SCMS
School of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION

To achieve academic excellence in creating globally competent professionals and ethically strong global workforce in the field of Computer Science & Engineering, facilitating research activities, catering to the ever changing industrial demands and societal needs.

MISSION

M1: Creating excellence in Computer Science & Engineering through academic professionalism for the changing needs of the society.

M2: Establishing centre of excellence for research and for technical development in the area of Computer Science & Engineering.

M3: Developing communication skill, team work and leadership qualities for continuing education among the students, through project based and team based learning.

M4: Inculcating ethics and human values for sustainable societal growth and environmental protection.

M5: Empowering students for employability, aspiring higher studies and to become entrepreneur.

PROGRAM EDUCATIONAL OBJECTIVES

- **PEO 1.** Apply computer science theory blended with mathematics and engineering to model computing systems.
- **PEO 2.** Nurture strong understanding in logical, computing and analytical reasoning among students coupled with problem solving attitude that prepares them to productively engage in research and higher learning.
- **PEO 3.** Communicate effectively with team members, engage in applying technologies and lead teams i industry.
- **PEO 4.** Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs.

⟹ **PLACEMENT NEWS**

IBS Software Services and SAP Labs selected the following students from 2019 batch.

IBS SOFTWARE SERVICES

ANIRUDH S R

ROSEMARY POLY

IJAS A H

SREEDATH P S

MALAVIKA PRAKSASH

VISHNU C
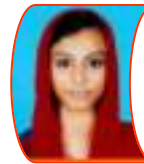
AJAY RAJU

SAP LABS

JEBBIN JOSEPH

ATHIRA S MENON

WIPRO

AJAY PAUL

ASWATHY A

REBECCA JOSHUA

SAJEEHA K S

ROHITH KOCHIKKAT FRANCIS

> ## STUDENTS ACHIEVEMENTS

Runner Up for the Student Innovator of the Year Award:

Abdul Adil Basheer , sixth semester student received the 1st Runner Up for the Student Innovator of the Year Award and a cash prize from Springer Nature for his project 'Dynamic brake lighting and collision avoidance system' submitted to 5th edition of the Indian Automotive Technology and Innovation Awards organised by Auto Tech Review at The Leela Ambience Delhi on December 21, 2018. The project was developed at SCMS Centre for Robotics under the supervision of Dr. Sunil Jacob.

Dr. Sunil Jacob, Professor and Director-Centre for Robotics, SSET and Abdul Adil Basheer, Sixth Semester Computer Science Engineering student receiving the award from Mr. V. Rao, Executive Advisor, Maruti Suzuki India Ltd. and Mr.Pratap Bose, Head of Design, TATA Motors.

WORKSHOPS CONDUCTED

Organised a two-day workshop on 'Machine Learning and New Generation Data Analytics' during December 18-19,2019. Dr. Vijay Krishna Menon, Centre 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.

The participants of the workshop along with Dr. Vijay Krishna Menon, Centre for Excellence in Computational Engineering and Networking, Amrita School of Engineering (sitting-4th from the left), Dr. Praveensal C.J., Principal, SSET and Dr. Vinod P., Professor and HoD, Dept. of CSE and Dean-Research and Publications.

SEMINARS, CONFERENCES AND WORKSHOPS ATTENDED

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

Dr. Varun G. Menon, Associate Professor, Ms. Viji Gopal, Ms. Remya S., Ms. Blessy Antony and Ms. Binu John, Assistant Professors attended a Faculty Development Programme on 'Applications of Innovative Tools for Creating Breakthrough Innovations/ Intrapreneurship Projects' at SCMS, Muttom, on December 29, 2018.

PAPERS PRESENTED

Dr. Vinod P., Professor and HoD, presented a paper titled 'Malware Signature Generation Using Locality Sensitive Hashing' in the 2nd ISEA International Conference on Security and Privacy organised by the Department of Computer Science and Engineering, Malaviya National Institute of Technology, Jaipur, held during January 9-11.

Ms. Neenu Sebastian, Assistant Professor, 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 on December 17, 2018.

Ms. Nimmi K., Assistant Professor, 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 December 21-22, 2018.

Ms. Blessy Antony, Assistant Professor, 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, organised by Inventive Research Organisation at RVS Technical Campus, Coimbatore, during November 29-30 2018.

STUDENTS ACHIEVEMENTS

The project titled 'SMART MIRROR' by sixth semester students Pranav Prakash, Sidharth K., Raja Thomas and Mohammed Falah Yusuf, guided by Asha S., Assistant Professor, has received KSCSTE funding.

Aaron Joseph, Anson Pinhero, Ajay K.S., Adarsh Viswanath and Abdul Adil, students from sixth semester, secured third prize amongst 24 teams, in a Hackathon conducted by Vidya Academy of Science and Technology on February 9.

