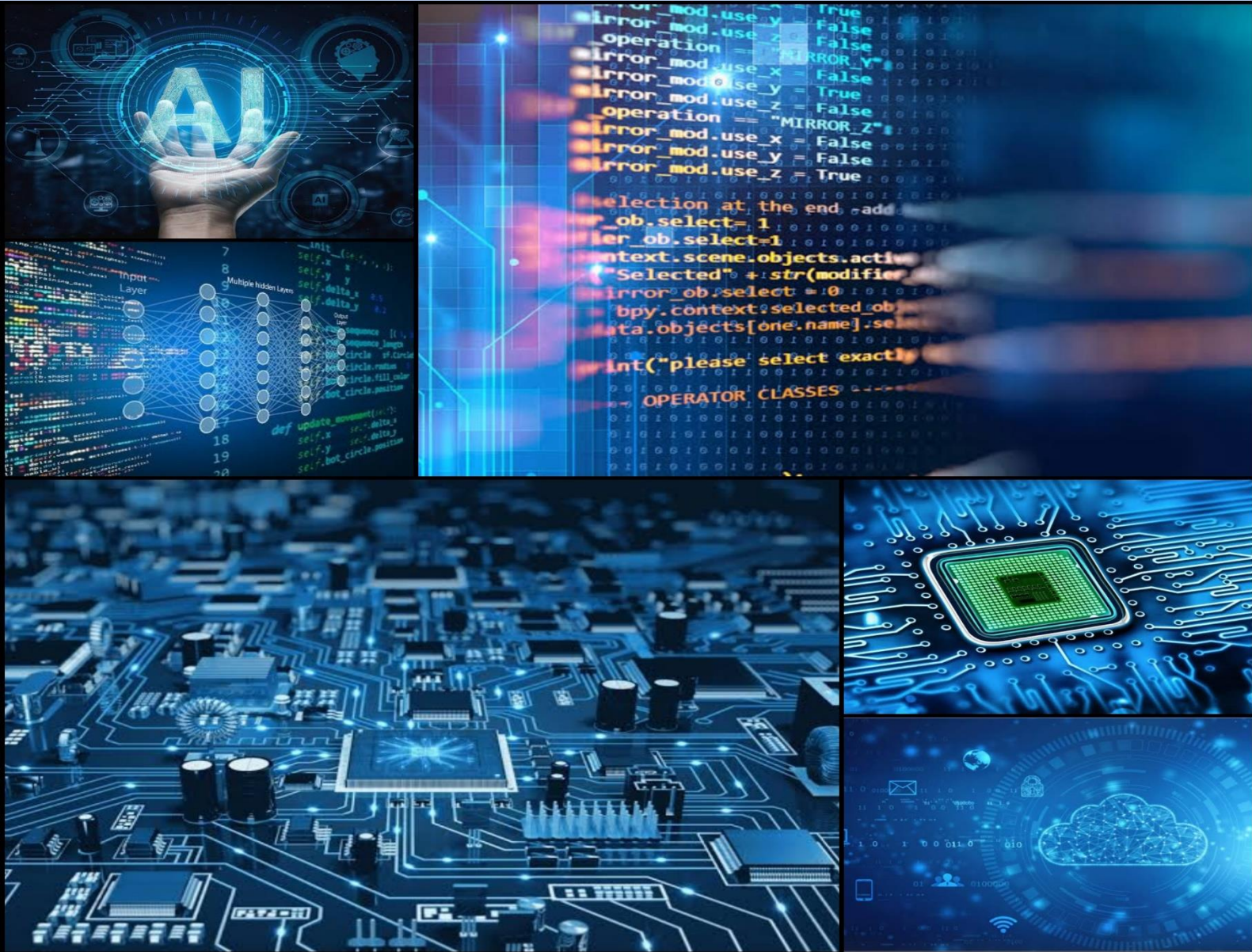


Department of Electronics and Computer Science

Newsletter 2022



Mahavir Education Trust's

SHAH & ANCHOR KUTCCHI ENGINEERING COLLEGE

Affiliated to University of Mumbai, Approved by AICTE & DJE, M.S.

