



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

Criteria 6:

Governance, Leadership and Management

6.3.3 Faculty Empowerment Strategies



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Annual reports highlighting the programmes undertaken by the teachers

Report for the period

July 2018 – June 2019

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JULY 2018

Seminars and Workshops

Dr. Sheeja Janardhanan, Professor, Mechanical Engineering dept, participated in the 12th international Conference on Advanced Computational Engineering and Experimenting held during 1st to 5th July 2018 at Amsterdam, The Netherlands, as an invited speaker. The title of her talk was "Hydro Vortex Power Generator-Simulations and Experiments".

Ms. Nimmi K and Ms. Gayathri S. Warriar, Assistant Professors of Dept. of Computer Science and Engineering, attended a six day Short term training program on "Python Programming and Machine Learning Basics" organized by the Department of Computer Science and Engineering during 9th to 14th July 2018 at Sahrdaya College of Engineering and Technology, Kodakara, Thrissur.

Dr. Sheeja Janardhanan, Professor, Mechanical Engineering dept, participated in the NPTEL-SPOC felicitation workshop at IIT Madras on 14th July 2018.

NSS Camps

In spite of finding the possibility for spreading of Dengue fever in the local area of Palissery, NSS volunteers conducted an awareness campaign at 6 and 8 wards of Karukutty Gramapanchayath. Training was given to volunteers by Dr. Saira Sakkaria, Medical officer of Primary Health Centre, Ms. Sheela, Health inspector and Mr. K. P. Aneesh, Panchayath member. The volunteers visited every house in the area prescribed, and demonstrated how to maintain the hygienic

environment and to prevent from EDIS mosquitos. The program was led by Faculty members K. K. Gopalakrishnan and Nimmi K.

Placement News

UST Global selected five more final year B.Tech student for placement from the drive conducted during June 2018. Earlier UST Global had selected two students. Attinad Software selected two, Marriott Hotel selected three and Mytrah Energy selected one of our 2018 final year batch engineering students.

Final results of recruitment drives of 2018 batch students by Wipro, CTS, Sainath Envirotech and Cubes International Developers are awaited.

AUGUST 2018

Academics

College reopened after Onam holidays on 29th August 2018.

Campus Activities

Two day FAB LAB, ROBOTICS & IOT WORKSHOP-2018 for SCMS College of Polytechnics was conducted during 1st and 2nd August 2018. The valedictory function was held on 2nd August 2018. Welcome speech was delivered by Dr. Sunil Jacob, Director, Centre for Robotics, SSET. During his speech he motivated the students and faculty by giving assurance that his team will support them in building a Fab Lab with equipments like 3D printer developed at SSET. Ms. Sreeja Rajesh, Asst Professor, CSE, core member and Program Coordinator of the workshop read the Report of the Centre for Robotics of the academic year 2017-18. Dr.Praveensal C J, Principal, SSET presided the function and stressed

the importance and the opportunities in the field of Robotics. He motivated the students to learn the 3D and 2D design so that they can develop the projects from the scratch without any external support. Prof. BABY P.P, Principal, SCMS College of Polytechnics during the felicitation speech appreciated Dr. Sunil Jacob and entire team of Centre for Robotics. Students were impressed to get an opportunity to attend a workshop in an engineering campus. Dr. Praveensal C J, Principal, SSET handed over the memento designed in the Fab Lab using Laser Cutter to Prof. BABY P.P, Principal, SCMS College of Polytechnics and distributed the certificates and self designed key chains to the participants. Ms. Asha Jacob, Lab Assistant, CSE, core member and Program Coordinator of the workshop delivered the Vote of Thanks.

Prof. S. Gopakumar, Group Director, SCMS Group hoisted the national flag at our campus as part of the Independence Day celebration on 15th August 2018.

NSS Activities

NSS members as well as our staff actively participated in post flood task at Meloor Panchayat for rehabilitation works on 31st August 2018.

Placement News

Two day Bhavishya Induction Program was provided by ICT Academy of Kerala for First semester B.Tech students on 30th and 31st July 2018.

Konfidence conducted the fourth day aptitude training for our 2019 batch final year B.Tech students on 6th August 2018.

Dr. Varun G. Menon and Ms. Sonal Ayyappan, Associate Professors of Dept. of CSE attended the Faculty Enablement Program (FEP) on Foundation Program (FP) 5.0 at St. Joseph Engineering College, Mangalore during 6th to 10th August 2018.

Prof. Gopakumar, Group Director, addressed the placement meeting attended by faculty and student placement coordinators. Prof. R. Sahadevan, Professor

Placement and Mr. Mahendra K.S, Placement Officer, briefed the members about the steps to be taken for the better results in forthcoming campus recruitments.

The recruitment session of 2019 batch Engineering students will commence by the end of September 2018 with Infosys Limited followed by SunTec Business Solutions.

Sainath Envirotech selected four of our 2018 batch M.Tech Environmental Engineering students and Cubes International Developers selected two of our 2018 batch B.Tech Civil Engineering students.

Robert Bosch has selected one of our final year M.Tech VLSI and Embedded Systems student for their internship program which will commence on 5th September 2018.

SEPTEMBER 2018

Academics

First series internal examinations of B.Tech odd semesters-first, third and fifth semesters were conducted during 24th to 26th September and that of seventh semester are scheduled during 3rd to 6th October 2018.

Paper Publication

Ms. Jane Theresa, Assistant Professor-English, published an article titled “In search of a self in the novels The Bluest Eye by Toni Morrison and ‘The God of Small Things’ by Arundhati Roy, in an International Journal in English (ISSN 24543454, Vol 4 Issue 5, UGC Approved Journal No. 48520 English) Journal Impact Factor 3.02 IIJIF on 5th September 2018.

Seminars and Workshops

Dr. Vinod P, Professor & HOD, Department of Computer Science & Engineering, participated in the 7th International Conference on Advances in Computing, Communications and Informatics (ICACCI), held at PES Institute of Technology, South Campus, Bangalore, Karnataka during 19th to 22nd September 2018.

Campus Activities

A group of Automobile Engineering students worked on damaged motorbikes, as part of their service to society in reviving the damaged vehicles during Kerala floods.

One day Awareness Camp to help vehicles survive the floods was organized by Department of Automobile Engineering in association with Lulu Mall, Kochi on 8th September 2018. Dr. Manoj Kumar B, Mr. Vipinraj P.G, Mr. Aravind P.V, Mr. Koshy P. Joseph and Mr. Sujay K, faculty members of Automobile Engineering conducted the awareness camp.

Industry- Institute-Interaction

Two hour technical talk on “Cement-Emerging Trends and Innovations” as part of III was conducted for B.Tech Fifth semester Civil Engineering students on 14th September 2018. Mr. Sebin Jose, Assistant General Manager, Zuari Cement Limited was the resource person for the talk.

Sports Achievements

SSET men's Badminton team became Champions in KTU D Zone Badminton tournament held at MA College, Kothamangalam on 26th September 2018.

Prof. M. Madhavan and Professors Emeritus relinquished charge

Prof. M. Madhavan has relinquished his post as Director, SSET after fifteen years of meritorious service to the group. His constant guidance, support and dedication throughout the tenure as principal and director at SSET were exceptional. In the farewell function on July 26, Dr. Radha P. Thevannoor, Group Director and Registrar, SCMS Group handed over a memento as a token of appreciation and love to Prof. Madhavan in the presence of senior faculty members of SSET.

Prof. R. Sahadevan, Prof. M.L. Paul, Prof. Mukundan E.D and Dr. J. K. John have relinquished their post as Professor Emeritus of, Placement & Electronics and Communication Engineering, Electrical and Electronics Engineering, Automobile Engineering and Basic Science and Humanities Department respectively after their meritorious service to the group on September 19. Their constant guidance, support and dedication throughout the tenure were exceptional. We wish them a very long, active and prosperous life.

NSS Activities

Mr. Rakesh A, NSS Program Officer, is elected as NSS District Co-ordinator.

Our students rectified the flood affected Lift irrigation project at Melur.

Engineers Day was observed by participating in Rebuild Kerala activities at three panchayats- Chengamanadu, Parakadavu and Karukutty on 15th September 2018.

Staff Achievements

Dr. Vinod P, Professor & HOD, Department of Computer Science & Engineering completed his Post Doctoral research programme from Security & Privacy Research Group (Spritz Research Group), headed by Dr. Mauro Conti, University of Padua, Italy. He was working in the ongoing European Union (EU) H2020

project TagItSmart-Smart Tag Driven Service platform for enabling ecosystems for connected objects.

Mr. Anoop M.S., Library Assistant, Dr. Pradeep P. Thevannoor Learning Resource Centre (PPTLRC), SSET, has been qualified the UGC- NET in Library and Information Science during July 2018.

Placement News

Konfidence conducted the fifth to eighth day aptitude training for our 2019 batch final year students during 12th, 13th, 24th and 25th September 2018.

Technical talk on “Industry Expectation from a Professional” as part of III was conducted for B.Tech Seventh semester Computer Science and Engineering students on 14th September 2018. Mr. Aravind Warriar, Senior Manager, Rapidvalue Technologies was the resource person for the talk.

