



Annual Report

THE IETE COUNCIL (2018-2019)

K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)



IETE-KJSCE-ISF

Website link: www.somaiya.edu/kjsce/academic/department/19/electronics_telecommunication_engineering

Email: iete.engg@somaiya.edu Contact: 91 022 6644 9191 / 9016 / 9275 / 9175

Photo of members/committee – 2018-2019

Institution of Electronics and Telecommunication Engineers(The IETE Council), KJSCE - 2018-19



Details of events/activities held during academic year 2017-2018

Sr. No. of Event / Activity	Day/Date	Year	Month	No:of participants	Venue	Description of Activity
1.	29 th August	2018	August	83 (students from EXTC)	EXTC Seminar Hall A225	FE Orientation 2018-19

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2.	17 th , 18 th and 22 nd October	2018	October	20 (students from EXTC and ETRX)	EXTC Seminar Hall A225	Workshop on Microcontroller TEXAS INSTRUMENTS MSP430 Technical support: Prof. Akshata Prabhu Speakers: Yash Lakhani , Trivikram Umanath, Guruprasad Bhat, Pranay Dubey , Hamza Sunasra
3.	Abhiyantriki 2018 5 th and 6 th October	2018	October	70 (Open for ALL)	B Building	ABHIYANTRIKI 2018 Tech-eschi's Castle

Sr. No. of Event / Activity	Day/Date	Year	Month	No:of participants	Venue	Description of Activity
4.	26 th January 2019	2019	January	46 (+1 faculty)	--	Nature Walk to Naneghat
5.	18 th February 2019	2019	February	Approx. 30 and a few professors	EXTC Seminar Hall(A225)	Seminar on Music Production
6.	16 th March 2019	2019	March	All members of the IETE Council	All Saints Old Age Home	IETE Social To All Saints Old Age Home
7.	18 th , 19 th and 20 th March 2019	2019	March	37	EXTC Seminar Hall	Workshop on MSP430 Speaker: Prof. Akshata Prabhu
8.	27 th March 2019	2019	March	Approx. 60 participants	EXTC Seminar Hall(A225)	Oscillations 2019 Seminar on potential of Drone Industry and Applications
9.		2019		Approx. 130 participants		Seminar by BYJU's on Profile building, Scholarships and Cracking aptitude Exams
10.	24 th April	2019	April	20		Project Competition

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	2019			(5 groups, 4participants per group)		
11.	8 th May 2019	2019	May	More than 125 awardees And HOD Dr. Ameya .K. Naik Prof. Nitin Nagori	EXTC Seminar Hall (A225)	Convocation Ceremony of batch 2015-19

Reports of event/activity



Sr. No. of Event / Activity	Day/Date	Year	Month	No:of Participants	Venue	Description of Activity
1.	29 th August 2018	2018	August	--	EXTC Seminar Hall	FE Orientation 2018-19

Report of event/activity

Event: FE Orientation 2018-19

The orientations were held with a view of getting the students acquainted with the council (KJSCE-ISF) as well as the department of EXTC. The orientation threw light on the various activities conducted by the ISF in the previous academic year. Students were also briefed about the various activities planned by the ISF for the current academic year. It also involved briefing the students about the benefits of an IETE membership.

Photograph of the Event/Activity



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Report of event/activity

Event – Workshop on Microcontroller TEXAS INSTRUMENTS MSP430

The IETE Council of KJSCE conducted a workshop regarding MSP430 Microprocessor. The workshop targetted the first and the second year students. It gave them an overall idea of how the microcontroller MSP430 works and its programming.

