DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

BITS & BYTES

E Newsletter

SVCE | Sri Venkateswara College of Engineering

Quarterly

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Department of Electronics and Communication Engineering

Workshops/FDPs/Conferences Participated

Mr.M.Athappan and Mr.G.Loganathan, Assistant Professors attended One Week Online Faculty Development Program on "Emerging Trends in Energy, Environment and Nanomaterials (EEN 2020)" organized by SVCE from 24/7/2020 to 30/7/2020.

Ms.K Srividhya, Assistant Professor attended a FDP on "Modeling, Measurement and Research trends in Microstrip Patch Antenna" organized by Vignan Institute of Technology from 20/7/2020 to 25/7/2020 and attended a AICTE sponsored STTP in "Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS" organized by Shri Vishnu Engineering College from 27/7/2020 to 1/8/2020.

Mr.M.Athappan, Ms.Rajeswari Ramaraj, Assistant Professors attended Six days Short Term Training Programme on "High Performance Intelligent Real Time Embedded System Design and Internet of Things to accelerate automation system into autonomous system" organized by R.M.K.Engineering College from 1/9/2020 to 7/9/2020.

Mrs.Rajeswari Ramaraj, Assistant Professor, attended AICTE sponsored two weeks online FDP on "Ideas, Innovation and Block chain architecture technologies and Research Applications" organized by Syed ammal Engineering College from 14/12/2020 to 27/12/2020 and AICTE sponsored ATAL online FDP on "Wearable Devices" organized by Kongu Engineering College from 14/9/2020 to 18/9/2020.

Ms.D.Menaka, Mr.S.P.Sivagnana Subramanian, Mrs.R.Kousalya, Mr.M.Athappan, Ms.L.Anju, Mrs.M.Vidya, Ms.A.Bharathipriya, Assistant Professors attended an online FDP on "Machine Learning and its Applications" organized by SVCE from 21/9/2020 to 25/9/2020.

Mr.S.Senthil Rajan, AP, participated in a FDP on "Trends and Challenges in the Design and Implementation of Planar Antennas" organized by SreeNidhi Institute of Science and Technology from 1/9/2020 to 5/9/2020 and participated in Six Days AICTE Sponsored Online Short Term Training Program on "Antenna Design & Error Rectification Using CST Studio Suite 2020.07 organized by Shri Vishnu Engineering College for Women from 24/8/2020 to 29/8/2020.

Ms.S.Kalyani, Mr.M.K.Varadarajan, Assistant Professors participated in an International Faculty Development Programme on "Exploring the Nuances of Deep Learning for Research Application- A Deeper Experience" Organized by Karunya Institute of Technology and Science from 13/7/2020 to 17/7/2020.

Mr.P.Arul, Assistant Professor participated in a FDP on "Recent Advances In Embedded Systems" organized by Mahatma Gandhi Institute of Technology from 7/8/2020 to 11/8/2020.

Dr.N.Kumaratharan, Professor participated in an International Webinar, ELITE 2020 Series-1 organized by Manakula Vinayagar Institute of Technology from 8/7/2020 to 13/7/2020 and participated in a Webinar on Advanced Antenna Design and Development for RF Communication Systems Antenna Test and Measurement Society of India from 20/7/2020 to 25/7/2020.

Dr. G. Padmavathi, Professor participated in 6 days course on Resilience in Crisis covering the topics Resilience, Self-Leadership, Gratitude, Relationships, Compassion, Aspiration organized by Heartfulness Institute, Hyderabad during 4th - 9th August 2020.

Ms.S.Radhika and Ms.M.Vidya Assistant Professor participated in an one week online STTP on Artificial Intelligence in healthcare organized by Kumaraguru college of Technology from 16/7/2020 to 22/07/2020.

Dr. G A Sathish Kumar, Professor, participated in a three days online workshop on "Aspects of Outcome Based Education and Use of Software from 6/8/2020 to 8/8/2020 at SVCE.

Intramural Funding Project

Intramural fund of amount Rs.10,000/- was granted to final year UG students, Mr M Piyush, Mr Rahil H Sakariya and Mr Rahil Jain guided by Ms.D.Menaka, Assistant Professor on the title Classification of Chromosome using Deep learning approach.

Faculty Publications

Dr.G.A.Sathish Kumar Professor and Ms C. T. Poomagal Research Scholar published paper titled "ECC Based Lightweight Secure Message Conveyance Protocol for Satellite Communication in Internet of Vehicles (IoV)" in Springer Wireless Personal Communications , Volume 113, issue 2, July 2020, pp1359–137. (SCI indexed)

Dr.G.A.Sathish Kumar and **M.Babu** In-depth survey on XOR gate design in Journal of critical reviews, vol 7, issue 18, July 2020 pp.1879 -1888.

