



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

NEWSLETTER

2018 – 2019

Academic Year

**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION
ENGINEERING**

About the Department:

Year of Establishment: 1991

The Department of Electronics and Communication Engineering (ECE) was established in 1991 and offers one UG Program, three PG programs and Doctoral Programs. The B.Tech ECE program of Kattankulathur campus of SRM Institute of Science and Technology (SRMIST) is accredited by ABET, USA. ECE is a swiftly advancing field, with new ideas emerging every other second. From mobile phones to fiber optics and remote sensing, there are exciting avenues to explore and create. The ECE department at SRMIST prepares students for careers in this constantly evolving discipline.

ECE Dept. has well equipped labs and has ample resources in computing equipment, including personal computers running the full suite of Ansys HFSS, Keysight ADS, CADENCE, OrCAD, MATLAB and Network Simulation Software. It has USRP-RIO SDR hardware, Vector Signal Generator & Analyzer, Network Analyzer. It received significant research grants from Department of Science and Technology (DST) under Funds for Improvement of Science and Technology (FIST). Received funded research grants from Defence Research and Development Organization (DRDO), Board of Research in Nuclear Science (BRNS) and Indian Space Research Organization (ISRO). Also received, Full-Time & Part-Time Fellowships under Visvesvaraya PhD Scheme for Electronics & IT from MeityGoI. The department has strong collaboration with industries and reputed institutes.

Accreditations

NAAC, AICTE and ABET, USA.

Collaborations

1. NuvoTon Semiconductor Corporation (P) Ltd., Taiwan.
2. Central Electronics Engineering Research Institute (CEERI) Chennai.
3. Samsung Research Institute – Bangalore. (SRI-B)
4. Raising Stars Mobile India Pvt. Ltd, Chennai.

Programs Offered by the Department

UNDERGRADUATE B.Tech	➤ Electronics and Communication Engineering
	➤ ECE with specialization in Biomedical Engineering
	➤ ECE with specialization in Instrumentation Engineering
	➤ Electronics and Computer Engineering
POST GRADUATE M.Tech	➤ Embedded Systems Technology
	➤ VLSI Design
	➤ Wireless and Mobile Communication Systems
	➤ Telecommunication Networks

Scope of Electronic and Communication Engineering

All the ECE B.Tech programs offers students the opportunity to work in many technical fields. ECE offers depth in a wide range of subjects that will open doors to many careers which include Electronics, Embedded Systems, VLSI, Information Technology, RF and Wireless Communications, Digital and Analog Electronics, Artificial Intelligence, Machine Learning and Software and Hardware Engineering domains.

Upcoming Trends in Electronics and Communication Engineering

With the aid of New Generation Communication Networks, ECE will go leaps and bound with upcoming areas of Organic Electronics, Flexible RF Electronics, Photonic Communications, Molecular Communications and Quantum Circuits and Communications.

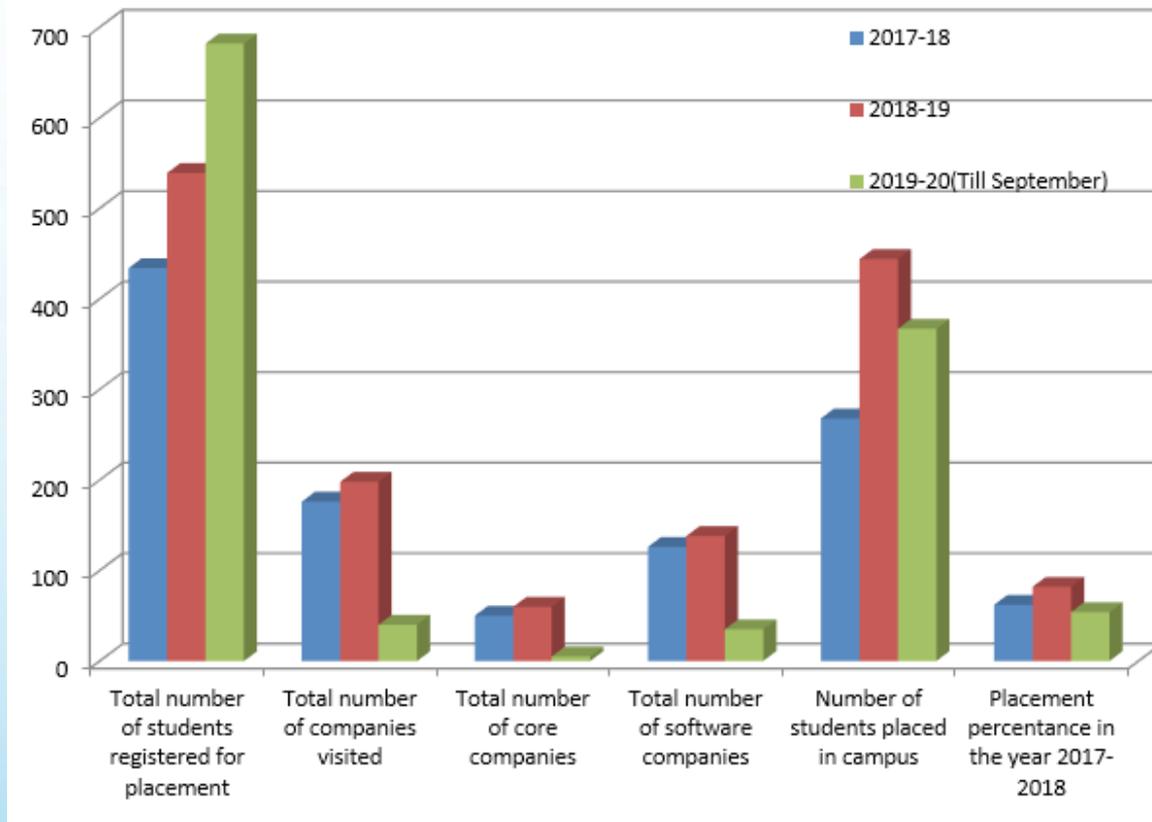
Demand and Job Opportunities

Potential employers include TCS, Infosys, Wipro, Intel, L&T, ARM, Microsoft, IBM, Cisco, Oracle, Orange, Sun, Altera, Xilinx and many start-up companies.

Further, all ECE programs will make students to get needed fundamental and in-depth of the subjects which will help them to land in Abroad for higher studies as well.

Placement details for past three years

Placement details for the academic year	2017-18	2018-19	2019-20 (Till September)
Total number of students registered for placement	434	539	682
Total number of companies visited	176	198	40
Total number of core companies	50	60	5
Total number of software companies	126	138	35
Number of students placed in campus	268	444	367
Over all Placement	62 %	82 %	54 %



Patents – Granted:

- Title : **Multiband Reconfigurable Microwave Filtenna**

US Patent No. 10333225; Published and Granted on 25 Jun 2019,

Inventor: Dr. Sandeep Kumar Pand Dr. T. Rama Rao,

Patents – Filed / Published:

- Title: **An Indian Patent filed: A System and Method for Self Diagnosis and Mitigation of Hardware Impairments In Wireless Transceivers,**

Application#: 201841025130, Date of Filing: July 05, 2018 (PhD work)With Machine learning algorithm of SVM and Neural network.Inventor: Dr. P. Vijayakumar

- Title: **An Indian Patent filed: A system and method for achieving higher spectral and energy efficiency in index modulation transceiver,** Application#: 201841035475 and Date of Filing: September 20, 2018. Inventor: Dr. P. Vijayakumar

- Title :**A system and method for self diagnosis and mitigation of hardware impairments in wireless transceivers.** Inventor : Dr. S. Malarvizhi

- Title :**A system and method for achieving higher spectral and energy efficiency in index modulation transceivers.** Inventor : Dr. S. Malarvizhi

- Title :**A System and Method for Remote Surveillance**

Inventors:Dr. S. Dhanalakshmi, Dr.Kumar Ramamoorthy, Utkarsh Goel, Pradyumna Hegade, Ayushi Kandoi,Venkata Harshavarshan Reddy Allu

