Report - Odd Semester 2016

KJSCE CODECELL – CodeChef Campus Chapter

K. J. Somaiya College of Engineering,

Vidyanagar, Vidyavihar (E),

Mumbai – 400077.

https://www.codechef.com/campus_chapter/KJSCE-CODECELL

KJSCE Codecell

Report - Odd Semester 2016

Events:

1. ICPC Meetup   (09/ 08/ 16)

2. KJSCE Codecell Handover Ceremony   (12/ 08/ 16)

3. C++ Basics and STL Workshop   (23/ 08/ 16 - 24/ 08/ 16)

4. C++ STL Practice Contest   (28/ 08/ 16)

5. Introduction to Programming Logic in Python   (30/ 08/ 16 - 31/ 08/ 16)

6. Introduction to Competitive Programming   (23/ 09/ 16)

7. KJSCE CodeSpree   (25/ 09/ 16)

8. KJSCE Hackathon   (30/ 09/ 16 - 01/ 10/ 16)

9. KJSCE Crackathon   (01/ 10/ 16)

10. ACM ICPC Online Preliminary Round   (22/ 10/ 16)

All reports have been attached herewith.

Event Report

ICPC Meetup

Date: 9th August, 2016
Time: 5:30 PM - 6:30 PM
Venue: B - 111
Total Participants: 28

Changing the world one bit at a time

Description:

KJSCE Codecell's primary aim is to create world class competitive coders who can represent not only KJSCE, but also India in the ACM International Collegiate Programming Competition. However, there was not much awareness about either competitive coding or ACM ICPC in KJSCE. This meetup was organised by KJSCE Codecell to acquaint the KJSCE students with competitive coding and ACM ICPC, and to allow them enough time to prepare for the same. The benefits and methodologies of competitive coding were first discussed. The rules and format of the ACM ICPC were later introduced and taught, alongside tactics for excelling in it.

Event Report

KJSCE Codecell Handover Ceremony

Date: 12th August, 2016
Time: 4:30 PM - 5:30 PM
Venue: B - 507

Description:

     KJSCE Codecell 15 - 16 officially handed over the reign of the council to KJSCE Codecell 16 - 17 on this day. The previous Committee Head, Smit Thakkar, spoke of their endeavours and successes, ending with a vision for the new council and all future councils. Later, the new Committee Heads, Dipen Ved and Vatsal Kanakiya, spoke of their visions and goals for the council, emphasising on the importance of a senior support group for juniors in the present day and age. HOD IT Mrs. Sangeeta Nagpure and HOD Comp Mrs. Bharathi H. N. too lauded the previous council for their efforts and told of their expectations from the current one. The previous council was awarded with Letters of Appreciation from the college, and with certificates from Codechef, our parent organisation.
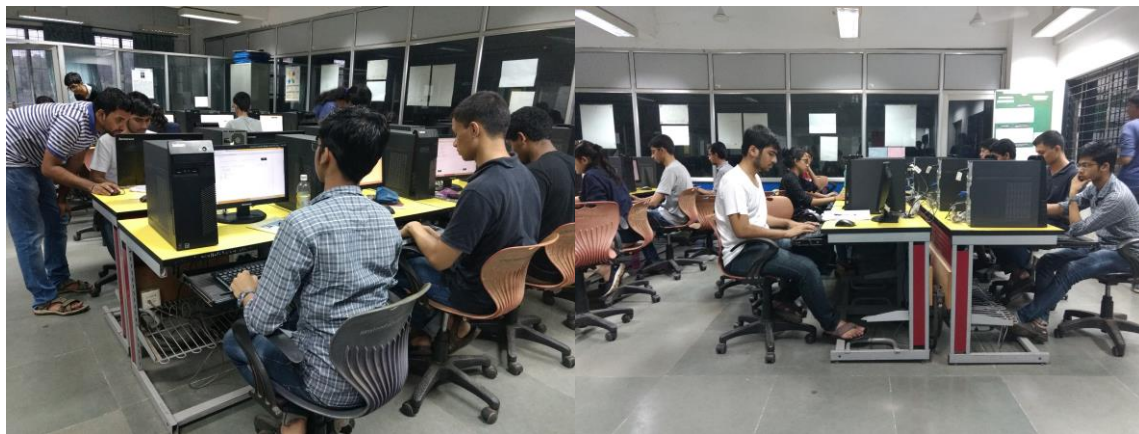
Event Report