Dr.G.A.Sathish Kumar and **Ms.K.Meena** published paper titled Chaotic Map and Image Based Cryptosystem in International Journal of Innovative Research in Technology , Volume 7 Issue 2 , July 2020.pp51-57.

Dr.G.A.Sathish Kumar and Mr.M.Babu published paper titled published paper titled Design of Faster SMS4 Crypto System with Efficient XOR Gate in International Journal of Advanced Science and Technology, Vol. 29, No. 3, September 2020, pp. 13494 – 13499.

Mr.V.Rajaram, Assistant professor, Dr N. Kumaratharan Professor, published paper titled "An optimized clustering using hybrid meta heuristic approach for wireless sensor networks in wireless sensor networks" International journal of Communication Systems, Accepted, DOI:10.1002/doc.4638.

Ms.J.Monica, Dr.P.Jothilakshmi, Professor published paper titled A Design of Bandwidth-Enhanced Conformal Antenna for Aircraft Applications IETE Journal of Research, Taylor & Francis, published online, DOI:10.1080/0377 2063.2020.1829507 during August 2020.

Mr.Srinath, Dr.R.Gayathri, Associate Professor published paper titled Detection and classification of electroencephalogram signals for epilepsy disease using machine learning methods in International Journal of Innovative Research in Int J Imaging Syst Technology. 2020; pp.,1–12 August 2020.

Mr.M.Athappan, Assistant Professor, Dr.K.R.Santha, Professor Area-Delay Efficient Fixed Stage Carry Skip Adder in International Journal of Advanced Science and Technology (IJAST), Vol. 29 No.7, pp 3609-3617 July 2020.

K.Murali Krishna, M.Ganesh Madhan, P.Ashok, published paper titled Study of gain switching in VCSEL under different electrical pulse inputs in Defense Science Journal, Published by DESIDOC, DRDO, Vol.70, No. 5, pp. 538-541. [p-ISSN-0011-748X, e-ISSN-0976-464X] September 2020

Ms.T.J.Jeyaprabha, Ms.G.Rajeswari published paper titled An SVD Based Fragile Watermarking Scheme Tamper Localization and Self Recovery in International Journal of Innovative Research in Technology, Volume 7, Issue 2, ISSN: 2349-6002 July 2020.
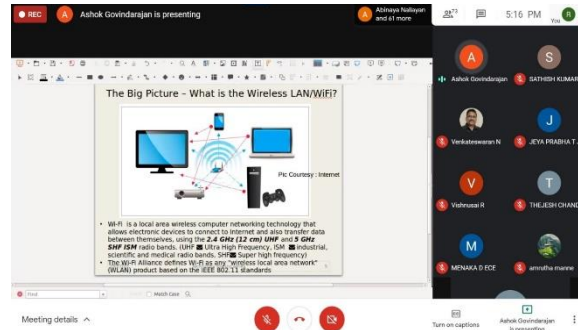
Expert Lectures

Mr.G.L.Ganga Prasad , Senior Director Center for Development of Advanced Computing, Bengaluru delivered webinar on An Introduction to IOT and Applications on 04/07/2020.

Ms.R.Premalatha, Hardware Board Designer, delivered webinar on PCB design flow process on 15.08.2020.

Dr.K.M.Sivakholundu, Interim Vice Chancellor of IMU, Central University under the Ministry of Shipping delivered webinar on GPS & Beyond – An Introduction to Satellite Positioning Systems on 11/07/2020.

Mr.Ashok Govindarajan, Head of Wireless Networks, Zilogic Systems delivered webinar on SOFTWARE DESIGN ASPECTS OF WLAN ACCESS POINT on 25/07/2020.

Dr.R.Vani, Professor, Dept. of ECE, SRM Institute of Technology, delivered webinar on Ramapuram Image Processing on Machine Vision Applications on 01/08/2020.

