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

ANNUAL REPORT

Computer Society of India-KJSCE Students' Chapter

2017-2018

Name of the organization/ chapter/ project: CSI - KJSCE

K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

List of Members/ Details of Committee: 2017 - 2018

Sr. No.	Name of the Faculty advisor/ in-charge	Department	Portfolio
1.	Dr. Manish Potey	COMPS	Student Branch Counsellor
2.	Prof. Shweta Dhawan Chachra	COMPS	Faculty Advisor
3.	Prof. Suchitra Patil	IT	Faculty Advisor

Sr. No.	Name of Student	Current Year of Study and Department	Portfolio
1.	Meet Paradia	LY ETRX	General Secretary
2.	Dhiti Thakkar	LY COMPS	Jt. General Secretary
3.	Soham Hichkad	LY IT	Secretary
4.	Harsh Bhayani	LY COMPS	Financial Secretary
5.	Shivani Save	TY IT	Jt. Financial Secretary
6.	Bhairavi Dave	LY COMPS	Coordinator
7.	Sarfaraz Gulam Mohammed Iraqui	LY COMPS	Technical Head
8	Sumit Poojary	LY COMPS	Jt. Technical Head
9.	Hitansh Shah	TY IT	Technical Team
10.	Hitanshu Shah	TY IT	Technical Team
11.	Jasdeep Grover	TY COMPS	Technical Team
12.	Aromal Nair	LY COMPS	Public Relations Officer
13.	Ruchi Bhatia	TY COMPS	Public Relations Team
14.	Arnav Kulkarni	TY EXTC	Public Relations Team
15.	Myron Carvalho	TY IT	Creative Team
16.	Jyeshtha Vartak	TY IT	Creative Team
17.	Aliasgar Haji	TY IT	Event Team
18.	Neha Patil	TY COMPS	Event Team
19.	Ashna Shah	TY COMPS	Event Team
20.	Kaustubh Damania	SY COMPS	FE Representative
21.	Smit Vora	SY COMPS	FE Representative
22.	Aditya Sehgal	SY COMPS	FE Representative
23.	Nikhil Bhardwaj	SY COMPS	FE Representative
24.	Divya Rawat	SY ETRX	FE Representative
25.	Tirth Mehta	SY IT	FE Representative
26.	Baiju Dodhia	SY IT	FE Representative
27.	Dhairya Parekh	SY IT	FE Representative
28.	Varada Harikumar	SY EXTC	FE Representative

Photo of members/committee – 2017-2018

CSI-KJSCE Council 2017-18

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

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
1.	3rd	2017	August	12:30pm - 1:15pm	Seminar Hall - B507	Handover Ceremony
2.	12th	2017	September	5.15pm - 7.15pm	Seminar Hall - B507	Tech Routes Seminar
3.	14th	2017	September	5.15pm - 7.15pm	Seminar Hall - B507	AI Seminar

4.	15th	2017	September	5.15pm - 7.15pm	Lab Nos: B215, B216, B217, B310, B313, B314	ML Workshop
5.	29th	2017	September	5.15pm - 7.15pm	Lab Nos: B115 and B314	Hybrid App Development Workshop (for SEs)
6.	7th	2017	October	10am - 1pm	Lab Nos: B217, B216, B215 and class room B403	Abhiyantriki event: Code In X
	7th	2017	October	2.30pm - 5.30pm	Lab Nos: B217, B216, B215	Abhiyantriki event: Code Break
	7th	2017	October	10am-5pm	2nd floor Lobby	Abhiyantriki event: Jumbled Code
7.	11th	2017	October	5.15pm - 7.15pm	Lab No. B115	Hybrid App Development Workshop (for TEs)
8.	3rd	2017	November	5.15pm - 7.15pm	Lab No. B313, B314, B315, B307	AR Unity Workshop
9.	25th	2018	January	5.15pm - 7.15pm	Seminar Hall - B507	Deep Learning Seminar
10.	3rd	2018	February	9am - 7pm	Seminar Hall- B507, Lab Nos: B313, B314	Tech Next 2018
11.	15th	2018	March	5.15pm - 7.15pm	Lab Nos: B313, B314	R Programming (for FEs)
12.	27th	2018	March	5.15pm - 7.15pm	Lab B313	R Programming (for SEs and TEs)

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
1.	3rd	2017	August	12:30pm - 1:15pm	Seminar Hall - B507	Handover Ceremony

Report of event / activity

Event: Handover Ceremony

- ❖ Ceremony duly started by the host Jt. G. Sec. Dhiti Thakkar.