C++ Basics and STL Workshop

Date: 23/ 08/ 16 - 24/ 08/ 16
Time: 5:30 PM - 8 PM
Venue: B - 214, B - 215
Total Participants: 40 (Day 1), 13 (Day 2)

Description:

The two day workshop was organised in order to familiarize the students with C++ and the C++14 standard, alongside introducing them to the STL (Standard Template Library), a collection of pre - written containers and algorithms. Participants were taught from scratch, with no assumptions made of their knowledge. They were taught everything from shifting to GCC from Turbo C, Namespaces, Standard I/O and Strings to STL Containers like Sets, Maps, Vectors, Pairs, etc. It was a hands on event, where participants not only learnt the nuances of this language, but also applied to various problems on Codechef, thus giving them valuable experience in the usage of the same. Students from all branches and from SY/ TY/ LY were invited to participate in the programme. Online feedback was taken at the end of each day, and it was highly positive.

A document was circulated to all students of the college pertaining to the contents of the workshop. This effort too was appreciated by the students of the college.
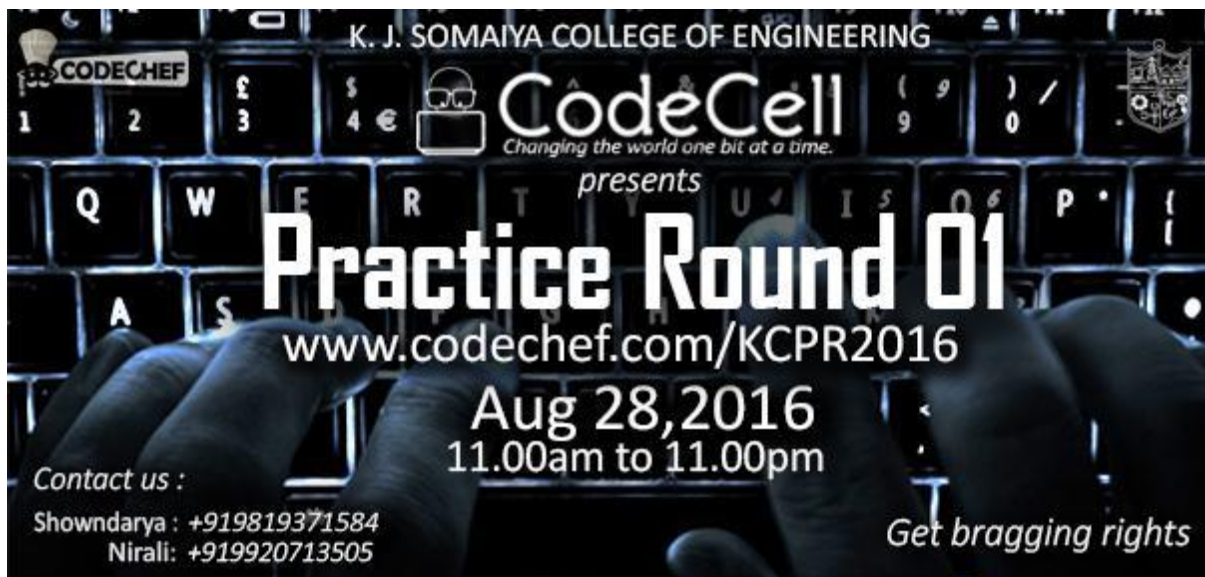
Event Report

C++ STL Practice Contest

Date: 28/ 08/ 16
Time: 11 AM - 11 PM
Venue: https://www.codechef.com/KCPR2016
Total Participants: 41　　　　　　　　　**Total Submissions**: 372

Description:

　　　Based on the C++ STL Workshop, a closed practice contest was held for all students of KJSCE on Codechef. The contest had 5 problems of varying difficulty set by the committee members of KJSCE Codecell. 36 participants from across KJSCE, DJSCE, and PICT colleges were able to solve at least 1 problem.