- Title : **System and Method For Nyquist Pulse Generation Based on Microring Resonator**
Patent Application No. 201841048886 and Date of Filing: December 24, 2018
Inventors : Dr. Shanthi Prince, Mr. RohanKatti
- Title :**A System And Method For Transmitting A Radio-Frequency Signal Over A Channel**
Inventors:Aman Malhotra; Harshit Gaur; M. Sangeetha
- Title : **A System And Method For Fabrication Of Polymer Coated Salinity Sensor**
Published : 8.3.19. Inventor : Dr. S. Dhanalakshmi
- Title : **Tunable Band Notched Filtenna**”, June 2018 – 201841021702
Inventor: Dr. Sandeep Kumarand Dr. T. Rama Rao,
- Title:”**Multiband Folded Antenna for Tablet Computers**”, October 2018 - 201841039028
Inventor: Dr. Sandeep Kumarand Dr. T. Rama Rao,
- Title : **An Optical Wireless Charging And Data Transfer Apparatus**
Patent application No. 201841037196 & Date 02.10.2018
Inventors : Dr. C. T. Manimegalai , Dr. SabithaGauni , Dr. K. Kalimuthu
- Title :**Wireless System for Communication Between Program Logic Controller and Field machines.**
Patent Application No : 201841032383 and Date of filing : 29.08.2018
Inventor : Mrs. Showme
- Title : **A System and method for remote surveillance**
Patent Reference No: R20104033966 dated 20.11.2018
Inventor : Dr. R. Kumar
- Title :**An Affordable Communication Equipment / Warning System For Indian Fishermen**
Patent application no: 201941010115 Date: 15.03.2019
Inventor : Dr. Diwakar R. Marur
- Title: **A System And Method for Identification and Classification of Objects**
Patent Application No. 201841040004 and Date of filing 23.10.2018
Inventors: Dr. Shanthi Prince, Mr. K. S. SaiVineeth , Mr. V. Phaneendhra
- Title: **A Digital Assistant for Knowledge Development in a Special Child**
Patent Application No. 201941006708 and Date of filing 20.02.2019
Inventors: Dr. Shanthi Prince, Mr. K. S. SaiVineeth , Mr. V. Phaneendhra

- Title: **A Jamming Detection System For A Wireless Sensor Network (WSN) : Proposed Provisional Application for “An adaptive neuro fuzzy logic based jamming detection system in WSN** Patent application No: 201941038132 ;Date of Filing: 21.09.2019,
Inventors: Vijayakumar, Kedalupoonrnachary; Pradeep Mohan Kumar Kanagasabapathy; Kottilingam Kottursamy; Karthick Thiyagarajan; Arivazhagan Natesan; Vijayakumar Ponnusamy; Ganeshkumar Perumal
- Title: **An Affordable Communication Equipment / Warning System For Indian Fishermen**
Inventors: Diwakar R. Marur, Ignatius Michael Jihan, Himanshu Tanwar,
Patent Application No. 201941010115, dated 15.03.2019.

Funded Projects:

- DST-FIST2018 funding for Photonic Communications – 1.65 Crores

Prof. Dr. T. Rama Rao

- DRDO Sponsored Research Project: “Design & Development of Flexible, High Performance On-Body Antennas for Wearable Wireless Devices” for 3 years 2016-2019 with 66 Lakhs funding.
- ISRO – Respond Sponsored Project: “ALTS Antenna Array for Inter-Satellite Wireless Communications” for 3 years 2016-2019 with 24 Lakhs funding

Dr. S. Malarvizhi

- Real time Hardware based Raw Data Processing for Dual energy X-Ray Baggage Inspection Systems (XBIS) for the Detection of Hazardous Materials - funded by BRNS- 2017 to 2020.

Dr. R. Kumar

- R &D Project :Design and Development of Fiber Optic Sensors (FOS) for Remote and Real Time Detection of Gamma Rays from Different Radioactive Elements
- Logiswaram-Logistics using semi-automated multi-robot systems.

Dr. T. Deepa

- Reverse Osmosis Plant for rural water treatment - Technology Development / Customization proposal to be implemented in the selected villages of UBA program has been approved and the fund noted 50000/- INR has been received. (**Completed: 1st November 2019 at SRM adopted village Orathur**).
- High Speed Data Transmission System through Visible Light Communication (VLC) that was selected under Tamil Nadu State Council for Science and Technology – Student Project Scheme (2018-19) for grant release of 7500/- INR. (**Completed: July 2018**)

Dr. Shanthi Prince

- DRDO – Naval Research Board - Principal Investigator of the Project titled, “Optical Wireless communication for underwater data muling and positioning in underwater sensor application,” received a fund of Rs. 33.96 lakhs, for a duration of 3 years, 2019.
- ISRO – RESPOND - Principal Investigator of the Project titled, “Wireless optical signaling based Inter-satellite tracking and monitoring for high data rate Communication”, received a fund of Rs. 26.08 lakhs, for a duration of 2 years, 2017.

Dr. Bandaru Ramakrishna

- Design and develop a finger toothbrush with micro motion for early childhood caries management, Amount INR 70,000, Project duration 24 months. (Oct 2018-ongoing).

Dr. M. Sangeetha

- Water Quality Measurement and Monitoring System, Amount : INR 48,000 – Internal Fund.

Dr. C. T. Manimegalai

- DST-WOS-A and Project Reference No. SR/WOS-A/ET-57/2017

Dr. P. Vijayakumar

- Grant 1 lacks received for the project “End-To-End Integrated Rationing System for Distribution of Provisions”, AISHE Code: U-0473,26/07/2019, IIT Delhi under the UBA program with students robin Biju Thomas ,Manvi Dave ,Shriya Kapoor and Rohit K.V.S.S.

Dr. P. Malarvezhi

Smart Attendance System - Funded by New Gen IEDC SRM for the worth of 2.50 lakhs (2019-2020)

SCI Publications with IF:

1. “Reinforcement learning algorithm for 5G indoor device-to-device communications”, Sreedevi, A. G., and T. Rama Rao. Transactions on Emerging Telecommunications Technologies 30.9 (2019): e3670. **(SCI IF : 1.61)**.
2. “Device-to-Device Radio Link Analysis at 2.4, 3.4, 5.2, 28 and 60 GHz in Indoor Communication Environments.”, Sreedevi, A. G., T. Rama Rao, and M. Susila. Frequenz 73.3-4 (2019): 131-141. **(SCI IF : 0.595)**.
3. “Tunable Band-Notched High Selective UWB Filtering Monopole Antenna.”, Kingsly, S., Thangarasu, D., Kanagasabai, M., Alsath, M.G.N., Palaniswamy, S.K., Rao, T.R., Subbaraj, S., Selvam, Y.P., Sambandam, P. and Ganesan, G, IEEE Transactions on Antennas and Propagation 67.8 (2019): 5658-5661. **(SCI IF : 4.435)**
4. “Characterization of Process Induced Non-Uniformity Using Asymmetric Metal Insulator Semiconductor Capacitive Test Structure”, R. Agarwal, IEEE Transactions on Electron Devices, vol. 66, no. 9, pp.3940-3945, Sept 2019 **(SCI IF : 2.704)**
5. “Threshold voltage extraction for organic thin film transistor in linear region using asymmetric metal insulator semiconductor capacitive test structure”, R. Agarwal, Semiconductor Science and Technology, vol. 34, no. 9, Sept 2019 **(SCI IF : 2.654)**
6. “Ambient noise analysis in underwater wireless communication using laser diode”, Krishnan, Kalimuthu, Sabitha Gauni, C. T. Manimegalai, and V. Malsawmdawngliana, Optics & Laser Technology 114 (2019): 135-139. **(SCI IF : 3.5)**
7. “Design and simulation of all-optical precoder for differential quadrature phase shift keying (DQPSK) modulator”, Manohari, R., Shanthi Prince, and Satyasai Sribhashyam. Analog Integrated Circuits and Signal Processing 98.2 (2019): 299-310. **(SCI IF : 0.8)**
8. “photonic bandgap in multilayered quasiperiodic and random extrinsic magnetized plasma” C, Nayak,

C H Costa, A Aghajamali, , IEEE Transactions on Plasma Science, Vol. 47, no. 4, pp. 1726-1733, 2019. (SCIIF : 1.325)

9. ‘Low Power & High Gain Differential Amplifier Using 16nm Finfet’, J.K Kasthuribah, P. Aruna Priya, *Microprocessors and Microsystems*, Volume 71, November 2019, 102873(**SCI, IF- 1.04**)
10. “Optimization of electric field enhancement of Ag@SiO₂ trimer nanospheres by finite difference time domain method”, Anitharaj Nagrajan, Aruna Priya P, Pandian Chelliah , Hiroaki Satoh, Hiroshi Inokawa, August 2019, *Applied Surface Science* 495:143547 **SCI, IF- 5.155**
11. “A Gradient-Based Interior-Point Method to Solve the Many-to-Many Assignment Problems”, Nitish Das, P. Aruna Priya, July 2019, *Complexity*,1-13 **SCI-E, IF- 2.4**
12. “C.Vimala, P. Aruna Priya, “Artificial neural network based wavelet transform technique for image quality enhancement”, *Computers & Electrical Engineering*, Volume 76, June 2019, Pages 258-267
SCI-E, IF- 2.4
13. “FPGA Implementation of an Improved Reconfigurable FSMIM Architecture Using Logarithmic Barrier Function Based Gradient Descent Approach”, Nitish Das, P. Aruna Priya, April 2019, *International Journal of Reconfigurable Computing* 2019:1-17
14. , “Wavelet transform approach for image processing – A research motivation for engineering graduates”, C.Vimala, P. ArunaPriya, C. Subramani, *International Journal of Electrical Engineering Education*, January 30, 2019 , DOI:10.1177/0020720919825815. **SCI-E, IF- 0.94**
15. “Extrinsic magnetized plasma Fabry-Perot resonator”, C Nayak, A Aghajamali and D P Patil, *Indian Journal of Physics*, Vol. 93, no. 3, pp. 401-406, 2019. (SCI IF : 1.242).
16. “Fiber optic sensors in Ocean observation: A comprehensive Review”, C.R.Umakumari, DhanalakshmiSamiappan, Kumar.R and Tata Sudhakar, *International Journal for Light and ElectronOptics*,Vol.179,pp. 351-360, 2019. (SCIIF : 1.191)
17. “Compact Dual-band Hybrid-Fractal MIMO System for UMTS and LTE Mobile Applications”, Prabhu, P., and S. Malarvizhi., *Applied Computational Electromagnetics Society Journal* 34.1 (2019). (SCIIF : 0.59)
18. “Wavelet Transform Approach For Image Processing – A Research Motivation for Engineering Graduates”, Vimala.C, P. ArunaPriya, *International Journal of Electrical Engineering Education*”, January 30, 2019. (SCIE IF : 0.941)
19. “Heart Rate Estimation Method FromPhotoplethysmographic Signals with Motion Artifacts Using Fourier-Sparse Dual Optimization”, Remya Raj, J. Selvakumar, VivekMaik, *IEEE Sensors Journal*, Accepted for publication, 2019. (SCI IF : 3.08)
20. “Characterization and modeling of dual material double gate tunnel field effect transistor using superposition approximation method”,Maria Jossy A, Vigneswaran T, Malarvizhi S, Nagarajan K.K *Concurrency and Computation: Practice and Experience* 31.14 (2019): e4860. (SCIIF : 1.167)
21. “Design of Software Defined Networking Gateway for the Internet-of-Things”, Bevi, A. Ruhan, P. Shakthipriya, and S. Malarvizhi. *Wireless Personal Communications* (2019): 1-15. (SCIIF : 0.929)
22. “Performance Analysis of Digitized Orthogonal Frequency Division Multiplexing System for Future Wireless

