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**CLUB ACTIVITY ORGANIZED BY E-FORZA , ECE DEPARTMENT CLUB (2019-2020 ODD)**

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Electronics and Communication Engineering Department organized ‘Innovative Designing Competition’ on 7<sup>th</sup> November 2019, and ‘Robo Soccer Competition’ on 8<sup>th</sup> November 2019, as a part of the Club activities.

### **DAY 1: INNOVATIVE DESIGNING**

The task was to design an analog circuit, and simulate the same using the simulation tool, Mutisim. 11 teams consisting of 31 students participated in the event. The participants could apply their knowledge on analog electronics in this event. The event started at 9 am.

Round 1 was conducted in DSP Lab (Room Number 341) and the duration was 1 hour 30 minutes. In this round, the contestants had to design the given circuit, on paper. Experts evaluated the circuits and conducted viva voce on the topic, to shortlist the students who would go into the next round.

Out of the 11 teams, 8 were selected for Round 2. The duration for Round 2 was also 1 hour 30 minutes. In this round, the students simulated the circuit using the simulation tool, MULTISIM. This round was held in ROBOLAB.



Innovative Designing Competition, Department club activity organized by ECE Department club, 'E-FORZA' on 7<sup>th</sup> November, 2019 at MVJCE. The experts are evaluating the circuits designed by the participants.



Innovative Designing Competition, Department club activity organized by ECE Department club, 'E-FORZA' on 7<sup>th</sup> November, 2019 at MVJCE. The faculty members are evaluating the simulation results.

## Winners Details:

Sl. No.	Student Name	USN	Position
1	Revanth M	1MJ17EC111	1 <sup>st</sup> Place
2	Sachin Desai	1MJ17EC116	
3	Ranjitha S	1MJ17EC109	
5	Lakshman Kumar V	1MJ17EC065	2 <sup>nd</sup> Place
6	Santhosh V	1MJ17EC124	
7	Sujith Ramesh	1MJ17EC135	
8	Ganapathi N A	1MJ18EC045	3 <sup>rd</sup> Place
9	Ganesh Babu R	1MJ18EC046	
10	Dheeraj P	1MJ18EC039	

### DAY 2: ROBO SOCCER

This event was conducted by E-FORZA Club, ECE Department, MVJCE, on 8<sup>th</sup> November, 2019. In this competition, students had to battle it out and prove their endurance in a nail-biting game of football, using the bots they had created from scratch. Each game lasted for five minutes, and players had the option of taking a technical time-out of one minute, should their bots require it. The games surely kept the spectators on edge, all the time.

57 participants in 14 teams competed in this event with their bots, wireless. All the participating bots offered stiff competition, refusing to go down without a fight. For the students, this was an opportunity to apply their technical knowledge in practical situations, and thereby, even learn soft skills like teamwork, perseverance and sportsmanship.

The event consisted of four rounds, with each round getting progressively more difficult than the previous one, and finally, only the best bots remained in the reckoning. All the bots had **design constraints of dimensions (30x30 cm) and weight (4 kg)**. The event witnessed participation from students of **ECE, ME, CV, AS, AE** and **CS** Departments.



Robo Soccer competition, department club activity organized by ECE Department club, 'E-FORZA' on 8th November, 2019 at MVJVE. Shravan Kumar from first year controlling his bot during the Robo soccer event.

## Winners Details

Sl. No.	Student Name	USN	Position
1	Nishanth Shastry	1MJ17EC087	1 <sup>st</sup> Place
2	Sairus Bhattacharjee	1MJ17ME119	
3	Rahul G Nair	1MJ17ME104	
4	Nehal Shetty	1MJ17ME091	
5	Sujith Ramesh	1MJ17EC135	2 <sup>nd</sup> Place
6	Sriganesh V R	1MJ17EC150	
7	Surya Kotikiran	1MJ17EC138	
8	Vandana	1MJ17EC151	

### **Event Coordinators:**

1. Ms. Divya Sugathan, E-FORZA Club Coordinator, AP / ECE
2. Mr. Bhanuteja G, Robolab Coordinator, AP / ECE
3. Mr. Prashanth S G, E-FORZA Club Coordinator, AP / ECE
4. Ms. Ambili D Nair, E-FORZA Club Coordinator, AP / ECE

### **Outcome:**

1. The students put in a lot of thought and effort, to design a robot that is agile and dynamic, with a good traction, and a balance between the torque and the speed. Many such variables were considered by students, while designing a robot for Robo-Soccer.
2. As a long-term benefit, the students learnt to design robots which can be used for dynamic and agile applications.
3. The participants were able to showcase their overall understanding of circuit designing requirements.
4. Students could understand the importance of CAD simulation for a circuit design.
5. As a long-term benefit, the students got an opportunity to analyze and apply their theoretical knowledge on a practical level.