

SARVAJANIK EDUCATION SOCIETY
SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY
MECHANICAL ENGINEERING DEPARTMENT

A
Report
on
‘MOMENTUM 2k22’

(Under the banner of Kshitij 2022)

Date of event: 30th and 01st October, 2022

SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY, SURAT
MECHANICAL ENGINEERING DEPARTMENT

SCET MECH MOMENTUM 2022
30th Sept. & 1st Oct. 2022

CASH PRICE FOR TOP THREE WINNERS

Rocket Launcher

CADABILITY

GRAVITY ASSIST RACING

GYAN ASTRA

PLACEMENT

Sponsored by:

KHODIYAR
CAD Center (I) Pvt. Ltd.

CCHAHAH ACADEMY

Faculty co-ordinators:
Prof. D. Satish
Prof. Umang Gajjar
Prof. Jainish Topiwala

Core Team Members:
Bhavya Patel
Harsh Rajani
Smit Chodvadiya
Priyam Tejani
Sangam Jena
Kapadia Amaan
Vidit Bulsara
Preet Lathiya
Harsh Chheda
Ayush Patel

Head of Department:
Dr. Nitin Vibhakar

Principal:
Dr. Hiren Patel

Scan For Participation

About the Momentum 2k22

'Momentum 2k22' was organized by the **Mechanical Engineering Department** under the banner of Kshitij Techfest 2022 on **30th September & 01st October, 2022**. To showcase and enhance participants' capabilities, Momentum 2k22 consists of **04** technical and **01** non-technical event.

The Techfest had received **183 registrations** from different colleges of Surat like Dr. S & SS Ghandhy Government Engineering College, Surat; Shree Swami Atmanand Saraswati Institute of Technology (SSASIT), Surat; Government Engineering College, Rajkot and C.K. Pithawalla College of Engineering and Technology, Surat.

Inauguration ceremony

The inauguration ceremony of the event was initiated with a lamp lighting ceremony & prayer, and thereafter all the participants were welcomed by Head of Department - **Dr. Nitin N. Vibhakar**. Then faculty coordinators of the event, conveyed their wishes, and lastly the student event coordinator briefed about the Techfest. All the events were managed and executed according to the preplanned schedule.



Schedule of Momentum 2k22

Sarvajanik College of Engineering & Technology, Surat

Mechanical Department

Kshitij- MOMENTUM 2k22 Schedule (30/09/2022 - 01/10/2022)

30 Sept 2022	Events Name	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30
	Inaugration	L - 203															
	Gyan- Astra (Round-1)		(K- 101, K- 103)														
	Placement (Round-1)				L 202, L 204												
	Gravity Assist Racing (Round-1)						(L- 203)										
	Placement (Round-2)								L 202, L 204								
	CADability (Round-1)									CAD LAB (K- 102 A)							
	Rocket Launcher (Round-1)											New workshop (K- 01)					
1 Oct 2022	Events	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30
	Gyan- Astra (Round-2)		(K- 101)														
	CADability (Round-2)			CAD Lab (K- 102 A)													
	Gravity Assist Racing (Round-2)						L wing 2nd floor Mechanical Department										
	Gyan- Astra (Round-3)										BME LAB (J- 103)						
	Placement (Round-3)											CAD LAB (K- 102 A)					
	Rocket Launcher Round-2											New Workshop (K- 01)					
	Closing Ceremony																New Workshop (K- 01)

Events of Momentum 2k22

1. Rocket Launcher

The rocket launcher was an event that tested the creativity level and practical skills of students. In this, teams were asked to make a plastic rocket with the help of a bottle and other raw material available for use.

Total 22 teams had participated in this event.

This event evaluates one's innovativeness, creativity, designing the rocket to offer optimum aerodynamic strength that raises the rocket to its highest peak.



In the initial round, teams were asked to make a parachute. Plastic bottles, polythene, sticks, paper sheets and a rope were provided. Students were asked to make a parachute & launch it into air. The model that took the maximum time to land was qualified for the final round. In the final round, the team was asked to hit the target board. The maximum scoring team was regarded as the winner. None of the team managed to hit the target.

So, an extra round to determine the winner, first runner-up and second runner-up was held. The top three rockets that travelled the greatest distance were ranked as first, second and third.

