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

Dr.S.Muthukumar Professor attended a Faculty Development Program on "Education 4.0-Future of Learning" from April 27 to April 30 at Anand Institute of Higher Technology.

Dr.N.Kumaratharan Professor attended a Faculty Development Program on "Industrial IoT using LoRa Technology" from June 1 to June 5, 2020, at Vemu Institute of Technology.

Dr.N.Kumaratharan Professor, **Dr.S.R.Malathi, Dr.R.Gayathri** Associate Professors, **Mr.S.R. Balasubramanian, Mr.S.P.Sivagnana Subramanian, Mr.S.SenthilRajan, Mrs.M.Vidya, Mrs.S.Radhika, Mrs.S.M.Mehzabeen, Mr.P.Arul, Mr.N.Sathish, Ms.A.Bharathipriya** Assistant Professors attended a five days virtual Faculty Development Program on Machine Learning for Signal Processing from June 19 to June 23 2020 at SVCE.

Dr.G.Padmavathi Professor attended Two Days Workshop on Machine Learning in Computer Vision Applications on 12th and 13th May 2020 organized by Dept. of ECE, SVCE.

Dr.P.Jothilakshmi Professor attended a Faculty Development Program on "Research Methodology" from June 1 to June 2 2020 at Jeppiaar Institute of Technology.

Dr.S.R.Malathi Associate Professor, **Mr.P.Arul, Ms.A.Bharathipriya**, Assistant Professor attended a Faculty Development Program on Digital Transformation-An Introductory Course on May 8 to May 12 2020 at Easwari Engineering College.

Dr.S.R.Malathi Associate Professor attended a Faculty Development Program on VLSI IC Design Flow May 28 to May 30 2020 at Anurag University.

Dr.S.R.Malathi Associate Professor Participated in two day online workshop on MATLAB Applications in Process Simulation and Control organized by the Department of Chemical Engineering, SVCE on 23rd & 24th May 2020.

Dr.R.Gayathri Associate Professor and Mrs.M.Vidya Assistant Professors participated in the three-day workshop on Data Science and Machine Learning from June 26 to June 28 2020 at SVCE.

Ms.T.J.Jeyaprabha, Mrs.D.Menaka, Mrs.K.S.Subhashini, Mr.S.Senthil Rajan, Mr.S.P.Sivagnana Subramanian, Mrs.L.Anju Assistant Professors participated in a National Level Workshop on Machine Learning in Computer Vision Applications from May 12 to May 13 2020 at SVCE.

Ms.T.J.Jeyaprabha and **Mrs.R.Kousalya** Assistant Professors participated in Two-days FDP on Applications of Signal Processing in IOT conducted by Embedded & MATLAB Club on 21st & 22nd May 2020 by Prathyusha Engineering College.

Mrs.K.Srividhya, Mr.S.Senthil Rajan, Ms.S.Radhika, Mrs.C.Gomatheeswari Preethika, Mr.P. Arul Assistant Professor attended Three Days Online FDP in "Robotics Process Automation" organized by Jeppiaar Ins of Tech from 4th to 6th May 2020.

Mr.S.Senthil Rajan, Mr.P.Muthukumaran Mrs.B.Hemalatha and Mrs.C.Gomatheeswari Preethika Assistant Professor participated in virtual Faculty Development Program on "Antenna and Microwave Engineering" from 8th June to 13th June 2020 organized by Department of ECE in association with IETE chapter and Society of EMC Engineers of K.Ramakrishnan College of Technology, Samayapuram, Trichy

Mr.S.Senthil Rajan Assistant Professor participated in a two-week online refresher Course on "Recent Trends in Information, Computing, Communication and Teaching Methodology Competency" from May 4 to May 17 2020 at Sri Sairam Engineering College.

Mr.S.P.Sivagnana Subramanian, Assistant Professor attended a STTP on "Intelligent Robotics and Machine vision Technology" incurrent scenario from May 25 to May 29 2020 Sri Sairam Institute of technology.