- Communication”, T Deepa, HarshitaMathur, *Wireless Personal Communications*, August 2019. <https://doi.org/10.1007/s11277-019-06678-3>. (SCI IF : 0.929)
23. “A novel encrypted compressive sensing of images based on fractional order hyper chaotic Chen system and DNA operations”, Kayalvizhi, S, and S. Malarvizhi, *Multimedia Tools and Applications* (2019): 1-18. (SCIIF : 2.101)
 24. “Artificial Neural Network based Wavelet Transform Technique for Image Quality Enhancement”, Vimala.C, P. ArunaPriya, *Computers and Electrical Engineering*, 76 pp.258-267, 2019. (SCIE IF : 2.189)
 25. “Investigation of Goodness of Model data Fit using PLSR and PCR Regression Models to determine informative wavelength band in NIR region for non-invasive blood glucose prediction”, S.VasanthadevSuryakala, Shanthi Prince , *Journal of Optical and Quantum Electronics*, 51: 271, 2019. (SCI IF : 1.547)
 26. “An Algorithm to Identify Syllable from a Visual Speech Recognition System”, J. Subhashini and C. Manojkumar, *Wireless Personal Communications*, vol. 107, no. 4, pp. 2105-2121, 2019. (IF:0.929)
 27. “On the Bending and Time Domain Analysis of Compact Wideband Flexible Monopole Antennas”, M Susila, Sandeep Kumar P, T. Rama Rao, K Malathi, B N Balarami Reddy and Sachin Kumar, *AEU - International Journal of Electronics and Communications*, Vol.101, pp. 168-181, 2019. (SCIIF : 2.853)
 28. “Direct driven wind energy conversion system connected to load using variable frequency transformer”, Vijayalakshmi, S., Anuradha, C., Ganapathy, V., &Padmajothi, V. (2019). *The International Journal of Electrical Engineering & Education*, 0020720919829011.(SCIIF : 0.5)
 29. “Optimization of electric field enhancement of Ag@ SiO₂ trimernanospheres by finite difference time domain method”, Nagarajan, A., Panchanathan, A. P., Chelliah, P., Satoh, H., &Inokawa, H. *Applied Surface Science* 495 (2019): 143547. (SCIIF : 5.4)
 30. “Three Dimensional Analysis of SPECT Images for Diagnosing Early Parkinson’s Disease using Radial Basis Function Kernel– Extreme Learning Machine”, Anita, S., &Priya, P. A, *Current Medical Imaging Reviews*, (2019), 15(5), 461-470. (SCIIF : 0.55) **SCI-E, IF- 0.299**
 31. “A Gradient-Based Interior-Point Method to Solve the Many-to-Many Assignment Problems”, Complexity 2019 Das, Nitish, and P. ArunaPriya, (2019). (IF : 2.5)
 32. “Fusion of WPT and MFCC feature extraction in Parkinson Disease diagnosis”,HarisudhaKuresan, DhanalakshmiSammiappan, Sam Masunda, *Technology and Health Care*, Volume 27, Issue 4, March 2019, Pages 363-372. (SCIE IF : 0.787)
 33. “ Computational analysis of thermally induced stress in corrosion-resistant metal coated fiber optic sensors for oceanographic application”, Uma Kumari.C.R, DhanalakshmiSamiappan, *Optik-International Journal for Light and Electron Optics*, Elsevier <https://doi.org/10.1016/j.ijleo.2019.163097>, October 2019, 163097 (SCI IF : 1.914)
 34. “Enhancing Sensitivity of Fiber Bragg Grating-based Temperature Sensors through Teflon Coating” Samiappan, D., Kesarikiran, A. V. S., Chakravartula, V., Kumari, C. U., Shubham, K., Aakash, B., & Kumar, R. *An International Journal Wireless Personal Communications*, September 2019. <https://doi.org/10.1007/s11277-019-06744-w> (SCI IF : 0.951)
 35. “Near- and Mid-infrared tunable bandgaps in a 1D superconductor-semiconductor metamaterial photonic crystal”, C Nayak, A Saha, A Aghajamali, N Das: *International journal of modern physics B* (Accepted for publication, 21 June 2019) (SCI IF : 0.863).

36. "Bio-inspired Cooperative Diversity Link in Underwater Optical Wireless Communication", Venkatesh, DhanalakshmiSamiappan, Optics and Laser Technology, Volume 116, August 2019, Pages 180-188 (SCI IF : 3.319)
37. "Underwater Image Restoration based on Diffraction Bounded Optimization Algorithm with Dark Channel Prior", Ajisha, DhanalakshmiSamiappan, Optik-International Journal for Light and Electron Optics, Elsevier, Volume 192, September 2019, Article number 162925 (SCI IF : 1.914)
38. "U-bent plastic optical fiber probes as refractive index based fat sensor for milk quality monitoring", A. Gowri, Allwyn S. Rajamani, Bandaru Ramakrishna, V.V.R. Sai, Journal of Optical Fiber Technology, 47, January 2019, 15-20.(SCI IF : 1.824)
39. "Inner-gate-Engineered GAA MOSFET to Enhance the Electrostatic Integrity", B. Jena, S. Dash, S. Routray, G. P. Mishra *Nano*, vol. 14, no.10, 2019. (SCI IF: 1.293)
40. "Effect of degree of strain relaxation on polarization charges of GaN/InGaN/GaN hexagonal and triangular nanowire solar cells", S. R. Routray, T. R. Lenka, *Solid-State Electronics*, vol.159, pp. 142-149, March 2019. (SCI IF: 1.492)
41. "An Adaptive Neuro Fuzzy Logic based Jamming Detection System in WSN", Soft Computing, Vijayakumar KP; Pradeep Mohan Kumar K; Kottilingam K; Karthick T; Ganeskumar P; Vijayakumar P, Issue 8/2019.(SCI IF : 2.367)
42. "Super Wideband (SWB) Fractal Based Flexible Monopole Antenna for Ultra Wideband (UWB) Applications", Sandeep Kumar Palaniswamy, Malathi Kanagasabai, Geetha Ganesan, K Indhumathi, Ak Shrivastav, Journal of Active & Passive Electronic Devices, (2019)Vol.14,pp.45-53,(SC IE)
43. "Bandwidth Reconfigurable Filtering Antenna", Deepa Thangarasu, Saffrine Kingsly, Malathi Kanagasabai, GulamNabi Alsath, Padmathilagam Sambandham, Sridhar Bilvam, Sandeep Kumar Palaniswamy, T. Rama Rao., Wireless Personal Communications, Vol.105, pp.1545-1560(Feb 2019) (SCIIF 1.2)
44. "Performance enhancement and signal integrity analysis of multiband MIMO antenna for handheld electronic devices", Sangeetha Subbaraj, Padmathilagam Sambandham, Malathi Kanagasabai, Mohammed Gulam Nabi Alsath, Sandeep Kumar P, Indhumathi Kulandhaisamy, Saffrine Kingsly, Yogeshwari Panneer Selvam, Deepa Thangarasu, IET Microwaves, Antennas & Propagation, Vol.13, pp.631-641,(Feb 2019) (SCI IF 2.036)
45. "Investigations of Specific Absorption Rate and Temperature Variations for an UWB Antenna for Wireless Applications" Mohandoss Susila, T. Rama Rao, Karthik Varshini, Sandeep Kumar P, Marudappa Pushpalatha, Progress In Electromagnetics Research M, Vol.78, pp.83-92,(Jan2019) (SCI IF 0.504)
46. "Polarization Charges in High Performance GaN/InGaN Core/Shell Multiple Quantum Well Nanowire for Solar Energy Harvesting", S. R. Routray, T. R. Lenka, IEEE Trans. on Nanotechnology, vol. 17, no. 6, pp. 1118-1124, June 2018. (SCI IF: 2.857)
47. "Tunable Band Notched High Selective UWB Filtering Monopole Antenna", Saffrine Kingsly, Deepa Thangarasu, Malathi Kanagasabai, M Gulam Nabi Alsath, Sandeep Kumar Palaniswamy, T. Rama Rao, Sangeetha Subbaraj, Yogeshwari Panneer Selvam, Padmathilagam Sambandham, Geetha Ganesan, IEEE Transactions on Antennas and Propagation, Vol.67, pp.5658-5661,(June2019) (SCI IF 4.13)