　　　This was a great opportunity for students to get accustomed to the language C++ and its nuances and to competitive programming.

Event Report

Introduction to Programming Logic in Python

Date: 30/ 08/ 16 - 31/ 08/ 16
Time: 5:30 PM - 8 PM
Venue: B - 213, B - 214, B - 215, B - 216, B - 217
Total Participants: 107 (Day 1), 67 (Day 2)

Description:

This workshop was organised for all branches and all years including FYs, but the key demographic were the FY students. This workshop was taken as a primer for the FYs to understand key principles like data, data types, type casting, variable, branching, looping, arrays, strings, and python specific commands like sort/ sorted, lists, tuples and dictionaries. Python was chosen for this purpose because of its relatively easy syntax and semantics, which are closer to human language.

This was a hands on workshop where not only were the FYs taught these concepts, but also asked to practise them out on an online interpreter. They were also asked to apply these concepts in solving problems on Codechef, thus introducing them to competitive coding as well. The crowd participation was immense in the workshop, with all 11 members of the council stretched throughout both days.

Online feedback was taken from all participants for the workshop at the end of the second day, and the feedback was very positive, with most students happy with having their perspectives of Computer Science changed.

After the workshop, a document was sent to all participants of the workshop, pertaining to its contents. This effort was appreciated by all students.

Event Report

Introduction to Competitive Programming

Date: 23/ 09/ 16
Time: 5:30 PM - 8 PM
Venue: B - 214, B - 215
Total Participants: 28

Description:

This workshop was organised for students from all branches and years. Participants were introduced to competitive programming and were taught how to approach competitive programming questions.

It was a hands on workshop, where participants got to implement and solve 4 problems on Codechef. This was done under the supervision of the committee members, who are all well accustomed to competitive programming. This allowed the participants to rehash their concepts and get a complete grasp on CP with our help.

At the end of the workshop online feedback was taken from all participants. The feedback was positive, with most participants agreeing to get a liking for competitive programming, with an intention to continue.

Event Report

KJSCE CODESPREE

Date: 25/ 09/ 16
Time: 9 PM - 12 AM
Venue: https://www.codechef.com/KJCS16
Total Participants: 217   **Total Submissions**: 954

Description:

CodeSpree is an Abhiyantriki pre-event. It was an online programming competition hosted on Codechef on the 25th of September 2016 (One week before Abhiyantriki). This was a National Level Contest.

The task in CodeSpree was to write the solution to a given problem statement in C, C++, Java or Python. The difficulty level was from beginner to hard. The contest was open to all participants from around the world. However, only participants from India were considered for the prize. Top 20 participants from Mumbai were also be invited to Abhiyantriki onsite event Crackathon, and were eligible directly for Final round.

After the contest was over, editorials were uploaded describing the ideal approach and the problems were transferred to Codechef's practice collection for everyone to practice.

Event Report

KJSCE Hackathon

Date: 30/ 09/ 16 - 1/ 10/ 16
Time: 9 AM - 9 PM
Venue: B - 507
Total Participants: 73 participants across 17 teams

Description:

The Hackathon was the first event of its kind to take place in the Somaiya Vidyavihar and Ayurvihar campuses. It was co - organized by KJSCE Codecell, CSI - KJSCE, Bloombox KJSCE and KJSCE STUCO.

Over 70 participants across 17 teams came together to hack together various software solutions towards the problem statement of "*Propose solutions that make life easier for the aged*". After 2 days of straight coding, a lot of wonderful softwares were created. The judges, Mr Sanket Vaidya (an alumnus of KJSCE) and Mr. Vishal Mehrotra from TCS went through all the submissions and presentations and adjudged one the winner.