Grade 'A' awarded by DJE, MS



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Our Creative Team

Technical Advisor

Dr. Subha Subramaniam
(HoD ECS Department)

Chief Editor

Prof. Babychen Mathew
(Associate Professor)

Associate Editors

Prof. Pooja Polshetwar
(Assistant Professor)

Prof. Jayshree Gajare
(Assistant Professor)

Prof. Nirmol Munvar
(Assistant Professor)

Graphic Design

Prof. Nirmol Munvar

Student Editor

Satyam Jagdale
(B.E. Electronics)

Department Vision

Impart Quality Education in Electronics and computer science engineering to create world class technocrats and entrepreneurs to meet industry standards

Department Mission

To deliver quality academic program in electronics and computer science engineering

To develop skilled professionals capable of providing Electronics and Computer based solutions giving emphasis in R&D for meeting industrial challenges

To improve employability and entrepreneurship of electronics and computer science engineers with ethical and professional approach

FROM THE PRINCIPAL'S DESK



Newsletter “Computronics” represents creativity and talent of students and staff of Electronics and Computer Science department, SAKEC. In this digital transformation era, staff and students of Electronics and Computer Science department, SAKEC participated in various online programmes and channelized their energies in the right direction.

The Famous quote of “SOCRATES” says,

“The Secret of change is to focus all of your energy, not on fighting the old, but on building the New”.

Looking forward for more achievements in the upcoming years.

Dr. BHAVESH PATEL

Principal, SAKEC



FROM THE HoD's desk

Amid the COVID gloom, our staff and students of Electronics and Computer Science department, SAKEC are stepping up forward and working together to bring up this departmental Newsletter “COMPUTRONICS 2022”.

This is possible due to implementing remote working practices and virtual meetings. Electronics and Computer Science Department, SAKEC implemented long-term virtual teaching and learning. In this digital era, our staff and students published papers, delivered and attended webinars and participated in various competitions.

I congratulate the Editorial staff, student team and Prof.B.Mathew, Chief Editor for their remarkable hard work in bringing out this newsletter. I heartily congratulate the achievements of staff and students of our department.

Dr. SUBHA SUBRAMANIAM

HoD, Electronics and Computer Science, SAKEC



Our Beloved Faculty

Teaching Staff

Dr. Subha Subramaniam – Associate Professor, J/C HoD

Ms. Shikha Shrivastava – Associate Professor

Mr. B. K. Matthew – Associate Professor

Mr. N. S. Narbhede – Associate Professor

Ms. Rameshwari Mane – Assistant Professor

Ms. Shubhangi Motewar – Assistant Professor

Ms. Manisha Mane – Assistant Professor

Ms. Anita N – Assistant Professor

Ms. Preetki W – Assistant Professor

Ms. Aprajita B – Assistant Professor

Ms. Madhura P – Assistant Professor (AdHoc)

MR. Santosh Kamble – Assistant Professor (AdHoc)

Mr. Nirmol Munvar – Assistant Professor (AdHoc)

Dr. (Mr.) Vinit Kotak – Professor

Mr. P. G. Khedkar – Associate Professor

Ms. Vidya Gogate – Associate Professor

Ms. Asha Durafe – Assistant Professor

Ms. Salabha Jacob – Assistant Professor

Ma. Manjusha P.K. – Assistant Professor

Dr. Sarisha B – Assistant Professor

Ms. Jayskree R. B. – Assistant Professor

Ms. Nibha Desai – Assistant Professor

Mr. Amit Tiwari – Assistant Professor

Ms. Pooja P – Assistant Professor (AdHoc)

Technical Staff

Mr. Mahendra Dhuri

Ms. Ashwini Sawant

Ms. Jhanvi Deshpande

Ms. Jhanvi Ambare

Our Beloved Faculty



CompuTronics 2022

Convocation – Electronics Batch 20-21



Congratulations.



Our Esteemed Alumni

Hello my fellow students of SAKEC, my name is Siddhi Kadam and I passed out from Shah & Anchor with a BE degree in Electronics Engineering from the 2017 batch. I did my M. Tech from VJTI and then secured a job in UST global as a Verification Engineer which is a core job in the VLSI field.

As you can understand that I am working in the core industry, it is no surprise that the environment and the faculty at SAKEC helped me build up my skills and confidence for being able to be a professional in the field. I would like to extend my heartiest thanks to Dr. Subha Subramaniam and Prof. Sushma Shrivastava for their contributions in teaching me the field of VLSI and getting clear with the basics of CMOS technologies.

A day in Shah & Anchor was of huge anticipation and happiness for me, the teachers were extremely approachable and my smallest of queries were solved by them. Another thing was my group. I made some special bonds being here in SAKEC some of which I am sure will last through my life, and a lot of unforgettable friends and memories. With every festival and competition and even the projects, with every assignment, journal and viva we had to submit, it was a complete journey which I enjoyed to the core.

My friends were there for me during the thick and thin of my life during SAKEC, as it was not all sunshine and rainbows, however, coming to the college and being with my friends, even being a little bit of an introvert, the group and the faculty really understood me and helped me to get me where I am today. I would like to extend a heartier thanks to Prof. Asha Durafe, Prof. Shubhangi Motewar and Prof. Shikha Shrivastava for their additional contributions and guidance in my time in SAKEC.