The details of the workshop are as follows:

Inter-disciplinary Activity

Duration: 3 days

Date of conduction: 17, 18 , 22nd October

Time: 5:45 to 7:45pm

Workshop conducted by: The IETE Council, KJSCE

Faculty advisors: Prof. Ameya Naik

Prof. Nitin Nagori

Technical support: Prof. Akshata Prabhu

Speakers: Yash Lakhani , Trivikram Umanath, Guruprasad Bhat, Pranay Dubey , Hamza Sunasra

Workshop Fees: ₹200 for IETE Members and ₹260 for Non Members

Participation:-

Itinerary:-



Session 1:-

- MSP430 – Hardware
- Differences between Analog and Digital signal
- Pulse width Modulation
- Duty cycle
- Variation in brightness of LED by PWM of signals
- Inbuilt function: analogRead(), analogWrite(), digitalRead(), digitalWrite()
- Basics of Programming
- LED Interfacing
- Programming MSP430 to blink an LED
- Fading of LED
- Push Buttons
- Connecting it on MSP430 board
- Coding of MSP430 to switch on an LED when the button is pressed

SESSION 2:

- Buzzer
- Activating the buzzer
- Melody
- What is Serial Communication?
- Start and Stop bits ,Baud Rate
- Practical Serial Communication
- Serial Monitor
- Potentiometer and it's connection to MSP430
- Programming of MSP430 to read POT
- Temperature Sensor
- Connection of LM35 to MSP430 to read Temperature

SESSION 3:

- Ultrasonic Sensor
- Connecting it to MSP430
- Programming of MSP430 to use Ultrasonic sensor to find the distance
- Bluetooth module HC05
- Connection of HC05 to MSP430 with use of voltage regulator

Programming of MSP430 to use HC05 to control an LED

Take Away:

1. Electronic components:-
 - Resistors,
 - Breadboard
 - jumpers
 - 10K Potentiometer



- LEDs,
 - Buzzer
 - Bluetooth module HC05
 - Buttons
 - Temperature sensor (LM35)
 - Voltage Regulator
2. Certificate of Successful Completion.

Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
3.	Abhyantriki 2018 5 th and 6 th October	2018	October	70 (Open for ALL)	B Building	ABHIYANTRIKI 2018 Tech-eschi's Castle

Report of event/activity

Event – ABHIYANTRIKI 2018-Tech-eschi's Castle

INTRODUCTION

Every year, the IETE Council of KJSCE organises a tech event at the college's technical fest, ABHIYANTRIKI. This year too the culture was followed. The event is organised every year with the objective to provide platform for the students to showcase their technical acumen and talent with a competitive spirit.

Abhyantriki was a two day fest this year, held on 5th and 6th October 2018 and the IETE Council had organised a 3 level event "TECH-ESHI'S CASTLE".

OVERVIEW

Tech-eschi's Castle was ramified into 3 levels of knowledge and fun activities. The first two rounds were TechQuiz and Circuit Debugging respectively which checked the player's Technical Aptitude.

The third round was the Final Showdown in which the the player's had to take the field and knock down the opponent's Bot.

The detailed description of the 3 levels is given below,

Round 1 – Tech Quiz

The first rounds was the technical quiz in which the two opponent teams were given a set of questions and they were supposed to connect the terminal at the correct answer to the question terminal and the LED will glow. This round was for 1 minute and each wrong answer would cause a time penalty of 5 sec. The



participants were supposed to answer as many correct answers as possible in the given time.

Round 2 – Playing with Circuits

This round was a circuit debugging round in which the players were given 2 min to find the faults in the given circuit and each wrong identification of the fault would cause a time penalty of 10sec.

Round 3 – The final Showdown

The last round, the Final Showdown was where the participant's battlefield skills were unleashed. Each team comprising of 2 members was given a remote driven Bot with a laser detector. Two teams competed each other and the aim was to knock down opponent's Bot by hitting a laser beam at it's Bot. This was a 10 minute round. The arena consisted of a start point, and end point and 3 check points. The Bot was supposed to reach the end point passing the 3 check points by hitting the opponent's Bot and without getting hit. At each check point the team was made to perform 1 minute activity.

The winner was decided on the total time for the whole event. The two teams with the least time taken were chosen as the winners.

Participant Details:

- Number of Participants: 70
- Department of study of Participants: Miscellaneous(Engineering,Commerce,Diploma)
- The Activity was an Inter-disciplinary activity.