Event Report

KJSCE Crackathon

Date: 01/ 10/ 16
Time: 10:30 AM - 6 PM
Venue: B - 110, B - 109
Total Participants: 105

Description:

Crackathon was a full day competition planned for Abhiyantriki 2016. Participants were tested on basic coding and problem solving skills. It was divided into three rounds of increasing complexity. The first two rounds were elimination rounds, whereas the final round was a knockout round. Teams consisted of maximum two participants. There were prizes for the top two teams in the final round, and goodies to runner-up. Some participants were be invited to the final round on the basis of the pre - event as well.

All teams which qualified through both rounds reached the third round. The third round was a ranked contest of 150 min which was hosted on Codechef, where the top team could solve 4/6 problems.

Event Report

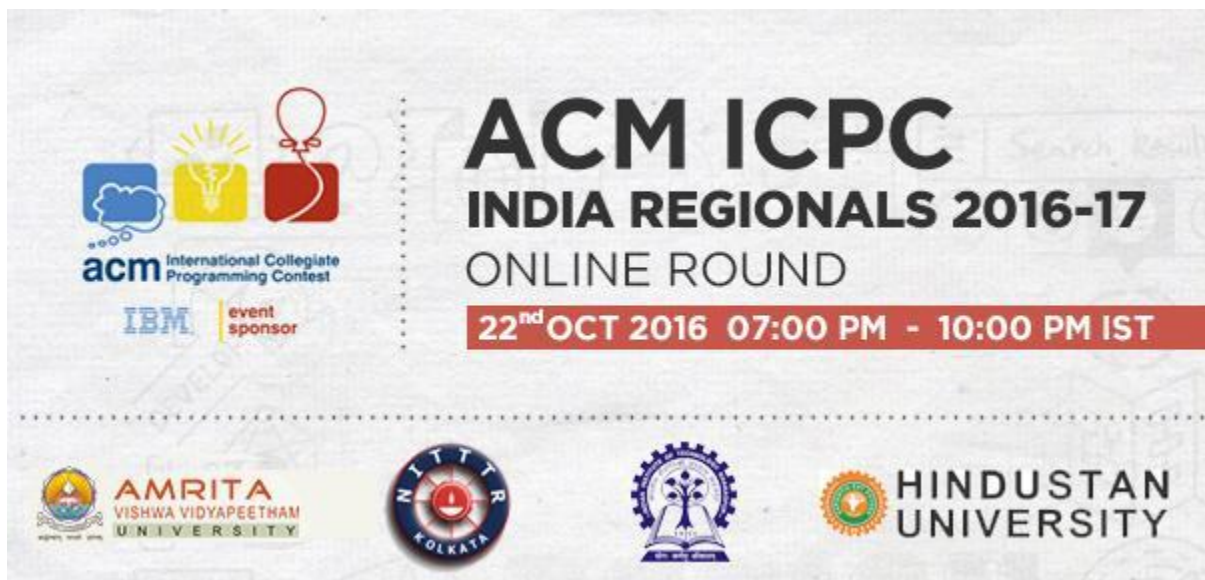## ACM ICPC Online Preliminary Round

---

Date: 22/ 10/ 16
Time: 7 PM - 10 AM
Venue: https://www.codechef.com/ACMIND16
Total Participants: 54

Description:

ACM-ICPC, the Olympics of programming contests, had its first preliminary online round for India on Codechef. KJSCE Codecell always sent updates of ACM ICPC to the KJSCE students and also help them through the registration of their team.

A total of 18 teams participated in this round. A huge rise was observed compared to previous team count of 2. All teams could solve at least 1 problem while the first team could solve 4/6 problems. All the participants were serious about this competition and most of them had a great time participating.

KJSCE would be represented in Amritapuri and Chennai regionals in December 2016.