, Volume 15, Issue 1, March 2024

A presentation was delivered by Ms. Susmi Jacob, Assistant Professor, Department of Artificial Intelligence and Data Science, SSET, along with Ms. Deepa Johny and Ms. Anisha Antu, Assistant Professors of the Department of Computer Science Engineering, SSET, on "Recent Trends and Applications of Artificial Intelligence" for the Class X students at CKM NSS Sr. Sec. School , Chalakudy as part of a school outreach programme.

Student Achievements

Mr. Nizwin K S , semester four M.Tech Computer Aided Structural Engineering student, won second prize in the Hackathon organized by Association of Structural and Geotechnical Consultants, Kerala.

Mr. Edwin Joy,semester four of the Department of Computer Science and Engineering along with his team members, secured 3rd place out of 43 contestants in the state-level short film competition

.



Fig4: Edwin Joy receiving the prize during the closing ceremony at Police Training College, Trivandrum.

Mr. Anandjith T from semester six and Ms. Amrutha C from semester four of B.Tech Computer Science and Engineering ,SSET have been shortlisted for the 2024 Hungkuang University Summer Program after the written test and interview.

The patent application for the "Rain Water Storage Cum Interlocking Brick," submitted by SCMS School of Engineering and Technology and Mr. Paul Tomy of Semester eight of the Department of Mechanical Engineering got accepted on 20th March 2024. This innovative project, mentored by Dr. Raghav G R, Associate Professor in the Department of Mechanical Engineering, combines sustainability with structural efficiency. Congratulations to the team for their forward-thinking contribution to environmental and engineering solutions.

Mr. Alen Bijan of semester eight of the Department of Mechanical Engineering has been selected for a 2 months internship by IIT Guwahati ,on 22 March 2024. He was invited to apply for the internship as he was a topper in the NPTEL course “Advanced machining Processes” offered by IIT Guwahati.

Mr. Paul Tomy, a semester eight student from the Department of Mechanical Engineering at SCMS, was part of a team that secured third place in the ‘Hemopol’ state-level video making competition on March 16, 2024.

Aswathy C A ,semester two MCA student ,SSET got Elite Sliver (Topper 1%) certification for Database Management System course in NPTEL Examination January-March 2024.

Placement Activities

As a part of industrial collaboration, the Placement cell organized an online meeting with the officials from Experion Technologies to train the students in recent technologies. The meeting was held on 19-03-24 at 2.00 pm. Mr.Ravisankar - Associate Software Architect, Experion, Ms.Anjana Raghavan - Lead HR, Experion, Ms. Mary Elizabeth - Executive HR, Experion, Dr. Manish, HOD, Computer Science Engineering, SSET, Dr. Sonal Ayyappan, HOD, Artificial Intelligence and DataScience, SSET and Dr. Jenson Joseph.E, Corporate Relations Officer, SSET took part in the discussion.