- ❖ Somaiya prayer by Bhairavi Dave, Ruchi Bhatia and Forum Bhanushali.

- ❖ Speech by former - G. Sec. Vivek Rai to emphasize the success of the council and their strong dedication for the entire year.

- ❖ The handover of G. Sec. position from the Former G. Sec. Vivek Rai to the present G. Sec. Meet Paradia.

- ❖ Felicitation of the former-council by esteemed faculty members with certificates and letter of appreciation.

- ❖ Speech and a small presentation by the current G. Sec. Meet Paradia introducing the new council and proposing upcoming events (workshops/seminars) and the goals for the council (2017-2018).

- ❖ The handover of other positions from the ex-council members to the present council members.

- ❖ Felicitation of the former esteemed faculty members with certificates and letter of appreciation

- ❖ Vote of thanks by the current Jt. G. Sec. Dhiti Thakkar.

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
2.	12th	2017	September	5.15pm -7.15pm	Seminar Hall - B507	Tech Routes Seminar

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						85
TY						
LY						

Report of event/ activity

Event: Tech Routes Seminar

Description:

❖ Commencement of Seminar by our speaker with a short Inspiring Video.

Main Points Covered:

➢ How to make Best Use of your four years of Engineering?

➢ Short speech by our former CSI Technical Head Devika Shanbhag expressing her successful journey in engineering.

➢ Introduction, demand and pay scale of best suitable job profiles-

    a) Machine Learning and Artificial Intelligence Jobs

    b) Software development Jobs

    c) Web development Jobs

➢ Which all programming languages to learn and in which year.

➢ Significance of internships.

➢ Information about various Tech Competitions and Certifications.

➢ Building up an Online Resumes.

➢ How can CSI-KJSCE help them in their Tech Journey.

<p style="text-align:center">**Sample Photographs of the Event/Activity**</p>

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
3.	14th	2017	September	5.15pm - 7.15pm	Seminar Hall - B507	AI Seminar

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						155
TY						
LY						

Report of event/ activity

Event: AI Seminar

Description:

❖ Commencement of Seminar by our speaker with a short video on what AI is all about.

Main Points Covered:

➢ What is AI?

➢ Difference between regular program and AI program.

➢ AlphaGo, IBM Watson

➢ What is Machine Learning?

➢ Classification (KNN)- rose/sunflower

➢ Regression

➢ Neural Networks

➢ Clustering (KMeans)

➢ Google News

➢ Reinforcement Learning

➢ Comparisons of 3 ML models

➢ Recommender Systems

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
4.	15th	2017	September	5.15pm - 7.15pm	Lab Nos: B215, B216, B217, B310, B313, B314	ML Workshop

Report of event/ activity

Event: ML Workshop

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						157
TY						
LY						

Description:

- ❖ Commencement of Workshop by our speakers.

Main Points Covered:

- ➢ Basic revision of AI that was covered in the seminar.

- ➢ Hello ML simple, basic problem (using KNN) was explained to students.

- ➢ Students were asked to use different technique (DecisionTreeClassifier) in the same problem.

- ➢ Importance of Jupyter Notebook.

- ➢ How to import datasets, how to visualize it, how to extract features and labels in a given problem.

- ➢ Solved Question 1 [using Classification, KNN]

- ➢ Students were asked to fill some of the code in Question 2[using Regression]

- ➢ Question 3 was verbally discussed.

- ➢ They were given few problems to solve at home.

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
5.	29th	2017	September	5.15pm - 7.15pm	Lab Nos: B115 and B314	Hybrid App Development Workshop (for SEs)

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						33
TY						
LY						

Report of event/ activity

Event: Hybrid App Development Workshop (for SEs)

Description:

- ❖ Commencement of workshop by our speakers.

