

Annual Report

KJSCE Code Cell (2017 - 2018)

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

Name of the organization/ chapter/ project: KJSCE Code Cell
List of Members/ Details of Committee: 2017 - 2018

Sr. No.	Name of the Faculty advisor/ in-charge	Department/Year	Portfolio
1.	Ms. Grishma Sharma	COMP	Faculty coordinator
2.	Ms. Dipti Pawade	IT	Faculty coordinator

Sr. No.	Name of Student	Department/Year	Portfolio
1	Chaitya Shah	Information Technology/TY	Committee Heads
2	Vinitra Muralikrishnan	Computer Engineering/TY	Committee Heads
3	Showndarya Madhavan	Computer Engineering/TY	Technical Team Head
4	Ankitmani Tripathi	Information Technology/TY	Technical Team
5	Siddharth Mishra	Information Technology/TY	Technical Team
6	Chirag Shetty	Computer Engineering/SY	Technical Team
7	Nishchith Shetty	Computer Engineering/SY	Technical Team
8	Nisarg Chandan	Information Technology/TY	PR Team
9	Brinda Ashar	Computer Engineering/SY	PR Team
10	Jay Kanakiya	Information Technology/SY	Creative Team
11	Raj Shah	Information Technology/SY	Creative Team
12	Neel Shah	Computer Engineering/SY	Coordinators
13	Shivam Pawase	Computer Engineering/SY	Coordinators
14	Karan Agrawal	Computer Engineering/SY	Coordinators

Photo of members/ committee: 2017 - 2018



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.	26	2017	July	4:15 pm to 5:15 pm	B-507	Handover Ceremony
2.	26, 27	2017	July	5:15 PM - 7:30 PM	B - 216, 217, 315, 316	Workshop on Problem Solving Approach to Competitive Programming
3.	8	2017	August	5:15 PM - 7:30 PM	B-215, 216, 217	Placement Workshop for BE students
4.	11	2017	August	5:15 PM - 7:00 PM	B-111	ACM ICPC (International Collegiate Programming Contest), Meet-up
5.	27	2017	August	10 AM - 12 AM	https://www.codechef.com/KJPR2017	First Closed Contest (KJSCE Codecell Practice Round 1)
6.	7, 8	2017	September	5:15 PM - 7:30 PM	B-209, 210, 215, 216, 217, 307, 313, 314, 315, 316, 317	Workshop on Introduction to Programming with Python
7.	1	2017	October	9:00 PM - 12:00 AM	The contest was online, on Codechef	KJSCE CodeSpree in Abhyantriki 2017
8.	6,7	2017	October	9:00 AM - 9:00 PM	B-507	KJSCE Hackathon at Abhyantriki 2017

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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
9.	7	2017	October	10:30 AM - 6:30 PM	B-110	KJSCE Crackathon in Abhiyantriki 2017
10.	13	2017	October	5:30PM - 7:30PM	B215	Workshop on GitHub
11.	24	2018	January	5:30PM - 7:00PM	B-111	Meet-up on Google Summer of Code - 2018
12.	29, 30	2018	January	5:30PM - 7:30PM	B215, B216, B217	Workshop on Fundamentals of Graph Algorithms
13.	14, 15	2018	February	5:30PM - 7:30PM	B215	Workshop on Introduction to JavaScript
14.	7, 8	2018	March	5:30PM - 7:30PM	B215, B216	Workshop on Introduction to Number Theory
15.	8	2018	April	9 PM - 12 AM	https://www.cocochef.com/KJSC2018	KJSCE Coding Challenge

Reports of event/ activity

Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
1.	26 th	2017	July	4:15 pm to 5:15 pm	B-507	Handover Ceremony

Details of participation in the event/activity
(Fill wherever is applicable or information is available. At least total need to fill)

No of students / faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
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Report of event/ activity

Event: Handover Ceremony

The handover ceremony marked the start of a new year and the formation of the new council. The previous council passed on the baton to the new council with high aims and escalated expectations. The ceremony was kick started with a prayer followed by the past academic year report by the previous year committee heads. Then, the current committee heads took over to elaborate on the goals and aims to be achieved and the introduction of the present council. With some words of hope and encouragement from the both the Head of Department and the faculty advisors, the event came to an end.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
2.	26 th, 27th	2017	July	5:15 PM - 7:30 PM	B - 216, 217, 315, 316	Workshop on Problem Solving Approach to Competitive Programming