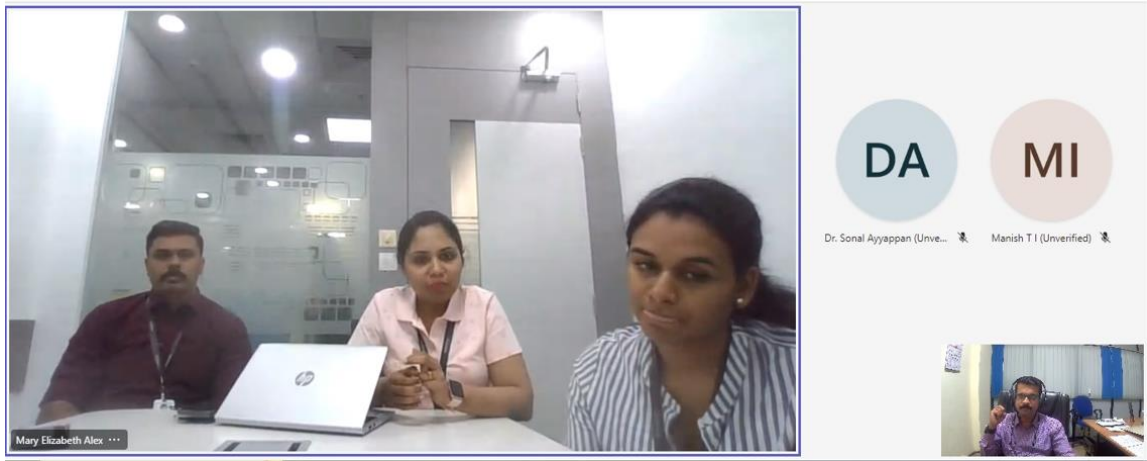


Fig:- Mr.Ravisankar - Associate Software Architect, Experion, Ms.Anjana Raghavan - Lead HR, Experion, Ms. Mary Elizabeth - Executive HR, Experion, and Dr. Jenson Joseph.E, Corporate Relations Officer, SSET

As discussed the talk on the topic "Empowering Your Tech Journey: Navigating the IT Industry with Confidence" by Mr. Ravisankar P - Associate Software Architect, Experion Technologies for Semester 6 (Batch 2021-25) students from all branches (CSE, CO, ECE, EEE, ME. AU, CE) was held at the Seminar Hall of SSET on 05.04.2024.



Fig:- Mr. Ravisankar P - Associate Software Architect, Experion Technologies talks on the topic "Empowering Your Tech Journey: Navigating the IT Industry with Confidence"

On-campus drive was conducted by Think Palm Technologies Pvt.Ltd., on 14.03.2024 for Computer Science Engineering and Electronics and Communication Engineering students of Batch 2020-24. Ninety-Three students participated in the drive.

Students Profiling for Semesters Two, Four and Six was conducted from 14.03.2024 to 16.04.2024. The session was handled by Mr. Gopi Corporate Trainer, Niyati Tarning solutions Pvt Ltd.,and Mr. Ashok Kumar from Niyati Solutions.

An online campus drive was conducted on 19.03.2024 by Hexaware for Batch 2020-24 of CSE, EEE Branches.

Companies that approached for Batch 2020-24 to conduct placement drive are Confianz Global,, Posidon Infratel Solution Pvt. Ltd., Amerigo Structural Engineers (P) Ltd., VMX HI Connectors Pvt. Ltd, Mcoratea, TCS , Paradigm, UVJ Technologies.

Seven from MCA (batch 2022-24) got shortlisted for personal interview with Tems Tech Solutions

Thinkpalm Technologies Pvt. Ltd. Shortlists four from CSE (Batch 2020-24) for a face-to-face interview at their office at Kochi.

Offers received by the Batch 2020-24: -

Xplor Rides - One student from Electrical and Electronics Engineering

ZF Commercial Vehicle Control Systems Indian Ltd. - Sixteen students from Mechanical Engineering and Four students from Automobile Engineering.

NMW Racing - One student from Automobile Engineering

Deloitte - One student from Computer Science and Engineering

Movate - One student from Computer Science and Engineering

ULTS - Seven students from Computer Science and Engineering and Two from Electrical and Electronics Engineering.

Mitsogo Technologies - Two students from Computer Science and Engineering.

Schneider Electric India Pvt. Ltd. - Twenty-Two students from Electronics and Communication Engineering and Three students from Electrical and Electronics and Engineering.

MAY 2024

Department Achievements

The Department of Basic Science and Humanities hosted a poetry writing competition on April 23, 2024, in commemoration of William Shakespeare's birthday. The event, titled "The World's a Stage," was conducted to celebrate the creative expression of students to explore the realms of literature through poetry. A total of 11 enthusiastic students participated in the competition under the guidance of faculty coordinator, Jane Theresa, Assistant Professor, Basic Science and Humanities. Ms.Fathima Bushra, second semester from the Department of Computer Science Engineering grabbed the first prize. She was handed over a copy of Paulo Coelho's The Alchemist by Dr. Anitha G Pillai, Principal, SSET as a token of appreciation.



Fig1: Students participating in the Poetry writing competition titled The World's a stage



Fig 2: Dr. Anitha G Pillai, Principal, SSET, handing over a book to first prize winner Ms.Fathima Bushra, student of second semester from the Department of Computer Science Engineering.