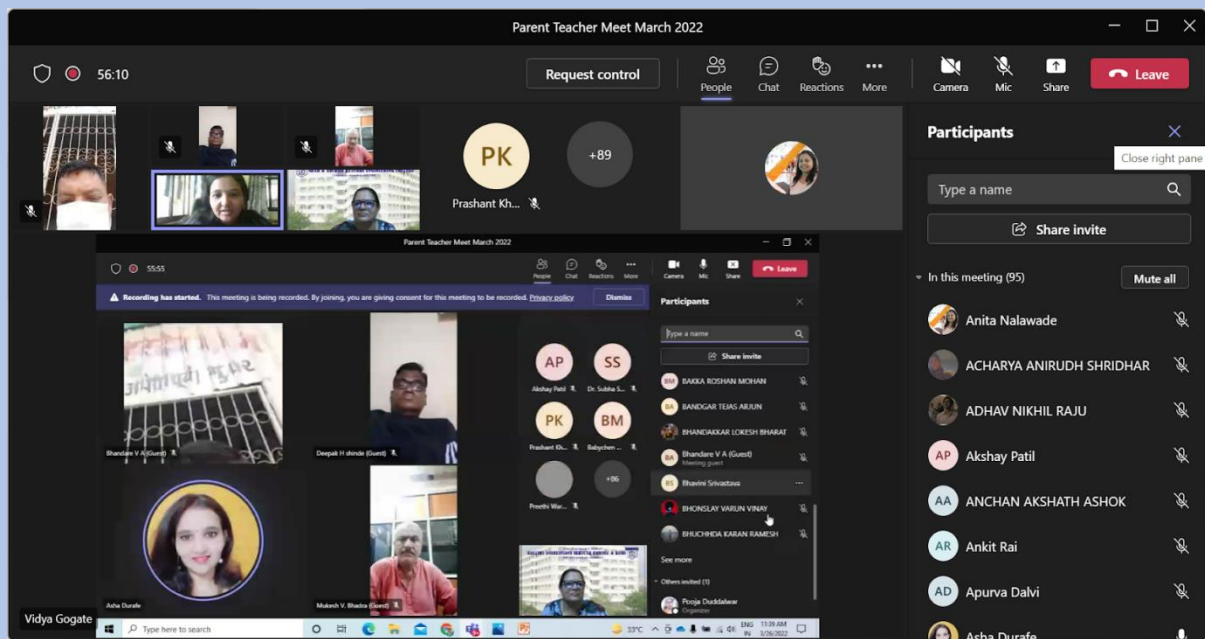
Today I am a proud alumna of SAKEC and given that I feel that a lot of my peers feel the same.



Parent Teachers Meet – March 2022 Event



Parent teacher meeting was held on Saturday, 26th march 2022 at 11.0 am, in online mode (Microsoft teams) due to covid pandemic. About 80 parents were present for the meeting. In the beginning Dr Subha S., HOD informed all the parents about ongoing activities of the department. Madam insisted for regularity in attending all the lectures and practical, which will benefit in improvement in placement of Students. Parents were informed about internship activities. Information about college festival was given to parents with request for encouraging student participation. Parents were happy about all the activities of department and progress of institution.



Project Competition – May 2022 Event

Department of Electronics and Computer Science had organised project competition on 6th may 2022 for department level students of Second year, third year and final year. From SE 124 students, TE 27 student and from BE 49 students participated in competition. Venue for this competition was Lab 202, third floor auditorium and fourth floor auditorium. This competition was organised for encouraging innovative ideas of students, preparing students for industrial environment, giving good exposure on emerging engineering fields. Expert judges from industry Mr. Anjum Mujawar, Mr. Omkar Pai and from Academics Prof. Swapnali Makade assessed these projects. Also, these judges gave valuable inputs to all students for further improvements. At the end winners were declared as follows