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						52
SY						
TY						
LY						
No of Faculty						--

Report of event/activity

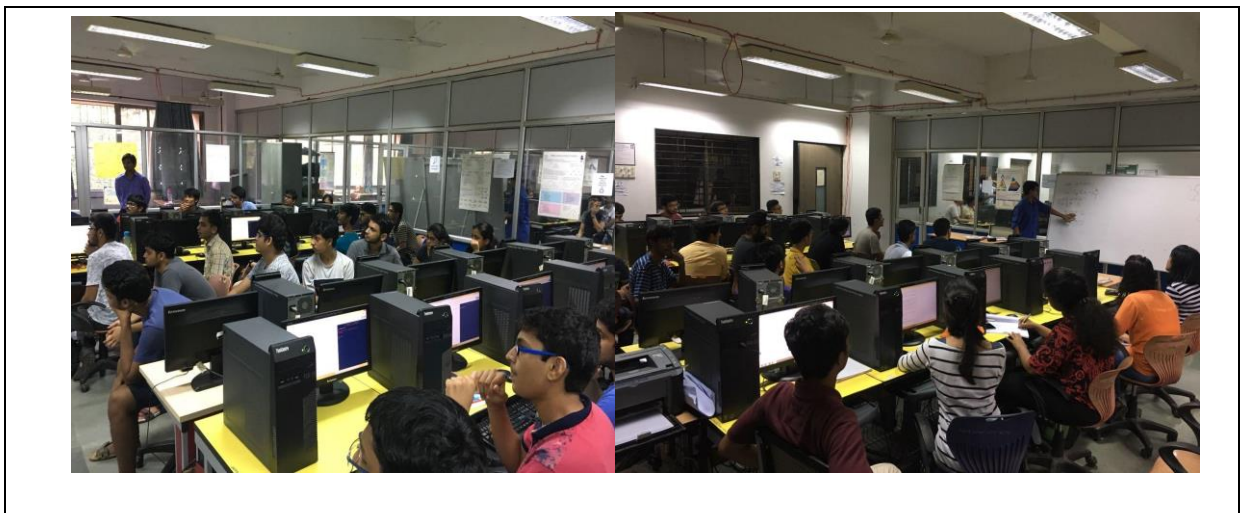
Event: Workshop on Problem Solving Approach to Competitive Programming

Standard Template Libraries is a concept every programmer should know in order to make their logic stronger, and also to optimize their code. In this workshop, we taught the students some basic containers of STL which will help them extensively in solving programming questions and in competitive coding contests to come. It was a hands on workshop where students were guided through solving three problems on codechef. The solutions to these problems can be referred by the students on our github repository for this workshop.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
3.	8 th	2017	August	5:15 PM - 7:30 PM	B-215, 216, 217	Placement Workshop for BE students

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						35
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: Placement Workshop for BE students

This workshop was arranged in collaboration with faculties of Computer, EXTC and Mechanical department. Students from ETRX, EXTC and Mechanical branches attended this workshop. We started with basics of C Programming, covering key concepts of C language which might be asked in aptitude tests of placements. The concepts were covered through a set of simple yet tricky MCQs. Later we introduced problem solving in Codechef and gave them a hands-on experience with tackling coding problems.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
4.	11 th	2017	August	5:15 PM - 7:00 PM	B-111	ACM ICPC Meet-up

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						25
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: ACM ICPC Meet-up

This meetup was the first meetup of academic year 2017-18 and the topic under discussion was ACM ICPC, the Collegiate Programming Contest. It was a brief meet-up for the students interested in participating in the competition, wherein we told them about ACM ICPC and what it represents. We explained the general rules of the competition and students also shared their past experiences in ACM ICPC events. Insights on the preparation for ACM ICPC were also shared by some students.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
5.	27 th	2017	August	10 AM - 12 AM	https://www.codechef.com/KJPR2017	First Closed Contest (KJSCE Codecell Practice Round 1)

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						64
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: First Closed Contest (KJSCE Codecell Practice Round 1)

KJSCE Codecell conducted a 14 hour practice contest exclusively for KJSCE students on 27th August 2017 from 10am to 12am hosted on the codechef website. The total participation was 64, with 46 distinct participants on the ranklist with a total 453 submissions

