

2021-2022

Department students chapter Activities:



Faculty Development Program conducted by the department:

 <p>AICTE Training and learning (ATAL) Academy Face to Face Faculty Development(FDP) Programme on</p> <p>Internet of Things (IoT) using Arduino & Raspberry Pi</p> <p>06.12.2021 to 10.12.2021</p> <p><i>Sponsored by</i> All India Council For Technical Education, New Delhi</p> <p><i>Organized by</i> DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.</p>  <p>SAKTHI POLYTECHNIC COLLEGE SAKTHI NAGAR-638 315 Anthiyur Taluk, Erode District. Govt. Aided & ISO 9001-2015 Certified Institution</p>	<p>About SPC</p> <p>Sakthi Polytechnic College has been sponsored by the Sakthi foundation as one of its developmental programmes. The mission of this institution is to impart technical education to the rural students. PadmaBhushan, late Dr.N.Mahalingam, the famous industrialist, educationalist and philanthropist was the promoter of the foundation and the institution. The institution is managed by a Governing Council with Dr.M.Manickam,M.Sc,M.R.A. Chairman, Sakthi-Sugars Ltd as the Chairman of the council.</p> <p>Sakthi Polytechnic college, started functioning in September 1981. We are offering 3 year Diploma courses in Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Metallurgy, Agricultural Technology, Instrumentation and Control Engineering and Computer engineering.</p> <p>The College is situated in a sprawling area of 31 acres Campus near Sakthi Sugars Ltd at Appakudal on Bhavani to Sathyamangalam main road (Via Athani),18 Km from Bhavani.</p> <p>It is a matter of pride that Sakthi Polytechnic College was the first institution in this area to offer conventional diploma courses. The institution has been approved by the All India Council for Technical Education.</p> <p>About the Dept of ECE.</p> <p>The department has well established laboratories and computer centre to meet the needs of the industry. The faculty members are highly qualified and well experienced to educate the students with the support from able technicians.</p>	<p>About the course</p> <p>Internet of Things (IoT) is a network infrastructure that connects physical objects and software applications wirelessly, allowing them to communicate with each other and exchange data via the cloud.</p> <p>This programme focuses on hands-on IoT concepts such as sensing, actuation and communication. It covers the development of Internet of Things (IoT) prototypes including devices for sensing, actuation, processing, and communication to help you develop skills and experiences. The Internet of Things (IoT) is the next wave, world is going to witness. Today we live in an era of connected devices the future is of connected things.</p> <p>In this instructor-led, live training, participants will learn the fundamentals of IoT as they step through the creation of an Arduino-based IoT sensor system.</p> <p>Course Content</p> <ul style="list-style-type: none"> • Introduction to IoT. • Sensor Technology • IoT Architecture • About Arduino IDE. • Interfacing Sensor With Arduino. • Raspberry Pi • Connect temperature, humidity sensor etc- Hands on Training using Arduino and Raspberry Pi. • Cloud-IoT • Security and privacy issues in IoT • Industrial IoT • Potential IoT applications like Smart health, Smart home, etc. • Practical demonstration using Thing speak. • Art of Living
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A guest lecture on 'Cloud Computing' was organised by the Association of ECE department on 02.12.2021. Mr Madeswaran, MCA., Infra Solution Architect, Qualcomm India Pvt. Ltd, Bengaluru and Alumni (2004 Batch) of ECE delivered the speech. Second year and Third Year ECE students participated in the program.



A forum meeting on "Patch Antenna and Its Application" was arranged on 05.05.2022 for the Second and Third Year ECE students. Mr Karthikeyan Angappan, M.E, Research Scholar, Karunya Institute of Technology and Sciences, Coimbatore addressed the gathering.



Second year and Third Year students visited the KDHP Co. Pvt. Ltd @ Munnar, Kerala as a part of their Educational activity.