Winner from SE

Lalshram Donald

Jha Pranav

Panchal Om

Solanki Mumal

Runner Up from SE

Tangji Abdulrahman

Khan Mohannad Zaid

Shaikh Adil

Het Madhu

Second Runner Up from SE

Sawant Shreya

Surarna Samiksha

Raghuram

Thakare Sakshi

CompuTronics 2022

Project Competition – May 2022 Event



Winner from TE

Aditya Arakade

Sarvesh Sawant

Parth Phodkar

Vedant Patil

Runner Up from TE

Ajit Divakaran

Satyam Jagdale

Satyam Gupta

Ansh Minchekar



Winner from BE

Priyanka Devadiga

Pooja Gauda

Karan Gupta

Priti Jadhav

Runner Up from BE

Parth Patel

Kartik Nisar

Indresh Gupta

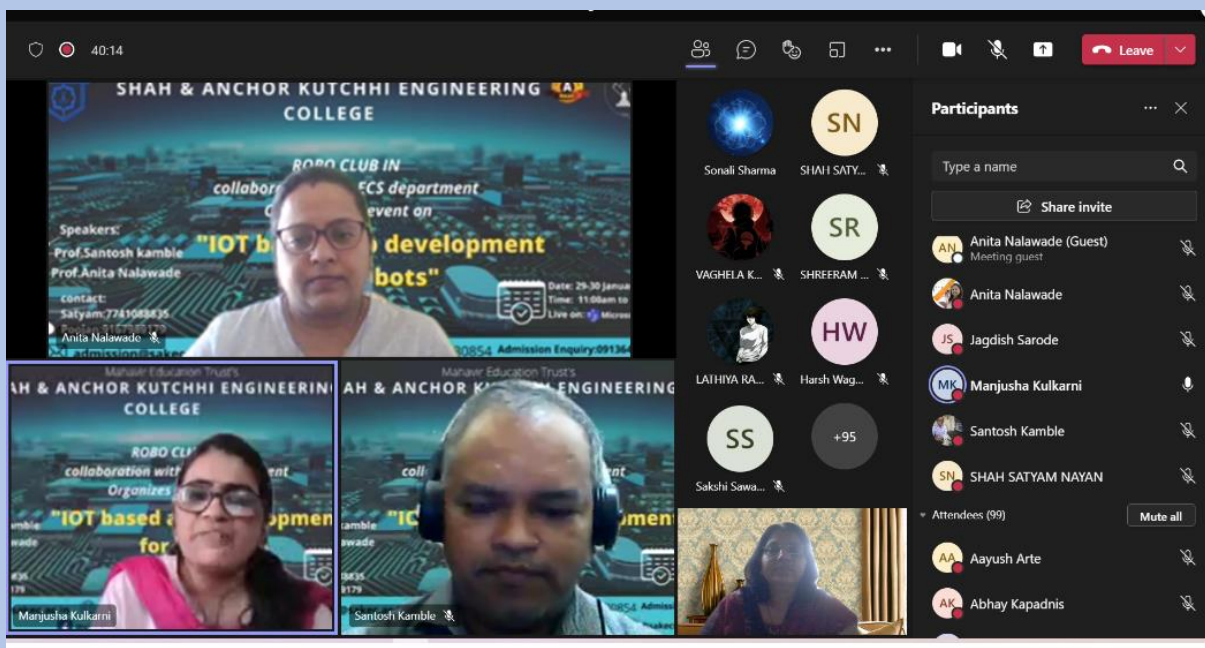
Sagar Kamble

CompuTronics 2022

IoT app Development for Robotics - Jan2022

Workshop

On the first day 29th Jan 2022, Prof. Santosh Kamble presented an overview of hardware in the IoT, then sir introduced participants to the MIT app inventor. Students created an On-Off app to operate the HC05 Bluetooth module on the first day. On the second day, 30th Jan 2022 app developed for Home Automation and Robotic car control using Bluetooth. Prof. Anita Nalawade presented a brief overview of the analytics platform Thingspeak IoT. The app developed for agriculture is useful for monitoring the physical parameters through IoT. Total Number of students who attended this workshop is 105.