Mrs.R.Kousalya, Assistant Professor attended Two days FDP on "Cyber Security and Embedded System", conducted by Jeppiaar Institute of Technology on 26th and 27th May 2020.

Ms.D.Menaka, Assistant Professor attended an online FDP on computer vision using convolutional neural networks organized by Anurag University and Blackbucks from 8th June to 10th June 2020.

Mrs.L.Anju, Assistant Professor attended a 3 -day online FDP organised by Anurag University and Blackbucks on "Computer vision using Convolutional Neural Networks" from 08/06/2020 to 10/06/2020.

Mrs.K.S.Subhashini, Mrs.K.Srividhya, Mr.S.Senthil Rajan and Mrs.S.M.Mehzabeen, Mr.G.Loganathan, Mrs.N. Sathish and Ms.A.Bharathipriya, Assistant Professors participated in one day online STTP on " Block Chain Technology and emerging trends in Information Security on 15th May 2020 " at SVCE.

Mrs.S.Kalyani, Mrs.L.Anju, Mr.M.K.Varadarajan, Mr.P.Arul, Mr.N.Sathish, Ms.A.Bharathipriya Assistant Professors participated in a National Level Workshop on Machine Learning in "Computer Vision Applications" from May 12 to May 13 2020 at SVCE.

Mr.P.Muthukumaran, Assistant Professor attended International workshop on "Technology development of E- vehicles" from 28/05/2020 to 30/05/2020 at SVCE.

Mrs.B.Hemalatha, Assistant Professor attended One Week online FDP on "Antenna Design and Troubleshooting" organized by Department of Electronics and Telecommunication Engineering, Pillai College of Engineering, New Panvel, Mumbai on 03/06/2020 to 07/06/2020.

Mrs.C.Gomatheeswari Preethika Assistant Professor attended AICTE sponsored five days online FDP on IoT from 18-05-2020 to 22-05-2020 organized by National Institute of Technology, Nagaland.

Mrs.Rajeswari Ramaraj Assistant Professor attended Five days online FDP 15/6/2020 to 19/06/2020 conducted at Saveetha Engineering College on Embedded and Real Time Systems.

Mrs.S.M.Mehzabeen Assistant Professor attended an online workshop on "LaTeX" from May 14 to May 17 at MIT.

Mr.P.Arul, Assistant Professor attended five days FDP on PYTHON conducted from 05/05/20 to 09/05/2020 organized by VIT.

Ms.N.Sathish, Assistant Professor attended one week FDP on Engineering and Management Teaching Pedagogy-an industry perspective organized by sai ram institute of technology from 11.5.2020 to 16.05.2020.

Mr.N.Sathish and Ms.A.Bharathipriya Assistant Professor attended E-workshop on mobile servicing organized by Tagore Engineering College on 6.5.2020.

Mrs.S.Radhika, Assistant Professor participated in a National Level Workshop on "Intellectual Property Rights" from April 10 to April 11 2020 at Pandit Deendayal Petroleum University.

Faculty Publications

Dr.S.Muthukumar Professor, Mr.K.Selvamurugan, Mr.K.Santhosh Kumar Ms.V.Shalini paper titled Smart Bin Waste Management Network using LoRa and Internet of Things was listed in International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 10, Issue 6, (Series-VIII) June 2020, pp. 61-65.

Dr.S.Muthukumar Professor, Ms.Sathya Priya M.S., paper titled SMART PARKING GUIDANCE SYSTEM was listed in International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 07 Issue: 04 | Apr 2020.