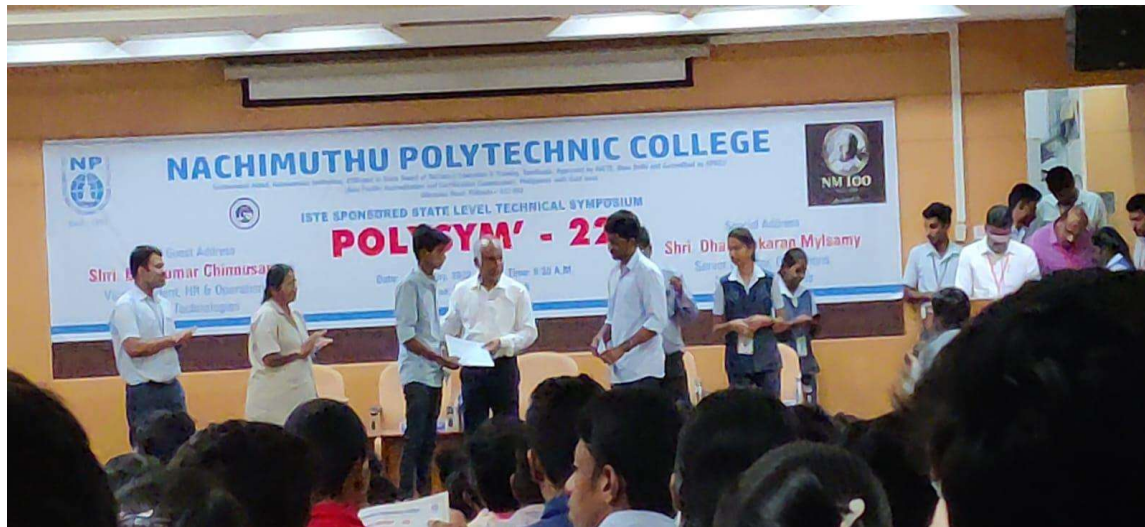


Mahindra Pride Classroom conducted a one-week Hands on Training on "Internet of Things (IoT)" at our Institution from 15.03.2022 to 23.03.2022 as a part of their CSR activity. 30 students from ECE branch enhanced their knowledge by attending the workshop.

A. Lingeswaran and Keerthi Vasan of Final year ECE participated in the POLYSYM 22 project presentation held on 20.05.2022 @ Nachimuthu Polytechnic, Pollachi and won Second prize for their project IoT based Blind Robot.



Selvan S Shihabudeen and Selvi S Kaviya of II ECE participated in the in the POLYSYM 22 paper presentation contest held on 20.05.2022 @ Nachimuthu Polytechnic, Pollachi and won First Prize in the paper presentation contest on the topic “Recent Trends in Electric vehicle”



Selvan Shihabudeen, II ECE student participated in the state level symposium conducted by Sankara Polytechnic College, Coimbatore and presented a paper on the topic “Recent Trends in Hybrid vehicles”

Kavin Prasanth and Prithvirajan of Final year ECE won third prize in the Project Expo conducted by ED cell on 30.05.2022 for their project IoT based Virtual Doctor Robot.

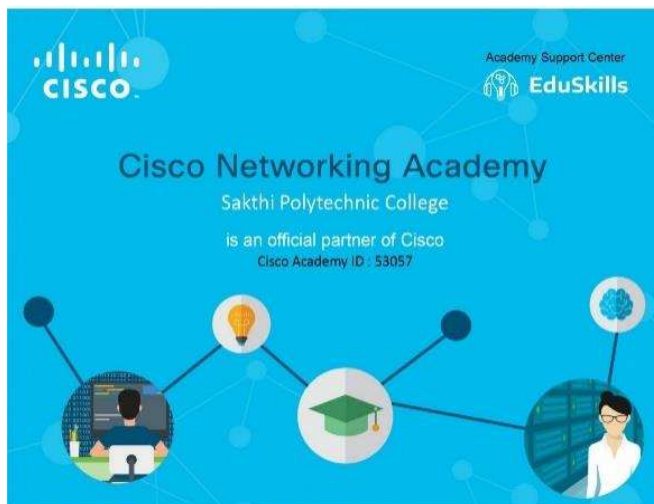
2020-2021

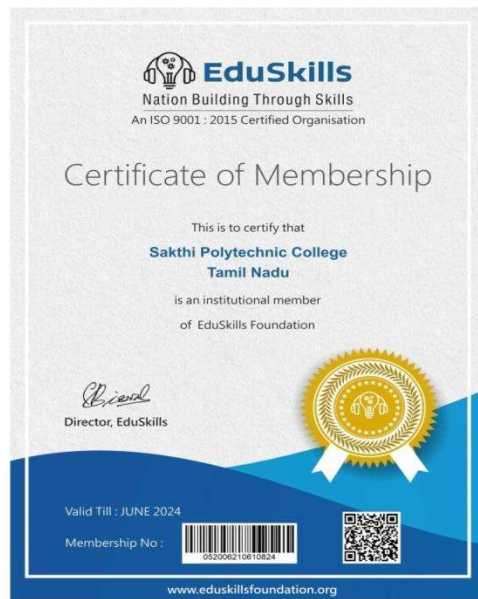
Year:2020-2021					
Sl. No	Roll No.	Name of Student	Event	Name of the Institute	Prize/Participation
1.	18EC424	KOKILA S	Paper Presentation	PAC Ramasamy Raja Polytechnic College	I Prize
2.	20EC468	VIGNESH A	Poster Presentation	Excel Polytechnic College	Participation
3.	20EC463	LINGESWARAN A	Poster Presentation	Excel Polytechnic College	Participation


Department Association meeting on **Patch Antenna** conducted 05.05.2022 . Mr G.Karthikeyan, Research Scholar , Karunya University .




The 2nd DAB meeting was conducted in the presence of Industry expert, Academic expert, Alumni, Parent, Student and the department faculty. The meeting started with a welcome address by Mr.K.Saravanan, NBA Coordinator and Lect (Sr.Gr) Dept. of ECE, extending a warm welcome to the Department Advisory Board members, then the items listed below were taken for discussion.