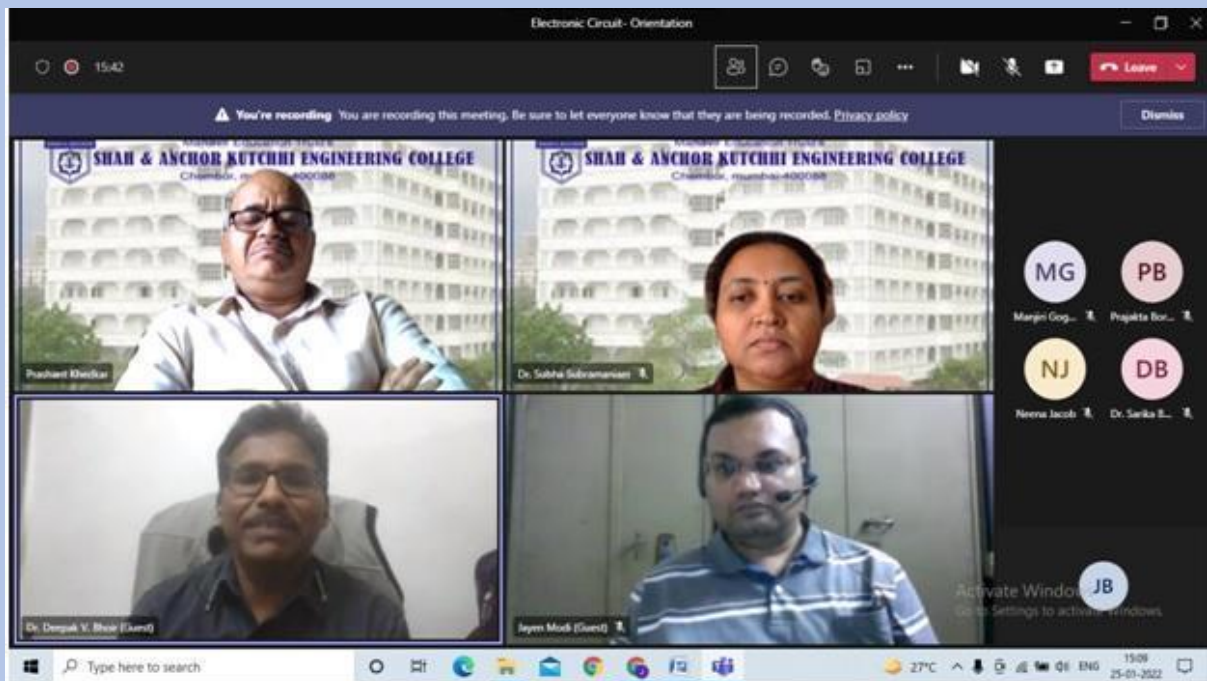


CompuTronics 2022

Electronics Circuits Orientation Sem IV ECS - January 2022

Workshop

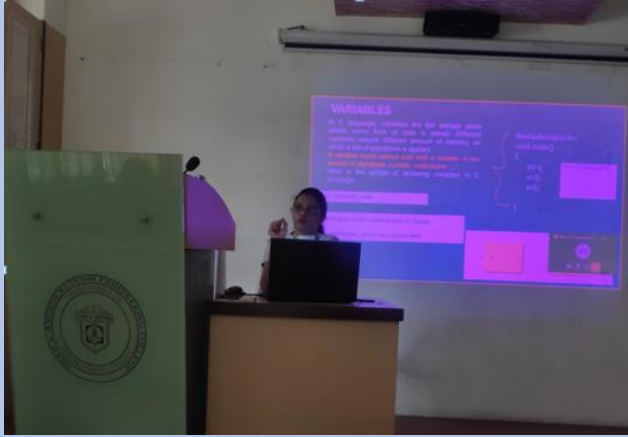
Orientation of “Electronic Circuits”, S.E. (Electronics & Computer Science Engineering), SEM-IV -R2019 C- Scheme, AY-2021-22, was conducted on 25 January 2022. The event was organized by Department of Electronics & Computer Science Engineering, Shah and Anchor Kutchhi Engineering College, Chembur on virtual platform of Microsoft Teams. 8 faculty members from various colleges participated in this virtual orientation. Prof. Jayen Modi (FRCRCE), Dr. Deepak Bhoir (FRCRCE), Dr. Subha Subramaniam and Prof. Prashant Khedkar were the resource persons for the event.



CompuTronics 2022

C Programming Webinar - December 2021

Workshop



Department of Electronics and Computer Science successfully organized a technical webinar on “Basics of C Programming” on 27th December 2021. Prof. Madhura Pednekar introduced the fundamentals of C programming, different data types, operators, control structures, function, pointers. Webinar was coordinated by Prof. Madhura Pednekar under the

guidance of Convenor Dr. Subha Subramaniam, HOD, Electronics and Computer Science department. We would like to thank our Principal, Dr. Bhavesh Patel, Head of Department Dr. Subha Subramaniam & SAKEC Management for their encouragement and continuous support for making this webinar successful.



