



Sarvajanik Education Society  
**Sarvajanik College of Engineering  
and Technology**

**ELECTRICAL ENGINEERING  
DEPARTMENT**



## REPORT ON STATE LEVEL TECHFEST URJA-2017



SARVAJANIK EDUCATION SOCIETY  
**SARVAJANIK COLLEGE OF ENGINEERING  
AND TECHNOLOGY**  
DEPARTMENT OF ELECTRICAL ENGINEERING

PRESENTS



**URJA - 2017**  
14<sup>TH</sup> - 15<sup>TH</sup> SEPTEMBER '17

**KSHITIJ - 2017**



**FACULTY CONVENERS**

CHINMAY NAIK: 9909432322  
EKTA DESAI: 9909790004

**HEAD OF DEPARTMENT**

Dr. SHABBIR BOHRA

**STUDENT CONVENERS**

SENIL RAMANI: 8758998266  
MAHEK VAGHANI: 9925015094  
RAHUL VAIWALA: 8460278172  
KHUSHROO MIRZA: 9904417840  
KEVIN PATEL: 9429189599

**URJA - EVENTS**

AAVISHKAR (MODEL PRESENTATION)  
ABHIVYAKTI (PAPER PRESENTATION)  
ABHISAAR (POSTER PRESENTATION)  
MODEL EXTEMPORE  
LASER MAZE  
ROBO RACE  
ROBO SOCCER  
GD & PI

► FOR REGISTRATION CONTACT CONVENERS AND FOR DETAILS OF EVENTS CHECK THE FOLLOWING LINK:  
[goo.gl/pq7WgB](http://goo.gl/pq7WgB)

URJA- has been an endeavor to provide a unique platform to the students of Electrical Dept, so expectations were pretty high all around. Since it's one technical festival which provides students to display their technical acumen & take innovation to a whole new level. Whereby they would present innovative ideas, hone their communication skills and learn to be a leader and a team player. 14-15 September, 2017 were the two days the fest experienced the sheer wonder of the hybrid combination of technology and creativity with a lot of fun

URJA, since its inception in the year 2003 till 2005 and its revival since 2009, URJA 2K16 was a grand success. Change is the law of nature, following the similar lines, URJA 2K17 had come up with more innovative events to inculcate inquisitiveness and broaden the horizon of knowledge.

We have received a very good response not only from the students of SCET but also from the students of GEC Surat, GEC Bharuch, CKPCET, SSASIT etc. All together there were more than 1200 participants registered for all the events.

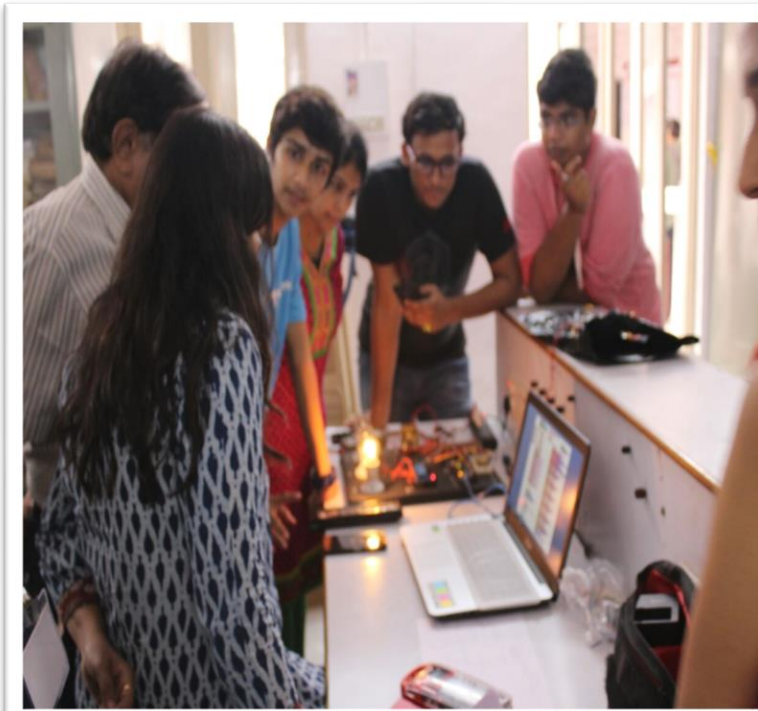
There were a number of events this time around, each taking creativity at its best, signifying how to take innovation and technology to the next level.