All India Council for Technical Education




Indian Society for Technical Education

Sponsored
SIX DAYS
INDUCTION/REFRESHER PROGRAMME ON

Industrial Automation using PLC & SCADA

Batch 1 : 03.02.2021 to 09.02.2021
Batch 2 : 24.02.2021 to 02.03.2021
Batch 3 : 24.03.2021 to 30.03.2021

Organized by
ELECTRONICS AND COMMUNICATIONS ENGINEERING
Coordinator
Dr.S.SENTHIL ARASU
HOD In charge / ECE



SAKTHI POLYTECHNIC COLLEGE
SAKTHI NAGAR-638 315
Anthyur Taluk, Erode District.
Govt. Aided & ISO 9001-2015 Certified Institution

About SPC

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About the Dept of ECE.

The department has well established laboratories and computer centre to meet the needs of the industry. The faculty members are highly qualified and well experienced to educate the students with the support from able technicians.

About the course

Industrial automation is a set of technologies that uses control systems and devices, such as computer software and robotics, to enable automatic operation of industrial processes and machinery without the need for human operators. Industrial automation eliminates the possibility of human error, reduces costs, saves time, and achieves higher performance.

A PLC is a ruggedized, digital industrial computer control system that is preprogrammed to carry out automatic operations in industrial processes. The PLC continuously monitors and receives information from input devices or sensors, processes the information, and triggers the connected output devices, to complete the task in the industrial process or machinery.

SCADA systems control and monitor industrial processes. The system acquires and processes real-time data through direct interaction with devices, such as sensors and PLCs, and records events into a log file. SCADA is important for data analysis, and enables effective decision-making for optimization in industrial processes.

Course Content

- PLC Architecture
- PLC Programming
- Instructions (Basic & Advanced)
- P&ID Diagram
- Simulation
- Interfacing PLC With Sensors- Demo
- Control Panel Designing
- DCS
- Working with SCADA
- Application Development Using SCADA
- Industrial Applications
- Art of Living

Outcome Of the Workshop:

Participants will acquire the knowledge of configuring, programming, installing and operating of industrial automation systems using PLC, SCADA and DCS.

Resource persons :

Eminent personalities from Academic Institutions and Industries.

Eligibility:

- ◆ Faculty members from AICTE Approved institutions (Polytechnics & Engineering Colleges), Research Scholars and Industry Personnel are eligible to Apply.
- ◆ Seats are limited and the participants will be selected on first come first serve basis. Selected candidates will be intimated through e-mail only.
- ◆ Certificates will be issued only to those participants who have attended the program with minimum 80 % attendance and scored minimum 60 % marks in the test.

Registration Fee:

- ◆ Free for all the participants.
- ◆ Registration can be done only through the following links.

Phase 1: <https://forms.gle/fHQ9Gc3TFZwEexp5>

Phase 2: <https://forms.gle/SAA4iRbBPRHotsFU8>

Phase 3: <https://forms.gle/9hR9vsVnofyocthR7>

Intimation of selected candidates through e-mail only

Dates to Remember

Batch 1

Last date of Registration of Applications: 28.01.20
Date of the Programme: 03.02.2021 to 09.02.2021

Batch 2

Last date of Registration of Applications: 18.02.20
Date of the Programme: 24.02.2021 to 02.03.2021

Batch 3

Last date of Registration of Applications: 18.03.20
Date of the Programme: 24.03.2021 to 30.03.2021

HURRY UP!
limited seats only!

**For Further details, Contact**

Dr.S.SENTHIL ARASU

HOD in charge / ECE & Co-ordinator

Sakthi Polytechnic College,
Sakthi Nagar- 638315
Erode Dist. Tamilnadu.

Organising Committee**Chief Patron**

Dr.M.Manikkam
Chairman,
Sakthi Group of Companies

Patron

Thiru.Thiruvankadam,
Correspondent
Sakthi Polytechnic College,

Convener

Thiru.K.R.Palanisamy,
Principal
Sakthi Polytechnic College,

Coordinator

Dr.S.SENTHIL ARASU

**Organising Committee**

Mr.K.Saravanan, Lecturer (Sr. Gr)
Mr.A.Balachandran, Lecturer (Sl. Gr)
Mr.P.V.Raghunath, Lecturer
Mr. V.Sankar, Lecturer

2019-2020

Department students chapter Activities:

Sl.No	Date	Details of Events / Activities
1	09.01.2020	Inauguration of ISTE Students Chapter by Dr.A.SANKARASUBRAMANIAN,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- R.Ravisrinivasan, Head(Hr) Mktron Group
4	13.02.2020	Awareness Program On Foreign Employment By Thiru.M.Santhanam, Programme Leader, Dhan Foundation, Chennai.
5	14.02.2020	Avenues In Higher Education By Thiru.K.Vijayakumar, Coimbatore, Marine Engineering College.
6	22.02.2020	Brand Yourself By P.SivarajaDhanavel, Kongu Engineering College,Perundurai
7	06.03.2020	Industry 4.0 By Dr.V.S.Saravanan, 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:

Year: 2019-20		
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

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.



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.