Mahavir Education Trust's
SHAH & ANCHOR
KUTCHHI ENGINEERING COLLEGE
Chembur, Mumbai- 88
Affiliated to University of Mumbai
Institute Code 3148



Department of
Electronics & Computer Science
Organizes
Webinar on
Basics of C Programming
27th December 2021

Convenor:
Dr.Subha Subramaniam
HOD,ECS Department

Coordinator:
Mrs.Madhura Pednekar
Assistant Professor(ECS)

Admission Enquiry

www.shahandanchor.com admission@sakec.ac.in 022-25580854 09136400555

[@shahanchor](#) [@sakec_chembur](#) [@sakectweets](#) [@school/sakec](#)

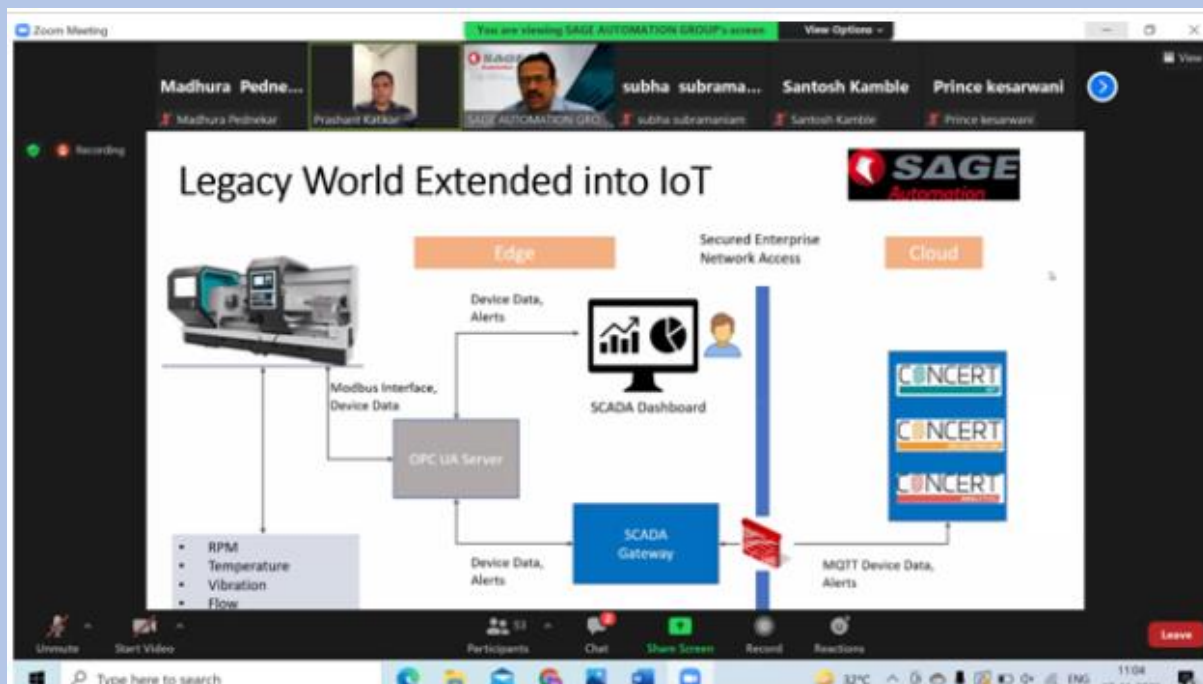
CompuTronics 2022

Webinar on Industrial Automation - November 2021

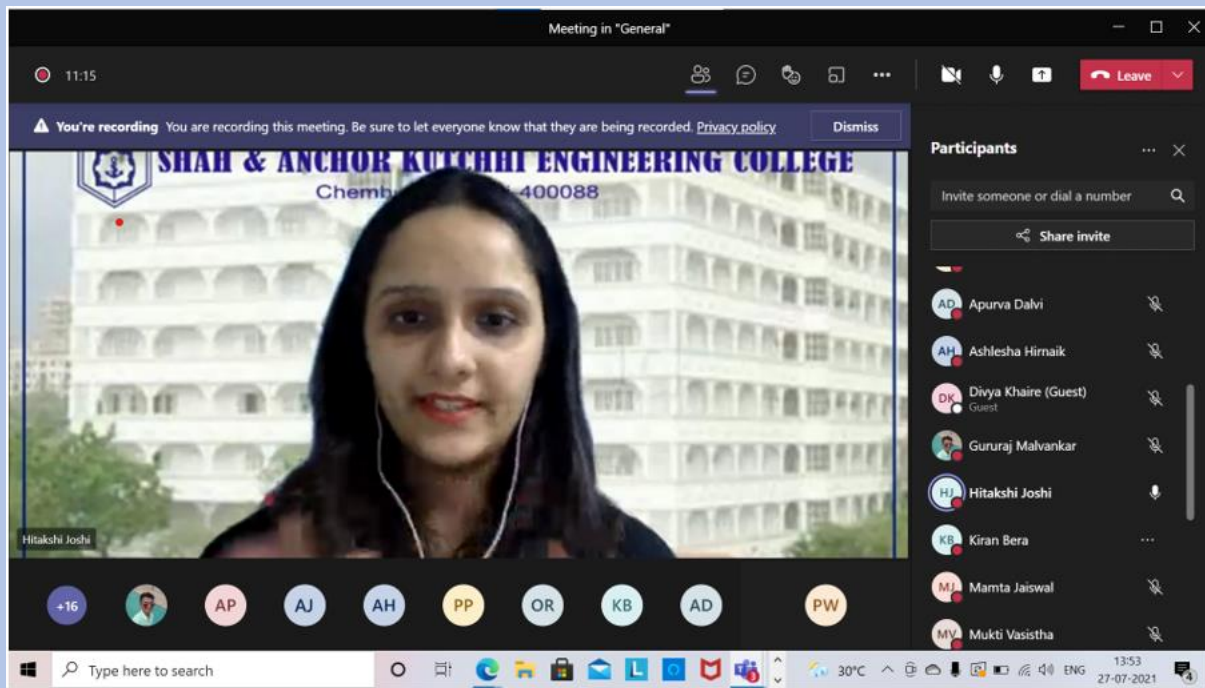
Workshop



Department of Electronics and Computer Science successfully organized a technical webinar on “Advanced Technologies in Industrial Automation” on 17th November 2021. Mr. Shreeniwas Kulkurni and Mr. Prashant Katikar, Industry Experts from Sage Automation, Thane, conducted this webinar on Advanced Technologies in Industrial Automation. Webinar was coordinated by Prof. Madhura Pednekar and Prof. Pooja Polshetwar from Electronics and Computer Science department. We would like to thank our Principal, Dr. Bhavesh Patel, Head of Department Dr. Subha Subramaniam & SAKEC Management for their encouragement and continuous support for making this webinar successful.



Our Counsellor/Psychologist Ms. Hitakshi Vyas Joshi conducted workshops on Professional Skills with our TE and BE students, on 27th July and 29th July 2021 respectively. To train our students on how to crack the interview and what kind of skills are required while giving an interview. Also, the counsellor explained how to deal with anxiety during interview or placement time, which motivated them to perform better in their personal interview.



CompuTronics 2022

IoT Hardware, Software and Applications Internship - June 2021

Workshop