IBS Software Services conducted their online test on 18th September 2018 and 69 students have been shortlisted for further rounds.

Indian Navy will conduct their SSB selection and Inszoom will conduct their online test for 2019 batch B.Tech students on 5th October 2018.

Infosys Limited will conduct their on campus recruitment drive exclusively for our final year B.Tech, M.Tech and MCA students during October 10 and 11, followed by SunTec Business Solutions.

Cubes International Developers selected three of our 2018 batch B.Tech Civil Engineering students.

Cognizant Technology Solutions selected two each of our 2018 batch B.Tech CS and ECE students.

Verdant Telemetry and Antenna Systems Private Limited selected three of our 2018 batch B.Tech Electronics and Communication Engineering students.

OCTOBER 2018

Paper Publication

Two papers were published in BCPT Journal, Wiley Blackwell publisher with SCI and SCIE indexing and impact factor 2.65. Paper ID#: E222, 'Secure Thought transfer and Processing using Novel-T Algorithm' by Ms. Sreeja Rajesh, Assistant Professor-Computer Science and Engineering, Dr. Sunil Jacob, Director-Centre for Robotics and Dr. Varghese Paul and Paper ID#: E314 'Hybrid Brain Muscle Integration for the Physically Disabled' by Mr. Vinoj P.G, Assistant Professor-Electronics Engineering dept, Dr. Sunil Jacob, Director-Centre for Robotics and Dr. Varun G Menon, Associate Professor, Computer Science and Engineering dept.

Seminars and Workshops

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering dept. participated in the 12th international Conference on Advanced Computational Engineering and Experimenting held during 1st to 5th July 2018 at Amsterdam, The Netherlands, as an invited speaker. The title of her talk was "Hydro Vortex Power Generator-Simulations and Experiments"

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering dept. participated in the NPTEL-SPOC felicitation workshop at IIT Madras on 4th July 2018.

Ms. Deepa K, Assistant Professor-M.C.A dept. was the resource person one day talk on programming paradigms at Cochin University of Science and Technology on 13th October 2018.

As per the invitation of Sree Sankara University, Kalady, SCMS Water Institute (SWI) gave a presentation of Flood Disaster Preparedness and Response Plan for Meloor Panchayat at the Kerala Sahithya Academy, Thrissur on 13th September

2018. The audience comprised of reputed historians and environmental scientists from all over Kerala. They all appreciated the work of SCMS very much and opined that, these kind of initiatives at local self-government level is exactly what is needed and that alone will be practically viable and effective for the future. In a highly participatory manner, SWI could explicitly collect the flood level data both in terms of space and time and re-create the actual flood happened in this local body into the GIS platform. This could be used as a decision support system which was verified and approved by the local body. This will serve as a model for other flood affected local self-governments of the State.

Campus Activities

To promote collaborative as well as interdisciplinary research, The Research Cell, SSET organized a Knowledge Sharing Program on 27th September 2018. The talk was given by Dr. Sunny George, Director, SWI, SSET on ‘Cochin Forest Tramway- A Forgotten Engineering Heritage of Kerala’.

ISO 9001:2015 Surveillance audit was conducted on 1st October 2018. Mr. Vijay Mathew, Auditor from RINA conducted the audit.

SSET IEEE Student’s Branch celebrated the IEEE week from 4th to 12th October 2018. This included an IEEE PES Quiz competition for the First year students on October 8. Two toppers of the event were sent to Bishop Jerome Engineering College, Kollam on 13th October 2018 for the state level quiz competition. Mr. Balu R Nair, Alumni - Batch13, EC Dept, SSET gave an overview of embedded system in industry for the second year Electronics and Communication Engineering Students on 9th October 2018. 3D Game Designing with Virtual and Augmented Reality Workshop was conducted for the students of SSET on 11th and 12th October 2018. A total of 47 students from various branches and batches took part in the workshop.

The techno-cultural association of ECE department ‘EXPLORA: 2018-19’ was officially inaugurated on 5th October 2018. The dais was honoured by the

presence of Mr. Subyraj P.S, Sr. Project Engineer and Mr. Deepak. P, Sr. Systems Engineer from Aerospace Department, Honeywell. Followed by the inaugural ceremony, a talk on “Soft Skill Development” was conducted by Mr. Subyraj P.S for Seventh semester students. The interactive session on leadership skills, goal setting, critical thinking etc., ended with group discussions in which all the students participated enthusiastically.

The Department of Mechanical Engineering celebrated the second anniversary of the American Society of Mechanical Engineers (ASME) SSET Chapter on 11th October 2018 with a talk by Ms. Erin Dolan, Program Manager - Technical Units, ASME.

The Electronics and Communication Engineering Department of SSET organized a five-day workshop from 29th September to 3rd October 2018 for Fifth semester B.Tech students on Python and Raspberry Pi by Quest Innovative Solutions. The workshop started with an introduction to Embedded Systems, followed by Python programming, Raspberry Pi and IoT. Students were given hands-on training on the programming language and Raspberry Pi kit to help them in their Design Project.

Industry- Institute-Interaction

The Department of Mechanical Engineering organized a talk on the Theme: "How To Be Industry Ready?" by Mr. Muralidharan Gopi Ramesh Program Manager, C&D Segment SUV & EV Business Leader, Nissan Motors India Pvt Ltd on 12th October 2018.

Student Projects

Three projects guided by Dr Sunil Jacob, Director SCMS Centre for Robotics and Jibin Lukose, Research Intern at SCMS Centre for Robotics have been shortlisted in the following competitions:

IEEE National Sanitation Design Challenge: The project ‘Smart Switching Toilet with urine diversion system for Flood Region’ by students Mehaja P Ibrahim, Mariya Treesa Vincent, Shwetha Mary Sam, Sruthy Somarajan and Nivedita B of Seventh semester ECE.

AICTE Chathra Vishvakarma Award 2018: The project ‘Medicos-A virtual hospital for villages’ by the students Jyothika S Philip, Darsana K C, Elsa Antony K, Manju Davis. Haritha T.P, Krishnapriya T P, Hridhya Jolly K and Krishna R Kumar of S7 ECE.

Manorama Yuva Mastermind 2018: The project ‘Smart Mop for reptile detection in flood regions’ by the students, Mariya Treesa Vincent, Mohitha Thampy, Rahima Rafi, Raniya Saeed and Sonu Jacob of Seventh semester ECE.

Two projects guided by Mr. Sanju A C, Assistant Professor, AU Dept., have been shortlisted in the following competitions:

AICTE-ECI-ISTE Chathra Vishvakarma Award 2018: The project ‘Solar powered Ante Natal Check up machine’ by the students Ganesh M Nair, Krishna Sudheer C, Anakha Babu and Gokul P of Seventh semester ECE.

Manorama Yuva Mastermind 2018: The project ‘Strawble Machine’ by the students Arjun G Nair, Alwin Joseph, Appu K Shaji, Anurudhan Pillai and Anand K N of Fifth semester ME.

Sports Achievements

SSET men's Chess team became Second Runners up in KTU D Zone Chess Championship held at SNGIST, North Paravur.

SSET men's Volleyball team became Runners up in KTU D Zone Volleyball tournament held at SNGIST, North Paravur during 5th and 6th October 2018.

SSET Women's Badminton team became Semifinalist in KTU Badminton tournament 2018-19 held at MA College, Kothamangalam.

SSET Women's Basketball team became Semifinalist in KTU D Zone Basketball tournament held at Model Engineering College, Thrikkakara.

SSET Women's Volleyball team became Semifinalist in KTU D Zone Volleyball tournament held at SNGIST, North Paravur during 5th and 6th October 2018.

NSS Activities

A Legal Awareness class of Kerala State Legal Service Authority was conducted by Advocate Jino Jose on 16th October 2018. The topics discussed included anti-ragging awareness, prevention of damage to public property and special marriage act.

Staff Achievements

Dr. Varun G. Menon, Associate Professor, Computer Science and Engineering dept. is selected as Association for Computing Machinery (ACM) Distinguished Speaker. ACM is the world's largest scientific and educational computing society with headquarters at New York. ACM Distinguished Speaker program appoints highly skilled researchers to deliver talks and sessions on latest research topics at International Conferences and venues worldwide. The entire program is managed and funded by ACM. The selection is based on his contributions as a speaker for International audience in past three years.

Dr. Varun G Menon, Associate Professor, Department of Computer Science and Engineering, SCMS School of Engineering and Technology received the Publons Top Reviewer Award 2018. The award is based on his contributions as a Reviewer for Scopus and SCIE indexed journals in the year 2017-18.

Placement News

131 students were placed in the first slot by Infosys Limited campus recruitment drive exclusively for 2019 batch B.Tech, M.Tech and MCA students at our campus during 11th and 12th October 2018.

VVDN Technologies conducted their drive for 2019 batch on 11th October 2018 and final results are awaited.

Gadgeon Smart Systems conducted their drive for 2019 batch on 15th October 2018 and one student is shortlisted for their second round of Interview.