Dr.S.Muthukumar Professor, Mr.D.Jagadeeshwaran, Ms.V.Saveetha, Mr.M.K.Subramaniya Raman paper titled Signal Acquisition of IRNSS Signals was listed in International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-018, Vol. 9 Issue 06, June-2020

Dr.N.Kumaratharan Professor, **Mr.K.Dhanasekaran, Mr.P.Anandan**, paper titled "A robust image steganography using teaching learning-based optimization-based edge detection model for smart cities" was listed in Journal of Computational Intelligence during May 2020.
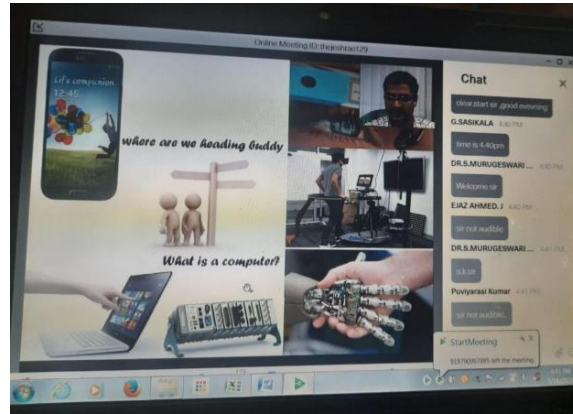
Dr.S.R.Malathi, Associate Professor **Ms.V.Priyadarshini**, paper titled "Application and Analysis of Approximate Bus and Shift-Invert Encoding Technique for Image Data Transfer over Serial Bus" was listed in International Journal for Research in Applied Science and Engineering Technology, Volume 8, Issue V during May 2020.

Ms.R.Gayathri, Associate Professor **Ms.B.Komathi** paper titled "Comparative Analysis of Support Vector Machine for Hyper spectral Image Classification" was listed in International Journal of Innovative Research in Technology (IJITEE) ISSN: 2349-6002, pp. 133-139, Volume-7 Issue-1, June 2020.
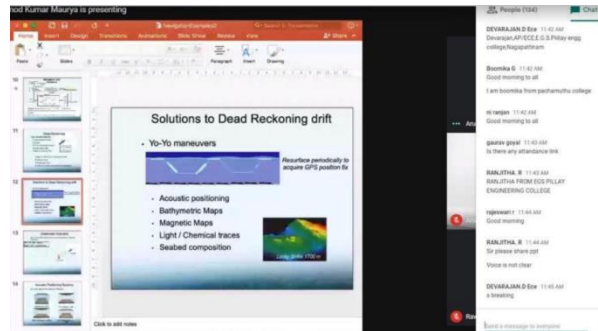
Experts Lectures
Dr.G.A.Ramadass, Scientist and Head of Deep-Sea Technology Group at the National Institute of Ocean Technology delivered online guest lecture "HUMAN SUBMERSIBLES INDIAN STORY" on 09/05/2020.
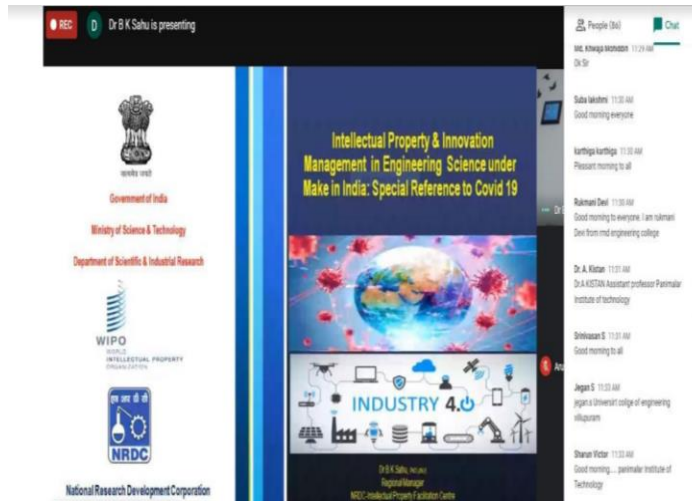
Mr.Bolem Srinivas, Scientist-D at National Institute of Ocean Technology, R&D Firm delivered online guest lecture on the title "DATA ENCRYPTION ALGORITHMS" on 16/05/2020.