Our Department of Electronics and Computer Science, organized two-week ONLINE Internship on “IoT Hardware, Software and Applications” from 21st June 2021 to 2nd July 2021 for total 545 students from different colleges in this pandemic covid-19 lockdown situation. This two-week Internship was convened by the HOD, Dr. Subha Subramaniam and coordinated by Prof. Santosh Kamble and Prof. Madhura Pednekar. The internship was conducted completely ONLINE and free of cost. This Internship was a huge success for the SAKEC family as total 37 colleges has participated in this.

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KUTCHHI ENGINEERING COLLEGE
AFFILIATED TO UNIVERSITY OF MUMBAI, APPROVED BY D.T.E & A.I.C.T.E

Electronics & Computer Science Department
Presents
Two Weeks ONLINE Internship Program on
"IoT hardware , Software and Applications"

COORDINATORS
Prof. Santosh Kamble ,
Prof. Madhura Pednekar

CONVENER
Dr. Subha Subramaniam

Internship Dates
21/06/2021 to 02/07/2021

Register Here:
<https://forms.gle/nM8Egu30TEsXjVA>

For more details Contact: 9629573717 / 9926217330

Dr. Bhavesh Patel
Principal

Prof. Santosh Kamble
Coordinator

Dr. Subha Subramaniam
I/c HOD

Prof. Madhura Pednekar
Coordinator

Summer Internship-2021

Avishkar Research Convention 2021-22

Achievements Beyond Academics

For the Avishkar Research Convention 2021-2022 district selection round, three research project groups were registered from Department of ECS at UG level.

Following project groups have participated in the competition.

Self-Driving Car Using Machine Learning and Neural Network

Students

Hublikar Haroon Keny Atharva Khan Sawood Ghonge Rahul

Mentor – Prof. Salabha Jacob

AI Based Fire Exterminating Robot

Students

Jaiswara Gunjan

Smit Salvi

Sakshi Savant

Mentor – Prof. Shubhangi Motewar

Detection of Chronic kidney Diseases using Artificial neural Network

Students

Srivastava Bhavini

Lalan Sneha

Ved Kushal

Mentor – Dr Sarika Bukkavar

Participants and mentors were rewarded with participation certificates

Spoken Tutorial Student Achievements

Staff Examination

Sem	Name	Course	Date	Percentage	Total
Odd	-	-	-	-	
Even	Prof. Madhura Pednekar	Android App Using KOTLIN	25/3/22	70	
		PHP MYSQL		77.5	