Staff Achievements

Dr Vidyachandran, Associate Professor and Head of the Department of Mechanical Engineering delivered an expert talk on Heat Transfer Enhancement through Additive Manufacturing Technique for 6th semester students of the mechanical engineering department of Mangalam College of Engineering on May 3, 2024.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering, co-authored the research article " The influence of tool shoulder size and plate position on the characteristics of friction stir welded different aluminium alloys" which was published in the Journal of the Chinese Institute of Engineers on May 5, 2024. He also co-authored the research article " A Novel Development and Experimentation on Lightweight Aluminium 6061-T6:alloy as a promising shipbuilding material using bio reinforcement" which was published in the Journal of Advanced Research in Industrial Engineering, in May 2024

Dr Nithya Mohan, Assistant Professor, Department of Basic Science and Humanities had published a Journal paper entitled 'Mononuclear and binuclear dioxidomolybdenum (VI) chelates derived from a tridentate ONO donor aroylhydrazone: Spectral, structural, DFT and in silico biological investigations' in Ployhedron, Elsevier on April 18, 2024.

Jane Theresa, Assistant Professor of the Department of Basic Science and Humanities published a paper titled A Critical rereading of Patrick White's novel in Scopus journal, Educational Administration: Theory and Practice, ISSN 2148- 2403, Vol 30, on April 20,2024.

Student Achievements

Mr Paul Tomy, a student of Semester eight, from the Department of Mechanical Engineering, SCMS School of Engineering and Technology has received a Patent grant for his research project " Rain water storage cum interlocking brick" on 26 th April 2024.



Fig3: Mr Paul Tomy, student of Semester eight, from the Department of Mechanical Engineering, received a Patent grant for his research project " Rain water storage cum interlocking brick".

Ms. Avanthika Cinesh, student of semester four from the Department of Computer Science and Engineering was selected to the Indian team, at the World Skating Championship to be held in Italy.



Fig4: Ms.Avanthika Cinesh of semester four from the Department of Computer Science and Engineering, selected to the Indian team, at the World Skating Championship.

Placement Activities

Posidon Infra Structures Pvt Ltd. conducted an on-campus recruitment drive for Electrical and Civil Engineering students (Batch 2020-24). Twenty-nine students participated in the drive conducted on April 12, 2024.

On Campus placement drive was conducted by NewAgeSys Solutions Pvt. Ltd. on April 22, 2024. Forty-one students (batch 2020-24) were shortlisted for the online test.

Amphenol conducts interviews for shortlisted candidates on April 22, 2024 (batch 2020-24) at their office in Ernakulam.

Support Sage conducts face-to-face interviews for students on April 24, 2024 for twenty-six students (batch 2020-24) at their office in Edapally, Ernakulam.

Dr. Jenson Joseph. E, Corporate Relations Officer, SSET held a discussion with Mr. Suresh, GM, Varma Homes, Ernakulam at their office on April 29, 2024. The company assured to recruit students from SSET. The selected students will undergo internship which will be followed by placements.

An on-campus placement drive was conducted by D365 Solutions Pvt Ltd on April 30, 2024. Fifty-four students from B.Tech CSE (batch 2020-24) and MCA (batch 2022-24), and twenty-four students from SSTM were also part of the drive. which was conducted with a written test to be followed by interviews at a later date. Mr. Manoop, Manager-HR, and Mr. Krishna Mohan Joshy, Infra Consultant, D365 Solutions Pvt Ltd., conducted the drive.



Fig5: Dr. Jenson Joseph. E, Corporate Relations Officer, SSET, Mr. Manoop, Manager-HR, and Mr. Krishna Mohan Joshy, Infra Consultant, D365 Solutions Pvt Ltd during the pre-placement talk.

On Campus, placement drive was conducted by Paradigm on April 30, 2024. Twenty-six students from B. Tech Civil (batch 2020-24) participated in the drive which was conducted with a written test to be followed by interviews at a later date. Mr. Bijo Joseph, HR- Manager, Paradigm Structural Pvt Ltd., conducted the drive.



Fig6: Dr. Jenson Joseph. E, Corporate Relations Officer, SSET, Mr. Bijo Joseph, HR Manager, Paradigm Structural Pvt Ltd., during the pre-placement talk.

Companies that approached for Batch 2020-24 to conduct placement drive are Probability Gaming, Cognizant, Akira Software Solutions Pvt. Ltd., Softland India Ltd, Way dot com India Private Limited, Srishti Innovative Computer Systems, Openmynz softlabs, IPA, Intellipaat.