48. "Design And Analysis Of Quadrifilar Helical Antenna For Cube-Sats Using C-Band Frequency Range For Satellite Communication", Pinku Ranjan, Mihir Patil, Amit Bage, Brajesh Kumar, Sandeep Kumar Palaniswamy, *Facta Universitatis, Series: Electronics and Energetics*, Vol.32, pp.239-247, April 2019 (SCIE)
49. "An integrated tri-band/UWB polarization diversity antenna for vehicular networks" M Gulam Nabi Alsath, Henridass Arun, Yogeshwari Panneer Selvam, Malathi Kanagasabai, Saffrine Kingsly, Sangeetha Subbaraj, Ramprabhu Sivasamy, Sandeep Kumar P, Rajesh Natarajan, *IEEE Transactions on Vehicular Technology*, Vol.67. pp.5613-5620. (July2018) (SCI IF5.339)
50. "A low profile circularly polarized UWB antenna with integrated GSM band for wireless communication" Sachin Kumar, Kang Wook Kim, Hyun Chul Choi, Shobhit Saxena, Rahul Tiwari, Mukesh K Khandelwal, Sandeep Kumar P, BK Kanaujia, *AEU-International Journal of Electronics and Communications*. Vol.93. pp.224-232 (Sept.2018) (SCI IF2.85)
51. "Fractal based ultra-wideband antenna development for wireless personal area communication applications" Susila Mohandoss, T. Rama Rao, Bobbili Naga Balarami Reddy, Sandeep Kumar Palaniswamy, Pushpalatha Marudappa, *AEU-International Journal of Electronics and Communications*, Vol.93. pp95-102 (Sept.2018) (SCI IF2.85)
52. "Multiband reconfigurable filtering monopole antenna for cognitive radio applications", Saffrine Kingsly, Deepa Thangarasu, Malathi Kanagasabai, Mohammed Gulam Nabi Alsath, T. Rama Rao, Sandeep Kumar P, Padmathilagam Sambandam, *IEEE Antennas and Wireless Propagation Letters*. Vol.17. pp1416-1420. (Aug2018) (SCI IF3.51)
53. "A digitized universal filtered orthogonal frequency division multiplexing for next generation communication applications", Deepa, T., and T. Rama Rao, *Computers & Electrical Engineering* 72 (2018): 939-948. (SCI IF: 2.189).
54. "Multiband reconfigurable filtering monopole antenna for cognitive radio applications.", Kingsly, S., Thangarasu, D., Kanagasabai, M., Alsath, M. G. N., T. Rama Rao., Palaniswamy, S. K., & Sambandam, P, *IEEE Antennas and Wireless Propagation Letters* 17.8 (2018): 1416-1420. (SCI IF : 3.51).
55. "SAR investigations on the exposure compliance of wearable wireless devices using infrared thermography", Karthik, Varshini, and T. Rama Rao., *Bioelectromagnetics* 39.6 (2018): 451-459. (SCI IF:2.0).
56. "Floating Drain Based Measurement of On-State Voltage of an OTFT for Sensing Applications", R. Agarwal and B. Mazhari, *IEEE Transactions on Electron Devices*, vol. 65, no. 8, pp. 3460-3465, Aug.2018 (SCI IF : 2.704).
57. "Printed Planar Monopole Antenna Design for Ultra-Wideband Communications", M. Neelaveni Ammal, B. Ramachandran, and P.H. Rao, *Radioelectronics and Communications Systems*, Vol. 61, No. 6, pp 267-273, Allerton Press Inc., 2018. (SCI IF : 0.167)
58. "Module Based Floorplanning Methodology to Satisfy Voltage Island and Fixed Outline Constraints" Srinath Balasubramanian, Aruna Priya P, Bharatiraja Chokkalingam, Sanjeevikumar Padmanaban, and Zbigniew Leonowicz, *Electronics* 2018, 7, 325; doi:10.3390/electronics7110325
59. "Improved classification accuracy for diagnosing early stage of Parkinson's disease using 3D SPECT images", S. Anita, and P. Aruna Priya, *Romanian journal of information science and technology*, Vol. 15(3), pp.55-69, 2018. (SCI-E, IF- 0.344)

60. "Sub- Band Filters in Universal Filtered Multi carrier Tran receivers for Cognitive radio Network", R.Dayana, R.Kumar, Wireless Personal Communication, Vol.103(2), pp. 1587-1602, 2018. **(IF : 1.2)**
61. "A Diversity Enhanced-Particle Filter based Multiple Carrier Frequency Offset Estimation Using Hadamard Matching in CA-OFDM Based LTE-A System", Malarvezhi.P, R.Kumar, Wireless Personal Communications, Vol. 101(1), pp. 87- 99, July 2018. **(IF : 1.2)**
62. "Design of a TAS-STBC-ESM (F) Transceiver and Performance Analysis for 20 bpcu", Neduncheran, ArumbuVanmathi, MalarvizhiSubramani, and VijayakumarPonnusamy, IEEE Access 6 (2018), 17982-17995. **(IF : 4.098)**
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49. T. Rama Rao, NisheshTiwari, K V. Phani Kumar and Sandeep Kumar P , "Design of Antipodal Linear Tapered Slot Antenna for X Band Communications", WPMC 2018 - 6th Global Wireless Summit (GWS -2018) Chiang Rai, Thailand, November 25 – 28, 2018
50. Aravindan. M, Paper titled "Indoor Localization Based on Wireless Local Area Network Fingerprint Technique", INTELINC'18, September 2018
51. C Jiji, VivekMaik, "Underwater turbidity removal through ill-posed optimization with sparse modeling", IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI) , June 2018, Bangalore, India 10.1109/ICPCSI.2017.8392039 ISBN: 978-1-5386-0814-2 (SCOPUS)
52. .VivekMaik, Hasil Park, Jinho Park, Heegwang Kim, Youngsik Know , Joonki Paik , "Atmospheric light estimation using fog line vector for efficient defogging without color distortion" , 2018 International Conference on Electronics, Information, and Communication (ICEIC),24-27 Jan. 2018, Honolulu, HI, USA, 10.23919/ELINFOCOM.2018.8330579 , ISBN: 978-1-5386-4754-7(SCOPUS).
53. Manikandaswamy S, "Multiple Motion Control System of a Rover based on IoT to produce cloud service" , National Conference on Recent Trends in Technology (NCRTIT '18), April 07, 2018.
54. Manikandaswamy S, "An Efficient method to identify the vehicle using Artificial intelligence", International Conference on Innovations & Discoveries in Science, Engineering & Technology (ICIDSET-18), April 17-18, 2018.
55. T Goutham Sharma , NityaKritinValivati , ArvindPuthige and UnnikrishnanHari, "Object Position Estimation Using Stereo Vision", 2018 IEEE 8th International Advance Computing Conference(IACC)-Publisher: IEEE

56. Susila. M, “Optimization for Wi-Fi Access Point in Indoor Environment
57. .Nithin, Naveen Kumar R, Abirami, Akila, SuhasiniSathiyamoorthy, R. Kumar, PandiyarasanVeluswamy,” Design Optimization of Thermoelectric Generator Module Towards Geometric Aspect” National Conference on Power, Circuit and Sustainable Energy systems, PCSES 25th Apr and 26th Apr 2019, SRM IST, Chennai.
58. .K. Ramesh, MARC 2018, ‘Locating Wire Fault in Controller Area Network based on Kelvin (4-Wire) Resistance Approach.
59. Karpe, K., Samiappan, D., Ramamoorthy, K., Sabattini, L. “Perturbation Analysis of Decentralized Estimators”, IEEE International Conference on Robotics and Biomimetics, ROBIO 2018, 8665166, pp. 2373-2378.
60. Anitharaj Nagrajan, Sam Richard Cornelious, **Aruna Priya P**, “ Electric Field Enhancement of Hexagonal Core-shell Nanoclusters”, January 2019, *Conference: 5th International Conference on Nanoscience and Nanotechnology (ICONN 2019)*, India.
61. Anitharaj Nagrajan, Shusuke Hara, Hiroaki Satoh, **Aruna Priya P**, , Hiroshi Inokawa, Shizuoka University, “Analysis of directivity for SOI photodiode with gold hole array surface plasmon antenna by FDTD analysis”, January 2019, *5th International Conference on Nanoscience and Nanotechnology (ICONN 2019)*, India
62. Anitharaj Nagrajan, Shusuke Hara, Hiroaki Satoh, **Aruna Priya Panchanathan**, SRM Institute of Science and Technology, Hiroshi Inokawa, Shizuoka University, “Directivity of SOI Photodiode with Gold Surface Plasmon Antenna”, June 2019, Conference: 2019 Silicon Nanoelectronics Workshop (SNW), Japan,
63. Anitharaj Nagrajan, Shusuke Hara, Hiroaki Satoh, **Aruna Priya P**, Hiroshi Inokawa, Shizuoka University, “Numerical study of the azimuth-elevation angle dependences of SOI photodetector for lensless imaging”, *The 5th International Symposium toward the Future of Advanced Researches*, March 2019, Shizuoka, Japan