Students Examination for AY – 2021-22

Branch	Class	Tutorial Topic	Date of Exam	Appeared	Pass	Passing %
Electronics Engineering & Electronics & Computer Science	FE	-	-	-	-	
	SE	Python	30/10/21	39	36	89.74%
	TE	HTML	16/10/21	21	20	95.24%
	BE	Python		29	26	89.66%
	SE	3.4.3	25/3/22	50	43	86.00%
	BE	GIT	25/3/22	5	3	60.00%

List of Student Toppers

Name	Percentage	Subject Name
Vendant Patil (TE)	82.5	HTML
Satyam Jagdale	80	
Omkar Rakshe	80	
Aditya Arkade	72.5	
Sarvesh Savant	72.5	
Apurva Dalvi	72.5	
Nikesh Chauhan (BE)	75	Python 3.4.3
Karan Gupta	70	
Kalpesh Naik	70	
Parth Patel	70	
Tanmay Patil	70	
Bhavini Srivastava	70	
Sandesh Lingayat (SE)	70	Python 3.4.3 (Special Test)

Project - Self Driving Car Using ML and NN

Student Achievements



Atharva Keny (BE-1-23), Haroon Hublikar (BE-1-14), Rahul Ghonge (BE-1-09), Sawood Khan (BE-1-24), under the guidance of Prof Salabha Jacob and Prof Nibha Desai implemented an economical as well as deployable self-driving car using Machine Learning. Individuals will often drive while fatigued which leads to car accidents. To make our roads safer and improve mobility

for everyone self-driving cars could be a potential solution. This project uses NVIDIA Jetson nano as the main controller, it has a computational performance of about 500 gigaflops. The controller is mounted on the car platform itself and it performs all the necessary computation onboard to drive the car. The car uses a trained Convolutional Neural Network (CNN) which will predict all the parameters that are required for driving a car smoothly. They are directly connected to the main steering mechanism and the output of the deep learning model will determine the steering angle of the vehicle. The project has proven to be a great way through which machine learning can be studied and applied through a hands-on approach.



Electronics & ECS

Result Analysis

Odd Semester Results

SE Sem 099

Subject	Appeared	Passed	Percentage
Engineering Mathematics III	138	138	100%
Electronic Devices	138	138	100%
Digital Electronics	138	138	100%
Data Structures & Algorithms	138	138	100%
Database Management Systems	138	138	100%
Skill Based Lab Course: OOPM (C++ and Java)	138	138	100%
Mini Project 1A	138	138	100%

JE Sem 0

Subject	Appeared	Passed	Percentage
Principles of Control Systems	27	27	100%
Digital Signal Processing	27	27	100%
Linear Integrated Circuits	27	27	100%
Digital Communication	27	27	100%
Computer Organization & Architecture	27	27	100%
Mini Project 2A	27	27	100%

BE Sem 099

Subject	Appeared	Passed	Percentage
Instrumentation System Design	69	69	100%
Power Electronics	69	68	98.61%
Digital Signal Processing	69	60	100%
Neural Networks & Fuzzy Logic	9	9	100%
Advanced Network Technologies	60	60	100%
Management Information Systems	12	12	100%
Cyber Security Laws	57	57	100%

List of Placement Details in 21-2022

Placements

Our students were placed in the following Organizations

- ❖ *Tata Consultancy Services*
- ❖ *Accenture*
- ❖ *Capgemini India*
- ❖ *Cognizant - Gen C*
- ❖ *Cognizant - Gen C Elevate*
- ❖ *Nucsoft Limited*
- ❖ *Cytel*

**GOOD
LUCK
IN YOUR
NEW JOB**



Our Team *Editorial*



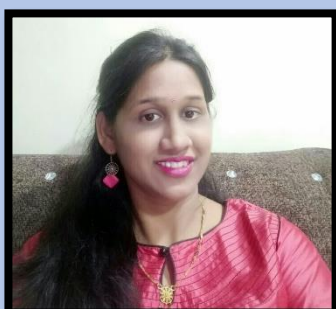
Dr. Subha Subramaniam
(Technical Advisor)



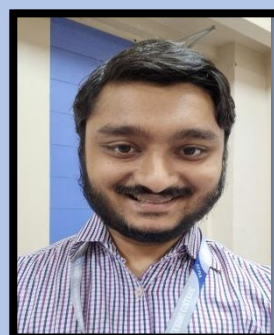
Prof. Babychen Matthew
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Prof Pooja Polshetwar
(Associate Editor)



Prof Nirmol Munwar
(Associate Editor, Graphic Design)



Satyam Jagdale
(Student Editor)