Offers received by batch of 2020-2024 are: -

Mcor tea-One student from batch 2020-2024 Electrical Engineering and two students from Electronics and Communication Engineering receive offers.

Two Hundred and Eighteen offers have been received to date for batch 2020-2024

NAMES OF COMPANIES THAT SELECTED BATCH 2020-2024		
2020 - 2024 BATCH		
<u>SLNO</u>	COMPANIES	NO. OF OFFERS
1	UST	10
2	Global Quest Technologies	15
3	Experion	2
4	Qburst	2
5	Qvantel	6
6	Technologies Global Pvt. Ltd	3
7	Coaaps	36
8	Sutherland (Voice)	28
9	Prakash Group	7
10	Visteon	1
11	GLS	8
12	MIDAS	12
13	Dhoot Transmission	6
14	Innovature	1
15	Unisis Engineering	1
16	RDC Concrete (India) Pvt. Ltd.	1
17	K.P.Reliable Techique India Pvt.Ltd.	9
18	Electrifex Technologies Pvt. Ltd	1
19	Rane (Chennai) Ltd	4
20	Aar Bee Structures Pvt. Ltd.	1
21	Indian Oil-Adani Group Pvt.Ltd (IOAGPL)	1
22	Xplor	1
23	ZF Commercial Vehicle Control Systems India Limited	20
24	NMW Racing	1
25	Movate	1
26	Deloitte	1
27	ULTS	9
28	Mitsogo Technologies Pvt. Ltd.	2
29	Schneider electric India Pvt. Ltd.	25

30	MCortea	3
		218

A training program was conducted for twenty-nine students from Electronics and Communication and Mechanical Engineering to crack the interview process at Forbes Marshall, Pune. Prof. Shaji P E, Freelance Placement Trainer conducted the training on April 12, 2024.



Fig7: Prof. Shaji P E, Freelance Placement Trainer conducted the training to crack the interview process of Forbes Marshall

Five-day intensive placement training workshop was conducted for batch 2021-25 (S6) students in association with Niyati Training Solutions Pvt Ltd., Chennai from April 18, 2024, to April 23, 2024, at SSET. Mr. Babu Rao, Ms. Kalaivani, Ms. Priyanka, Mr. Ashok, Ms. Priyanka and Ms. Aparna, Corporate Trainees, Niyati Training Solutions Pvt Ltd., Chennai were the resource persons. All the students actively took part in the workshop.



Fig8: Ms. Priyanka and Ms. Aparna,, Corporate Trainees, Niyati Training Solutions Pvt Ltd Chennai. seen with the students

The aptitude training session for batch 2021-25 (S6) was conducted by Konfidence on April 29, 2024.

JUNE 2024

SCMS School of Engineering and Technology warmly welcomed Fr. Jose Thanickal CMI along with students and teachers from Carmel Higher Secondary School, Chalakudy on May 30, 2024. The visit featured a series of enlightening sessions, starting with Dr. Sonal Ayyapan, Head of the Artificial Intelligence and Data Science Department, who discussed the transformative applications of AI. Dr. Sunny George, Director of the SCMS Water Institute, presented innovative water management strategies, highlighting the importance of sustainable practices. Mr. Sujay K., Assistant Professor in the Automobile Department, conducted an informative session on road safety, emphasizing preventive measures and technological advancements in the field. The event was a success, providing valuable insights and fostering a spirit of learning and collaboration.



Fig 1: Students and teachers from Carmel Higher Secondary School, Chalakudy, gather at the SSET campus during their insightful visit on May 30, 2024.



Fig 2: Prof. Pramod P. Thevannoor, Vice Chairman of SCMS, and Fr. Jose Thanickal CMI, along with students from Carmel Higher Secondary School, planting a sapling at the SSET campus

celebrating World Environment Day. Also seen in the picture are Dr. Praveensal C J, Campus Director and Dr. Anitha G. Pillai, Principal, of SSET.

Staff Achievements

Dr. Rag R L, Professor, Department of Mechanical Engineering, completed and submitted the Malayalam translation work of the book “Engineering Graphics and Design” to AICTE after an initial round of editing by the Digital University of Kerala in May 2024..