Suntec Business Solutions conducted their drive for 2019 batch on 16th October 2018 and the final result is awaited of one shortlisted student.

Speridian Technologies and Poornam Infovision conducted their drive for 2019 batch on 24th October 2018. One ECE student is selected by Speridian Technologies.

Gboxz conducted their online test as part of recruitment drive for 2019 batch on 25th October 2018 and shortlist is awaited.

Saif Salim Essa Al Harasi & Co LLC, Oman conducted their recruitment drive for 2018 batch Civil Engineers on 29th October 2018. Final results are awaited.

Indian Navy conducted their SSB selection and Inszoom conducted their drive on 5th October 2018. Two shortlisted students by Inszoom had attended their second round of Skype Interview.

Reference Globe online mock test were attended by our 2019 batch B.Tech, M.Tech and MCA students as part of preparation for the forthcoming recruitment drives on 9th October 2018.

Konfidence conducted the ninth day aptitude training for our 2019 batch final year students during 8th October 2018.

The South Indian Bank, SAP, Wipro, Experion Technologies, Hexaware and Mitsogo Technologies have lined up for the recruitment drives during November 2018.

NOVEMBER 2018

Dr. Pradeep P Thevannoor Innovation Awards 2018

The 4th edition of Dr. Pradeep P Thevannoor Innovation Awards, PPTIA 2018 was conducted during 16th and 17th November 2018. Mr. S D Shibulal, Chairman of ICT Academy, Kerala and Former CEO & Managing Director of Infosys was the Chief Guest for the Inauguration ceremony conducted on 16th November 2018. Dr. Praveensal C J, Principal, SSET welcomed the gathering, Dr. Saira Joseph briefed the audience on PPTIA 2018, Dr. Radha P Thevannoor delivered the presidential address and Dr. Venu P, Dean Student Affairs proposed the vote of thanks. A total of 30 teams from school and college categories of external institutions presented their ideas and innovations at the exhibition in the Auditorium of SCMS School of Engineering and Technology, Karukutty. A group of 3 judges evaluated each category to shortlist 5 teams for the final judging on 17th November 2018. As part of the in-house competition 'Creativo', 8 teams from SSET, presented their ideas as well. In the evening, a cultural program 'Kala Vrindh' was conducted as part of PPTIA, 2018.

On 17th November 2018, popular RJ with Radio Mirchi, Mr. Joseph Annamkuttu Jose, visited the campus to give a talk on his life experiences. This was followed by the Award ceremony with Dr. K S Radhakrishnan, Former Chairman of Kerala Public Service Commission & Vice Chancellor of Sree Sankaracharya University of Sanskrit, Kalady as the Chief Guest and Mr. Prasad D Madiraju, Head of Vodafone Idea Ltd., Kerala as the Keynote speaker. Dr. Praveensal C J, Principal, SSET welcomed the gathering, Prof. S Gopakumar delivered the presidential address and Dr. T Asokan, Professor and Head of Design Engineering, IIT Madras described the evaluation process, detailing how teams were evaluated based on Innovate idea, Creativity, Visual display, Social relevance and Presentation. Results were announced by Dr. Anitha G Pillai, Dean Academics and awards were given away by Dr. K S Radhakrishnan. In the college category, 1st prize worth Rs. 1,00,000/- was bagged by Kongu Engineering College for their innovation 'Construction blocks from C and D Debris using the Innovative CO₂ Sequestration Technique'. Winning a cash prize of Rs. 50,000, the 2nd place was

awarded to Velammal College of Engineering for their innovation 'Beet Harvester'. In the school category, the 1st place was won by Bhavan's Varuna Vidyalaya for their project 'Bio Purifica --- Bio-Nanomaterial Water Purifier' and 2nd place was awarded to National Public School, Kormangala for their project 'Bio Enzymes - The Chemical Antidote' with cash prizes worth Rs. 50,000/- and Rs. 25,000/- respectively. The Woman Innovator award was won by Ms. Rakhi Elizabeth of St. Joseph's Engineering College, Palai for her work on 'Hypar Shell Foundation For Low Rise Buildings Rest' with a cash prize of Rs. 20,000/- and the In-house competition winners for a cash prize of Rs. 10,000/- were Mr. K S Adityan, Mr. K V Sreehari, Mr. Lijomon George and Mr. Nandhu P S of Seventh semester Mechanical Engineering Department for their project 'Automated System For Fertigation Using SSET Canteen Waste'. The program concluded with a vote of thanks by Dr. Saira Joseph, Convenor of PPTIA 2018.

Paper Publication

"A Machine Learning Based Approach to Detect Malicious Android Application Using Discriminant System Calls" by Dr. Vinod P, Head of Department, Dept. of Computer Science Engineering, got accepted in Elsevier Journal Future Generation Computer Systems with an impact factor of 4.639 (Tier 1) in collaboration with Prof. Mauro Conti (University of Padua, Italy) and Prof. Akka Zemhari (University of Bordeaux, France).

Seminars and Workshops

Ms. Dhanya K.A, Ms. Nimmi K and Ms. Deepasree Varma, Assistant Professors, Dept. of Computer Science and Engineering, attended KDISC's Block Chain Program TTT at ICT Academy of Kerala, Infopark, Koratty from 7th to 9th November 2018.

Campus Activities

A debate competition was held on 31st October 2018 at our campus. The program was done as part of the AICTE initiative to celebrate Rashtriya Ekta Diwas (National Unity Day) to commemorate the birthday of the Iron Man of India Sardar Vallabhbhai Patel, one of the founding leaders of Republic of India. The topic was “Kerala’s flood disaster, we have ourselves to blame.” The participants included two students of Semester 7 from all the six branches.

There were three rounds. In the first round - Constructive speech of 3mts the participants presented their points of view on the topic. The second round was Rebuttal speech where the participants defended their stand points in spite of the arguments presented by the opposing team in about 2mts. The third round was Q & A (1/2 – 1 1/2mts) where each participant was given opportunity to ask a question addressed to any member of the opposing team. Mr. Sujay K (Dept. of AU) was the moderator for the day. During the whole process of preparing, implementing and evaluating the debate the organizers as well as the participants gained a lot of experience. A lot of insight in to the recent flood that struck the state had been shed through the programme and the participants as well as the audience were greatly benefited by the event. Mr. Ashik K A of Dept. Of Civil Engineering came out as the best debater with 225 points while Mr. Sreekanth K S of the same department bagged the second place with 224 points. The winners were given a cash prize of Rs,1000/- by Dr. Praveensal C. J., Principal-SSET.

On 31st October 2018, to commemorate the death anniversary of Smt. Indira Gandhi, the late Prime Minister of India an Oath taking ceremony was conducted by the Faculty of SSET.

Industry Institute Interaction

Technical talk on "Journey through Concrete" as part of III was conducted by Department of Civil Engineering on 24th November 2018. Er. Shiju Nair. Senior

Manager, Zonal Head-Technical Services, Ambuja Cements Limited was the resource person for the interaction.

Technical Talk on 'SMART GRID' was organized by Electrical Engineering Department on 23rd November 2018. The Speaker was Mr. Vigin N. C. from KalkiTech, a smart grid solutions provider that helps energy utilities across the globe to improve efficiency

Department of Automobile Engineering; SAEIndia Collegiate club of SCMS hosted Mr Kasiraja Thangapandian, Software Project Manager, Visteon Technical and Services Centre Pvt Ltd, Chennai and Joint Secretary SAEINDIA Southern Section for a "EXPERT TALK" on Automotive Electronics for Engineering students on 22nd November 2018.

AARAVAM 2018

AARAVAM 2018, College Arts day was celebrated on 24th November 2018.

NSS Activities

Blood donation camp was held in SCMS School of Engineering and Technology on 23rd October 2018. It was organised by IMA in association with HDFC Bank. Seventh semester students and faculty members together participated by donating their blood. The donors were given refreshments and were happy. Camp was successfully completed by collecting nearly 50 units of blood.

NSS unit of SCMS School of Engineering and Technology conducted Chekutty making workshop as a part of Rebuild Kerala during October 2018. It is a tiny handmade doll made out of soiled and damaged fabric has become a symbol of survival and hope for a group of weavers in Chendamangalam which is a traditional handloom village in Kerala. Chekutty stands as a symbol of hope for the weavers in Chendamanglam. After the deluge has ravaged Chendamangalam, the weavers are pinning hope on 'Chekutty dolls' which is named from 'Cheru' and 'kutty' which means mud and child. 'Chekutty' is therefore the 'child who

overcame the dirt'. The doll is completely made from ravaged looms and bundles of destroyed fabric, which were all ready for Onam sales. About 1000 dolls are made by the NSS Volunteers and will be handover to the Chekuttykootam.

H₂O Activities

On 14th November 2018, Team H₂O was at Buds Special School, Karukutty to spend time with some very special children. The school caters to 15 special needs students in the age group of 18-40. The students entertained their guests with some extra ordinary songs, unexpected dance moves and mesmerizing mono acts. In turn, team H₂O also entertained the students with songs and dances, cut a black forest cake with them and engaged in fun filled sessions of passing the ball, musical chair and Anthakshari. The activities ended with a lunch shared by all.