FACULTY ENABLEMENT PROGRAM

Faculty enablement programme on 'Lex based foundation programme' for the benefit of the faculty at SSET was organised by Infosys at SSET inaugurated by Mr. S. Hari, Head of Education Training Assessment Centre of Infosys at Thiruvananthapuram. Dr.C.J.Praveensal, Principal presided. Ms.Sahana Kumaraswami, Director, Training Centre, Infosys, Bengaluru, Dr.Varun G.Menon, Associate Professor and Head of International Relations and Dr.Vinod P., HoD spoke.

PROGRAMS ATTENDED

Ms. Sonal Ayyappan, and Dr. Varun G. Menon, Associate Professors attended the Infosys Summit at Infosys Mysore DC on February 16 for the launch of infyTQ, a new training programme initiated by Infosys.

Ms. Diana P.G. Percy and Ms. Deepasree Varma, Assistant Professors, attended a five-day Faculty Enablement Programme on 'LEX based foundation programme' conducted by Infosys at SCMS School of Engineering and Technology, from February 4 to 8.

PAPER PUBLICATIONS

An article by Dr. Varun G. Menon, Associate Professor, titled 'Hijacked Journals' was published by Publons and Clarivate Analytics. Clarivate Analytics maintains the Web of Science including the SCIE indexed Impact Factor Journals.

Ms. Sreeja Rajesh, Assistant Professor and final year student George M. Thottan jointly published the paper 'EXOTON- An Exoskeleton For Paralysed' 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 along with student George A.N. (Dept. Of ECE) , Professor and Director-Centre for Robotics, Dr. Sunil Jacob, Research Assistant , Mr. Jibin Lukose, and Assistant Professor Mr. Vinoj P. G. (Dept. of ECE) .

➣ STAFF ACHIEVEMENTS

In the events conducted for faculty and staff of SCMS Group, SSET bagged top positions in Badminton singles (Men and Women) as well as doubles (Men and Women) categories. The winners from CSE were: Badminton Singles Women category- Ms. Asha S. (Assistant Professor), Badminton Doubles- Men category- Dr.Varun G. Menon (Associate Professor), Women category- Ms.Asha S and Ms.Blessy Antony (Assistant Professors).

➣ FACULTY AS RESOURCE PERSON

Dr.Vinod P., Professor and HoD, was the resource person for a workshop on Machine Learning with Python, organised by the Department of Computer Science and Engineering Dr. G. R. Damodaran College of Sciences, Coimbatore during February 14-15.

Dr. Vinod P., Professor and HoD, conducted a one-credit course on Machine Learning and Deep Learning at IIT, Jammu during February 21-23.

Dr.Varun G. Menon, Associate Professor, 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, Mysuru during March11-12. The talk was supported by ACM.

STUDENTS ACHIEVEMENTS

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

PLACEMENT NEWS

The following offers were given to students:

QBURST	:
QUEST GLOBAL	:
Mphasis	:
Valued	
Rapidvalue Solutions	:

Shriram Transport   :

Sayone Technologies :

HCL   :

Federal

Sutherland Global   :

⟫ SEMINARS, CONFERENCES AND WORKSHOPS ATTENDED

Ms.Sindhya K. Nambiar and Ms. Asha S., Assistant Professors, attended a full-day seminar on Applied Machine Learning on February 22 at PSG College of Technology, Coimbatore.

MAY 2019

⟫ STAFF ACHIEVEMENTS

Dr. Varun G. Menon, Associate Professor and International Relations-in-charge was invited as a keynote speaker at an international conference, IMCES 2019, organised by University of Hawai, USA and Gyancity Research Lab at HolidayInn, Mauritius on May 6 and 7.

⟫ STUDENTS ACHIEVEMENTS

A project titled 'Flood Prediction System (Shepherd)' by Aaron Joseph Fernandez , Abdul Adil Basheer, Antony Jose and Anson Pinhero, students of sixth semester, were shortlisted for Smart India Hackathon (Hardware Section),a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives.

Second semester students Arjun R. Menon, S6 and Yadhukrishnan P.S., won first prize for Accelero-Race and VR Trailblazer (two events) in the technical fest, Hestia 2K19 conducted by TKM College of Engineering during March 29-30.

PROGRAMS ATTENDED

Ms. Nisha S. Raj, Assistant Professor, attended a full day Sales Force Industry Academia Interaction Programme at Four Points by Sheraton, Infopark, Kakkanad on April 9th. The programme was organised by ICT academy.

PAPER PUBLICATIONS

Dr. Vinod P.,Professor and HoD, 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 and Prof. Radhamani G., GRD, Coimbatore.

JUNE 2019

STAFF ACHIEVEMENTS

Dr.Varun G. Menon, Associate Professor, presented an invited keynote talk on 'Hijacked Journals' at the International Multi-conference on Engineering and Science on May 6 at Holiday Inn, Mauritius. The conference was organised by University of Hawaii, USA and Gyancity Research Lab, Italy.