Dr Vidya Chandran, Associate Professor and Head of the Department of Mechanical Engineering, has presented a paper entitled “Numerical analysis of Vortex induced vibrations for Marine Riser Response under Directional frequency influence at SMATECH 2024, 5th International Conference on Smart and Green Technology for Shipping, Ship Design & Ship Structures held online during April 24 and 25, 2024.

Dr Gibin George and Dr. Raghav G R, Associate Professors, Department of Mechanical Engineering, published a book chapter entitled “Two Dimensional Nanomaterials-Based Polymer Nanocomposites for gas and Volatile Organic Compound Sensing” in book Two Dimensional Nanomaterials-Based Polymer Nanocomposites: Processing, Properties and Applications, in John Wiley & sons Publication, May 20 2024.

Dr Raghav G R, Associate Professor, Department of Mechanical Engineering, published a research article entitled “Experimental Investigation in Enhancing the Mechanical, Wear and corrosion resistance Properties of Al6061-SiC-NSA composites fabricated using Stir casting process, in Journal Materials Research Express, SCI Indexed, Impact factor 2.4, June 5, 2024.

Dr. Vidya Lekshmi K P, Assistant Professor of the Department of Basic Science and Humanities was awarded NPTEL Elite + Gold Topper 1% for her outstanding performance in the course Co-ordination Chemistry.



Fig 3: Dr. Vidya Lekshmi K P, Assistant Professor, Department of Basic Science and Humanities was awarded NPTEL Elite + Gold Topper 1%.

The following faculty members from the Department of Basic Science and Humanities have also completed NPTEL courses. Dr. Mini Tom, Professor, Deputy Dean of Academics, got Elite+Silver NPTEL Certification for the course titled The Joy of Computing Using Python.

Mr. Thomas George, Assistant Professor, successfully completed the NPTEL Online certification course Quantum Entanglement: Fundamentals, Measures and Applications with a consolidated score of 48%.

Ms Jinu M J, Assistant Professor, successfully completed the NPTEL Online certification course Set Theory and Mathematical Logic with a consolidated score of 45% and Fuzzy Sets, Logic and System Applications with a consolidated score of 78%. She got Elite+Silver certification for this course. These courses were done as a part of her PhD.

Ms. Neethu Krishna, Assistant Professor, Department of Computer Science and Engineering has published the research article titled 'Vector-Based Genetic Lavrentyev Paraboloid Network for Wireless Sensor Network Lifetime Improvement' in the Springer journal Wireless Personal Communications. doi:<https://doi.org/10.1007/s11277-024-10906-w> on May 2024.

Dr. Varun G. Menon, Deputy Dean of Research and Development, Department of Computer Science and Engineering, SSET, delivered a captivating keynote address at the “International Conference on Widespread Innovations for Next Generation Systems” at Mahaguru Institute of Science and Technology, Alappuzha, on May 3, 2024.

Mrs. Meera V M and Ms. Neethu Krishna, Assistant Professors, Department of Computer Science and Engineering, SSET, authored the paper titled "IoT-driven Decision Support Systems for Smart Manufacturing: A Review of Implementation Strategies," published in the journal Educational Administration: Theory and Practice in May 2024.

Ms. Jane Theresa, Assistant Professor, Department of Basic Science and Humanities, completed a one-week FDP on Technology in Today's Classroom organized by KIIT College of Education in collaboration with Gokul Global University from May 31 to June 6, 2024.

Student Achievements

Mr. Anirudh Kumar and **Mr. Akash**, Semester Six B.Tech of the Department of Computer Science and Engineering students of SCMS School of Engineering and Technology secured the first and second prizes in the MATSUE, JAPAN—SAN’IN—KERALA BUSINESS PITCH CONTEST—2024. At the event organized by ASA Kerala, they received cash prizes of 50000 and 30000 Yen and certificates.



Fig 4: Mr. Anirudh Kumar and Mr. Akash received cash prizes of 50,000 and 30,000 Yen, along with certificates, from Mr. Gopakumar S, President ASA Kerala, and Mr. Hudson Peter, Honorary Chairman ASA Kerala . Dr. Anitha G Pillai, Principal and Dr. Varun G Menon, Deputy Dean of Research, SSET, were present during the ceremony.