Dr. Krishnasamy Selvan, Professor, ECE Department, of SSN College of Engineering, delivered webinar on A Professional Development Plan for Students and Young Educators on 01/08/2020.
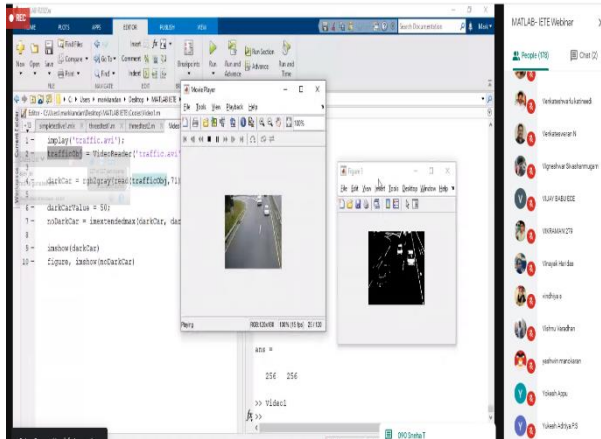
Dr.L.Vanitha, Associate Professor, Dept. of ECE, Prathyusha Engineering College, delivered webinar on Webinar on Real Time Applications of Artificial Intelligence on 08/08/2020.

Shri. A. Sadagopan, F-IETE, Retd.AGM, BSNL Chennai delivered webinar on Recent Trends in Optical Communication on 08/08/2020.

Mr.K.V.Nagesh, Founder & Director of Data Care Systems, Bengaluru delivered webinar on Electronic Control Unit for Heavy Duty Trucks on 14/08/2020.

Mr.B.SivaSubramanian, Business Intelligence Analyst, TEDx Speaker, pursuing Post Graduate at University College Cork, Ireland, delivered webinar on Realistic Approach towards Data Science on 23/08/2020.

Dr.S.Markkandan, Assistant Professor, Dept. of ECE, Anand Institute of Technology, Chennai delivered webinar on MATLAB Programming Technique on 23/08/2020.

Dr.Tata Sudakar, Former Chairman, IETE - Chennai Centre, Scientist – G, NIOT, Chennai delivered webinar on Ocean Technology in NIOT on 29/08/2020

Mr.S.Bharath Kumar, Corporate Manager, USV Pvt Ltd delivered webinar on Scope of Electronics in Medical Instrumentation on 01/08/2020

Dr.K.Thilagam, Associate Professor, Velammal Engineering College, delivered webinar on 5G Communication and its Research Perspective on 07/09/2020.

Events Organized

Dr.S.Muthukumar Professor & Head, **Dr.S.R.Malathi** Associate Professor, **Mr.M.Athappan, Mrs.S.M.Mehzabeen** Assistant Professors, organized Two Day Workshop on "Fundamentals of ASIC Design Flow" on 11 & 12 Sept-2020.

Dr.S.Muthukumar Professor & Head, **Dr.S.R.Malathi** Associate Professor, **Mr.M.Athappan**, **Mrs.S.M.Mehzabeen** Assistant Professors, organized One Day Workshop on "Embedded System using ARM 7" on 15 July-2020.
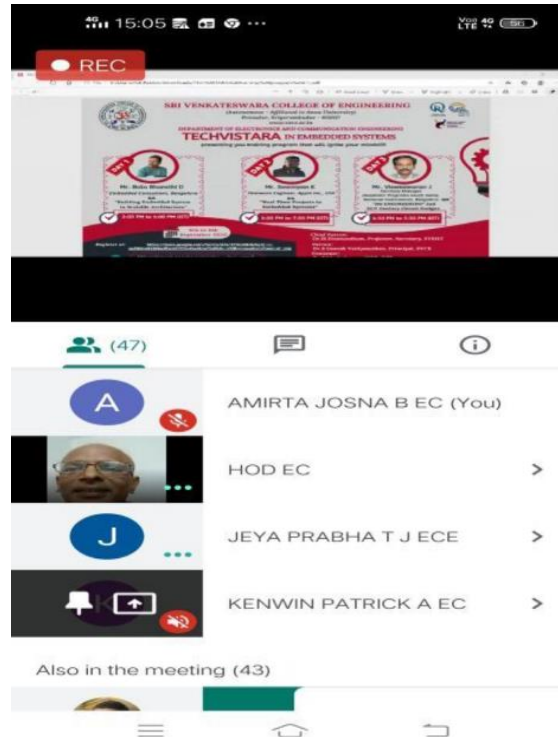
The ECE Association, IETE-SF and Robotics and Artificial Intelligence Club (RAIC) were inaugurated on 8/8/2020 for the academic year 2029-21 on the Google Meet platform.

The ECE Association organized a two-day online workshop on "**Flutter app Development**" for the second year ECE Department students on 22/8/2020 and 23/8/2020.

