S.A. ENGINEERING COLLEGE, CHENNAI.77
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SWARAKSHA – 2K20

News Letter: JANUARY – JUNE 2020

OUR VISION

To achieve overall excellence in education by continuously upgrading the teaching learning process and incorporating latest technological advancements happening worldwide with ethical responsibilities.

OUR MISSION

To impart sound technical competency and quality education for students to enhance the employability and ethical values.

To provide conducive environment for faculty and students with excellent facilities to improve research activity.

PROGRAM EDUCATIONAL OBJECTIVES

1. To enable graduates to pursue research or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.

2. To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.

3. To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

PROGRAM OUTCOMES

1. To apply knowledge of mathematics, science and engineering appropriate to ECE discipline.

2. To formulate and analyze the complex engineering problems by using the principles of mathematics and engineering fundamentals.

3. To design and develop system (or) process to meet the desired needs within the realistic constraints of the societal and environmental considerations.

4. To investigate complex problems by conducting experiments, analyze interpret and synthesize the information to provide conclusions.

5. To select and use appropriate modern tools for solving complex engineering problems.

6. To apply reasoning knowledge for providing engineering solutions to societal needs with professional engineering practice

7. To demonstrate the knowledge of engineering for providing environmental solutions and sustainable development.

8. To understand the ethical principles and professional responsibilities.

9. To function effectively as a member (or) a leader in multidisciplinary activity.

10. To deliver effective presentations and communicate at ease with the society.

11. To be successful member (or) leader in diverse teams with enhanced administrative skills and financial management.

12. **To realize the need for lifelong learning and adopt themselves to technological changes.**

EVENTS ORGANISED BY ECE DEPARTMENT

GUEST LECTURE

Guest Lecture on **"Recent Trends in Marketing Management and its Operations"** was conducted to IV year ECE students by Mr.Mukesh.H, Solution architect, TCS, Chennai On 8.01.2020.

Guest Lecture on **"Recent Trends in Wireless Communication and its Scope"** was conducted to III year ECE students by Mr.Rohit K,Senior Hardware Design Engineer, Mobiveil Technologies India Pvt Ltd. Chennai On 25.01.2020.

Guest Lecture on **"Advanced VLSI Design and its Scope"** was conducted to III year ECE students by **Mr.Prakash, Application Engineer, CoreEL Technologies**, Bengaluru On 04.02.2020.

Guest Lecture on **"Recent Trends in Wireless Networks and its Scope"** was conducted to III year ECE students by Mr.Rajkumar Sampath Lead Engineer, HCL Technologies, Chennai On 24.02.2020.

Guest Lecture on **"GATE Awareness Programme"** was conducted to II year

ECE students by Mr. Mr.PRANAY, IES.GATE Academy, and Chennai On 25.02.2020.

Guest Lecture on **"Managing Telecom Engineering and Information Technology"** was conducted to II year ECE students by J.Santhanakrishnan, Retd., Divisional Engr.,DoT, Govt of India, Chennai On 13.03.2020.

Webinar on **"virtual and Augmented Reality"** was conducted to II year ECE students by Vijaya Rajan, CEO Meticulous Academy of Excellence Private Limited, Chennai on 22.04.2020.

Webinar on **"Making the Solar for tomorrow smart IOT devices"** was conducted to II year ECE students by Dr. S. Arunmetha, Asso. Prof., KL University, Andhra Pradesh on 06.05.2020.

Webinar on **"selenium Automation Testing"** was conducted to II year ECE students by Sriraman Raji, Associate Consultant, Capegemini on 08.05.2020.

Webinar on **"recent trends in real time embedded system"** was conducted to III year ECE students by K.Santhosh kumar koyilan, senior embedded hardware Engr., Visteon technical and service centre, Chennai on 16.05.2020.

Webinar on **"career guidance for electronics engineers"** was conducted to III year ECE students by Rohith.K, Senior Hardware Engr., Mobiveil Technology Pvt Ltd on 30.05.2020.

INDUSTRIAL VISITS

- II year A Section Students went on an Industrial Visit to **"SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY (SAIF), IIT MADRAS"** on 07.01.2020.

- II year B Section Students went on an Industrial Visit to **"SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY (SAIF), IIT MADRAS"** on 31.01.2020.

- II year C Section Students went on an Industrial Visit to **"SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY (SAIF), IIT MADRAS"** on 07.02.2020.

