



# **PULSE**

## **SAKTHI POLYTECHNIC COLLEGE**

**(Govt. aided and ISO certified institution)**  
**SAKTHI NAGAR – 638 315**

### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

#### **NEWS LETTER 2019-2020**

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#### **ABOUT THE INSTITUTE:**

Sakthi Polytechnic College has been sponsored by the Sakthi foundation as one of its developmental programmes. The main aim of this institution is to impart technical education among the rural youth. Padma Bhushan Dr.N. Mahalingam, the famous industrialist and educationalist was the promoter and president of the foundation. Sakthi polytechnic college started functioning in September 1981. Initially three-year Government Aided Diploma courses were offered in Civil, Electrical and Mechanical Engineering. Courses on Electronics and Communication Engineering and Metallurgy are being offered from 1983-84. The course on Agricultural Technology is being offered from 1984-85. The self-supporting courses were also started subsequently. Computer Engineering course is offered from 2002-2003, Instrumentation and Control Engineering from 2003-2004. Metallurgy and Mechanical Engineering is offered from 2010-2011 Under Self Supporting Scheme.

#### **ABOUT THE DEPARTMENT**

Department of ECE was established in the year 1983 with a sanctioned intake of 50 students. In 37 years, our department has produced around 1750 quality Diploma engineers in the ever-growing field of Electronics & Communication Engineering.

We are proud to say that we have highly qualified faculty members with an experience of more than 30 years. Our Non-teaching team also has rich practical knowledge and are highly competent to trouble shoot any kind of challenges in the labs and institution.

We have lab facilities with equipment's on par with engineering colleges to train our students in the emerging fields. Students have the scope to learn from basic electronic components testing to embedded system and VLSI circuit design and testing. Our department was chosen by AICTE for the award of Rs 15 lakhs as grant for the modernization of our laboratories under MODROBS Scheme.

The Display boards available in the electronics lab have rich collection of electronic components starting from vacuum tube to FPGA chips, which is a unique feature that you may not find in other Institutions. Apart from curriculum, we have CISCO local academy through which we train our students to undertake the CCNA certification which has global value in the IT sector.

We are also organizing courses like PCB designing, Robotics through our CIICP wing to enhance the placement opportunities of our students.

We have a state-of-the-art computer Centre to conduct the above said courses and handle embedded system, VLSI Labs and Project works. In order to update the knowledge of staff members in the latest technologies we have conducted Faculty Development Program sponsored by AICTE &ISTE. Also our staff members are deputed to attend the QIP in reputed institutions.

We have a strong Alumni support to provide knowledge on latest developments in the industry and guide the students for placement. Our Alumni are working in various MNCs like IBM, HP, HP Emphasis, WIPRO, HCL, TCS, CTS and INFOSYS to name a few. They also provide support to financially Weak students of our department.

Many Alumnus of our department have blossomed into successful entrepreneurs and have brought name and fame to our institute and department. To summarize, our department provides excellent knowledge to the students and mould them to meet the global standards. The conducive atmosphere in the campus makes the teaching learning process a memorable one.

### **VISION OF THE INSTITUTE**

To excel in imparting Value Based Technical Education to produce industry competent engineers and socially responsible citizens.

### **MISSION OF THE INSTITUTE**

**M1:** To impart transformative technical education through innovative teaching and learning methodologies.

**M2:** To enhance academia-industry partnership through internships and by collaborative projects.

**M3:** To impart requisite skills to enhance employability and entrepreneurship.

### **VISION OF THE DEPARTMENT**

To become a center of repute and to impart high-quality technical education in the field of Electronics and Communication Engineering to develop highly competent and ethical engineers.

### **MISSION OF THE DEPARTMENT**

**M1:** To create a learning environment to the students for excellence in the field of Electronics & Communication engineering.

**M2:** To provide ethical and value-based education through various activities addressing the societal needs.

**M3:** To instill self & continuous learning attitude, professional ethics and entrepreneurial skills.

**M4:** To strengthen the industry-institute partnership through various interactions.

### **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

**PEO1:** To prepare the students to take up careers in Communication Networking, Embedded systems, VLSI Design and Electronic manufacturing industries.

**PEO2:** To prepare the students to Pursue higher education and adopt the emerging trends through continuous learning.

**PEO3:** To prepare the students to become a socially responsible and successful entrepreneur.

### **PROGRAM SPECIFIC OUTCOMES (PSOs)**

**PSO1:** Apply the fundamental concepts of electronics and communication engineering in designing various systems and applications in domains like Communication, Networking, embedded systems, and VLSI.

**PSO2:** Simulate, verify, and test electronic circuits with the state of art software tools.



**DEPARTMENT STUDENTS CHAPTER ACTIVITIES:****YEAR: 2019-2020**

Sl.No	Date	Details of Events / Activities
1	09.01.2020	Inauguration of ISTE Students Chapter by <b>Dr.A.SANKARASUBRAMANIAN</b> , CHAIRMAN, ISTE-TN SECTION&PRINCIPAL, GRG POLYTECHNIC COLLEGE, Coimbatore.
2	06.02.2020	ISTE sponsored Workshop on Arduino Based Embedded System for the Final Year students by R.Sivakumar, CEO, Shiv Robotics R&D Lab, Erode.
3	12.02.2020	Technical Symposium" Sakthi 2020"- Chief Guest- <b>R.Ravisrinivasan</b> , Head(Hr) Mptron Group.
4	13.02.2020	Awareness Program On Foreign Employment By <b>Thiru.M.Santhanam</b> , Programme Leader, Dhan Foundation, Chennai.
5	14.02.2020	Avenues In Higher Education By <b>Thiru.K.Vijayakumar</b> , Coimbatore, Marine Engineering College.
6	22.02.2020	Brand Yourself By <b>P.Sivaraja Dhanavel</b> , Kongu Engineering College,Perundurai
7	06.03.2020	Industry 4.0 By <b>Dr.V.S.Saravanan</b> , General Manager-Operations, Indo Shell Cast Private Limited.
8	17.03.2020	Project Expo organized by ISTE students Chapter & SPC Entrepreneurship Development Cell.