Students Achievements

Mr. Jebbin Joseph and Mr. George M Thottan, Seventh semester Computer Science Engineering students, were invited to join the TCS Blockchain Team as an outcome of the idea they presented and a simulation they demonstrated in the Blockathon Competition at TCS, Infopark, Kakkanad, which was held on 5th October 2018.

Mr. Arun Sen N, Mr. Akshay P.S and Mr. Akash Joseph Antony, 2018 passed out batch Computer Science Engineering students completed their Internships at Shimane University, Japan.

Mr. Abhiram T, Fifth semester Computer Science Engineering student, won a prize in a quiz competition conducted as a part of an exhibition "Touching Everyone's Life", on 13th November 2018 at Renai Cochin.

Placement News

The following offers were made by various companies to our 2019 batch students during Oct/Nov 2018:

1. SAP Labs – 2 offers
2. Speridian Technologies – 2 offers
3. Hexaware Technologies – 2 offers
4. IBS Software Services – 12 offers
5. Mitsogo Technologies – 1 offer
6. Experion Technologies – 2 offers
7. Saif Salim Essa Al Harasi & Co LLC, Oman (for 2018 batch) – 2 offers

The final results of The South Indian Bank, Gboxz, Nineleaps Technology Solutions, VVDN Technologies, Suntec Business Solutions, Robosoft Technologies, SMEC Labs and Wipro are awaited.

Wipro selected SSET as one of their nodal centers for conducting their Elite National Level Hunt Test for 2019 batch Engineering graduates during 16th to 18th November 2018. 961 students from various engineering colleges of Kerala attended the test during these days.

DECEMBER 2018

Session on Innovation and Faculty Training Program

Prof. K. Krishnakumar, Retd. Professor, GEC Thrissur interacted with Dr. Sunil Jacob, Director, Centre for Robotics, HoDs, Faculty members who are involved in various innovation projects and all Research Scholars on 10th December 2018. A faculty training program by Dr. K P Ouseph IFS was conducted for our faculty members during 10th and 11th December 2018.

Seminars and Workshops

Ms. Sanju Anna Peter, Assistant Professor-English, Dept. of Basic Science and Humanities successfully completed the TKT Module- three courses and a certification program conducted by Cambridge University on 23rd October 2018. It was initiated by AICTE as a pilot project in association with Cambridge University. Ms. Sanju was one among only thirty faculties who qualified from AICTE recognized Engineering colleges all over India and the only representative from Kerala.

Faculty Development Programme ‘Scala: Programmimg Bliss’ was conducted for faculty members during December 18 and 19 by Mr. Vijay Krisha Menon, Centre for Excellence in Computational Engineering and Networking, Amrita Vishwa Vidyapetham University in association with our Department of Computer Science and Engineering.

Session Chair

Dr. Saira Joseph, Associate Professor and HOD of ECE Dept, served as the session chair for a technical session on ‘Microwave filters and Circuits’ at the International Symposium on Antennas and Propagation (APSYM), 2018 held from 3rd to 5th December 2018 at Cochin University of Science and Technology, Kochi.

Industry Institute Interaction

The department of Automobile Engineering – SAEIndia Collegiate Club of SCMS in association with SAEIndia Southern Section hosted Mr. Kasiraja Thangapandian, Software Project Manager, Visteon Technical and Services Centre Pvt Ltd, Chennai, India and Joint Secretary of SAEINDIA Southern Section for a “EXPERT TALK” on Automotive Electronics on 22nd November 2018. Mr Kasiraja began his interaction with the students by giving a brief overview of the different student design competitions being conducted by

SAEIndia and requested them to participate in the recently launched Bicycle Design Competition and the Tractor Design Competition. The talk on Automotive Electronics began with Mr. Kasiraja explaining the importance of Electronics in the Automobile domain and how a multi-disciplinary approach was needed for mechanical based engineers to survive in the upcoming field of mechatronics. He covered the basics of electronic systems before moving into the automobile applications of electronics and the products being developed by his company for various OEM's. He placed emphasis on the point that the students should be open to change and be ready to adapt to the changing automobile scenario. He concluded his talk by asking the students to do more electronics-based projects as the industry was looking for students who can work in a team and had a hands-on approach to solve various problems.

KMRL joins hands with SCMS Water Institute for Rain water harvesting at metro stations and depot.

NSS Activities

Mr. Sujay K, NSS Program Officer participated in the Regional Workshop on Unnat Bharat Abhiyan 2.0 organized by Indian Institute of Technology-Delhi held at Directorate of Extension, Kerala Agricultural University, Thrissur on 11th November 2018.

National service scheme unit attended a National Integration Camp at Belagavi, Karnataka as part of Kerala team during 23rd to 29th November 2018. Kerala contingent was led by Mr. Sujay K, NSS Program Officer, Ms. Roweena James and Mr. Vishnuprasad K, Volunteers from our unit was also the part of Kerala Contingent. Another eight volunteers from various colleges of Kerala were also in Kerala Contingent. Students performed various cultural activities of Kerala in front other state contingent and also present the specialties of Kerala. The national integration camp was held at Vishveshwarya Technological University (VTU), Belagavi.

A program related to antinarcotic campaign was conducted among the student's community jointly by Kerala HEALTH MISSION and KARUKUTTY GRAMA PANCHAYATH in the campus on behalf of National Service Scheme unit. A skit depicting the dangerous and pathetic situation of narcotic consumption was demonstrated by the Star Jesus school students, Karukutty in the open auditorium. The Grama panchayat president Sri. Shaju V Thekekara and staff members of the Health Mission and Karukutty Grama Panchayat were present in the inaugural session. The known educator Mr.Varghese Paul conducted an awareness class for selected students. Former NSS program officer K.K.Gopalakrishnan delivered the welcome speech for the session.

Our NSS Volunteers lead the Haritha Sena at Thiruvairanikulam Temple as part of the temple nada opening festival from 24th December 2018 to 2nd January 2019.

Knowledge Sharing Program

During the second session of KSP organized by the research cell on 14th November 2018. Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., delivered a talk on "Fluids for Life". The focus of her talk was on blood as a major fluid in sustaining healthy life. The impurities in the blood result in plague deposition in the blood vessels which in turn effects the functioning of the heart adversely. It is at this juncture an engineering intervention can help the medical investigations and diagnoses. She introduced the concept of Computational Haemo Dynamics (CHD), a branch of Computational Fluid Dynamics (CFD) for visualizing and analyzing the flow in a region in the left anterior descending (LAD) part of the coronary artery well known as "widow-maker". This region is the most susceptible to plague deposition because of its natural geometry and is also responsible for most of the myocardial infractions. The talk also revolved around the effects of stents on the overall flow dynamics in the human circulatory system.

Staff Achievements

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., is amended as Editor for Springer Journal.

The following three papers above were presented in the International Conference on Computational and Experimental Marine Hydrodynamics, MARHY 2018, jointly organized by the Department of Ocean Engineering, IIT Madras and the Royal Institution of Naval Architects (RINA), London, during 25th to 27th November 2018.

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., Ms. Vidya Chandran and Mr. Noel Joseph Gomez, Assistant Professors- Dept of ME and Ms. Sarga, Third semester M. Tech Civil Engineering student, presented a paper on “Prediction of Interaction between In-Line and Cross-Flow responses of a Cylinder under Vortex Induced Vibrations”.

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., Mr. Nikhil Asok, Assistant Professor- Dept of ME and Mr. Jithu S, Third semester M. Tech Civil Engineering student, presented a paper on “Numerical Study on the effect of Ball Baffles in reducing Sloshing loads in Ship Tanks”.

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., and Ms. Anjaly Jose Third semester M. Tech Civil Engineering student, presented a paper on “Numerical Study on the Wing-in-Deformable-Ground Effects of a Seaplane”

Dr. Sheeja Janardhanan, Professor-Mechanical Engineering Dept., also served as a session chair for Technical Session V during the above conference.

Student Achievements

American Society of Mechanical Engineers (ASME), is a professional body of mechanical engineers, rated as one among the best in the world of its kind. SSET has established its ASME student chapter last year and students have been involved in notable engineering activities appreciated by officials of ASME India. ASME Engineer’s Fest (Efest) is one of the major student events organized by

ASME in four regions of the world and the best performing professional students in various technical events get an opportunity to compete in the main event, International Mechanical Engineering Congress and Exposition, IMECE. A team of 4 students, Anish B Soman, Anoop Anilkmar, Balendu Divakar and Soorya Nath KU from fifth semester Mechanical Engineering Department of SSET competed in ASME E-fest Asia Pacific held at Delhi Technological University in March 2018 and reached the final round to qualify for IMECE 2018.

A project 'MEDICOS- A mini virtual hospital for villages' has been selected to the finals of AICTE Chatra Vishwakarma Awards to be held on January 2019 at AICTE Headquarters, New Delhi. This patent published work is completely designed and fabricated at SSET FABLAB. Project patent is supported by IEDC Cell of SSET and will be implemented by NSS of SSET & Karukutty grama panchayat. The team comprises fourth year ECE students - Darsana KC, Haritha T P, Krishnapriya T P, Elsa Antony K, Manju Davis, Jyothika S Philip.