- III year A Section Students went on an Industrial Visit to **"INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING (IIITDM)"**, KANCHEEPURAM on 03.01.2020.

- III year B Section Students went on an Industrial Visit **to "INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING (IIITDM)"**, KANCHEEPURAM on 06.01.2020.

- III year C Section Students went on an Industrial Visit to **"INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING (IIITDM)"**, KANCHEEPURAM on 08.01.2020.

CO - CURRICULAR ACTIVITIES

✓ The Department of ECE conducted a **Paper Presentation** for all II , III, IV year ECE Students in association with IETE on **13.03.2020.**

- ✓ The Department of ECE conducted a **Mini Project Expo** for all II , III, IV year ECE Students in association with IETE on **13.03.2020**
- ✓ The Department of ECE conducted a **Quiz Competition** for all II , III, IV year ECE Students in association with IETE on **19.03.2020**
- ✓ The Department of ECE conducted a **Project Presentation** for all II , III, IV year ECE Students in association with IETE on **23.03.2020**
- ✓ The Department of ECE conducted a Three days National level program for students and faculties on **"ENTREPRENEURSHIP AWARENESS CAMP1"** sponsored by DST.NIMAT on 22.01.2020 & 24.01.2020
- ✓ The Department of ECE conducted a Three days National level program for students and faculties on **"ENTREPRENEURSHIP AWARENESS CAMP2" sponsored by** DST.NIMAT **on 27.01.2020 & 29.01.2020.**

FACULTY PARTICIPATION IN WORKSHOP/FDTP/GUEST LECTURE

- • **Dr G KAVYA.,** Professor Attended five days FDP on **"LOW POWER VLSI DESIGN"** at NITTR, CHANDIGARH from 20.04.2020 . 24.04.2020.

- • **Dr G KAVYA.,** Professor attended 5 days FDP on **"NAAC Awareness Programme"** for Faculty at Marathwada Mitra Mandal Institute of Technology (MMIT), Lohgaon, Pune from 8/05/2020 to 14/05/2020.
- • **Dr G KAVYA.,** Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A ENGINEERING COLLEGE from 27.04.2020 TO 01.05.2020.
- • **Dr G KAVYA.,** Professor attended 6 days FDP on **"Effective Proposal Writing for Research and Funding"** SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE, NASIK.,from 13.05.2020 to 18.05.2020.

- • **Dr G KAVYA.,** Professor attended 5 days FDP on **"EVOLUTION OF TEACHING LEARNING PROCESS. POST COVID 19" at BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH"** from 11.05.2020 TO 15.05.2020.

- • **Dr. TAPAS BAPU B R**., Professor attended 5 days FDP on **"EVOLUTION OF TEACHING LEARNING PROCESS. POST COVID 19"** at Bharath Institute Of

Higher Education And Research from 11.05.2020 TO 15.05.2020.

- **Dr. TAPAS BAPU B R.,** Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A ENGINEERING COLLEGE from 27.04.2020 TO 01.05.2020.

- **Dr TAPAS BAPU B R**., Professor attended 5 days FDP on **"Mastering the Art of Handling Post Covid Challenges for Sustainable Development"** at Dr.M.G.R Educational And Research Institute from 19th May to 23rd May 2020.

- **Dr TAPAS BAPU B R.,** Professor attended 5 days FDP on **"Industry 4.0 . A post Covid Paradigm at ICT Academy SkyCampus"** from 25th May to 29th May 2020.

- **Dr.C.Arunachalaperumal.,** Professor, attended Two Weeks FDTP on **"Managing Online Classes and Co.creating MOOCS"** At TL centre Ramanujan College University of Delhi from 20.04.20 to 06.05.20.

- **Dr.C.Arunachalaperumal.,** Professor, attended Five days Workshop on Online **"Refresher Course cum Hands.on.Session on Advancement in Electronics"** Sri

Krishna College of Engineering from 05.05.20 to 09.02.20.

- **Dr.N.ANUSHA.,** Professor attended Five days FDP on **"CYBER SECURITY"** at Vels Institute Of Science & Technology Is In Association With Indian Servers from 20.4.2020 to 24.4.20.

- **Dr.N.ANUSHA.,** Professor attended Five days STTP on **"NBA & SAR PREPARATION"** . NITTR KOLKATA from 27.4.2020 TO 1.5.2020.