A team of students of fourth-semester Computer Science and Engineering, SSET under the guidance of Ms. Josna Philomina, Assistant Professor, Department of Computer Science and Engineering, SSET, provided the necessary 3-D visualization to MVD as per request from Mr. Thahirudern A A, MVI Aluva, an Alumni of SSET.

Placement Activities

On Campus placement drive was conducted by UVJ Technologies Pvt. Ltd on May 10, 2024 at SSET. Thirty students from B.Tech CSE (batch 2020-24) participated in the drive. Ms. Amrita,

Hr, Mr. Robin, Product Development and Ms. Meera Abraham, Hr conducted the interview process.

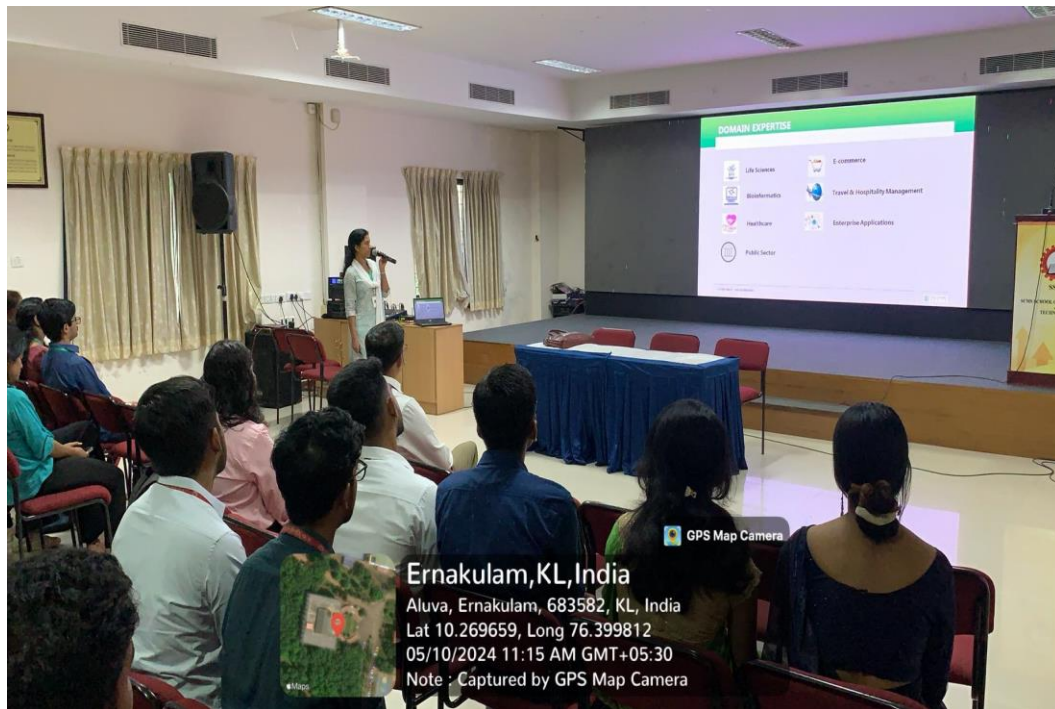


Fig 5: Ms. Meera Abraham, Hr. UVJ Technologies Pvt. Ltd during the preplacement talk.

Varma Homes conducted an on-campus drive for students of Civil Engineering Batch 2020-24 on May 16, 2024. Thirty-two students attended the written test and a face-to-face interview was conducted for the eighteen shortlisted candidates. Mr. Shajan Ramakrishnan, Chief Technical Officer, Ms. Bindu Ninan GM - Projects, and Mr. Vaisakh Varma Operations-Head were the officials that represented Varma Homes.

The companies that approached for Batch 2020-24: - Asianet, Caletal Realty, Gapblue, Chara Motors, Morph Electrical, **Hyr**, 5G/ 6G Project, IIT Hyderabad based, Arab Bank, Feathersoft. The companies that approached for Batch 2021-25: - SOTI

Offers received by two MCA students batch 2022-24 from GEIOM Business Solutions Pvt, Ltd.

Offers received by four B. Tech Civil Engineering students batch 2020-24 from Varma Homes.