### **Highlights of the Events**

- ☐ Created history by over 1200 participants registered for all the events from all over the state
- ☐ Very good response from industry and other stakeholders
- ☐ Events for this year with all new concept and excitement
  - Model presentation
  - Model extempore
  - Robotics
  - Laser maze
  - Poster presentation
  - Virtual Placement

# Aavishkaar

- Event based on Model Presentation
- Working or Non working project based on Hardware and/or Software
- Team of maximum 4 members.
- Time Limit: 10 min for presentation + 5 min for viva
- Number of Participants: 36



# Abhivyakhti

- Event based on Paper Presentation
- Research Papers based on:
  - Recent Technology or Comparison between different technologies
  - New ideas for identify and Problem solving
- Individual or team of two
- Presentation Duration ( 8 min Presentation + 2 min Q&A)
- Number of Participants: 80
- Event held in two parts: Group A-1<sup>st</sup> year and 2<sup>nd</sup> year students



# Abhisaar

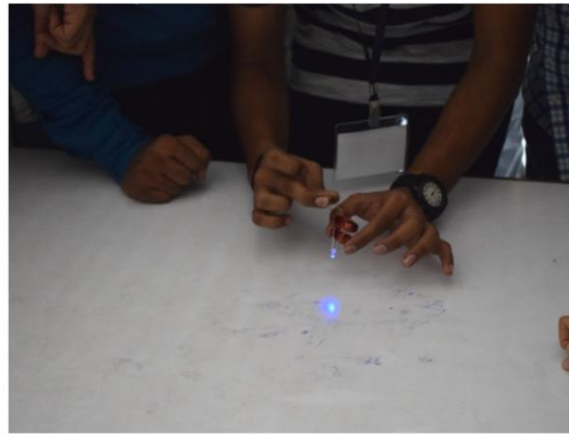
- Event based on Poster Presentation
- A self Explanatory Poster reflecting innovation and new information of topic related to Electrical Engineering
- Team Contains Maximum 2 members
- The size of Poster 36\*48 inches
- Number of Participants: 15



## Model Extempore

- Event based on Circuit Design
- Round 1: MCQ/Crossword based on basic Physics/ Electrical & Electronics
- Round 2: Task The circuit
- Round 3: Make A simple Working Model to complete a given task in given time limit
- Number of Participants: 410





## Robo Race

- Event based on
- Round 1: two robots have to race in parallel and few of them would be selected for 2nd round
- Round 2: this round will be disclosed on the day of event
- Max. device dimension 20\*20cm with 12V battery
- Number of Participants: 68

## Robo soccer

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- Round 1: In this round there will be a race between two robots. Two teams will compete with others simultaneously. The winner will go for the next round.
- Round 2: this round will be disclosed on the day of event
- Number of Participants: 36





# Laser Maze

- Individual or Maximum two students per group can take part.
- Competition will be in three levels. The rules and time limit of each level will be specified at the time of event.
- Quiz- Based upon your knowledge of laser.
- Pattern Generator- Participant should make pattern by laser in given time period.
- Number of Participants: 600



## GD & PI(Virtual Placement)

- **Round-1 APTITUDE TEST-** A simple quiz which includes logical, mathematical, technical questions.
- **Round-2 Group Discussion Topics** will be given on the spot
- **Round\_3 PERSONAL INTERVIEW-** Prepare your resume and dress in formal
- **Number of Participants: 299**