Main Points Covered:

- ➢ Introduction to Hybrid App Development.
- ➢ What is Cordova?
- ➢ Creation of Cordova app Project.
- ➢ Building of an App using CSI technext source code.
- ➢ Attendees were given experimental website called CSI Portal and were asked to create an app from this webapp.
- ➢ Cordova – Pros and Cons:
- ➢ Introduction to Ionic FrameWork.
- ➢ Demonstration of Ionic Tab, Super Template.
- ➢ Cordova V/S Ionic
- ➢ Creation of Stress Buster App using ionic
- ➢ Ionic UI Components
- ➢ Adding images, icons, Event Handlers (tap, press, pan)

➢ Adding new pages and Linking them.

➢ Passing data between pages.

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
6.	7th	2017	October	10am - 5:30pm	Lab Nos: B217, B216, B215 and class room B403	Abhiyantriki events

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						40 teams
TY						
LY						

Report of event/ activity

Event: Abhiyantriki events

EVENT 1: CODE IN X

Day & Date: Saturday, 7th October 2017

Description:

This event was conducted on the 2nd day of Abhiyantriki 2017. It was a competition comprising of three rounds:

ROUND 1: Participants (single / team of 2) were introduced to the language "X" by providing syntax sheets and teaching how the language work. Problem statements was given to the teams that will be actually implemented in the ROUND 3. They were also given practice problems to solve in language "X". This round was conducted for about 30 minutes.
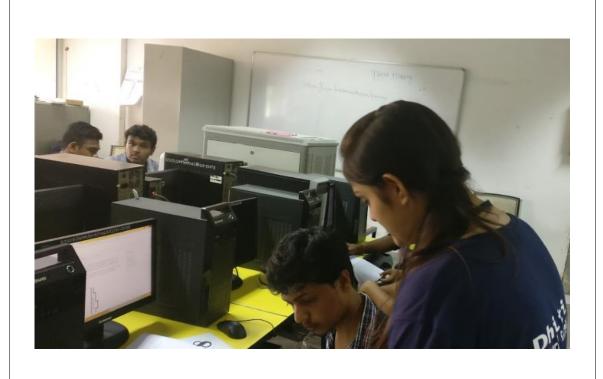
ROUND 2: There was an auction round where teams will have to buy CODE PACKS (packages containing if's, switch cases etc. required for their problem statement). Proper bidding will be there on these packs and the teams will be bidding their points. More amount your team bids, more points your team loses. Each team was given base points of 4000.

ROUND 3: In this round the teams will actually solve the problem statement using language "X" and the CODE PACKS bought in round 2.If they solve the problem using any operation not bought by them , they will be disqualified. If the team wants to buy individual keywords in this round, they will be given, provided their points get reduced depending upon the price of the individual keyword.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Anjaneya Ketkar, Nilesh Gandhi	-	-	Winner
2.	Niket Kini, Uddesh Kadu	-	-	1st Runner-Up
3.	Pravar Parekh, Jinit Mehta	-	-	2nd Runner-Up

Sample Photographs of the Event/Activity

EVENT 2: CODE BREAK

Day & Date: Saturday, 7th October 2017

Description:

This event was conducted on the 2nd day of Abhiyantriki 2017. It was a competition comprising of three rounds:

ROUND 1: Inputs and outputs to a program was given to the teams. The teams have to deduce what the code does in a limited amount of time.
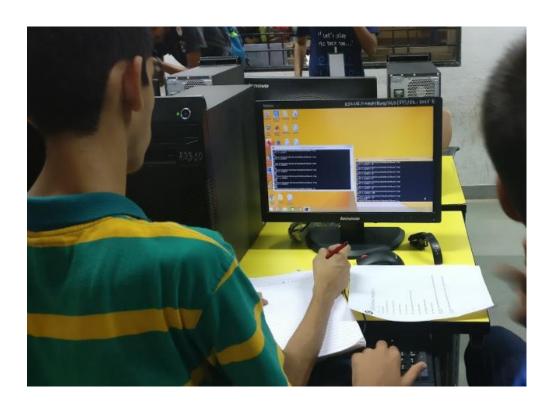
ROUND 2: Two programs were given to the members of the team. The members had to find the errors of their respective programs and after some time the members were swapped to find the errors of the other program. Points was calculated on total number of errors found and time required to do so.