Students from SCMS School of Engineering and Technology bagged the 3rd position in Orion- KSID Innovation Awards 2018 conducted by Kerala State Institute of Design. Shri. T. P. Ramakrishnan, Hon'ble Minister for Labour & Skills and Excise bestowed the award to the team 'Non-invasive anti-depression EM stimulator'. Smt. J. Mercykutty Amma, Hon'ble Minister for Fisheries, Harbor Engineering and Cashew Industry also presided in the same. The team was led by fourth year ECE students Ajish S, A N George, Ganesh M Nair, Krishna Sudheer and guided by Dr. Sunil Jacob, Director of SCMS Centre for Robotics and Jibin Lukose, Research Intern at SCMS Centre for Robotics, designed and fabricated the device in Fablab, SSET. The event was held at KSID Campus, Kollam on 3rd November 2018.

Students from SCMS School of Engineering and Technology bagged the 4th position in robotics challenge conducted by Robotex International. "Robotex "is the biggest international robotics centered in Estonia. ROBOTEX_INDIA (2018) was the biggest robotics festival in India. The team from SSET was among

the top 6 teams in India and was the only team from south India to qualify to the final round. The team "PENTA" led by Krishna Sudheer, George M Thottan, A N George, Ganesh M Nair, Gokul P, and guided by Dr. Sunil Jacob, Director of SCMS Centre for Robotics and Jibin Lukose, Research Intern at SCMS Centre for Robotics, designed and fabricated their robot in Fablab, SSET. The event was held at Shanti Business school, Ahmedabad on 20th and 21st October 2018.

Project titled 'Variable Intensity Brake Lighting' done by Mr. Adhil Basheer, Fifth semester CS student won the Student Innovator of the Year Award (First Runner Up) at the 5th Indian Automotive Technology and Innovation awards 2018, which was developed at Fablab and Centre for Robotics in association with CS and SAE Automobile Department on 21st December 2018. He also received a gift voucher of EUR 250 as a felicitation towards the same.

Campus Activities

Our faculty and staff members celebrated Christmas on December 21. Christmas Carols, Cultural Programs and Games were conducted for the members.

Placement News

The following numbers of offers were given to our 2018 batch students by various organizations:

1. The South Indian Bank - 3
2. Amazon - 1
3. Henry and Ford Pvt Ltd – 1
4. Wipro – 2

The final results of Gboxz, Suntec Business Solutions, SMEC labs and Wipro of 2019 batch are awaited.

JANUARY 2019

Paper Publications

Dr. Varun G. Menon, Associate Professor, Dept. of Computer Science and Engineering, published an article on "Hijacked Journals" by Publons and Clarivate Analytics. Clarivate Analytics maintains the Web of Science including the SCIE indexed Impact Factor Journals.

A paper titled "Modeling doctoral population growth in premier technology institutions in India" by Dr. Balagopal G. Menon, Associate Professor, Dept. of Automobile Engineering has been accepted and published in Wiley Interscience Journal Systems Research and Behavioral Science which is the official publication of the International Federation for Systems Research and indexed in both SSCI and ABSindex in collaboration with Mr. Supriya Ghatak and Prof. Biswajit Mahanty (IIT Kharagpur) and Prof. Sunil Sahadev (Salford Business School, University of Salford, Manchester, UK).

The paper titled "A long-term growth model with endogenous biophysical and economic states" by Dr. Balagopal G. Menon has been accepted and published in 36th USA EE/IAEE North American Conference on Evolving Energy Realities: Adapting to What's Next organized by United States Association for Energy Economics, Washington DC, USA in collaboration with Prof. Carey W. King (Assistant Director, Energy Institute, The University of Texas at Austin, USA).

Mr. Ajith Kumar R, Assistant Professor, Dept. of Mechanical Engineering published a paper titled "Parametric Study of Heat Transfer and Pressure Drop Characteristics of a Rectangular Offset Strip Fin Compact Heat Exchanger" in the SCOPUS Indexed Journal Chemical Engineering Transactions.

Mr. Sandeep TN, Assistant Professor, Dept. of Civil Engineering has published a paper titled "Experimental study on circular CFST short columns with

intermittently welded stiffeners” in the SCOPUS indexed International Journal: Steel and Composite Structures.

Dr. Sunil Jacob, Professor and Director- Center for Robotics, Mr. Jibin Lukose, Research Assistant, Assistant Professors Mr. Vinoj P G (Dept. of ECE) and Ms. Sreeja Rajesh (Dept. of CSE) and Final years students George A N (Dept. of ECE) and George M Thottan (Dept. of CSE) have jointly published the paper “EXOTON- An Exoskeleton For Paralyzed” in the Proceedings of 8th PIC 2019 (A sister concern activity of 15th ICDCIT) under the stream Project Innovations In Distributed Computing and Internet Technology.

Dr. Sunil Jacob and Mr. Jibin Lukose have published a paper titled “Concentration level monitoring in education and healthcare” in 2018 Americas Conference on Medical Imaging and Clinical Research (AMICR 2018) during 23rd to 25th December 2018, Panama under the stream Basic & Clinical Pharmacology & Toxicology (BPCT) in collaboration with Dr. Abraham Varghese of Higher College of Technology, Sultanate of Oman and Dr. Ali Al Musawi of Sultan Qaboos University, Muscat, Oman.

Paper Presentations

Ms. Blessy Antony, Assistant Professor, Dept. of CSE, presented a paper titled “A Perspective View on Sybil Attack Defense Mechanism in Online Social Networks” in the 2018 International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC), organized by Inventive Research Organization and RVS Technical Campus, Coimbatore, during 29th to 30th November 2018.

Ms. Neenu Sebastian, Assistant Professor, Dept. of CSE, presented a paper titled “A Comparative Study of Performance and Security Issues of Public Key Cryptography and Symmetric Key Cryptography in Reversible Data Hiding” during the 8th World Congress on Information and Communication Technologies (WICT 2018) on 17th December 2018.

Mr. Santhosh G, Associate Professor, Department of Civil Engineering, presented a paper titled 'Variation of Swelling Characteristics of Bentonite Clay mixed with Jarofix and Lime' in Indian Geotechnical Conference IGC-2018 held at Indian Institute of Science, Bengaluru, organized by IGS Bangalore Chapter and Indian Institute of Science, Bangalore during 13th to 15th December 2018.

Ms. Nimmi K, Assistant Professor, Dept. of CSE, presented a paper titled "An Analysis of the Balance between Security and Utility of Mobile Applications" in the IEEE International Conference on Circuits and Systems in Digital Enterprise Technology- 2018 during 21st to 22nd December 2018.

Dr. Vinod P, Professor and HOD, Dept. of CSE, presented a paper titled "Malware Signature Generation Using Locality Sensitive Hashing" in the 2nd ISEA International Conference on Security and Privacy (ISEA-ISAP 2018) organized by the Department of Computer Science and Engineering, Malaviya National Institute of Technology, Jaipur, held during 9th to 11th January 2019.

Seminars and Workshops

Ms. Diana P.G Percy, Assistant Professor, -Dept. of CSE, attended a five- day workshop on "Advances in Machine Learning", organized by the Division of Computer Science and Engineering, SOE, CUSAT under TEQIP Phase- III, during 26th to 30th November 2018.

Ms. Beena Puthillath, Assistant Professor-Dept. of Electrical and Electronics Engineering, participated in the training program on Multivariate Data Analysis held by the Government Engineering College, Thrissur during 17th to 21st December 2018.

Dr. Varun G Menon, Associate Professor and Ms. Deepa K, Ms Viji Gopal, Ms. Remya S, Ms. Blessy Antony, Ms. Binu John, Assistant Professors-Dept. of CSE,

attended a Faculty Development Program on “Applications of Innovative Tools for Creating Breakthrough Innovations/ Entrepreneurship Projects” at SCMS, Muttom, on 29th December 2018.

Mr. Manoj Jose Kalathil, Assistant Professor of Dept. of Mechanical Engineering attended the 4th International conference on reliability, safety and hazard (ICRESH) held from 11th to 13th January 2019 at IIT Madras, Chennai.

Dr. Sunil Jacob, Professor and Director-Center for Robotics and Dr. Saira Joseph, Assoc. Professor and HoD, Dept. of ECE attended a one-day program on Smart India Hackathon, 2019 at MGM College of Engineering and Technology, Muvattupuzha on 15th January 2019.

Campus activities

The Dept. of Computer Science and Engineering organized a two-day workshop on “Machine Learning and New Generation Data Analytics” during 18th to 19th December 2018. Dr. Vijay Krishna Menon, Center for Excellence in Computational Engineering and Networking, Amrita School of Engineering, was the resource person for the workshop. There were 35 participants for the workshop from the Dept. of CSE and Dept. of ECE.