## Events Schedule

### DAY - 1 (14/9/2017)

8.30-10.30 am	GD(N) SEMINAR HALL			
9.30 am - 10.30 am	Laser Maze Quiz(E-202, E-203)			
9.30 am - 10.30 am	Tea and Break Fast			
10.30 am - 11.30 am	Model Extempore Quiz(E-202,E-203)			
11.00 am - 12.30 pm	Inauguration(Tiffac Hall)			
12.30 pm-1.00pm	Lunch Break			
1.00pm-3.00P.M	Abhivyakti- Paper Presentation (Group-A- M.Tech Classroom, Group B- E 204	Laser Maze(Group-A)- Round-1(E-202)	Robo Race- (Round-1)Electrical Department Ground Floor)	Robo Soccer (Power Electronics Lab)
3.00 pm - 3.30 pm	Tea Break			
3.30 PM - 5.00 Pm	Model Extempore Round-1 (Measurement Lab)	Laser Maze(Group-B)- Round-1(E-202)	Abhivyakti- Paper Presentation (Group-A- M.Tech Classroom, Group B- E 204	

### DAY - 2 (15/9/2017)

9:00 am - 09:30 am	Tea and Break Fast			
9.30 am -12:30 am	Avishkaar(Model Presentation- Machine Lab)	Abhisaar(Poster Presentation-E-201)	PI(M.E Class Room)	
10.00am-12.30am	Laser maze Round 3 [BE III EL, E-202]			
1.00 am - 3.00 pm	Model Extempore Round-2 (Measurement Lab)	Robo Race- (Power Electronics Lab)	Robo Soccer (Power Electronics Lab)	
3.30p.m-4.00	Validictory (E-202)			

**Urja-2017 under the banner of Kshitij-2017 14-15th September**  
**Winner List**

	<b>Mentors</b>			
1	Devangi Solanki-9904141801			
2	Abdul Kadir-9712421598			
3	Aalaap-9727028769			
4	Divy-9510633633			
5	Heny-8460187727			
<b>Sr No</b>	<b>Name of Events</b>	<b>Winner</b>		
1	Aavishkar(Model presentation)	1. Jenish Jain, Ruchi Parikh, Jiten Pandit, Shalin Shah 2. Vikas Patel, Vipul Rajpurohit 3. Rahul Vaiwala,		
2	Abhivyakti(Paper presentation)	1. Satyam Singh 2. Saloni Maheshwari	1.Amir Murad, Vikita Piraka. 2. Marmik Upadhyay, Nisarg Joshi	
3	Abhisaar(Poster presentation)	Ashutosh Sharama, Kiady		
4	Laser Maze	1.Patel Vikas, Patel Yash 2,Shaikh Irbaz,Modi Vijay 3.Mehta Mohit,Shaikh Maaz		
5	Model Extempore	1.Irbaz Shaikh,Vijay Modi 2.Kunal Patel,Prashenjit Sinha		
6	Robo Race	1.Naushil Jariawala,Shahid Jariwala 2,Krunal Patel,Harsh Patel		
7	Robo soccer	1.Patel Hemal, Kanaiya Thummar CKPCET) 2. Aakash Rana, Krunal Modi		
13	GD-PI	1.Prasanjit Sinha 2. Utkarsh Baxi		





**Team URJA - 2017**



The outcome of each event turned out to be great and cheerful, but no one knew the inner pain and trouble of organizers had to go through when planning the events and ensuring everything fell into place at the right time. Struggling to convince sponsors, collecting the required material, planning each and every bit of the event, testing things before the fest, assigning work to our team members, promoting the event, bringing participants and making them play the event, give out prizes, and finally wrapping things up: these were just some of the things that come your way, like steps on the rocky mountain you are climbing.

We present our gratitude to Dr Vaishali Mungurwadi, Principal - SCET for providing support to organize various events under URJA. Our sincere thanks to Dr Mayank Dalal, Dean- SAWC and Dr Maulin Joshi, Planning Chair – Kshitij-2017 for their help and cooperation . We feel grateful towards our sponsors, ASTEK Electricals Pvt Ltd. and The Surat People's Bank Ltd, Surat for providing generous sponsorship towards Urja 2017. We are thankful to Dr. Shabbir Bohra Head – Electrical Engineering Department for his continuous guidance, prompt support for all the events of URJA.

To sum it all up, URJA-2017 was a mega celebration, a ride filled with a lot of thrills, celebrations, and problems, but once you reached the end, everything else was forgotten and you just rejoiced in the happiness of running a successful event!

**Coming together is a beginning; keeping together is progress; working together is success.  
- Henry Ford**