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity

#	USER NAME	SCORE	TLMIN	ARTDIL	MINIWALK	RLECNF	SRTTOOL
1	uk96 K. J. Somaiya College of Engin ...	5 - (4)	1 - (3)	1 - (0)	1 - (0)	1 - (0)	1 - (1)
2	vazzup K. J. Somaiya College of Engin ...	5 - (3)	1 - (1)	1 - (0)	1 - (0)	1 - (0)	1 - (2)
3	shivam_1708 K. J. Somaiya College of Engin ...	4 - (8)	-	1 - (0)	1 - (0)	1 - (1)	1 - (7)
4	inishchith K. J. Somaiya College of Engin ...	4 - (7)	-	1 - (0)	1 - (0)	1 - (7)	1 - (0)
5	thejaelal K. J. Somaiya College of Engin ...	4 - (9)	1 - (1)	1 - (0)	1 - (4)	-	1 - (4)
6	shmbulock K. J. Somaiya College of Engin ...	3 - (4)	-	1 - (0)	1 - (1)	-	1 - (3)
7	ankit_22 K. J. Somaiya College of Engin ...	3 - (12)	-	1 - (0)	-	1 - (9)	1 - (3)
8	niketkini K. J. Somaiya College of Engin ...	3 - (2)	-	1 - (0)	1 - (1)	-	1 - (1)
9	shruthisujith K. J. Somaiya College of Engin ...	3 - (1)	-	1 - (0)	1 - (1)	-	1 - (0)

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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
6.	7 th, 8 th	2017	September	5:15 PM - 7:30 PM	B-209, 210, 215, 216, 217, 307, 313, 314, 315, 316,317	Workshop on Introduction to Programming with Python

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						252
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: Workshop on Introduction to Programming with Python

Python is an Object Oriented programming language, which is easy-to-use and has a compact syntax which enabled us to concentrate on the logic more than the syntax. This was a two-day workshop, conducted on 7th and 8th September, 2017. It was a hands on workshop where students were guided through solving three problems on codechef. The solutions to these problems can be referred by the students on our github repository for this workshop.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity

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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
7.	1 st	2017	October	9:00 PM - 12:00 AM	The contest was online, on Codechef	KJSCE CodeSpree in Abhyantriki 2017

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COM P	ETR X	EXT C	IT	MEC H	Total no of participants
FY						464
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: KJSCE Code Spree in Abhyantriki 2017

Code Spree was a pre-event for the techfest, Abhyantriki 2017. It was an online contest that was hosted on Codechef. The contest contained <insert> sums, which the participants had to solve in 3 hours i.e from 9 PM to 12 AM. The top 15 participants from Mumbai were given a direct entry into round 3 of Crackathon, the onsite event of Abhyantriki. The top 15 participants from Mumbai, who were selected

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
8.	6th,7 th	2017	October	9:00 AM - 9:00 PM	B-507	KJSCE Hackathon at Abhyantriki 2017

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						98
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: KJSCE Hackathon at Abhyantriki 2017

Hackathon was a two day workshop, conducted during the techfest Abhyantriki i.e 6th and 7th of October. The topic for Hackathon 2017 was “Automation in Daily Life”. It was all about developing an idea, and implementing it by creating its prototype in the form of hardware or software. It saw good creativity of all the participants, and their hard-work was appreciable. Out of all the participant teams, two teams were announced as the winners, achieving the first and the second place.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/ Date	Year	Month	Time	Venue	Description of Activity
9.	7 th	2017	October	10:30 AM - 6:30 PM	B-110	KJSCE Crackathon in Abhiyantriki 2017

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COM P	ETR X	EXT C	IT	MEC H	Total no of participants
FY						130
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: KJSCE Crackathon in Abhiyantriki 2017

Crackathon was a one-day event conducted during the techfest Abhiyantriki 2017 i.e on 7th of October. It was a three-round event, where participants from the colleges all over Mumbai had come to participate. The top 15 participants of Code Spree were selected into the third round of Crackathon directly. The three rounds of Crackathon were as follows:

Round 1: Code debugging and completing the Missing code

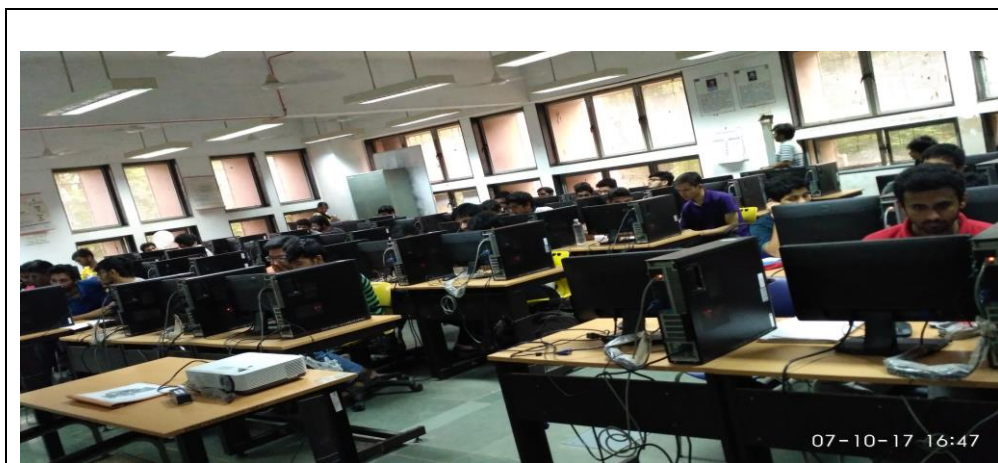
Round 2: Challenge round

Round 3: Online contest on Codechef.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
10.	13 th	2017	October	5:30PM - 7:30PM	B215	Workshop on GitHub

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						58
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

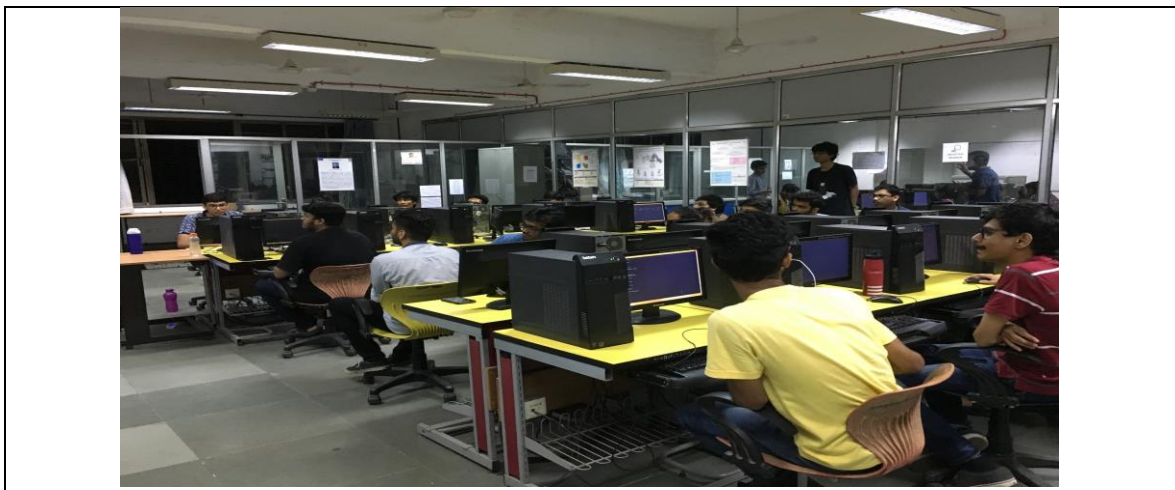
Event: Workshop on GitHub

GitHub is a version-control system, also known as a repository hosting service. GitHub helps maintaining a single place for many people who have to contribute to the same project or files. The people working on the same project can make changes and keep updating the files on the GitHub repository/folder without having to save it every time with different names. We taught the students the basic of GitHub, and made them contribute to our own Codecell-based duplicate repository, where all of them made and uploaded their own files using GitHub. We also introduced them to Hacktoberfest and how GitHub will be useful in the coming years.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
11.	24 th	2018	January	5:30PM - 7:00PM	B-111	Meet-up on Google Summer of Code - 2018

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						44
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: Meet-up on Google Summer of Code – 2018

Google Summer Of Code also known as GSoC, an initiative by Google focused on bringing student developers from all around the globe into open source software development was the topic of the meet-up. Our speaker for the evening was Yash Nisar, who was selected for the previous edition of GSoC and was also a mentor for Google code-in, the school edition of GSoC. This meetup comprised of a walk-through of the GSoC application process and the quintessential qualities and things required to ace GSoc. The meet ended with a Q&A session and a detailed FAQ session by our speaker.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
12.	29 th, 30 th	2018	January	5:30PM - 7:30PM	B215, B216, B217	Workshop on Fundamentals of Graph Algorithms

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COM P	ETR X	EXT C	IT	MEC H	Total no of participants
FY						65
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: Workshop on Fundamentals of Graph Algorithms