Photos of the Event



Prize Winners



Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
4.	26 th January 2019	2019	January	46 (+1 faculty)	--	Nature Walk to Naneghat

Report of event/activity

Event – Nature Walk to Naneghat

Naneghat is a mountain pass in the Western Ghats range between the Konkan coast and the ancient town of Junnar in the Deccan plateau. We left KJ Somaiya College at 6:30 am with a lot of fun in the bus for 2 hours. The trek began from a base village of Vaisakhare and took 2.5 hours to the summit. At the beginning of the main ascent stone stairs have been laid down. After a tiring yet scenic ascend we reached a large cave at the base of the pinnacle. From there it a very small slope leading to the summit. On reaching the summit it tells like you're on cloud nine with the cool winds rushing and the view of the mountains envelops one in its beauty. We were in all 46 nature lovers and 1 faculty, and a private bus was arranged till the base.



Photos of the Nature Walk



Prof. Mahesh Warang briefing the students



Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
5.	18 th February 2019	2019	February	Approx. 30 and a few professors	EXTC Seminar Hall(A225)	Seminar on Music Production



Report of event/activity

Event – Seminar on Music Production

Date of Conduction: 18th Feb 2019

Venue: EXTC Seminar Hall A225

One of the most successful and one of the recent Seminars conducted by the Council was the Seminar on Music Production. The aim of the seminar was to show how music is composed from scratch. The council proudly hosted this seminar in association with Aman Agarwal and Parth Mehta, (LY EXTC), who are directly involved in the composition of Bollywood and International Music.

The two presenters explained the use of FLT Studio, the software used for electronic music production and also how they applied the knowledge of Electronics and Telecomm in Music Production.

The Seminar was conducted after college hours. We got a great response from the students and a crowd of more than 30 students and a few Professors attended it.

Photo of the

Seminar



Sr. No. of Event /	Day/Date	Year	Month	Time	Venue	Description of Activity
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Activity						
6.	16 th March 2019	2019	March	All members of the IETE Council	All Saints Old Age Home	IETE Social To All Saints Old Age Home

Report of event/activity

Event – IETE Social

We, the IETE council of KJ Somaiya College of Engineering, paid a visit to the All Saints Home, an old age home in Dockyard, on 16th March 2019. The place is home to more than 30 old ladies who left their homes and have been staying there for more than 20 years now. Some of them even migrated from different towns and states. The inmates were very hospitable and friendly, and they welcomed us with their beautiful smiles.

To break the monotony of their lives, we played a few games with them, like Musical Housie, Break the Castle etc. We also made them sing and dance along with us. The residents bubbled with energy as they shook a leg with us, and hummed to the tunes of evergreen songs. It was a different kind of satisfaction altogether, to have seen their toothless smiles and joyous laughs. It felt like the very purpose of the visit had been achieved.

After playing and chitchatting for a while we served them with Theplas and cakes and we even took a few pictures with them.

Later, the lady running the old age home /lightened the atmosphere with her wonderful talk. We sang prayers together. She surely encouraged us to visit them again.

Though we spent only a few hours with them, they made us realize the value of our grandparents and the tenderness with which we need to take care of them. It is going to be very difficult to put every feeling onto paper but all in all, it was an overwhelming experience for all of us and we are waiting for another visit to the place.

Photos of IETE Social



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/ Activity						Activity
7.	18 th , 19 th and 20 th March 2019	2019	March	37	EXTC Seminar Hall	Workshop on MSP430 Speaker: Prof. Akshata Prabhu



Report of event/activity

Event – Workshop on MSP430

The IETE Council of KJSCE conducted a workshop regarding MSP430 Microprocessor. The workshop targeted the first and the second year students. It gave them an overall idea of how the microprocessor MSP430 works and its programming.

The details of the workshop are as follows:

Duration: 3 days, 2 hrs. each day

Date of conduction: 18th March onwards

Workshop conducted by: The IETE Council, KJSCE

Faculty advisors: Dr. Ameya Naik

Prof. Nitin Nagori

Speakers: Prof. Akshata Prabhu

Participation: 37

Itinerary:

Session 1:-

- MSP430 – Hardware
- LCD Interfacing

Session 2:-

- LM35 Interfacing

Session 3:-

- Problem Statements were given and were to be solved using techniques taught in workshop

Take away:

Certificate of Completion

Photos of Workshop

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8.	27th March 2019	2019	March	Approx. 60 participants	EXTC Seminar Hall(A225)	Oscillations 2019 Seminar on potential of Drone Industry and Applications

Report of event/activity

Event – Oscillations 2019 – Seminar on potential of Drone Industry and Applications

A one-day seminar on ‘The Potential of Drone industry and applications’ was organized by the IETE council. The seminar was chaired by Ms. Dharna Nar and Mr. Dhruvin Dodhiya both founders of Drone School India.