ROUND 3: Two problem statements were given to the team. The team had to code half their respective problems for limited time and then the members would be swapped to code the other half of the programs given to them. The problems would be coded in two different languages. Ex: If one question in C, other in C++.

<p style="text-align:center">**Details of winners and their respective prizes**</p>

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Lakshmi Natesan , Shriya Natesan	-	-	Winner
2.	Mehul Chudasama , Prasad Gujar	-	-	1st Runner-Up
3.	Karan Joisher , Tarang Vadodaria	-	-	2nd Runner-Up

<p style="text-align:center">**Sample Photographs of the Event/Activity**</p>
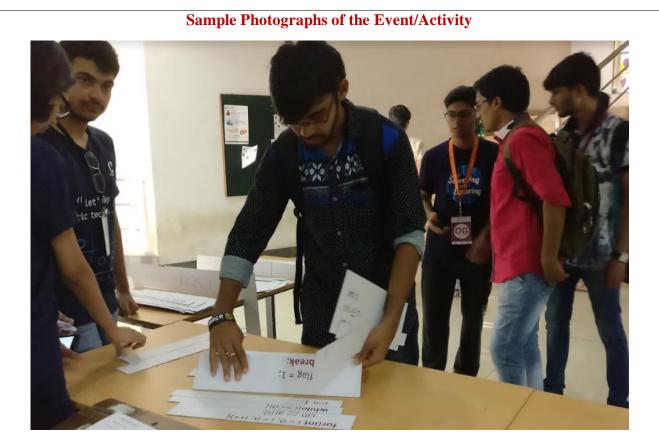
EVENT 3: JUMBLED CODE

Day & Date: Saturday, 7th October 2017

Description:

This was a free and fun event. Participants (team of 2) had to arrange the jumbled lines of code in the allotted time to stand a chance to win exciting goodies.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Jay Gala	-	2000	Winner

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
7.	11th	2017	October	5.15pm - 7.15pm	Lab No. B115	Hybrid App Development Workshop (for TEs)

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						15
TY						
LY						

Report of event/ activity

Event: Hybrid App Development Workshop (for TEs)

Description:

- ❖ Commencement of workshop by our speakers.

Main Points Covered:

- ➢ Introduction to Hybrid App Development.

- ➢ What is Cordova?

- ➢ Creation of Cordova app Project.

- ➢ Building of an App using CSI TechNext source code.

- ➢ Attendees were given experimental website called CSI Portal and were asked to create an app from this webapp.

- ➢ Cordova – Pros and Cons.

- ➢ Introduction to Ionic Framework.

- ➢ Demonstration of Ionic Tab, Super Template.

- ➢ Cordova V/S Ionic

- ➢ Creation of Stress Buster App using ionic

- ➢ Ionic UI Components

- ➢ Adding images, icons, Event Handlers (tap, press, pan)

- ➢ Adding new pages and Linking them.

- ➢ Passing data between pages

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
8.	3rd	2017	November	5.15pm - 7.15pm	Lab No. B313, B314, B315, B307	AR Unity Workshop

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						73
TY						
LY						

Report of event/ activity
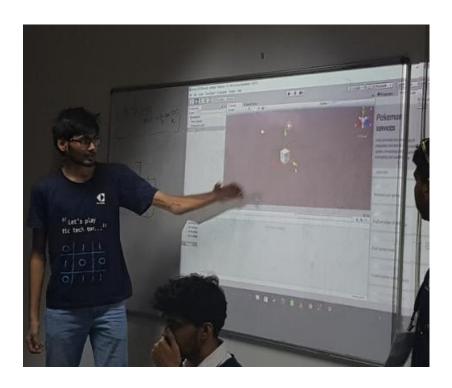
Event: AR Unity Workshop

Description:

❖ Commencement of workshop by our speakers with a short video based on AR.

Main Points Covered:

➢ Introduction to AR.

➢ AR v/s VR

➢ Introduction to Unity Basics

➢ Building of an App (PMP-poor man's Pokemon Go using Unity.

➢ What is Vuforia?

➢ Augmenting powers with Vuforia to PMP app.

➢ Building APK

➢ Applying animation to the app.