**DEPARTMENT ASSOCIATION ACTIVITIES:**

Sl.No	Date	Details of Events / Activities
1	25.07.2019	Power of Knowledge & experience - Ramkumar Sundar, DECE., B.Tech., Director, PUVI Technical services, Coimbatore. 1988 Alumni. Manufacturer of Power Saver equipments for Home Appliances and Battery life enhancer.
2	26.07.2019	Awareness on Entrepreneurship By Mr.G.Arumugam, Sri Meenatchi Knits, Tirupur
3	03.02.2020	Expert Lecture on "Demonstration & Application of Life Saving Instruments" by Mr. R.Kannan SKS Meditech, Erode
4	12.03.2020	Professional experience- VLSI design & testing by Mr.P.Manikandan, verification engineer, Smart DV, Bengaluru

**SUMMER / WINTER COURSES CONDUCTED BY THE DEPARTMENT:**

- Short term Course on Home Appliances Servicing
- Short term Course on C programming
- Short term Course on PCB Designing



## STATE LEVEL TECHNICAL SYMPOSIUM

Sakthi Polytechnic College, Sakthi Nagar, ISTE Students chapter organised Sakthi 2020, a State Level Technical Symposium on 12.02.2020. Mr.K.R.Palanisamy, Principal, Presided over the function. Thiru.R.Ravisrinivasan, Head (HR) MKTRON Group delivered special address. The programme was co-ordinated by Dr.N.Thangavel, HoD/ Mechanical and Dr.S.Senthilarasu, HoD In charge/ECE.



Special address was given by the Chief guest **Thiru.R.Ravisrinivasan**

Sakthi polytechnic college, Sakthinagar, Entrepreneurship Development Cell and ISTE Students chapter organised institutional level project expo for final year Diploma students from various disciplines in Engineering on 17th March 2020. The expo was inaugurated by Er.K.R.Palanisamy, principal, sakthi polytechnic college and three prizes given to the best project and also certificates were distributed to the participants.





### THREE DAYS' WORKSHOP

Sakthi polytechnic college, Sakthi Nagar, Organised Three days workshop on Arduino Based EMBEDDED SYSTEM conducted by Department of ECE in association with Indian Society for Technical Education (ISTE) – Tamil Nadu section on 3rd, 4th and 6th February 2020. The Resource person was R.Sivakumar, CEO-Shiv Robotics, Shiv Robotics R&D Lab, Erode. Er. K.R. Palanisamy, Principal, presided over the function. Dr.S.Senthilarasu, HOD In charge/ECE and M. K. Subramanian, Workshop Instructor were the co-ordinators for the program. Around 150 final year students participated from our college and nearby colleges.



### CAREER GUIDANCE PROGRAMME

Sakthi Polytechnic College, Sakthi Nagar, ISTE students chapter joined with Placement cell, organized three days Career Guidance Programme for all the final year students. The Resource person for the programme on 13.02.2020 was Thiru.M.Santhanam, Programme leader, DHAN foundation, Chennai and he discussed on "Awareness Program on Foreign Employment". The Resource person for the programme on 14.02.2020 was Thiru.K.Vijayakumar, Coimbatore Marine Engineering College and he discussed on "Avenues in Higher Education". The Resource person for the programme on 22.02.2020 was Thiru.P.SivarajaDhanavel, Kongu Engineering College, Perundurai and he discussed on "Brand Yourself". Er.K.R.Palanisamy, Principal, presided over the function. Er.M.Senthilkumar and Dr.S.Senthilarasu were the coordinators for the program.









## ALUMNI CORNER



I am **R.S.Venkatachalam** (wizaard system coimbatore) student of 83 - 86 batch. This college has laid a strong foundation for my knowledge in technology. My professors were great in sharing their knowledge with us. This college has taught me about hard work, perseverance and endurance. I am very proud to be an alumni of this college and whatever I am today I will owe it to my college



### SRIDHAR. K.S.

Designation: Associate IT Director

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SIT's Electronics and Communication department is an efficient, self-contained, and quality conscious entity with motive to producing the energetic, professionally competent Electronic Engineers. The department is very well organized with Qualified and Industrious faculties and highly skilled technical staffs who helps to bring the best from every student. Nonetheless, the lab facilities always has the latest equipments which allows students to gain knowledge on electronic devices.

## PLACEMENT

Our students are Placed in the following reputed companies:-

 TATA ELECTRONICS	 CENTUM ELECTRONICS	 EMERTXE
 NOKIA SOLUTION	 FLEXTRONICS	
 SAKTHI AUTO COMPONENT LTD	 LGB COIMBATORE	
 LMW COIMBATORE	 CEAT TYRES	



## FACULTY DEVELOPMENT PROGRAM



Faculty Development Programme sponsored by NITTTR, Chandigarh on **Embedded System and IoTs** organized by our Department from 23-09-19 to 27-09-19. Faculty members from our institute and neighbouring institutions were actively participate in the program.

## TECH ZONE

### World's largest supercomputer SpiNNaker

SpiNNaker is the world's largest supercomputer that is designed to work in the same way as the human brain works.

SpiNNaker is the Spiking Neural Network Architecture. In real-time, this machine can model several biological machines than any other device on the planet.

It is capable of completing more than 200 million actions per second, with each other of its chips having 100 million transistors.

No doubt this supercomputer is unique because it does not communicate by sending large amounts of information from point A to B through standard network like any other computer.