Faculty coordinators: Prof. Nilesh Patel & Prof. Banty Patel

Student coordinators: Jaimin Bhad, Jugal Mechanic & Utsav Gadhiya

Volunteers: Raj Patel, Harsh Tiwari, Mann Mehta, Neel Panchal



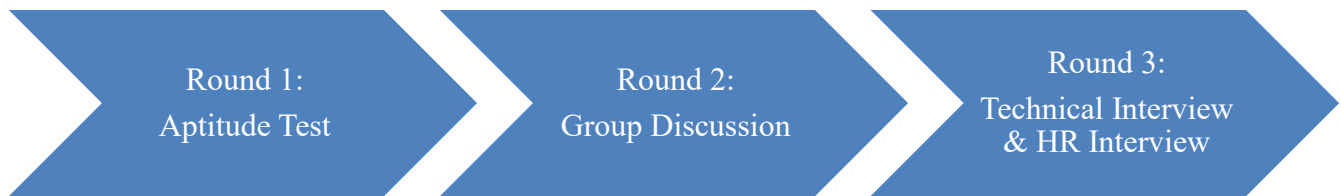
2. Placement

As part of placement drive, this event was conducted to test the ability of students to go through the basic processes of an actual placement drive. They not only learned what is expected by employer but also got an opportunity to show off their abilities.

Total 70 Participants had participated.



There were total of 3 rounds:



A preliminary round of an aptitude test in which three types of questions were asked: technical, logical reasoning and English grammar.

The second round consist of Group discussion. Group discussion (GD) rounds help interviewers assess and judge an individual's personality, perspectives, behavioral traits, divergent thinking, leadership, communication, analytical skills, etc., in a large setting. Therefore, familiarity with common group discussion topics is useful when preparing for job interviews or college/competitive exams. And the final round, was Technical & HR interview. A technical interviewer from reputed company interviewed each candidate regarding technical knowledge and A human resource professional from the industry interviewed each candidate, which included general questions and projects elaboration.

Faculty coordinators: Prof. Dhruvin Shukla

Student coordinators: Jayvin Patel & Jayraj Rathod

Volunteers: Het Parmar, Satyam Singh, Ishan, Dhruv Chauhan



3. Gravity Assist Racing

A "Gravity Assist racing" is an event where one uses his creativity to actively participate in track race. During the event, it encouraged the participants to think creatively and innovatively. This event provided a platform that helped the participants develop project presenting skills, how to utilize time, and how to work as a team.

Total 13 teams had participated in this event.

This event consisted of 2 rounds. In the first round, the participants were provided raw material like hard board sheets, cutter, fevi quick, tyres and sticks to make a car where the final evaluation would be on the basis of total distance travelled on the developed track with design and aesthetics. Total 1 hour was given for the preparation.

In the second round, the qualified participants had to modify the last designed car with their creativity from home and the winner's evaluation is on the basis of total distance travelled, number of pushes required, total time consumed and aesthetics. Time of preparation was given: 1 hour 15 mins.

Faculty coordinator: Prof. Aniket Tandel & Prof. Gaurang Parmar

Student coordinators: Jaydev Teraiya, Tanmay Baru and Jil Kevadiya

Volunteers: Umang Mistry, Vasu Patel, Krishna Chauhan, Dhruv Parmar, Tanmay Iyenger, Shashank Agarwal

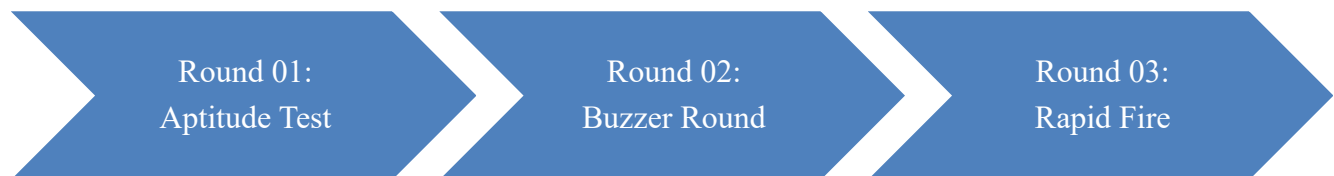


4. Gyan Astra

Gyan Astra is an event which tests the General Aptitude and knowledge of the participants. Topics are based on general knowledge, current affairs and technological aspects.

