



Somaiya Vidyavihar

K J Somaiya College of Engineering

(An Autonomous Un-aided Institute - Affiliated to University of Mumbai & Approved by AICTE)



ROBOCON KJSCE

Website link: https://www.somaiya.edu/kjsce/student_life/student_activities/PROJECTS/en

Email: roboconkjsce@somaiya.edu Contact: 91 022 6644 9191 / 9016 / 9475 / 9175 / 9275

TEAM KJSCE ROBOCON – Annual Report 2016 - 17



Vidyanagar, Vidyavihar, Mumbai-400 077, India.
Telephone (91-22) 6644 9191 Fax: (91-22) 21025272
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Team Members Of Year 2017-18:

1. Shreyas Seshadri
2. Tanay Shah
3. Sagar Ghanwat
4. Rahul Ramachandran
5. Dhanashree Lade
6. Chirag Shah
7. Kunj Haria
8. Nishant Gaonkar
9. Meet Mehta
10. Keval Mamaniya
11. Sahil Bagwe
12. Poojan Dholakia
13. Darshan Teraiya
14. Ninad Gund
15. Nirav Shah
16. Smit Shah
17. Kashish Jain
18. Abhishek Rai
19. Owais Ahmed Shaikh
20. Aniket Prasad
21. Tasbiha Baig
22. Pranav Jain



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Competition Details:

The theme for ABU-Robocon 2017 was 'The Landing Disc'. We were supposed to build one robot that can shoot and land the discs on the spots, under the specified constraints.

Final progress report since the announcement of the theme –

- 21st August, 2016 – Announcement of theme. We brainstormed on the same and came up with 3 different mechanisms to perform the given tasks.
 - September, 2016 – Prototyping phase. Checked the efficiency of all the mechanisms and by the end of the month, finalized one mechanism.
 - October, 2016 – Built the first prototype of the final robot with the finalized mechanism. Discussed the various problems and limitations of the robot. To be specific, more feedback systems were necessary.
 - November, 2016 – Exam month. Started the designing of another prototype with better ideas.
 - December, 2016 – Built the new robot. Built the arena for practicing in S.K. Somaiya Vinay Mandir Badminton Hall. Started practice with the 1st prototype. Electronic interfacing for feedback was finalized.
 - January, 2017 – Further modifications of shooting mechanism and angle requirements from practice sessions and manufacturing phase
 - February, 2017 – Practiced with final Robot and prepared for all backup and tool requirements for Competition.
 - Reached Shree Shiv Chhatrapati Krida Sankul, Mahalunge- Balewadi Pune by MIT Academy of Engineering, Alandi on 28th February'17.
-
- 113 teams participated in ABU Robocon 2017 held at Balewadi stadium in Pune.



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- The competition was held on 2nd, 3th and 4th March.
- The teams were divided into 37 groups with 3 teams in each group.
- In the first stage, i.e. league stage, each team played one match against the other teams of the same group
- Team KJSCE Robocon (N1) was grouped along with Northern India Engineering College, New Delhi (N2) and Ambalika Institute of Management & Technology, Lucknow (N3) in group N.
- Team KJSCE Robocon's first match was against N2 on 2nd March at 12:36.
- Each match consisted of two rounds of 3 minutes each.
- KJSCE Robocon's score for the two rounds were 7 and 11 points against N2 who scored 0 In both the rounds.
- The second match was against N3 on 3rd march at 11:06.
- KJSCE Robocon's scores in the two rounds were 4 and 7 while the opposition scored 0 in the two rounds.
- At the end of the league stage, Team KJSCE Robocon ranked 10th overall.
- The next stage was the super league in which the top 24 teams participate.
- These 24 teams were divided into 8 groups of 3 teams each.
- This stage was the knockout stage.
- Team KJSCE Robocon (SLD2) was grouped along with Institute of Tehnology, Nirma University (SLD1) and U.V. Patel college of Engineering, Mehsana (SLD3).
- SLD2 played against SLD1 on 3rd March at 8 pm.
- KJSCE Robocon's score in the two rounds were 4 and 3 against the opposition's 6 and 10.
- The final rank of Team KJSCE Robocon was 19 out of 113 teams.



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