- **Dr.N.ANUSHA.,** Professor attended Five days FDP on **"ARTIFICIAL INTELIGENCE . AICTE TRANING AND LEARNING (ATAL)",** MSME. Technology Development Centre (PPDC), Meerut from 11.5.2020 TO 15.5.2020.

- **Dr.N.ANUSHA.,** Professor attended Fifteen days FDP on **"I5 . INNOVATION, INCUBATION, INTRAPRENEUR, INVENTION & INTELLECTUAL PROPERTY"** at S A Arts & Science College from 26.4.2020 TO 9.5.2020.

- **Dr S.Suvitha .,** Associate Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A Engineering

- College from 27.04.2020 TO 01.05.2020.

- **Dr S.Suvitha.,** Associate Professor attended Seven days FDP on **"NAAC Awareness Programme"** for faculty Marathwada Mitra Mandal Institute of Technology from 8.05.2020 to 14.05.2020.

- **M.VANITHALAKSHMI**.,Assistant Professor attended five days FDP on AICTE Training And Learning (ATAL) Academy Online FDP on **"Internet of Things"** at National Institute Of Technical Teachers Training And Research, Chandigarh From 20 April 2020 . 24 April 2020.

- **VANITHALAKSHMI M**., Assistant Professor attended National workshop on **"Fine Tuning Research Planning Using Elsevier Tools: Science Direct,Scopus And Mendeley"** K.J.Somaiya College Of Science And Commerce,Mumbai On 25 April,2020.

- **Vanithalakshmi M**., Assistant Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S.A ENGINEERING COLLEGE from 27.04.2020 TO 01.05.2020.

- **Vanithalakshmi M**., Assistant Professor attended FDP on **"Cryptography And Network Security"** Panimalar Institute Of Technology,Chennai from 11.05.2020 to 15.05.2020.

- **B.Menaka.,** Associate Professor attended Seven days FDP on **"NAAC Awareness Programme for faculty "**, Marathwada Mitra Mandal Institute of Technology from 8.05.2020 to 14.05.2020.

- **B.Menaka.,** Assistant Professor attended FDP on **"Approach for the Design and Implementation of Deep Learning in Cloud"** at SRM Institute of Science and Technology from 13.11.19 . 15.11.19.

- **K.M.Dhanalakshmi**,Associate Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A ENGINEERING COLLEGE from 27.04.2020 TO 01.05.2020.

- **R.Sasireka.,**Assistant Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A Engineering College from 27.04.2020 TO 01.05.2020.

- **Sreeja Vijay.,** Associate Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A Engineering College from 27.04.2020 TO 01.05.2020.

- **Sreeja Vijay.,** Associate Professor attended 5 days FDP on "**Evolution Of Teaching Learning Process. Post Covid 19"** at Bharath Institute Of Higher Education And Research from 11.05.2020 TO 15.05.2020.

- **Sreeja Vijay.,** Associate Professor attended 5 days FDP on **"Impact Of 5G Technology On IOT"** at PRATHYUSHA ENGINEERING COLLEGE from 29.5.2020 & 30.05.2020.

- **Pradeep.S.,** Associate Professor attended 5 days FDP on **"Advanced Simulation Tools for Electronics Engineers"** at S A ENGINEERING COLLEGE from 27.04.2020 TO 01.05.2020.

- **Pradeep.S.,** Associate Professor attended 5 days FDP on **"FDP on Latest Trends in Electronics Field"** at Siddharth Institute Of Engg & Technology from 22.05.2020 to 23.05.2020

- **Dr.S.Dhilipkumar.,** Associate Professor attended 5 days FDP on **"Two Weeks FDTP on Managing Online Classes and Co.creating MOOCS"** at TL centre Ramanujan College University of Delhi from 20.04.2020 to 06.05.2020.

- **Ramya.M**., Assistant Professor attended 7 days FDP on "Online Faculty Development Program on courses . **Python, Java, R, Arudino and Oscad in association with Spoken Tutorial, IIT Bombay"** at Adhiparasakthi Engineering College Melmaruvathur in assocation with Spoken Tutorial, IIT Bombay from 16.04.2020 to 22.04.2020.

- **R. Ashwini.,** Assistant Professor attended 5 days FDP on **"Online FDP on Image and Embedded Processing"** at NITTR,CHANDIGARH from 11.5.20 to 15.5.20.