Total 47 teams have participated in this event.
(Min- 01 & Max- 03)

There were total of 3 rounds:



In 1st round, the participants had to give multiple- choice questions-based quiz on General aptitude & current affairs.

In round 2, the selected participants had to identify logo, movies, country flag, puzzle and audio & they had to find the answer by pressing buzzer provided to them. First pressed is given the priority. In the third round, it was a rapid-fire round. The selected teams had to answer some random sets of questions in a minute and top answering team is selected.

The winners were awarded according to their average scores of the respective three rounds.

Faculty coordinator: Prof. Seema Lad & Prof. Supriya Deshmukh

Student coordinator: Ravi Narola, Prince Balar

Volunteer: Yuvraj Singh, Manan Dholakiya, Neel Kakadiya, Mridul Dubey, Devansh Daga



5. CADability

The CADability event was an event that provided student's a platform to showcase and test their skills in the field of designing. Participants are required to have prior knowledge of designing software's like AutoCAD, Solid Works, Fusion 360.

Total 31 participants had registered in this event.

In the 1st round, participants were asked to prepare a detailed drawing within 1 hour. Isometric drawing with detailed dimensions was provided to prepare the drawing.



The participants were shortlisted according to completion of the drawing, dimensions, detailing, etc. In the 2nd round, the participants were asked to design a 3D model within 1 hour from the given detailed drawing. The participants were ranked on basis of completion of the model, no features or functions used etc.

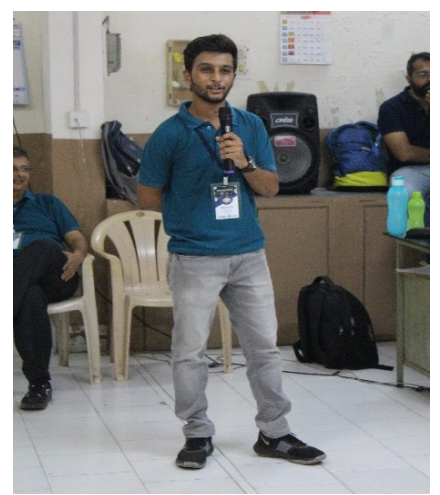
Faculty Coordinators: Prof. Amit Mehta & Prof. Piyush T. Patel

Student Coordinator: Aamir Saiyed, Ziyen Rangrez

Volunteers: Garvit Saraf, Harsh Gandhi, Mayank Jariwala, Ramsnehi Harsh



Some Glimpse of Momentum 2k22



Winner's List of Momentum 2k22 Events:

Sr No.	Event Name	Name of the Participant	Position
1	CADability	Yash Shah	1st
		Harsh Rajani	2nd
		Babulkher Maaz	3rd
2	GA Racing	Makani Meet	1st
		Malavi Himalaya	
		Harsh Balar	
		Savaliya Mukund	
		Tapas Naik	2nd
		Aryan Chauhan	
		Amaan Jagada	3rd
		Taha Shirgar	
		Kishan Baldaniya	
3	Gyanastra	Satyam Dubey	1st
		Sangam Jena	2nd
		Bhushan Patil	
		Karan Gohil	
		Naiteek Dhakecha	3rd
		Hardip Chabhadiya	
4	Placement	Krishi Patel	1st
		Jesika Jariwala	2nd
		Harsh Rajani	3rd
5	Rocket Launcher	Parth Solanki	1st
		Parva Patel	
		Vansh Patel	
		Neel Tandel	
		Khush Barot	2nd
		Satyam Tiwari	
		Vraj Patel	
		Harsh Panchal	
		Makani Meet	3rd
		Balar Harsh	
		Gandhi Keshvi	
		Yash Rixawala	
		Yash Shah	

From Students Coordinator

A lovely saying that reads, **"Winning is something; but participation is everything."** During these two days, around **300 Students** participated in all events, including both individual and team participation. The winners were announced during the closing ceremony and certificates were distributed to everyone. In a nutshell, these two days were filled with delight, learning, experience, skill representation, and, finally, appraisal. This event would not be feasible without the efforts of event organizers and volunteers working under the supervision of the respective faculties. So, congratulations to them!!!



Team – Momentum 2k22