Dr. Varun G. Menon (extreme right) along with other delegates at the International Multi-conference on Engineering and Science at Holiday Inn, Mauritius.

⟫ STUDENTS ACHIEVEMENTS

In an interaction with faculty of SSET, TELK (Transformers and Electricals Kerala Limited) had proposed an automation system for the placement of transformer core sheet. Subsequently, fourth semester students Ashby Babu, Jyothish A. and Ashik Mathew demonstrated the prototype successfully in front of the TELK committee on May 8. The presentation was attended by the Chairman, MD and the R & D staff of TELK. In a couple of months, TELK will be adopting the same for their automation.

Mr. N. C. Mohanan, Chairman, TELK and Mr.Prasad B., Managing Director, TELK posing along with Prof. Krishnakumar T., Visiting Faculty-IIT Palakkad, Dr. Sunil Jacob, Director, Centre for Robotics, R&D staff of TELK and S4 CSE students of SSET at the presentation.

Ganesh Babu of S6 CS1 and Jiya Benny of S6 CS1 have secured a CGPA of 10 for the fifth and third semester University Examination, respectively.

WORKSHOPS CONDUCTED

As a part of the Hobby Club activities, eighth semester students Akshay Mahipalan, Arjun, Amalgovind P. S., Ajai Sooryan and Don Jose, conducted a one-day workshop on the topic 'Machine Learning' on May 9th for the second semester Computer Science and Engineering students.

SEMINARS, CONFERENCES AND WORKSHOPS ATTENDED

Ms.Gayathry S Warrier, Assistant Professor, Dept. of CSE, attended a one day seminar on 'Science Education in a Digital Era' on May 17th, at Mascot Hotel, Thiruvananthapuram.

PAPERS PRESENTED

Ms.Sindhya K. Nambiar and Ms.Soniya Jose, Assistant Professors, presented a paper titled 'POS Tagging for Malayalam Using Hidden Markov Model' at the 3rd International Conference on Trends in Electronics and Informatics organised by SCAD College of Engineering and Technology during April 23- 25, at Cheranmahadevi, Tirunelveli.

PAPER PUBLICATIONS

Ms.Gayathry S. Warrier, Assistant Professor, published a paper titled 'Spinal Canal Abnormalities in Early Stage Detection of Scoliosis Disease: A Review,' in the Journal of Advanced Research in Dynamical & Control Systems,Vol. 11, 04-Special Issue, 2019, pp.267-275 ISSN 1943-023X .

⇒ **PLACEMENT NEWS**

Mu Sigma

ARYA.M.A
MT1#8271#17

Neudesic

MIRUTHULA M
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Cognizant Technology Solutions

SANJANI P NAIR
SCS#1473#15

REBECCA JOSHUA

AJMALA NAZREEN K S

PKJ Technologies

ASWATHY MENON K
SCS#6381#15

ATHIRA
SCS#6470#15

SUNITHA SAHU
SCS#6316#15

WORKSHOPS CONDUCTED

KTU Sponsored Five Days Faculty Development Programme on Information and Network Security Challenges:

A five-day Faculty Development Program sponsored by KTU (APJ Abdul Kalam Technological University), was organized from 1-5th July 2019. Valuable talks by eminent speakers from reputed academics institutions like National Institute of Technology, Warangal, IIITM-K Trivandrum, Amrita University, Coimbatore, Cochin University marked five days event. The faculty development program also imparted extensive hands-on experience on Dissecting Malware and Biometric Presentation Attacks using Deep learning techniques. The hands-on session was conducted by senior researchers from CISCO, Bangalore and VisionCog, Trivandrum.

Faculties and participants of FDP with Mr.Shyam Sundar Ramaswami, CISCO, Bangalore.

Hands-On Workshop : Deep Learning with Tensorflow:

Organised a one day hands-on workshop on Deep Learning With Tensorflow on 6th July 2019. Dr.Ram Prasad, founder VisionCog, Trivandrum was the resource person for the workshop.

Participants of workshop along with Dr. Ramprasad K., VisionCog (tenth from left) and Dr. Vinod P., (11th from left).

⇒ FACULTY AS RESOURCE PERSON

Dr.Vinod P., Professor and HoD, Department of CSE was the resource person for Faculty Enrichment Programme on 'Machine Learning and Deep Learning', organised by the Department of Computer Science and Engineering, Sahrdaya College of Engineering and Technology, Kodakara, during 24th – 27th of July 2019.

Dr.Vinod .P , with the faculties and participants of the programme at Sahrdaya college of Engineering and Technology

⟫ SYNERGY ACTIVITIES

Conducted induction program for BTech 2019-2023 batch students on 25th July.

BTech first year induction program

PAPER PUBLICATIONS

Dr. Varun G. Menon, Associate Professor published a 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.