Report handing over ceremony at Guruvayur Municipality

Report handing over ceremony of the City Water Audit Project implemented by SCMS Water Institute for Guruvayur Municipality was held on 7th January 2019. Sri K V Abdul Khadeer, MLA of Guruvayur inaugurated the meeting and Sri K P Vinod, Acting- Chairman of Municipality Presided over. Prof Pramod P Thevanoor, Vice Cahirman, SCMS Group, was the Chief Guest of the function and officially handed over the Guruvayur City Water Audit Report to the Municipal Council. Elected members of Council, Government officials from different departments, agencies including Guruvayur Devaswom, hotel & lodge

owner's association, Kudumbasree, various educational institutions in Guruvayur etc., which assisted SWI in this project were the audience.

College Achievements

SWAYAM-NPTEL recognizes SCMS School of Engineering and Technology as a valuable local chapter with a rating of A based on the performance in NPTEL Online Certification courses July-October 2018.

Staff Achievements

Dr. Sheeja Janardhanan, Professor, Department of Mechanical Engineering is awarded with Certificate of Appreciation for her instrumental role as SPOC for the SWAYAM-NPTEL Local Chapter SCMS School of Engineering and Technology rated A based on the performance in NPTEL Online Certification courses July-October 2018.

Dr. Balagopal G. Menon, Associate Professor, Dept. of Automobile Engineering has received a membership in the International Association for Energy Economics (IAEE), USA from January 2019 for a period of one year.

Mr. Jith J, Assistant Director-Physical Education, is appointed as Chief Coach of Dr. A.P.J Abdul Kalam Technological University Cricket team in All India Inter University Competition held at Shimoga, Karnataka from 14th to 24th January 2019.

Student Achievements

Auto Tech Review organised the 5th edition of the Indian Automotive Technology and Innovation Awards (IATIA) on 21st December 2018 at The Leela Ambience Delhi. The IATIA recognises local engineering and technology development, major improvements in engineering processes, as well as significant technical upgrades.

Abdul Adil Basheer of Computer Science Dept. at SCMS School of Engineering and Technology received the 1st Runner Up for the Student Innovator of the Year Award and a cash prize from Springer Nature for ‘Dynamic brake lighting and Collision avoidance system’. The project was developed at SCMS Centre for Robotics under the supervision of Dr. Sunil Jacob. The project focuses on providing better driver-to-driver communication through the implementation of variable intensity tail lamps which would provide information respective to the rate of braking. Which also works in coordination with a collision avoidance system that would detect the obstacle in front of the vehicle and brakes according to the relative velocity. The award was handed over by Pratap Bose (Head of Design TATA Motors) and I.V Rao (Executive Advisor - Maruti Suzuki India Ltd.).

Placement News

The following numbers of offers were given to our students by various companies:

1. Wipro Limited (2019 batch) – 15
2. IBM (2019 batch) – 2
3. Mphasis Limited (2019 batch) – 1
4. The South Indian Bank (2018 batch) - 3
5. Verdant Telemetry (2018 batch) – 1
6. Henry and Ford Private Limited (2018 batch) – 1

The final results of Popular Group, Tessolve semiconductors, Support Sages and ASC-Bahrain are awaited.

FEBRUARY 2019

Seminars and Workshops

Dr. Varun G Menon, Ms. Deepa K, Ms Viji Gopal, Ms. Remya S, Ms. Blessy Antony and Ms. Binu John attended a Faculty Development Program on “Applications of Innovative Tools for Creating Breakthrough Innovations/ Intrapreneurship Projects” at SCMS, Muttom, on 29th December 2018.

Ascendio 4.0 was hosted from 1st to 3rd February, 2019. There were various programmes such as workshops, fun sessions, talks by eminent personalities, treasure hunt and more. There were almost 90 delegates from various Engineering Colleges to attend the same. Workshops conducted were Crafts Workshop by Sana Khader, Drone workshop by Team DRK and Illustrator Workshop by Aiswarya Baiju and Nandhu PS. The speakers included Mr. Renjit Ravi Keshav (MD, Insight JobGuru, Life skills trainer, Motivation speaker, Traveller), Mr. Jyothis Mohan IRS (Deputy Commissioner of Income Tax, Mumbai), Vinay Menon (Software Engineer- turned Stand-up Comedian, Professor), Prof. B Unnikrishnan (Professor Emeritus, SCMS School of Business, Cochin), Dr. Varun G Menon (Associate Professor and Head of International Relations, SSET) and Dr. Sheeja Janardhanan (Professor, Mechanical Engineering, SSET). Apart from workshops and talks, there were also cultural night by the volunteers as well as the participants, treasure hunt, group activities, team building tasks etc.

Ms. Diana P.G Percy, Assistant Professor and Ms. Deepasree Varma, Assistant Professor, Dept. of CSE, attended a five- day Faculty Enablement Program on ‘LEX based foundation program’ conducted by Infosys at SCMS School of Engineering and Technology, during 4th to 8th February 2019.

As per the invitation from Indian Society of Landscape Architects (ISOLA), New Delhi, SCMS Water Institute led a 3 session workshop titled “Flow of Nature” at

the International Conference of Landscape Architects held at Lulu Grand Hyatt Kochi Bolghatty on 15th and 16th February 2019. On 15th February 2019, Dr. Sunny George followed by Dr. Ratish Menon introduced the Urban Natural Canal Live Project outlining the existing scenario along the Thevara Perandoor canal primarily on the stretch along Panampilly Nagar as a case study of Urban Hydrology. It was concluded with the design priorities that must be taken into consideration for the upcoming group discussion exercises. On 16th February 2019, the participants were grouped into 3 for landscape design group work. First group worked on the improvement of the relationship of people with water by providing a front door accessible waterfront. The second group focused on the restoration of biodiversity along the waste watershed of the canal. And the topic of discussion for third group was the effects that a “do nothing” scenario could bring about in the canal. There were also discussions on improvement of collection and cleaning of the stormwater and wastewater in the watershed as well as introduction of an active water way through the canal. The group discussions were carried out under the guidance of SWI along with Ar Jelly Therry (UK) and Prof. Ramachandra (IISc, Bangalore). The recommendations of the workshop will be submitted by ISOLA, New Delhi to Kerala State Government.

Ms. Sonal Ayyappan, Associate Professor and Dr. Varun G Menon, Associate Professor, Dept. of CSE, attended the Infosys Summit at Infosys Mysore DC on 16th February 2019 for the launch of infyTQ, a new training program initiated by Infosys.

College Achievements

The project titled "SMART MIRROR" guided by Asha S, Assistant Professor, Dept. of CSE, has received KSCSTE funding. The team members include Pranav Prakash, Sidharth K, Raja Thomas and Mohammed Falah Yusuf (Students of S6 CSE).

Team MEDICOS (Students of S8 ECE), reached the national finals of AICTE Chhatra Vishwakarma Awards held at AICTE Head Quarters New Delhi on 20th and 21st January, 2019. Dr.Sunil Jacob, Director, SCMS Centre for Robotics was also invited to give a presentation on last year's winning project before the esteemed guests and audience.

Staff Achievements

Dr. Balagopal G. Menon, Associate Professor, Dept. of Automobile Engineering was an invited resource person for a session on Continuous Simulation in Simulation Workshop for faculty, researchers and master's students conducted by Department of Statistics, Cochin University of Science and Technology, Cochin on 30th January 2019.

Student Achievements

Aaron Joseph, Anson Pinhero, Ajay K.S, Adarsh Viswanath and Abdul Adil, Students from S6 CSE, secured third prize amongst 24 teams, in a Hackathon conducted by Vidya Academy of Science and Technology on 9th February 2019. Amal T of S4 ECE and Rizwana F of S4 CE secured 1st and 2nd prizes respectively in Voice of Advay- '19 held at ToCH Institute of Science and Technology as part of ADVAY '19 on 15th February, 2019.

Anjali K and Aswathy Gopalakrishnan of S4 ECE won 2nd prize in the Design Review competition conducted as part of KTU TechFest 2019 held at Govt. Engg. College, Thrissur on 16th February, 2019.

As part of the Phase 2 events of SAE India conducted at RIT, Pampady on 16th February 2019 SSET teams won two prizes: For Benchmarking- Arjun V Pillai, Basil John and Joemon C of S4 AU and for OBD Diagnostics- Mohammed Shahinsha and Stevin Shaji of S8 AU.

Placement News

The following numbers of offers were given to our 2019 batch students by various companies:

1. Amazon – 2
2. Travancore Analytics – 1
3. Qburst – 1
4. Factweavers Technologies - 3
5. Coral Business Solutions – 2
6. Sutherland Global Services (Voice process) – 9

The final results of Popular Group, Support Sages, Zerone Consulting, Shriram Transport, The South Indian Bank and Federal Bank are awaited.

Obituary

We the management, faculty, staff and students of SCMS Group deeply mourn the sad demise of Doyal Sabu, S8 CSE student on 11th February 2019. The entire SCMS family joins the bereaved family of the deceased in their hour of grief. May his departed soul rest in peace.