- **R. Ashwini.,** Assistant Professor attended 5 days FDP on **"Online FDP on Recent Trends in VLSI Design"** at NITTR,CHANDIGARH from 25.5.20 to 29.5.20.

- **R. Ashwini.,** Assistant Professor attended 5 days FDP on **"Digital**

Transformation. An Introductory Course" at EASWARI ENGINEERING COLLEGE from 8.5.2020 TO 12.5.2020.

- **P.Sasireka.,** Assistant Professor attended 5 days FDP on **"Two Days Webinar on 3D EM Simulation Involving CST Software"** at ICT from 18.5.2020 &19.5.2020.

- **Balakumaran.J.,** Assistant Professor attended 5 days FDP on **"Two Weeks FDTP on Managing Online Classes and Co.creating MOOCS"** at TL centre Ramanujan College University of Delhi from 20.04.2020 to 06.05.2020.

- **M.Priscilla.,** Assistant Professor attended 5 days FDP on **"Online FDP on Recent Trends in VLSI Design"** at NITTR,CHANDIGARH from 25.5.20 to 29.5.20.

PUBLICATIONS BY FACULTY IN NATIONAL/INTERNATIONAL CONFERENCE & JOURNALS

- **Dr. G. Kavya**, Professor .,**"Nature Inspired Meta.heuristic Optimization Algorithms Capitalized"** in International Journal .2020, 6th International Conference on Advanced Computing & Communication Systems IEEE, 2020,SCOPUS INDEXED.

- **Dr.G.Kavya**,Professor**., "Performance Analysis of CMOS Low Noise Amplifier Using ADS and Cadence"** in Conference proceedings. Materials Today Proceedings, Scopus Indexed.

- **Dr.G.Kavya**,Professor,**"Implementation and Elaborated Block Design for Zybo Kit Using Vivado High Level Synthesis Tool"** in International Journal. Test Engineering And Management,ISSN: 0193.4120 Page No. 14623 – 14629.

- **Dr. G. Kavya**, Professor .,**"Intelligent System For Identifying Dyscalculia Based On Raspberry PI"** in International Journal.Proceedings of the Fourth International Conference on Communication and Electronics Systems (ICCES 2019) IEEE Conference Record 45898; IEEE Xplore ISBN: 978.1.7281.1261.9 .

- **Dr. G. Kavya**, Professor. **"A Detailed Illustration of VLSI Block Design Implementation Process Using VIVADO HLS and Arty Kit"** in International Journal .Universal Journal of Electrical and Electronic Engineering; 7(3): 201.208, 2020.

- **P.Sasireka,**Assistant Professor **.,"Design of staircase S shaped wearable antenna for medical pertinence"** in International Journal of critical review/volume 7/issue 4, ISSN. 2394.5125 VOL 7, ISSUE 04, 2020.

- **Dr.C.Arunachalaperumal,**Professor **.,"Channel aware optimized proportional fair scheduler for LTE downlink"** in International Journal Peer to Peer Networking and Applications, Springer, 2020.

- **Dr.C.Arunachalaperumal,**Professor **,"An Efficient Image Quality Enhancement using Wavelet Transform"** in Conference proceedings . Elsevier, Materials Today Proceedings, Volume 24, Part 3, Page 2004.2010, 2020.

- **Dr.C.Arunachalaperumal,**Professor **, "Smart Toll Collection System Using ZIGBEE and RFID"** in Conference proceedings . Elsevier, Materials Today Proceedings, Volume 24, Part 3, Page 2054.2061.

- **Dr.C.Arunachalaperumal,**Professor **,"A Comparative Study of Resource Allocation Schemes for D2D Networks Underlay Cellular Networks"** in International Journal .(2019)Wireless Personal Communications, SCI Indexed.

- **Dr.C.Arunachalaperumal**, Professor **,"Design of parallel pipelined DIF – FFT architecture"** in International Journal . TEST Engineering & Management. Scopus Indexed.

- **Dr.C.Arunachalaperumal,**Professor **,"Feature Extraction and classification of EEG signal based anomaly detection and home automation for physically challenged /impaired people using neurosky mindwave headset"** in Conference Proceedings . AIP Conference Proceedings 2207, 040006(2020).

- **Dr B.R.Tapas Bapu**, Professor**, "Design and testing of Monopole Wearable Textile Antenna for RADAR Applications"**International Journal of advanced research in dynamical and control systems , vol 12 issue 2 – 2020.