The Webinar on the title "UNDERWATER NAVIGATION: THEORY AND PRACTICE" was delivered by **Dr.Pramod Kumar Maurya**, Scientist at Marine Instrumentation division, National Institute of Oceanography on 23/05/2020.

Dr.B.K.Sahu, Regional Manager (IPFC&TISC), NRDC, GOI, Innovative Valley, Vishakhapatnam, delivered the Webinar on the title "ROLE OF INTELLECTUAL PROPERTY &INNOVATION MANAGEMENT IN ENGINEERING SCIENCE UNDER MAKE IN INDIA" on 27/05/2020.

Dr.Tata Sudhakar, Group Head, Ocean Electronics Group, Scientist G, NIOT, Chennai & Chairman, IETE-Chennai Centre delivered online lecture on "INDIAN TSUNAMI WARNING SYSTEM" on 30/05/2020.

Mr.Abid Ahmed Salem, Senior Solution Architect – Cloud Native & Transformation, Ericsson Global India delivered online lecture on "EDGE COMPUTING" on 03/06/2020.

Mr.Ezhil Chinnathambi, Director for Hardware/Firmware Quality & Working, Smart Drive Systems Inc., USA presented webinar on the title "IOT" on 04/06/2020.

Ms.G.Ramya Gowrisankaran, Project Manager - Hardware, NEC, Chennai delivered lecture on "Digital Transformations" on 05/06/2020.

Dr.Rajesh Kanawade, CSIR – Central Scientific Instruments Organization, Advanced Materials & Sensors Division (V4), Scientist "Light Applications in Sensing, Medical Diagnosis and Therapeutics" on 06/06/2020.

Mr.B.K.S.Gokul, Technical Leader, CISCO, Bengaluru delivered lecture on "Data Networking" on 06/06/2020.

Shri.R.Madhan, CSIR – Central Scientific Instruments Organization Senior Principal Scientist, National Institute of Oceanography (NIO), Goa, delivered lecture on "Marine Robotics, Design and Applications" on 13/06/2020.

Marine Robotics & Instrumentation
Marine Instrumentation Division
CSIR- National Institute of Oceanography , Goa
❑ Autonomous Underwater Vehicles (AUV)
❑ Autonomous Vertical Profilers (AVP)
❑ Seabed resident profiler

SESSION BY Shri MADHAN R (SPEAKER)

Shri.V.Appakutty, Technocrat & Lawyer delivered guest lecture on "Cyber Crime and Law" on 20/06/2020.

Events Organized

Dr.S.Muthukumar Professor, **Dr.R.Gayathri** Associate Professor, **Mr.S.P.Sivagnana Subramanian, Mrs.S.M.Mehzabeen, Ms.A.Bharathipriya** Assistant Professors, Department of Electronics and Communication Engineering organized two days workshop (webinar) on "Machine Learning in Computer Vision Applications" from May 12 to May 13 2020 at SVCE.