MARCH 2019

Seminars and Workshops

The IEDC Kerala Startup Mission team organized an IEDC Zonal meet up on 25th February 2019. Various IEDC class representatives of SSET, students interested in innovation, solving real world problems and carrying out creative and innovative projects attended the event. The IEDC Kerala Startup Mission team led by Mr.Jadhav, Fellow - Kerala Startup Mission and Mr. J S Sonu, Founder – Starting Trouble – Startup announced the launch of INSPIRE 2019 and Idea Fest 2019 during the zonal meet up. Dr. Manoj Kumar B, Nodal officer,

SSET- IEDC and HoD of Department of Automobile Engineering addressed the students during the launch of INSPIRE 2019 and Idea Fest 2019.

Ms. Beena Puthillath, Assistant Professor, Dept. of Electrical and Electronics Engineering, participated in the seven day International Workshop on Advanced Data Analysis organised by DDU Kushal Kendra, CUSAT during 21st to 27th January 2019.

Ms.Beena Puthillath, Assistant Professor, Dept. of Electrical and Electronics Engineering, participated in the one day FDP on ‘Train the Trainer’ in Energy Conservation and Energy Auditing organized by Dept. of Electrical and Electronics Engineering, Rajagiri School of Engineering and Technology, Kochi in association with RSET SEEM chapter and IEEE PES at RSET on 5th February 2019.

The Department of Mechanical Engineering, under the leadership of Dr.Venu, Head of the Department, organized a three-day training program on “Numerical Methods and Computational Techniques for Modern Engineering” during 6th to 8th February 2019. The program had the objective of emphasizing on the ubiquitous element of today’s engineering-computing. It was also organized with an intention to introduce the basic numerical methods involved in engineering computations to the amateurs in the field.

A talk on ‘Career Opportunities after engineering’ was delivered by Dr.Vamsi Krishna, faculty at several Vani institutes pan India on 6th February 2019 for pre final year students. The talk gave students a clear view about different courses to opt for after engineering and also about the various competitive exams viz. GATE, ESE, GRE, GENCO, CAT, MAT, and AMCAT etc. to be taken for the same. The class proved to be really useful for the students. Students were able to clear all their doubts regarding the opportunities to explore after engineering. A one hour aptitude scholarship test also was conducted on the same day.

Department of Civil Engineering organised a software training programme by Bentley Institute on 19th February 2019. It was a virtual session on Open Roads

Designer Software, road way 3D modelling and design software in which a total of 64 civil engineering students from 2016-2020 batch attended.

The Department of Civil Engineering conducted a one day workshop on SUSTAINABILITY ENERGY CHAMPIONSHIP 2019 on 26th February 2019, organized by SSET SEEM Students Chapter and IEEE Students Chapter in association with SEEM Kerala Chapter and IEEE Kerala Chapter. The resource Person was Mr. C.M Varghese, SEEM Kerala Chapter. The aim of the program was to give awareness on sustainable energy, need of optimum use of energy resources and Energy audit.

Ms.Sindhya K Nambiar, Ms. Asha S, Assistant Professors of Dept. of CSE, and Ms. Anandhi V, Associate Professor, Dept. of ECE, attended a one- day Seminar on “Applied Machine Learning” on 22nd February 2019 at PSG College of Technology, Coimbatore.

Campus Activities

The Department of Civil Engineering conducted the annual in-house competition ‘Creazione ’19 - Popsicle bridge contest” on 14th February 2019. A total of 47 teams participated in the contest and first prize was bagged by Anshida C. A., Anu Shon V. C., Diya S of S4 CE1 (Batch 2017-21) and second prize was secured by DakshinUdayan, Doris Davis and Gayathri V. Marar of S8 CE1 (Batch 2015-19).

The Department of Civil Engineering conducted the annual in-house quiz competition “Inquisitive” on 28th February 2019. The quiz encompassed the field of Civil Engineering and included technical and general awareness questions. Two teams from each class participated making a total of six teams and each team consisted of 2 members. The quiz consisted of 6 rounds. After the third round, 2 teams were eliminated based on their score. First prize winners were Aravind Subramaniom and Yadhukrishnan R of second semester and second place was

secured by Muhammed Afthabudeen and Muhammed Saheel P A of fourth semester.

The Innovative Software Club, Dept. of CSE organized a Two- Day workshop on “Android Application Development” for sixth semester Electronics and Communications Engineering Students of SSET on 21st and 26th February 2019.

College Achievements

As part of the SCMS Intra Group Sports Fest 2019 held from 13th to 15th March 2019, SSET emerged overall champions after bagging top position in Badminton (Men’s and Women’s), Volleyball (Men’s and Women’s), Football, Cricket, Basketball (Men’s), Runner’s up in Table tennis (Men’s and Women’s) and 2nd runner’s up in Basketball (Women’s).

In the events conducted for faculty and staff of SCMS group, SSET bagged top positions in Badminton singles (Men’s and Women’s) as well as doubles (Men’s and Women’s) categories. The winners were Badminton Singles -Men’s category- Dr.Venu P (Dean-student affairs and HoD, Dept of ME), Women’s category- Ms. Asha S (Assistant Professor, Dept. of CSE), Badminton Doubles- Men’s category- Dr.Varun G Menon (Associate Professor, Dept. of CSE and Mr.Santhosh G (Associate Professor, Dept. of CE), Women’s category- Ms. Asha S and Ms.Blessy Antony (Assistant Professor, Dept. of CSE)

Staff Achievements

Dr. Sunil Jacob, Director-Centre for Robotics, was awarded the Dewang Mehta Education Leadership Award at a function at Taj Malabar in Willingdon Island on 8th March 2019.

Dr. Vinod P, Professor and HOD, Dept. of CSE, was the resource person for a workshop on “Machine Learning with Python”, organized by the Department of Computer Science and Engineering, Dr. G R Damodaran College of Sciences, Coimbatore during 14th and 15th February 2019.

Dr.Vinod P, Professor and HOD, Dept. of CSE, conducted a one- credit course on “Machine Learning and Deep Learning at IIT, Jammu during 21st to 23rd February 2019.

Dr.Varun G Menon, Associate Professor, Dept. of CES, presented a distinguished lecture on “Essential Research Parameters and Benefits of Reviewing” and “Opportunistic Routing Protocols in Under Water Sensor Networks” at Vidyavardhaka College of Engineering during 11th and 12th March 2019. The talk was supported by ACM.

Student Achievements

Mr. Ajay K.S, Mr. Arjun Menon, Mr. Austin Kuruvilla (students of S6 CS1) and Mr.Yadhukrishna P.S(student, S2 CS2) bagged first prize for their project titled “Line Follower Robot” in the tech fest conducted by Christ College of Engineering on 22nd February 2019.

Sixth semester students of Department of Automobile Engineering, Aswin Varma, Giri Krishnan P. and Sudev K S bagged 5th position in SBI Numero YONO Quiz 2019 – India’s biggest inter-college quiz competition held at Mar Ivanios College, Trivandrum on 27th February 2019.

Placement News

The following numbers of offers were given to our 2019 batch students by various companies:

1. IBM – 2
2. Mphasis Limited - 1
3. HCL – 2
4. Shriram Transport – 6
5. Byjus – 2
6. Rapidvalue Solutions – 1
7. Sayone Technologies – 1

8. CTS – 4
9. Quest Global -3
10. Neudesic – 1
11. Perfectfit Systems – 1
12. Federal Bank – 4
13. Eleation Services – 3

The final results of Valued Epistemics, Attinad Software, Procsys, MBIT Wireless, The South Indian Bank, Zerone Consulting, Attra Infotech are awaited.

APRIL 2019

Paper Publications

Dr. Vinod P, Professor and HOD, Ms. Deepa K, Assistant Professor from Dept. of CSE, published an article titled “Identification of Android Malware Using Refined System Calls” in the journal (Wiley) Concurrency and Computation: Practice and Experience, SCIE with an impact factor 1.114, in collaboration with Prof. Mauro Conti, University of Padua, Italy, Prof. Neeraj Kumar, Thapar University, Dr. Mohammad Shojafar, Ryerson University, Toronto, Prof. Radhamani G, GRD, Coimbatore.

Seminars and Workshops

Ms. Deepa K and Ms. Nisha S Raj, Assistant Professors-Dept. of CSE, attended one day Salesforce Industry Academia Interaction Program at Four Points by Sheraton, Infopark, Kakkanad on 9th April 2019. The program was organized by ICT academy.

Campus Activities

Dr. Saravan Subramanian, a renowned international consultant who is providing consultancy services for Kochi Municipal Corporation in connection with the City Sanitation Plan for Kochi, being developed as per the funding from Germany and channelized through Ministry of Urban Affairs, Govt of India, visited the SCMS Water Institute on 11th April 2019. Dr Saravanan came to SSET in great appreciation for the Kochi Water Policy- related studies which SWI had done for Kochi Corporation and for exploring further collaboration possibilities in connection with the decentralized sewage treatment systems for Kochi. Kochi has been selected to be one among 10 metro cities of India for implementing such decentralized sewage treatment systems which may in turn provide umpteen learning opportunities for the MTech Environmental Engineering students.

The annual 'Robotics Skill Development Workshop' for school students was conducted from 1st to 12th April 2019. The workshop witnessed 22 participants from 14 different schools who were given hands on training in 2D and 3D design software, introduction to basic electronics and workshops, fablab machineries and introduction to embedded systems and robotics.

