



Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)



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Vile Parle (W) Mumbai - 400 056.



CodeStars Report 2020

INTRODUCTION:

March saw the inception of the college's official coding committee 'CodeStars', for the academic year 2019-20. The committee structure was fairly simple with each person having substantial responsibility.

Chair Person: Harsh Jain

Vice Chair Person: Vatsal Sonigara

Marketing Head: Tarang Nagda, Harshita Khandelwal

Technical Head: Rushil Shah, Fenil Doshi, Bhavuk Sharma, Aman Shah

Editorial Head: Yogesh Murarka

Publicity Head: Shreeyaa Agrawal

LECTURES:

A total of 10 lectures were conducted.

Lecture 1:

The first lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get students aware of the in-built libraries that they can use to speed up their coding in a competitive environment.

Speakers: Jitendra Kumar

Date: 25th March 2019



Lecture 2:

The second lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get students additional knowledge on in-built libraries. It was an extension of first lecture.

Speakers: Jitendra Kumar

Date: 1st April 2019

Lecture 3:

The third lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get student aware of various Number theories so that they can apply it to solve various competitive problems which are based on number theory.

Speakers: Vatsal Sonigara, Aman Shah, Rushil Shah, Harsh Jain

Date: 30th August 2019

Lecture 4:

The fourth lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get students aware of the special data structure called graphs.

Speakers: Vatsal Sonigara, Aman Shah, Rushil Shah

Date: 13th September 2019

Lecture 5:

The fifth lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get students aware of the Prims and Djikstra's Algorithm.

Speakers: Vatsal Sonigara, Aman Shah, Rushil Shah

Date: 27th September 2019

Lecture 6:

The sixth lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get students aware of the Kruskal's Algorithm and Disjoint Sets.

Speakers: Vatsal Sonigara, Rushil Shah

Date: 4th October 2019



Lecture 7:

The seventh lecture of Lecture series for Competitive Programming was conducted by the members of the Codestars Co-Committee. The lecture was conducted to get students aware of Dynamic Programming that they can use to speed up their coding in a competitive environment.

Speakers: Vatsal Sonigara, Aman Shah, Rushil Shah

Date: 11th October 2019

Lecture 8 and 9:

The two-day lecture series for competitive programming was conducted by the members of the Codestars Core and Co-Committee. The lecture was conducted to get student aware of the concept of competitive coding.

Speakers: Riddham Gadia, Smit Chatwani, Yash Chachhad, Harsh Jain, Nilay Bhatia

Date: 10th and 11th January 2020

Lecture 10:

A two-day lecture series for competitive Programming was conducted by the members of the Codestars Committee. The lecture was conducted to get student aware of the concept of competitive coding.

Speakers: Riddham Gadia, Rayyan Merchant, Nilay Bhatia

Date: 21st January 2020

COMPETITIONS:

A total of 2 Competitions were conducted.

Competition 1:

A coding competition was planned by the Programming Club of DJSCE on **14th and 15th of June 2019** for all the students. The competition was aimed for **SE's, TE's and BE's**. It had easy to moderate difficulty level questions. The competition was well planned and publicized thoroughly. The coding competition was hosted on "Hackerrank.com". **Hackerrank** allowed for easy hosting of competitions and maintaining the stats about the competition. The competition was a **24hr competition** that the students could participate in, online. There were two divisions, Div1 and Div2 for this competition. The website URL for:

Div1: <https://www.hackerrank.com/codestars-contest-div1>

Div2: <https://www.hackerrank.com/codestars-contest-div2>



Competition 2:

Codestars also maintains an infinite competition on Hackerrank where students can compete amongst themselves and also can brush up their coding skills. The leader board of infinite competition is also maintained. The contest has started on 10 January 2020 and has no time limit.

Link- <https://www.hackerrank.com/codestars-2020-weekly-practice>

EVENT:

The flagship event of the Codestars committee for the academic year 2019-2020 was Code-Unicode. Code-Unicode is the brainchild of Codestars committee members. Looking at the current scenario of engineering students, this initiative was taken to help bridge the gap between professional coders and amateurs. It was introduced to identify talent and reward the same, all while raising awareness about Competitive Coding. Code-Unicode was an intercollegiate competition where any and all college students could participate.

There were a total of 2 rounds. Round 0 were the qualifiers, Round 1 will be the Finale.

Round 0:

187 teams registered for Round 0 held online, on 24th January, 2020.

Round 0 was organised on 24th January, 2020 for the students of D J Sanghvi. The round was an online round, hosted on hackerrank.com. It was held from 9.00PM to 12.00AM. There were 5 questions ranging from easy to mind bending brain teasers. 30 teams made it through to the next round.

Link for round 0: www.hackerrank.com/code-unicode-round-0

Stats:

Registrations in Round 0 = 187

Teams qualified for Round 1 = 30 (50 candidates)

Round 1 – Final Round:

Final Round was organized on 21st February 2020. It was an on-site round that took place in DJ Sanghvi College on 6th floor. It was a 3hour on site round from 11.15AM - 2.15PM with 7 questions. This round was also hosted on hackerrank.com. The difficulty level of questions ranged from medium to hard.

30 DJ Sanghvi Teams (50 candidates) and 20 teams from other college (39 candidates) were qualified for Round 1, out of which 24 teams from DJ Sanghvi (41 Candidates) and 18 teams of other colleges (35 Candidates) were present for this round.

Prize money for winner was INR 7500, 5000 for 1st runner up and 2500 for 2nd runner up.



Link for Round 1: www.hackerrank.com/code-unicode-round-1

Final Standings:

Winner – Babumoshai – Rayyan Merchant, Vaishnav Damani (DJ Sanghvi)

1st runner up – PastGlory – Nilay Bhatia (DJ Sanghvi)

2nd runner up – AraAra – Archit Bhonsle, Arpit Bhat (FCRIT, Vashi)

Glimpses of the event:





CONCLUSION:

Based on the initial response and feedback from the students, it appears that Codestars is steadily achieving its target to raise awareness about 'competitive coding' and improve the overall 'competitive coding' atmosphere in DJSCE. Many more events are planned to achieve even bigger milestones.

Weekly as well Monthly meetings are held to review feedback and discuss the appropriate 'action plan' to help achieve our goals. Students are receptive towards the efforts of Codestars and the committee hopes that this will only get better with time.