Graph data structures have proved to be a useful tool while solving a wide range of problems. We took the initiative of teaching these graph concepts and algorithms to students who registered for the workshop. The students were taught theory about graphs and were made to implement those using sums on Codechef website. The students who were new to the competitive programming concepts were encouraged to solve more sums on different competitive programming sites and enhance their knowledge by exploring more about the same.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
13.	14, 15th	2018	February	5:30PM - 7:30PM	B215	Workshop on Introduction to Javascript

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of faculty	students/	COM P	ETR X	EXT C	IT	MEC H	Total no of participants
FY							97
SY							
TY							
LY							
No of Faculty							--

Report of event/ activity

Event: Workshop on Introduction to Java script

In this workshop, we introduced the students to JavaScript, its basic syntax for declarations, conditional statements, loops, functions, objects and DOM structure. Asynchronous behaviour of JS was also discussed during the workshop. Using HTML canvas and JS, all the students developed their own drawing application, which is similar to Paint. The application was developed using the concept of Modular JavaScript so that students can understand the advantages of using Modular JavaScript for app development.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
14.	7 th, 8th	2018	March	5:30PM - 7:30PM	B215,B216	Workshop on Introduction to Number Theory

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COM P	ETR X	EXT C	IT	MEC H	Total no of participants
FY						130
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

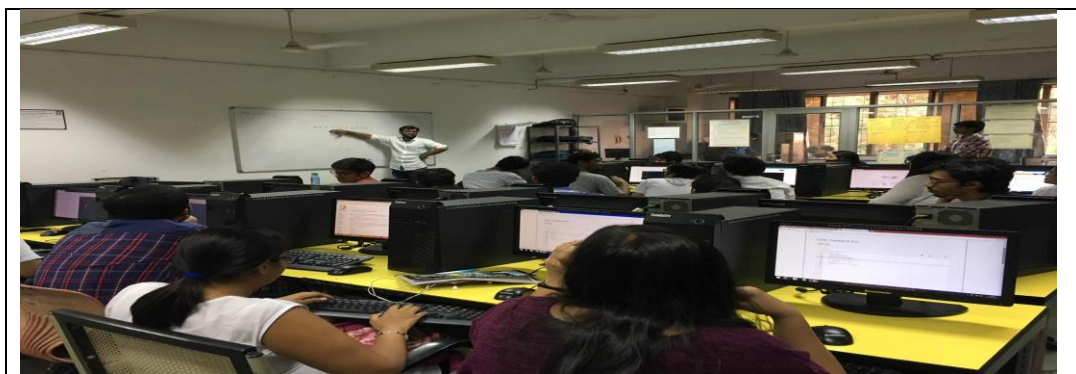
Event: Workshop on Introduction to Number Theory

Number theory is a part of the mathematical concepts. It consists of algorithms which are used to decrease the mathematical computations, thus making calculations in the programs faster. We gave the students a brief idea about the algorithms, made them implement the same and solving sums which use the same on Codechef. These algorithms can be used in solving the several contests on competitive programming websites, including the second closed contest that was conducted in the following week. We also talked about Google Code Jam, a worldwide algorithmic contest.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity



K. J. Somaiya College of Engineering, Mumbai-77
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Sr. No. of Event / Activity	Day/Date	Year	Month	Time	Venue	Description of Activity
15.	8 th	2018	April	9 PM - 12 AM	https://www.codechef.com/KJSC2018	KJSCE Coding Challenge

Details of participation in the event/ activity
(Fill wherever is applicable or information is available. At least total need to fill)

No. of students/ faculty	COMP	ETRX	EXTC	IT	MECH	Total no of participants
FY						104
SY						
TY						
LY						
No of Faculty						--

Report of event/ activity

Event: KJSCE Coding Challenge

With many practice rounds conducted by KJSCE Codecell to make our students familiar with the overall structure of online competitions, we finally came up with an open contest, KJSCE Coding Challenge wherein students showed their enthusiasm and fought against each other as well as students from other countries and institutes to win the prestige of these competition.

KJSCE Coding Challenge was an 3 hour short contest that was scheduled on 8th April, 2018 from 9pm to 12am hosted on the codechef website. The total participation was 104, with a total 451 submissions.

Details of prizes (wherever applicable fill all the entries)

Sr. No.	Name of the student	Department/Year	Details of prize won	Remarks
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Sample Photographs of the Event/Activity