The purpose of the seminar was to shed some light on usage of drones and various other aspects such as its potential applications and other developments made in this field.

Approximately 60 participants from all departments had registered. We had a good number of attendees were enthusiast and interacting with both the chairpersons. They were pleased to answer all questions and were very interactive themselves.

At the end of the seminar all the participants got a hands-on experience with flying drones.

Photos of the Seminar



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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
9.		2019		Approx. 130 participants		Seminar by BYJU's on Profile building, Scholarships and Cracking aptitude Exams



Report of event/activity

Event – Seminar by BYJU on Profile building, Scholarships and cracking aptitude exmas

A one-day seminar on 'Profile building, Scholarships and Cracking aptitude Exams' was organized by BYJU's. The seminar was held by Mr. Robin and his other colleagues for almost 3Hours session.

The purpose of the seminar was to acknowledge students about the future scope in various fields by various entrance exams like GATE, CAT,GRE etc.

He in particular gave us information about each and every exam and talked about various universities and their criteria and later by segregating students on basis of what they wish to do, groups of 8 with a mentor in each group.

It was a one to one conversation with mentor and we got more knowledge about how to build profile and more of it.

Approximately 130 participants from all departments had registered. We had a good number of students were interacting with them and clearing their doubts and they were pleased to answer all questions and were very interactive themselves.

At the end of the seminar all the students were glad to gain information about various exams.

Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
10.	24th April 2019	2019	April	20 (5 groups, 4participants per group)		Project Competition



Report of event/activity

Event – Project Competition

IETE, At KJ Somaiya College of engineering held project competition for students of all branches. Total 5 project groups from both the divisions participated in the competition. There were 4 judges for the event.

Confidence building in students is of prime importance in this age of cut-throat competition and the project competition provides an avenue for such endeavour. The judges were happy to point out that the selected projects represented the important areas of information and communication technology and the enthusiastic response of the student community for this event.

The project of students from following batches were adjudged worthy of praise and of competitive industrial acceptance. The prize distribution ceremony for the project competition was held on first week of May at IETE. First prize winner received a cash prize of 3000. Consolation prizes were also awarded to students.

Photos of Project Competition



Sr. No. of	Day/Date	Year	Month	Time	Venue	Description of
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Event / Activity						Activity
11.	8 th May 2019	2019	May	More than 125 awardees And HOD Dr. Ameya .K. Naik Prof. Nitin Nagori	EXTC Seminar Hall (A225)	Convocation Ceremony of batch 2015-19
<p>Report of event/activity</p> <p>Event – Convocation Ceremony of batch 2015-19 KJ Somaiya College of Engineering organized the Convocation ceremony of batch 2015-19 on Saturday 8th May 2019. A total of more than 125 students were awarded the degree during the ceremony. The objective of organizing the ceremony was to give an opportunity to all graduated students to come back to college once again, relive their old memories and get connected with the institution. The event was coordinated by the IETE Council, the ceremony was inaugurated by the honourable HOD Dr. Ameya K Naik. All the graduated students were welcomed by junior students and were presented a convocation stole. Dr. Ameya K Naik, HOD, EXTC welcomed all the students and congratulated them for being official graduates. He wished them for their successful career and asked them to have better association with college. He advised students to focus on skill development and enhance their interpersonal skills. Prizes for the Project Competition were awarded to the winning participants. The members of IETE council were appreciated for their efforts throughout the year with certificates. The whole event was successfully coordinated and everybody appreciated the efforts of department of EXTC, KJSCE. A ceremonial group photograph of all graduates was clicked. Graduated student pledged their allegiance to the college.</p> <p align="center">Photos of the Ceremony</p>						

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