Workshop Organized:

Naval Research Board, DRDO Sponsored All India Two Day Technical Workshop on Challenges & Research Opportunities In Underwater Communication-20th and 21st September, 2019-Organized by Dr.S. Dhanalakshmi



Dr. BalajiSrinivasan, Professor at Fiber Lasers and Sensors Group in Department of Electrical Engineering, IIT Madras. &Dr. C. V. K. PrasadaRao, Former Scientist at NPOL (DRDO), Kochi and Chairman of OEP (NRB), DRDO, New Delhi delivered the special address.

TEKMUX 2019 - SRMIST -23rd and 24th of August '2019-Organized by Mrs. S. VasanthadevSuryakala& Dr. K. Kalimuthu



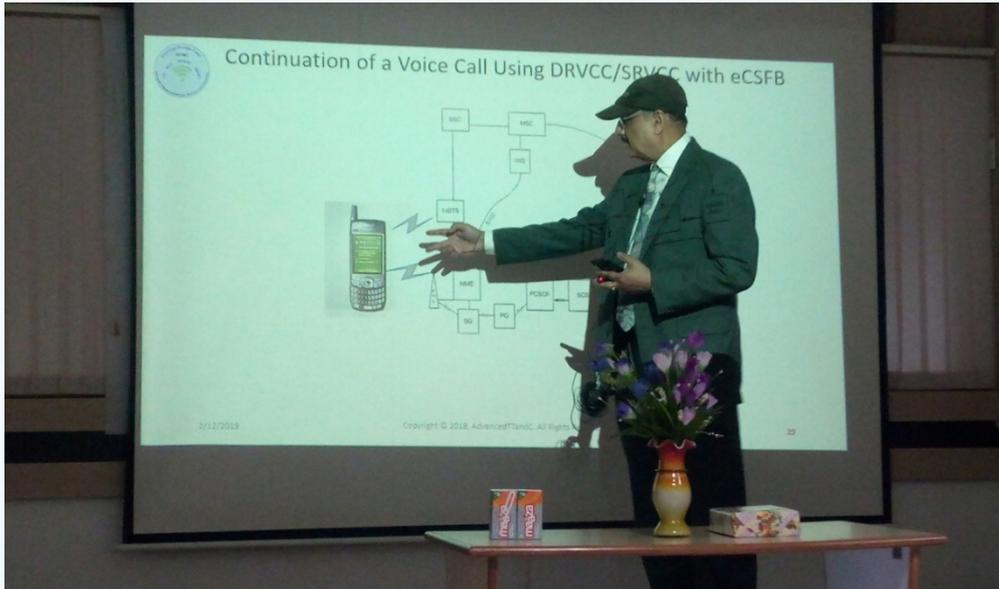
Tekmux, is a Technical multidisciplinary event organized by the Aakash research labs, a remote lab of IIT Bombay

Current Trends in VLSI Testing and Design during July 12-13, 2019-Organized by Dr.E. Chitra& Dr.V. Sarada



Tech Talk & Hands-on training on Recent Advancements in the Area of Physical Design by Mr. Hiram Prasanna, Director, Altran and Ms. Anitha Stalin, Senior Project Manager, Altran, Chennai

IETE Students Forum (ISF), 12th February 2019- Organized by Dr. V. Nithya



Mr. Rajesh Kannan, BSNL, RTTC, Maraimalai Nagar has addressed the students on the topic Network and cyber security

STTP on VLSI and Embedded systems for IoT applications 30-Oct-2018 to 03-Nov-2018 –Organized by Dr. J. Selvakumar& Dr. Subhashini. J



Dr. Rohit Sharma, IIT Ropar&Mr. Udaykadam, Engineer from Cadence, Bangalore gave insights to “EDA challenges for 3D ICs designs”

Hands-on Tutorials/Workshop on IoT for Drone Applications, (5-6) October 2018 –Organized by

Dr. M. S.Vasanthi& Dr. Sandeep Kumar



The Workshop was inaugurated by Mr. Malay Harsha and Mr.MunirMohammed of IEEE.

Machine learning for Intelligent Speech and Image Processing- MLSIP 2018”, on September 28th and 29th,2018

Organized by Dr. S. Dhanalakshmi



Chief guest Er.R.Ramdoss, Honorary secretary, IEI, TNSC, Guest of Honour Dr.SuryakanthGangashetty, Professor, IIIT Hyderabad and Dr.AsuthoshKar, Assistant professor, Department of ECE, IIITDM, Kancheepuram.

Workshop on Advance Antenna Design and Applications (WAADA) during 10-11, August'18-Organized by Dr.

B. Ramachandran



The workshop was inaugurated by Dr. P. HanumanthaRao, Senior Scientist, SAMEER, Chennai

Workshop On “Challenges And Opportunities in 5G” ON AUGUST 1-2, 2018. Organized by Dr. R. Kumar



Dr. David KoilPillai, Professor, Dept. of EE, IITM, Chennai releases the workshop souvenir.

DRDO Sponsored workshop on “Underwater Optical Communication and Modeling of Photonic and Photovoltaic Devices (WOPPD)” on July 27-28, 2018-Organized by Dr. Shanthi Prince



Dr. Krishnakutty, professor Dept. of ocean engineering IIT MADRAS inaugurated the workshop,

Mr.N.Vedachalam, Senior Scientist NIOT delivered a keynote address, Mr.Keerthi Prasad,sales engineer,Fiber optika, Mumbai gave Tech Talk and hands- on- training on Modelling and Simulation of Solar Cells using TCAD.

Awards Received:

Dr. P. Vijayakumar

- Best Paper award –for the paper “performance analysis of millimeter wave radar for connected vehicles”, International conference of internet of things ICIOT-2019, SRM IST,11 to 15 March,2019.
- Best Paper award –for the paper, “Drone Control Using EEG Signal”, International Conference on Multi-Disciplinary Research Studies and Education, March 29- 30, 2019, Chennai
- Nominated and certified as Best Reviewer of ICVISIP 18 international conference 12 Oct 2018
- Dr .Abdul Kalam Young Scientist Award 13 Oct 2018 from Marina Lab,Chennai.
- Awarded “AdarshVidyaSaraswatiRashtriyaPuraskar” by Global Management Council on 15th August 2018
- IEAE Research Excellence Award, March, 2018.
- Prestigious IRDP Award 2018”Teaching and Research Excellence” for remarkable achievements in Teaching, Research and Publicationsat Chennai on 30th May 2018

Dr. K. Ghousiya Begum

- Received “Dr. APJ Abdul Kalam Award for Young Scientist, hosted by Marina Labs, R&D, Chennai, on 13.10.2018.

Dr. S. Dhanalakshmi

- Received “Best Women Engineer Award” by IE(I) , Tamilnadu State Centre on march 11- 2019.