➢ Completion of app using go Unity

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
9.	25th	2018	January	5.15pm - 7.15pm	Seminar Hall - B507	Deep Learning Seminar

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						41
TY						
LY						

Report of event/ activity

Event: Deep Learning Seminar

Description:

- ❖ Commencement of seminar by our speaker with a short video based on Artificial Intelligence.

Main Points Covered:

- ➢ Introduction to Artificial Intelligence.
- ➢ Introduction to Deep Learning.
- ➢ Importance of Deep Learning.
- ➢ Explaining the working of deep Learning.
- ➢ Applications of Deep Learning.

The seminar ended with an opportunity of getting hands on experience in the field by his upcoming workshop on Deep Learning.

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
10.	3rd	2018	February	9am - 7pm	Seminar Hall-B507, Lab Nos: B313, B314	Tech Next 2018

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						40 teams
TY						
LY						

Report of event/ activity

Event: Tech Next

Description:

- TechNext 2018, the annual technical extravaganza of CSI-KJSCE presents a unique two round competition involving AR and VR combined.

ROUND 1: Creation of innovative video featuring the participant and some AR models provided by us through an app.

ROUND 2: Workshop on 3D Unity held by industrial Expert in first half and Competition was held in the second half.

Main Points Covered:

➢ Assembling of the participants at 9.

➢ Welcoming Speech for the participants by Aromal Nair and Dhiti Thakkar.

➢ Commencement of 3D Unity workshop from 10.15am to 1.30pm by our speaker Mr. Krupalu Mehta.

➢ Break time for Participants.

➢ Commencement of competition from 2.30 pm to 5.30pm.

➢ Occasion was graced by our Principal, Dr. Shubha Pandit who was accompanied by Aarti Phadke ma'am and Sangeeta Kulkarni ma'am.

➢ Welcoming the Judges.

➢ Presenting the APK build by participants to judges for judging.

➢ Announcing the results and prize distribution at 7pm.

Details of winners and their respective prizes

Sr. No.	Name of the student	Department	Details of prize won	Remarks
1.	Rudra Jikadra and Anish Jain	-	-	Winner
2.	Uddesh Kadu and Niket Kini	-	-	1st Runner-Up
3.	Priyanka Kalena and Yash Mehta	-	-	2nd Runner-Up
4.	Yash Ramani and Khushbu Shah	-	-	Notable for Round 1
5.	Shivashish Jaiswal and Jinit Mehta	-	-	Notable for Round 2

Sample Photographs of the Event/Activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
11.	15th	2018	March	5.15pm - 7.15pm	Lab Nos: B313, B314	R Programming (for FEs)

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						30
TY						
LY						

Report of event/ activity

Event: R Programming (for FEs)

Description:

- Commencement of workshop by our speakers.

Main Points Covered:

➢ Introduction to R programming.

➢ Getting started with R –basic operations, data types, class types.

➢ Conditional statements and looping statements.

➢ Introduction to Vectors, different operations on vectors.

➢ Managing packages in R

➢ Introduction to Data Frames.

➢ Operations on Data Frames – importing and exporting data, appending, subsetting, removing rows and columns from data frames.

➢ Visualization of data.

- ➢ Introduction to types of graph for visualization

- ➢ Problem solving using Scatter Plot

- ➢ Problem solving using Linear Regression

- ➢ Problem solving using Box Plot and Histogram.

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
12.	27th	2018	March	5.15pm - 7.15pm	Lab B313	R Programming (for SEs and TEs)

Details of participation in the event/ activity

No. of students	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						
SY						24
TY						
LY						

Report of event/ activity

Event: Problem Statement Workshop

Description:

- ❖ Commencement of workshop by our speakers

Main Points Covered:

- ➢ Introduction to R programming.

- ➢ Getting started with R –basic operations, data types, class types.

- ➢ Conditional statements and looping statements.

- Introduction to Vectors, different operations on vectors.

- Managing packages in R

- Introduction to Data Frames.

- Operations on Data Frames – importing and exporting data, appending, subsetting, removing rows and columns from data frames.

- Visualization of data.

- Introduction to types of graph for visualization

- Problem solving using Scatter Plot

- Problem solving using Linear Regression

- Problem solving using Box Plot and Histogram.

- K means Algorithm.

- Gradient Descent Algorithm.

Sample Photographs of the Event/Activity