The ECE Association organized a two-day online workshop on "**Web Development**" for the third year SVCE students on 19/9/2020 and 20/9/2020.
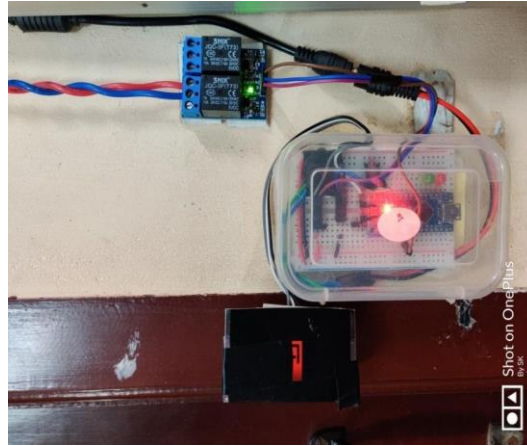
The ECE Association in association with Robotics and Artificial Intelligence Club organised 5 days Line Follower Programming Event from 11/09/2020 to 15/09/2020.

Dr S Muthukumar Professor & Head, Ms.T J Jeyaprabha, Ms R. Kousalya, and Ms. B. Sarala, Assistant Professors, organized Three Day Training Program "TECHVISTARA in Embedded Systems" from 06/09/2020 to 08/09/2020.

Dr.S.Muthukumar Professor & Head, **Dr.R.Gayathri** Associate Professor, **Mr.S.P.Sivagnana Subramanian, Ms.Rajeswari, Ms.S.M.Mehzabeen, Ms.A.Bharathipriya** Assistant Professors, organized 5 Days FDP on Machine Learning and its Applications from 21/9/2020 to 25/9/2020.

Dr.S.Muthukumar Professor & Head, **Ms.T.J.Jeyaprabha, Mr.G.Loganathan** Assistant Professor organized "Unboxing 1.0" on 11/9/2020.

Dr.P.Jothilakshmi, Professor, **Ms.B.Hemalatha, Ms.C.Gomatheeswari Preethika** Assistant Professors organized a webinar on "Will Making Things get Revolutionized After Pandemic? A talk on what 3D Printing holds as a Career Option on 08/8/2020.

Ms.D.Menaka, Ms.K.Srividhya, Ms.S.Kalyani, Ms.L.Anju, Mr.M.K.Varadarajan Assistant Professors, organized a value added course on VD 18702-Signal processing using simulation tool in three phases. The durations are from 14/09/2020 to 18/09/2020,5/10/2020 to 10/10/2020 and from 30/11/2020 to 4/12/2020.

Dr.G.Padmavathi, Professor, **Ms.M.Vidya, Ms.S.Radhika** and **Ms.R.Rajeswari** Assistant Professors, organized Online workshop on "Enablers for next generations Communications" on 04/09/2020 and 05/09/2020.

Expert Lectures delivered

Mr.M.Athappan, Assistant Professor, ECE delivered a Lecture on "Design Validation (Double Diamond approach) organized by IIC-SVCE in association with Department of Electronics and Communication Engineering on 28/12/2020 at SVCE.

Dr.P.Jothilakshmi, Professor:

- Delivered a session on the topic, "On-body Conformal Antennas for Biomedical Applications at mm wave frequencies", in the AICTE sponsored STTP at RIT , Chennai on 17/12/2020.

- Delivered a session on the topic, "Antenna Fundamentals and Design Challenges", in the AICTE Sponsored STTP on Recent Advancements of Computational Electromagnetics in Modern Microwave Antennas on 24/11/2020 at SVCE.
- Delivered a session on the topic, "Design Challenges and Applications of Special Antennas", in the AICTE Sponsored STTP on Recent Advancements of Computational Electromagnetics in Modern Microwave Antennas on 17/10/2020 at SVCE.

Ms.K.Srividhya, Assistant Professor, delivered a session on the topic, MATLAB based Wireless Communication in the value added course on VD 18702-Signal processing using simulation tool on 08/10/2020 at SVCE.

Ms.D.Menaka Assistant Professor, delivered a session on the topic," Introduction to MATLAB" in the value added course on VD 18702-Signal processing using simulation tool on 14/09/2020 at SVCE.

L.Anju Assistant Professor, delivered a session on the topic," Introduction to MATLAB for Signal Processing" in the value added course on VD18702-Signal processing using simulation tool on 14/09/2020 at SVCE.

Ms.R.Kousalya Assistant Professor and B.Sarala, Assistant Professor ,ECE delivered a session on the topic,"Introduction to MATLAB for Signal Processing" in the value added course on VD18702-Signal processing using simulation tool on 6/10/2020 at SVCE.

Ms. K.S.Subhashini, Assistant Professor delivered a session on the topic, "Introduction to MATLAB for Signal Processing" in the value added course on VD18702-Signal processing using simulation tool on 12/10/2020 at SVCE.