Dr. Soumya Ranjan Routray

- Received, Certificate of recognition from IEEE Madras Section for publishing in IEEE journals/ transactions on the eve of IEEE Day-2019, 3rd Nov 2019, Anna University
- Editorial Member,” Journal of Optoelectronics and Communication, HBRP Publication Pvt. Ltd.” 2019

Workshop / FDP Attended:

Name of the Faculty	Workshop/FDP Attended& Place	Date
Prof. Dr. T. Rama Rao	World Summit on Accreditation (WOSA 2018), New Delhi	September 7 th -9 th , 2018
	31st GISFI Standardization Series Meeting, jointly with IEEE	June 8 th -9 th , 2018
	5G Summit with the theme of 5G & Beyond Technologies, IETE, NewDelhi	
Dr. B. Ramachandran	Indian Technology Congress-2018, Bangalore	September 5 th -6 th ,2018
Dr. S. Malarvizhi	LDPC and Polar codes in 5G standard NPTEL-AICTE – FDP	28 th Jan2019– 22 nd Feb 2019
Dr. Shanthi Prince	Patent writing	
Dr. P. Aruna Priya	FDP on Flexible and RF Printed Electronics , SRM IST	October 9-13, 2019
	Workshop on Revolution of Electronics Structure Theory and Experimental Realization, SRM & IITM	July 11-15, 2018
	Two Days Workshop on Paper Project & Patent Writing, SRMIST	August 16-17, 2018
	Two day work shop on “Smart Wireless Technologies-2018: A perspective view on 5G challenges and Opportunities, , SRM IST	August 2-3, 2018
Dr. P. Eswaran	Short course on Modeling and Simulation of Nano-Transistors, Department of Electrical Engineering, IIT Kanpur	January 21 st -25 th , 2019
Dr. M. Sangeetha	Attended 2-Day FDP (CURIOUS PROGRAM) conducted by IITM’s HTIC MedTech Incubator ,IIT Madras Research Park, Chennai	September5 th – 6 th , 2019
	One day Workshop on “Python for Teachers, Teaching Learning Centre (ICT) at IIT Bombay, a scheme of ‘PanditMadan Mohan Malaviya National Mission on Teachers and Teaching’.	June 22 nd , 2019
	One day Workshop on “Smart Classrooms : Technology - Aids for Effective Teaching and Learning” IIT, Bombay	April 22 nd , 2019
	Two day workshop on Paper, Project and Patent Writing, ISCA Chennai Chapter, at SRM Institute of Science and Technology	August 16 th - 17 th , 2018
Dr. C. T. Manimegalai	PEER Basic Workshop-Reliability and resiliency environmental efficiency.	August 2018
	Certificate course on IOT and Applications	30 th and 31 st August 2018
	Workshop on IOT and applications using Arduino	28 th September 2018

Dr. M. S. Vasanthi	STTP on “VLSI and Embedded Systems for IoT Applications, SRMIST, Kattankulathur	October 30 th – November 3 rd , 2018
Dr. K.Ghousiya Begum	“Python workshop”, conducted under PanditMadan Mohan Malaviya National Mission on Teachers and Teaching scheme, IIT Bombay, Department of ECE, SRMIST, Potheri	June 22 nd , 2019
	“A One Week Workshop on Artificial Intelligence for ALL” IIITDM, Kancheepuram	June 17 th – 21 nd , 2019
	IET sponsored workshop on “Deep Learning using KERAS ,SRMIST	April 23 rd , 2019
	short term course on “MATLAB and LabView for Engineering applications, IIITDM, Kancheepuram	December 17 th - 21 st , 2018
Dr. S. Krithiga	Workshop on research publications ,SRM IST	April 1 st , 2019
	Smart wireless technologies-2018:A perspective view on 5G challenges and opportunities , SRM IST.	August 2 nd –3 rd , 2018
	VLSI and embedded systems for IoT applications, SRMIST	October 30 th – November 3 rd , 2018
Dr. K.Vijayan	ISCA –Two days workshop on paper,project and patent writing ,SRM IST	August 16 th - 17 th , 2018
Dr. Vadivukkarasi K	Machine Learning for Intelligent Speech and Image Processing, SRMIST	September 28 th -29 th , 2018
	Smart wireless technologies-2018 : A prospective view on 5G challenges and opportunities, SRMIST	August 2 nd -3 rd , 2018
	Short Term Training Programme on “VLSI & Embedded Systems For IoT Applications SRMIST	October 30 th – November 3 rd , 2018
Dr. M. Susila	Summer School of Optics and Photonics,IISc Bangalore	June 17 th -21 st , 2019
	CAD based modeling of optical fibers and photonic devices for communication, sensing and industrial applications, NIT, Trichy	June 10 th -14 th , 2019
	Emerging Technologies in Optical Networks with hands-on Training, VIT, Chennai	December 6 th – 8 th , 2018
	Underwater Optical Communication & Modeling of Photonic and Photovoltaic Devices, SRM IST	July 27 th – 28 th , 2018
	Smart Wireless Technologies - 2018 : A Perspective View on 5G Challenges and Opportunities, SRM IST	August 2 nd – 3 rd , 2018
	Advanced Antenna Design and Applications, SRM IST	August 10 th – 11 th , 2018
	Hands-On Tutorial /Workshop on IoT for Drone Applications ,SRM IST	October 5 th – 6 th , 2018
Dr. C.Vimala	Recent Advances in Renewable Energy Technologies for Sustainable Development	29 th April to 11 th May 2019
	Application and Challenges for Biometrics Technology in IOT Environment	August 30 th – 31 st 2018
Dr. A. Maria Jossy	Current Trends in VLSI Testing and Design (WCTVTD’19)	July 12 th -13 th , 2019
Dr. E. Chitra	5 days STTP on VLSI design and Embedded IOT systems-	October 30 th – November 3 rd , 2018
	FDP conducted by IIT BombayX, FDP101X Foundation Program in ICT for Education	September 2018 – October 2018
	31st GISFI Standardization Series Meeting, jointly with IEEE 5G Summit with the theme of 5G & Beyond Technologies, IETE, NewDelhi	June 8 th -9 th , 2018

Dr. V. Sarada	STTP on VLSI design and Embedded IOT systems	October 30 th – November 3 rd , 2018
Dr. Sabitha Gauni	PEER Basic Workshop-Reliability and resiliency environmental efficiency.	August 2018
	Certificate course on IOT and Applications	30 th and 31 st August 2018
	Workshop on IOT and applications using Arduino	28 th September 2018
	Foundation program in ICT for Education	September 2018 – October 2018
Dr. V. Nithya	2 days Workshop on Smart Wireless Technologies – 2018: A Perspective view on 5G challenges and opportunities	August 2 nd -3 rd , 2018
	FDP conducted by IIT BombayX, FDP101X Foundation Program in ICT for Education	September 2018 – October 2018
	Seminar on Taking Wings: Women’s Employment, Entrepreneurship and Empowerment ,Madras Management Association, Chennai	April 11 th , 2019
	2 days DRDO sponsored workshop on Underwater Optical Communication & Modeling of Photonic and Photovoltaic Devices	July 27 th -28 th , 2018
Dr. T. Deepa	One day workshop on “Technologies Developed by CSIR-CEERI	July 8 th , 2019
	Two days workshop on RSOFT- OPTISIM VIT, Chennai	February 2 nd -3 rd , 2019
	Workshop on IOT and applications using Arduino	28 th September 2018
Dr. Ruhan Bevi A	Research Skill Development	January 23 rd – 25 th , 2019
	Workshop on Evolution of Electronic Structure Theory & Experimental Realization in association with IIT madras	September 11 th -15 th , 2018
	5th National workshop on Advances in Positioning, Navigation & Communication	August 16 th -17 th , 2018
Dr. J. Manjula	FDP on Teaching – Learning ,IIT Madras	November 27 th -29 th , 2018
	Workshop on Network and Hardware Security ,Anna University, Guindy	March 11 th -12 th , 2019
	Workshop on Advances in positioning, Navigation and communication, Dept of CSE, SRMIST	August 16 th -17 th , 2018
Dr. R. Dayana	Workshop “Smart wireless Technologies-2018: A Perspective View on 5G Challenges and Opportunities	August 2 nd – 3 rd , 2018
	STTP on “VLSI and EMBEDDED Systems for IOT Applications	30 th October to 3 rd November 2018
	FDP on “IOT-Business-4.0 & Blockchain Technology”	October 27 th , 2018
Dr. P. Malarvezhi	5 Days FDP on Embedded for IOT applications, SRM IST, Kattankulathur	November 2018
	Attended two days workshop on ‘4G networks and beyond, SRM IST, Kattankulathur	September, 2018
Dr. Subhashini. J	Keysight Academia Symposium 2019	July 18 th , 2019
Dr. S. Sathiyam	a two-day workshop on” Smart Wireless Technologies- A Perspective View on 5G Challenges and Opportunities, SRM IST –Kattankulathur	August 2 nd -3 rd , 2018
	two-day workshop on” Underwater Optical Communication & Modelling of Photonics and Photovoltaic Devices, SRM IST –Kattankulathur	July 27 th -28 th , 2018