Vipanchika-the annual arts fest

Vipanchika is the annual arts fest conducted by SSET, featuring several art competitions for the students to exhibit their talents. Vipanchika gives the students a platform for improving their capabilities to work as a team and raise their level of self confidence by interacting with fellow students and peers. The event was inaugurated on 29th March 2019 by Ms. Archana Ravi, The Miss Super Globe, India. Over the next two days Vipanchika included a number of cultural events like Group Dance, Margamkali, Oppana, Thiruvathira, Voice of Vipanchika, Duet Song, light music, monoact, mimicry, mappilappattu and off stage events such as essay writing, extempore, recitation poetry writing, short story writing, cartoon, pencil drawing, painting.

Staff Achievements

Dr. Varun G Menon, Associate Professor in Dept. of Computer Science Engg. and Exe. Officer- Corporate Relations & International Collaborations has been invited as a Keynote Speaker at an international conference IMCES 2019 organized by University of Hawaii, USA and Gyancity Research Lab at Holiday Inn, Mauritius on 6th and 7th May 2019.

The Department of Mechanical Engineering, Adishankara Institute of Engineering and Technology, Kalady conducted a panel discussion on "Human Centred Research- A Double Edged Sword" as a part of their National Conference -Vibrant Mechanica on 12th April 2019. Dr. Sheeja Janardhanan (Prof, ME) was one of the panelists and conveyed her views on the adverse effects of the research and technological developments on the environment, bio-diversity and human race.

Student Achievements

A project titled "Flood Prediction System (SHEPHERD)" by Aaron Joseph Fernandez, Abdul Adil Basheer, Antony Jose and Anson Pinhero, students of sixth semester Computer Science Engineering, were shortlisted for Smart India Hackathon (Hardware Section).

Arjun R Menon, Sixth semester student and Yadhukrishnan P.S, Second semester student of Computer Science Engineering won first prize for Accelerate-Race and VR Trailblazer (two events) in the technical fest, Hestia 2K19 conducted by TKM College of Engineering during 29th and 30th March 2019.

Sixth semester Automobile Engineering students Sudev K S, Ajay G Narayan, Sanath Raj and Alan Geo Jothis secured first prize in the Auto Quiz competition conducted by the Department of Mechanical Engineering of AdiShankara Institute of Engineering & Technology, Kalady as part of their first National Conference on Emerging Trends in Mechanical Engineering (NCETME' 19) held on 12th April 2019.

The team NEMO from SSET participated in the national level finals of e-Yantra Ideas Challenge (eYIC) jointly organized by IIT Bombay and MHRD at IIT Bombay campus during 5th and 6th April 2019. The team consisting of three students from Mechanical Engineering Dept. -Mr. Fahad Bin Shihabudin, Mr. Allen Issac, Fourth semester and Mr. Abhijith O., Sixth semester students emerged as one among the 21 national finalists out of 362 entries in the competition. The project titled “Bio-Inspired Fish-Shaped Unmanned Underwater Vehicle for Remote Surveillance "was carried out under the mentorship of Dr. Sheeja Janardhanan, Professor, Dept. of ME. The team has also been shortlisted for undergoing summer internship at IIT Bombay sponsored by MHRD.

Sports Achievements

The 3rd edition of the Dr. Pradeep P Thevanoor Memorial Intercollegiate Volleyball tournament was conducted from 3rd to 10th April 2019 at our campus. The tournament was inaugurated by Mr. Kishore Kumar, Former international volleyball player. In the women’s category, the team from FISAT beat MEC to emerge as the winners while in men’s category, SSET beat MACE.

Placement News

The following numbers of offers were given to our 2019 batch students by various companies:

1. Mu Sigma - 1
2. Wipro – 16
3. PKJ Technologies – 24
4. Redeemer Technologies-1
5. Suitherland Global Services(Non Voice) – 22
6. UST Global-18 shortlisted
7. Cameron – 2 shortlisted

8. Valued Epistemics -5 shortlisted

9. The South Indian Bank – 9 shortlisted

The final results of Attinad Software, MBIT Wireless, Zerone Consulting, Attra Infotech, Fingent and Popular Group are awaited.

MAY 2019

Paper Publications

Dr. Vinod P, Professor and HOD, Ms. Deepa K, Assistant Professor from Dept. of CSE, published an article titled “Identification of Android Malware Using Refined System Calls” in the journal (Wiley) Concurrency and Computation: Practice and Experience, SCIE with an impact factor 1.114, in collaboration with Prof. Mauro Conti, University of Padua, Italy, Prof. Neeraj Kumar, Thapar University, Dr. Mohammad Shojafar, Ryerson University, Toronto, Prof. Radhamani G, GRD, Coimbatore.

Campus Activities

SCMS Water Institute had taken up a consultancy for identifying the reason for transmission loss of treated drinking water from within a three kilometer long pipe line laid underground at the Kochi airport. CIAL authorities were observing severe mis-match of readings between drinking water supplied by Kerala Water Authority and the water used at the airport. In the light of this KWA was requested to do inspections to find the reason for the same, as the quantity of water lost during transmission was observed to be more than one lakh per day. Even after several inspections during last few months, KWA could not identify the location of a possible leak.

The Department of Automobile Engineering is going to commission its 'Wankel Engine' on 24th May 2019 which was rebuilt as a demonstration model by Mr Haridas V K, Automobile Engineering department, supported by Mr Antony T V and other SSET team members.

Mr. Arun Mathews, Bentley Institute, Dubai addressed our sixth semester B.Tech Civil Engineering students in the topic 'Digital awareness' on 7th May 2019.

Staff Achievements

Dr. Varun G Menon, Associate Professor in Dept. of Computer Science Engg. and Exe. Officer- Corporate Relations & International Collaborations has been invited as a Keynote Speaker at an international conference IMCES 2019 organized by University of Hawaii, USA and Gyancity Research Lab at Holiday Inn, Mauritius on 6th and 7th May 2019.

Placement News

The following numbers of offers were given to our 2019 batch students by various companies:

1. Valued Epistemics -1
2. Zerone Consulting – 1
3. OEN India Pvt. Ltd – 2
4. Apollo Tyres Ltd – 4
5. Tech Mahindra – 3
6. UL Technology Solutions – 1

The final results of Litmus7, Anglo Eastern Ship Management, Fingent and Popular Group are awaited.

Bosch has selected one of our second semester M.Tech VLSI student for undergoing an internship with Bosch from July 2019.

JUNE 2019

Paper Publications

Dr. Varun G Menon, Associate Professor in Dept. of Computer Science Engineering published paper titled 'An efficient and adaptable Multimedia System for Converting PAL to VGA' in Journal of Real Time Image Processing with Impact factor 1.574.

Campus Activities

The department of Electrical and Electronics Engineering organised a three day workshop on Research perspectives in Power, Energy & Instrumentation System from 25th to 27th June 2019. Four Students and a faculty from Daffodil International University, Bangladesh successfully completed their Study Tour and Internship with our Centre for Robotics from 17th June to 1st July 2019.

SAEIndia collegiate club of SCMS In association with Department of Automobile Engineering, SCMS School of Engineering and Technology, Karukutty is organizing 10 days Internship program for Automobile Engineering Students from 1st to 12th July 2019.

The Department of Computer Science and Engineering organized KTU sponsored Faculty Development Programme (FDP), on Information and Network Security Challenges from 1st to 5th July 2019, which aimed at creating an understanding of challenges in network and information security and intelligent techniques to tackle the same.

Student's Achievements

Ms. Aswathy P S, our final year Electronics and Communication Engineering students has been awarded the NSS Top Scorer award for the academic year 2018-19.

Staff Achievements

Dr. Sunny George, Director, SCMS Water Institute was invited as a Chief Guest and Key Note Speaker at a seminar conducted by Carborundum Universal Ltd of Murugappa Group on 17th June 2019.

As per the request made by CIAL management, SCMS Water Institute had taken up a consultancy for identifying the reason for transmission loss of treated drinking water from within a three kilometer long pipe line laid underground at the Kochi airport. CIAL authorities are observing severe mismatch of readings between drinking water supplied by Kerala Water Authority and the water used at the airport. In the light of this KWA was requested to do inspections to find the reason for the same, as the quantity of water lost during transmission was observed to be more than one lakh per day. CIAL management approached SCMS management for help from SWI and our SWI team made intensive investigations along the pipe line with the leak detection sensors donated by the German company named SEWERIN. They were successful in pinpointing the leak which was at the underground pipe within the golf course area of CIAL and the findings of SWI were proved to be absolutely correct when excavations made at this location. Senior officials of CIAL praised SCMS for helping them for identifying a leak which was causing heavy loss of revenue and the precious treated water resource.

Placement News

The following numbers of offers were given to our 2019 batch students by various companies:

1. Qcrete Readymix India Private Limited -2

The final results of Isyx Technologies, Keleno, Anglo Eastern Ship Management, IVTL Infoview, OEN India and Popular Group are awaited.

The online test of HackwithInfy competition for 2020 batch students was conducted at our campus on 1st July 2019.