Dr.S.Muthukumar, Professor, **Mrs.D.Menaka, Mrs.K.Srividhya, Mrs.K.S.Subhashini, Mrs.S.Kalyani, Mrs.L.Anju, Mr.M.K.Varadarajan**, Assistant Professors, Department of Electronics and Communication Engineering organized one-week Faculty Development Program (webinar) on "Machine Learning for Signal Processing" from May 19 to May 23 2020 at SVCE.
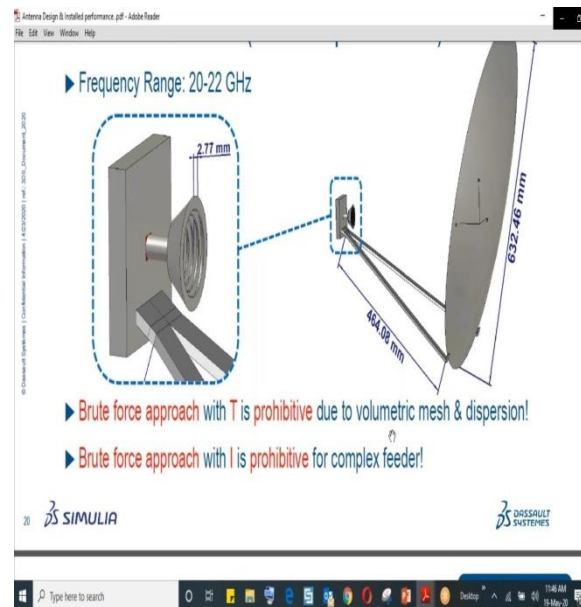
Dr.S.Muthukumar, Dr.G.A.Sathishkumar Professors, **Mrs.T.J.Jeyaprabha, Mrs.K.S.Subhashini, Mrs.R. Kousalya, Mrs.B.Sarala** Assistant Professors, Department of Electronics and Communication Engineering organized a Short-Term Training Program on "Blockchain Technology & Emerging Trends in Information Security" on May 15 2020 at SVCE.

Dr.S.Muthukumar, Dr.G.Padmavathi Professors, **Mrs.M.Vidhya, Mrs.S.Radhika** Assistant Professors, Department of Electronics and Communication Engineering organized a webinar on "5G Communications and Challenges" on May 20 2020 at SVCE.

Dr.S.Muthukumar, Professor, Dr.S.R.Malathi Associate Professor, **Mr.M.Athappan, Mrs.S.M. Mehzabeen** Assistant Professors, Department of Electronics and Communication Engineering organized a webinar on "Study of Cryptography, Network Security and Implementation of Algorithms in Hardware for Lightweight Applications" on May 14 2020 at SVCE.

Dr.S.Muthukumar Professor, Mr.P.Arul, Mr.P.Muthukumarn, Mr.G.Loganathan, Assistant Professors, Department of Electronics and Communication Engineering organized a webinar on "Data Science /Data Visualization" on June 4 2020 at SVCE.

Dr.S.Muthukumar, Dr.P.Jothilakshmi Professors**, Mr.S.Senthil Rajan, Mrs.B.Hemalatha Mrs.C. Gomatheeswari Preethika, Mr.N.Sathish** Assistant Professors, Department of Electronics and Communication Engineering organized a webinar on "3D EM Simulation Involving CST Studio Suite Software" from May 18 to May 19 2020 at SVCE.

Dr.S.Muthukumar, Professor**, Mr.P.Arul, Mr.P.Muthukumarn, Mr.G.Loganathan,** Assistant Professors, Department of Electronics and Communication Engineering organized a webinar on "Curriculum to Career-CTC" on June 14 2020 at SVCE.

Dr.S.Muthukumar Professor, **Mrs.D.Menaka**, **Mrs.K.Srividhya**, **Mrs.S.Kalyani**, **Mrs.L.Anju**, **Mr.M.K.Varadarajan** Assistant Professors, Department of Electronics and Communication Engineering organized webinar on "Mathematics of the Moon and Connections to Engineering" on May 12, 2020, at SVCE.

Dr.N.Kumaratharan Professor, Department of Electronics and Communication Engineering organized webinar on "Skills Required for Engineers in the post Covid-19 era" on May 18 2020 at SVCE.

Dr.S.Muthukumar Professor, Mrs.D.Menaka, Mrs.K.Srividhya, Mrs.S.Kalyani, Mrs.L.Anju, Mr.M.K.Varadarajan Assistant Professors, Department of Electronics and Communication Engineering organized webinar on "3D World Modelling using Python" on June 13 2020 at SVCE.

ECE Association, IETE - SF & Robotics & Artificial Intelligence Club (RAIC) from the 5th to 10th May 2020, conducted a 5-day online event 'QUARANTBUSTER'.

ECEA & IETE organized TechNEXT – A National Level Technical Event with 4 Webinars and Paper Presentation from June 3rd to 7th June 2020.