Dr. Diwakar R Marur	Two days workshop on “Technical Writing and Publishing with Advanced Computer tools: Hands-on-Training”. IITDM, Chennai	September 8 th -9 th , 2018
Prof. V. Natarajan	ICAIECES, Department of SW Engineering, SRM IST – Kattankulathur	April 11 th – 13 th , 2019
Mrs. Theresal T	Smart Wireless Technologies	August 2 nd -3 rd , 2018
	Underwater Optical Communication & Modeling of Photonics and Photovoltaic Devices	July 27 th – 28 th , 2018
Mrs. A.Vinnarasi	IoT metrics tools Springer Nature	July 21 st , 2018
	STTP in IoT and VLSI	October 2 nd – 9 th , 2018
Ms. T. Ramya	Five days STTP on VLSI and Embedded systems for IOT applications ,Dept.of ECE at SRMIST	October 30 th – November 3 rd , 2018
	FDP on”Reference Management & Knowledge Organization for Journal Writing ,Aalim Muhammed Salegh College Of Engineering, Muthapudupet	December 10 th – 14 th , 2018
	Author Workshop by Springer Nature SRMIST	July 29 th , 2019
	Workshop on “Smart Wireless Technologies-2018 A perspective view on 5G Challenges and Opportunities, SRMIST	August 02 nd – 03 rd , 2018
	One Day Workshop in “IOT and its Applications using Arduino with Hands-on Training ,Pantech ProEd at SRMIST	September 28 th , 2018
Mrs. S. Murugaveni	Two days workshop on”Technical writing and publishing with advanced computer tools: Hands on Training, IITDM, Kancheepuram	May 25 th – 29 th , 2019
	Two days workshop on “smart Wireless Technologies-2018, A Perspective view on 5G challenges and opportunities	August 2 nd -3 rd , 2018
Mrs. S. Diana Emerald Aasha	FDP on “Introduction to Research, AICTE	February- March 2019
	National workshop on Research methodology ,IITDM , Kanchipuram	March 15 th – 16 th , 2019
Mrs. S.Kolangiammal	Author Workshop by Springer Nature, SRMIST	July 29 th , 2019
	5 Days FDP on Resource management and knowledge organization ,Aalim Muhammed Salgh college of Engineering, Avadi	December 10 th – 14 th , 2018
Mr. S. Bashyam	6 day FDP program on “ Antenna design and Measurement Techniques SSN college of Engineering, Kalavakkam	December 10 th – 15 th , 2018
Mrs. K. Suganthi	1 week STTP on VLSI and Embedded Systems, SRMIST	October 2 nd -9 th , 2018
	2 days workshop on Current trends in VLSI	July 12 th – 13 th , 2019
Mrs. S.Vasanthadev-Suryakala	Author Workshop”, by Springer Nature & SRM IST, SRMIST, Kattankulathur	July 29 th , 2019
Mrs. N. Showme	Workshop on “Raspberry Pi IoT Applications, NSIC, Chennai	February 4 th , 2019
	Workshop on “Introduction to latex, SRMIST	January 24 th , 2019
	Certificate course on IoT & Applications, SRMIST	August 30 th – September 1 st , 2018
	Workshop on “Smart wireless Technologies SRMIST	August 2 nd – 3 rd , 2018
	Workshop on paper, Project and paper Writing , ISCA association with SRMIST	August 16 th – 17 th , 2018

Mrs. Priyalakshmi B	Smart Wireless Technologies: A Perspective view on 5G Challenges and Opportunities ,SRMIST	August 2 nd -3 rd , 2018
	Technical Writing and Publishing with Advanced Computer Tools: Hands on Training, IITDM, Kancheepuram	September 8 th – 9 th , 2018
Mrs. S. Latha	Workshop on “Conventional Machine Learning to Deep Learning for Speech, Image and Text Processing, SSN Engineering College	August 16 th – 18 th ,2018
	Two Days Workshop on “Machine Learning For Intelligent Speech And Image Processing MLSIP 2018 ,department of ECE, SRMIST	September 28 th –29 th , 2018.
	One week short term course on Matlab and Labview for Engineering Applications IITD&M, Kancheepuram	December17 th -21 nd , 2018
Mr. S. Manikandaswamy	Smart wireless Technologies - 2018: A Perspective View on 5G Challenges and Opportunities	August 2 nd -3 rd , 2018
Mrs. Valarmathi. M	National workshop on Hardware security SETS in association with IEEE computer society,Madraschapter,Computer society of India,Chennai.	February26 th , 2019
	Workshop on Research Publications SRMIST,KTR	April 1 st ,2019
	IOT for Drone Applications ,SRMIST, KTR	October 5 th – 6 th
	Smart wireless Technologies on 5G challenges and Opportunities, SRMIST ,KTR	August 2 nd – 3 rd ,2018
Mrs. N. Saraswathi	Current trends in VLSI Testing and Design	July 12 th - 13 th , 2019
Mrs. K.Ferents KoniJiavana	Smart Wireless Technologies-2018	August 2 nd – 3 rd ,2018
	Evolution of Electronic Structure Theory & Experimental Realization(EESTER-2018)	September 11 th -15 th ,2018
Mrs. J.K.Kasthuri Bha	Evolution of electronic structure theory and experimental realization(EESTER-2018)”	September 11 th -15 th ,2018
	Under water Optical Communication & modeling of photonic and photovoltaic devices (WOPPD)	July 27 th -28 th , 2018
Mr. Aravindan. M	Smart wireless technology : A perspective view on 5G challenges and opportunities	August 2 nd – 3 rd ,2018
Mrs. V.Padmajothi	Springer nature, SRM IST	July 2019
Mrs. Suganthi Brindha G	A 5 Days Workshop onArtificial Intelligence for ALL in Indian Institute of Information Technology Design & Manufacturing,(IITDM) Kancheepuram	June17 th -21 th , 2019
Mrs. A. AniletBala	Five-day’s Short Term Training Program on Deep Learning And Its Application in NLP, Image and Video Analysis With Hands On Session, SRMIST, Kattankulathur	February 5 th -9 th ,2019
Mrs. S.Kayalvizhi	International workshop on Evolution of electronic structure theory & experimental realization, SRMIST & IITDM,) Kancheepuram	September 11 th -15 th ,2018

Mrs. N. Veni	Two days workshop on “Smart wireless technologies-2018:A perspective view on 5G challenges and opportunities, SRMIST	August 2 nd -3 rd ,2018
	Workshop on Research Publications ,SRMIST	April 1 st , 2019
	Short Term Training Program on Deep Learning & it’s Applications in NLP,Image& video analysis with Hands on session,SRMIST	February 5 th – 9 th
	Two days workshop on “Recent trends in medical image denoising& analysis, SRMIST	August 22 nd -23 rd ,2019
	Two days workshop on “Medical image analysis and detection techniques with advanced algorithms,Kongu Engineering college	July 20 th -21 st , 2018
Mr. E. Sivakumar	Workshop On Advanced Antenna Designs And Applications	August 10 th -11 th , 2018
Mr. G. Elavel Visuvanathan	FDP - Design Thinking	June 19 th , 2018
	Entrepreneur Awareness Program	18 th February, 2019
Mr. B.Ananda Venkatesan	Attended 6 Days FDP on “Antenna Design and Measurement Techniques, SSN College of Engineering	December 10 th – 15 th , 2018
Mrs. P. Ponnammal	Faculty Development Program on “Embedded Safety And Security -Secure Coding Techniques, SRMIST ,Kattankulathur	March 8 th – 9 th ,2018
	Two Days Workshop on”Smart Wireless Technologies -2018 :A Perspective View on 5G Challanges and Oppurtunities” SRMIST	August 2 nd – 3 rd ,2018
	Attended a Short Term Course Sponsored by AICTE “Frontiers in Microwaves”at Indian Institute Of Technology,Madras department of physics	October 22 nd -27 th , 2018
	Workshop on research Publications SRMIST,Kattankulathur	April 1 st ,2019
	IEEE National Workshop on “RF Component Measurement Using VNA @8GHz”	September 7 th ,2019
Mrs. A. Ramya	Workshop on “CAD based modeling of optical fibers and photonic devices for communication, sensing and industrial applications ,NIT-Trichy	June 10 th - 14 th
	Workshop on “Research Methodology, IIITDM, Kancheepuram	March 15 th – 16 th , 2019
	Workshop on “Emerging trends in Biosensors Department of Biomedical Engg, SRMIST	December 7 th –8 th , 2018
Mrs. Suhasini S	Workshop on Introduction to LaTeX conducted by OSA student chapters SRMIST	Jan 2019
	Workshop on Advanced Soft Materials: Synthesis And Applications (ASM-2018) Organized by Department of Chemical Engineering, NIT Warangal	December 17 th – 21 st , 2018
	Introduction to research NPTEL-AICTE FDP PROGRAM	April 2019
	Two days workshop on “Technical Writing and Publishing with Advanced Computer tools: Hands-on-Training” IIITDM	September 8 th -9 th , 2018
	Under water optical communication & modelling of photonic and photovoltaic devices(WOPPD) ,SRMIST	July 27 th – 28 th ,2018
Mrs. Aarthy S T	5 days FDP- Reference Management & Knowledge Organization For Journal Writing	December 10 th – 14 th , 2018

Training in Industries:

Dr. Sabitha Gauni

- Attended One Week Training on PLC-SCADA in Autosys Control systems India (P) Ltd., Chennai.

Dr. P. Malarvezhi

- Attended TCS-FDP on Block chain Technology in TCS, Siruseri, 27th October, 2018.

Mrs. Valarmathi. M

- FDP on IOT -Business4.0 &Blockchain Technology TCS,Siruseri, October 27, 2018

Mrs. A.Vinnarasi

- Participated in Johnson Controls India Enrich Program for Building Management System at Pune Completed Module I & II.

Mrs. Suganthi Brindha G

- Attended One Day Training on Raspberry Pi IOT Applications on 4-2-2019 in National Small Industries Corporation Limited (NSIC-Technical Service center),Chennai.

Mrs. Aarthy S T

- Participated in Johnson Controls India Enrich Program for Building Management System at Pune Completed Module I & II.

Video Lectures:

Dr. S. Malarvzhi

- Created Video Lecture on “Sensors and Transducers”.

Book Chapters:

- R. Guhan, U. Hari, and B. Ramachandran, “Enhancement of QoS Parameters in Cluster-based Wireless Sensor Networks using Co-operative MIMO”, Chapter in *Wireless Communication Networks and Internet of Things*, *Lecturer Notes in Electrical Engineering* 493, Pp 187-195, 2019. Springer Nature, Singapore. (SNIP : 0.160)
- Poornima P., Nithya V. (2018) Performance Evaluation of Lossy Image Compression Techniques Based on the Image Profile. In: Nandi A., Sujatha N., Menaka R., Alex J. (eds) *Computational Signal Processing and Analysis*. *Lecture Notes in Electrical Engineering*, vol 490. Springer, Singapore.
- Harshita Mathur, T. Deepa “ OFDM-Based on Trellis-Coded Modulation for Optical Wireless Communication” *Advances in Intelligent Systems and Computing* book series, pp.79-86 (AISC, volume 846), September 2018.
- Krishnamurthy, R., Bharatiraja, C., Adedayo, Y., Tariq, M., & Azeem, A. “Locating Wire Fault in Controller Area Network Based on Kelvin (Four-Wire) Resistance Approach.” *Applications of Computing, Automation and Wireless Systems in Electrical Engineering*. Springer, Singapore, 2019. 1129-1139.

Faculty Participation in other Institutions:

Prof. Dr. T. Rama Rao

Steering Board Member for Wireless World Research Forum (WWRF).

Steering Board Member for IEEE ANTS Conference

Dr. S. Malarvizhi

- Resource person for FDP on Digital communication, SSN college of engineering.
- Keynote Speaker for the workshop on Smart Wireless technologies 2018, A perspective view on 5G challenges and opportunities, SRM IST.
- Speaker for Wednesday Speaks (AARUSH) : Glimpse of Wireless and light fidelity, SRM IST

Dr. Shanthi Prince

- Invited talk on “Ubiquitous role of optical communication in revolutionizing the information world”, Three Days Mini Colloquium on Advancements in Photonics and Optical Networks in association with IEEE Photonics Society at SA Engineering College, from 29th to 31st August 2018.
- Key note Talk on “Outcome based Education” in Sairam Engineering college.
- Board of Studies Member for Velammal Engineering College (Autonomous)

Dr. VivekMaik

- Technical Committee Member for the 2nd International Conference of Intelligent Robotic and Control Engineering (IRCE) Singapore, August 26th-29th, 2019.

Dr. P. Malarvezhi

- Session chair at National Conference on Recent Trends in Embedded Application for Industrial Automation (NCRTEIA'19) on March 27, 2019 under our department Association (ELECTRONIQUE), Bharath University

Dr. K. Ghousiya Begum

- Key note speaker for the National Conference on Advanced Communication, Computing and Power Systems, at St. Josephs College of Engineering and Technology, Thanjavur, 09.03.19

Dr. R. Dayana

- Jury for 5th National Conference on Research and Development in Science, Engineering and Technology on 28th February 2019, St. Anne's College of Engineering and Technology, Panruti

Dr.T.Deepa

- Technical Chair for Ternational Conference On Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC), 30-31st January 2019 at Sri ChandrasekharendraSaraswathiViswaMahavidyalaya University.

Dr. Bandaru Ramakrishna

- Board of Studies Member for Biomedical Engineering, Department of Biomedical Engineering, Osmania

University Hyderabad, Telangana 2018-2020.

- Reviewer for ICETE 2019 Osmania University Hyderabad, Telangana 2019.
- Organising Committee Member for INDACON-2019 NIOT, SRMIST 2019.

Dr. S. Dhanalakshmi

- Recognized as one of the BOS members at Sengunthar Engineering College, Thiruchengode, 2019.

Dr. P. Vijayakumar

- Technical chair for the international conference International Conference on Recent Trends in Electronics, Computing and Communication Engineering, Department of Electronics and Communication Engineering, Saveetha School of Engineering on April 25-26, 2019
- TPC Member in the 2nd International Conference on Sensor Networks and Signal Processing (SNSP 2019) held in Taiwan on November 19th-22nd, 2019.
- Technical conference committee Member for the 2nd International Conference on Vision, Image and Signal Processing (ICVISIP 2018) held in Las Vegas, USA on August 27-29, 2018

STUDENT ACHIEVEMENTS:

Student Name	Year	Achievements
ROBIN BIJU THOMAS	III	Placed Runner up in Ctrl+Alt+Code National Level Hackathon 2019. Placed in All India Top 10 Rank in Bosch Road Safety Hackathon 2019 and Finalist of 6 National Level Hackathons.
MD AKMAL HUSSAIN	III	Placed 1st runner up (Electrical Vehicles Racing) in champions of Champion in KLU Vijayawada.
MITRANSH CHOUBISA	III	Placed second position at MATE ROV competition and received best innovation award
BHUVAN BHARDWAJ	IV	Received Silver medal for his research paper in SRM research day and Best poster presentation award in IEEE EMBS 2018 Bangalore.
ABHIJEET	IV	Received 1st prize at Maritime marathon organised by Marine Technological Society.
M. PREETHA	IV	Received Best short film award on Social Awareness.
ANUBHAV DUTTA	III	Received Bronze medal in Meghalaya State Table Tennis Championship.

<p>ARKO CHATTERJEE</p>	<p>IV</p>	<ul style="list-style-type: none"> • Placed 3rd Position in Ctrl-Alt-Code National Level IOT Hackathon. • Finalist and Special Mention in Accenture BlockchainHackathon 2018. • Placed 3rd Position in Mozilla Hackathon 2017. • Quarter Final Finalist at India Innovation Challenge 2017, Texas Instruments and DST, Govt. of India.
<p>SHREYASHRI BISWAS</p>	<p>II</p>	<p>Placed 10th position for Solve For Safer India Hackathon by Bosch.</p>
<p>HARISH PRAKASH</p>	<p>III</p>	<p>Received Best Speaker award in WCC college fest, Best Delegate in YLGC MUN and organizing certificates in National Debate Competition.</p>
<p>A.V AAYUSH</p>	<p>III</p>	<ul style="list-style-type: none"> • Best Cadet Gold (State Level, NCC). • Best Firer Gold (State Level, NCC), • TamilNadu Best cadet in All India NCC Republic day camp-2019 New Delhi • Indian Goodwill ambassador to Vietnam in Youth exchange program NCC.
<p>HIMANSHU THAKUR</p>	<p>III</p>	<p>Received best publication award for the paper titled, “Braking/Deceleration Mechanism in Hyperloop System Using Sensor Values and Feedback”, in 7th International Conference on Contemporary Engineering and Technology, 9-10 March 2019, Prince Dr. K. Vasudevan College of Engineering and Technology.</p>

Alumini Corner:

Mr. SHRIVATSAN BALAGOPAL, (2013 Passed out), Ficonnet had MoU with SRM on 6th September 2018.



Mr. SATYAKI GANGULY (2015 Passed out), Delivery Accounts Manager (Apprentice Leader), Mu Sigma Inc. Bangalore had interaction with his juniors on 1st March 2019.



MR. HEMANTH BALASUNDARAM (1991- 95 Batch), Founder & CEO, Scimores Corporation, NJ, USA, 29th June 2019 came for Ist year orientation program and shared his experience during college days.



MR. JASDEEP SINGH(2015 Passed Out), Founder Transport Simple, Bangalore shared his experience in Entrepreneurship on 18th July 2019.



MS. PALLAVI KINNERA (2015 passed out), Physical Design CAD Engineer, Intel Corporation, Hillsboro, Oregon, USA talked about Physical design in VLSI, Higher studies and Job opportunities in abroad through Skype on 13.09.2019.



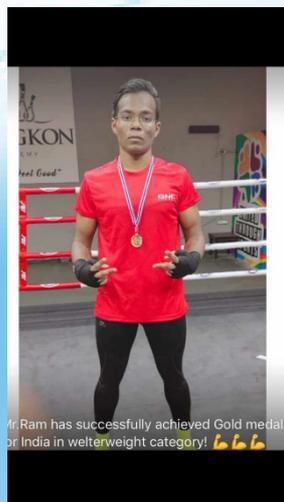
MS. SWATI KHETAN (2012 Passed out), Data Scientist, Ground Zero, Bengaluru shared her knowledge on Data Science and Analytics on 06th September 2019.



MR. MADABHUSHI BHARADWAJ(2012 Passed out), Senior Design Engineer, AMD India Private Limited, Hyderabad shared his experience on 13.9.2019.



Mr. R. PRANAV SRINIVAS(2018 Passed out), Wireless Communication Engineer, Broadcom, Bangalore educated his juniors about how to face the interview on 16.9.2019



Sports:

Mr. S V L N Parasuram got Gold Medal in Indo-Tai International Boxing Championship, held in Bangkok during 15-20 Oct 2019.