





REPORT

Spark it Up: Circuits 101

About Engineering; its Domains and Future Career Prospects

EVENT DATE:

4th & 5th October, 2024

ORGANIZED BY:

Sarvajanik College of Engineering and Technology in association with IEEE SCET SB, IEEE SPS GC & IEEE GS

Sponsored by:

Try Engineering STEM Grant Program (IEEE Communications Society)



Event Banner



IDEA BEHIND THE EVENT

A workshop that's hands-on and beginner-friendly, focusing on the Engineering Domain. Our event was to teach pre-University students about the impact of the Engineers on society and thereby enlightening them about the emerging trends in the domain

The goal was to make tech education accessible to everyone. We covered basics like coding and working with sensors. By the end of the workshop, participants knew their way around tech and were also able to build projects.

Our project was about problem-solving, creativity, and getting people excited about the endless possibilities of technology. We're on a mission to promote STEM education, creating a new bunch of tech enthusiasts ready to tackle real-world challenges.

Session 1: Talk-Exploring Engineering: Pathways and Prospects **By:** Dev Joshi



An introductory presentation by the Dev Joshi (Chairperson of IEEE SCET Student Branch & STEM Event Coordinator); regarding the What is Engineering, what are the different fields that one can major in and what are the various career prospects to keep in mind for every field.

The session began with small feedback from the participants about what they thought about engineering. The basic answers included:

- Designing new things
- Making innovations
- Helping in making the human life easy
- Creating things that make day-to-day life efficient

The crowd finally reached to a conclusion that stated a one liner as: "Engineering is applied version of the theories and its practical use cases."

The session moved on as the speaker explained different branches of Engineering. The participants had a healthy discussion at length about the re-emerging field of Engineering – Electronics and Communication and how it could help in shaping the future and economy of the nation.

As the talk continued, the students started having clarity about choosing their path as an engineer and branches to consider for the same by being inquisitee & interactive.

Session 2: Hands on project implementation Student coordinator: Nainesh Gurav and Ayush Jariwala



The students of 2nd Year from the Electronics and Communication Department of SCET designed a whole program to help the students in designing a small project having some real-life impact.

The IEEE SCET SB procured the required kits for the same with the help of the grant provided from STEM. The flow included:

i) Pre- Assessment form: - for understanding the familiarity with sensors and its working

ii) Project Implementation: - The participants were taught about basic components like breadboard, sensor modules, LEDs, etc. and how to use them with the help of pin diagram.

iii) Quiz: - A fastest finger first based approach to understand the level of understanding and takeaway from the session.

Session 3: Project Showcase Student Coordinators: Jeel Ramani & Sahil Goti

The final year students of the institute displayed different projects for explaining the working model, prototypes and underlying engineering concepts and problem-solving techniques.





This hands-on introduced a real spark in the students. All started interacting with the committee and expressed their interest in domains like Robotics & Navigation, Cybersecurity, Industrial Internet of Things (IIoT),

Making it a highlight of the day, the students were eager to explore all the projects of seniors that it stretched the whole schedule of the session.

Session 4: Feedback



Offline feedback from the students as well as Google form-based online feedback was taken from the students and faculties participating in the event.



The participants not only enjoyed the event but demanded for frequent and longer events in the future. Idea being that every session of this event can be expanded as a whole event in the future events.



School – wise student Breakup:



Pre-assessment Form:









School-wise participant list: School Name: C.C SHAH SARVAJANIK ENGLISH HIGH-SCHOOL



School Name: SHARDAYATAN SCHOOL

Sr. Na.	ne of the School: A	nnexure 2		
1		Grade (IX-XII)	Mobile Number	Sign
2	Suchak Jenil 5	85	73070 101501 5	Juckas
3	Rana Het J	327	982563644 W	
-	Bhany Joshnah L	¥.)	COLUMN AND ADDRESS OF ADDRES	益.
-	Singh Ayush c	N.i	78-54 12982 2	Thish t
5	Macissingh Jay K			6
6	Mehter Preyak S.	21	96 877 93302 (5	
	Manaula Andrel qued			life
- 12	shadyeri sarya s	XI	- ×.	touth
10	Mistry West H.		\$12.0008207 E	the most
	ready and Angel D		78786 13826	4mi
1.1	Paulith Vivena N	-*1	98251 06322	charlet
_	Kothiya Aayushi A.	-72	9909926338	(may want
	Obsensi Voushti N		9898 559876	Questiti-
	Solanki Hirva P	IX	8160779469 6	Put
	Patel Asiyansh K	T	98 98868122	atell
	Jadav Prem	2	9913257754	Perm.

School Nam	ne: SMT.	VIDULABEN	BHANUKUMARNEMCHAND
SHAH JIVA	NBHART	I U.M. VIDHYA	ALAY

Jar	me of the School:smt	V. B.N. Cha	1 Peran bi	acte U.M.
Sr.	Name of the Student	Grade (IX-XII)	Mobile Number	Sign
No.		std	1001100100	110-
1	MDITYA DIPARUHAI RAHA	11- SLEENCE A-HOUP	and the second second	Auditor .
2	MO.AYAAN IRFAN BHAMBHANI	11	8200242371	Again
3	ISHAN NIKULKUMAR PATEL	h /	9898618138	Isham
4	FENIL AMITKUMAR MAKVANA	. /	8440670183	
5	AAYUSH RAJESH BHAI KANTHAAIYA	gul	\$1606 705 308	
6	FAIZAN KHAN ASARAF. PATHAN	Þ	7041909881	Daizan
7	DHAVIK SAHJAY DHAI SONAR	н	910 626 6 8 4 6	
8	AELISH VIMAL LESHWALA		9537210100	
9	REHMATJAHAN FAIZAH SHAIKH MED	н.	9664993151	
10	MITISHA KETAN KUMAR JARIWALA	.11	8460 881051	litigher
11	ANUSHKA DILIPBHAI PATIL	- 4	8160 5 86616	ANJANT
12	CHITRAKSHI VIMAL JARIWALA		8000358669	chiermelan
13	SANJANA AJAY KUMAR JARTWALA	t.	9054 41 9188	Sanjamon
4	NEHLY CHETAN KUMAR RANA		9979914457	Noncy
15	ISHAH RITESH BHAI GADHER	4	9825553303	-
16	JATNEEL RAMESHBURI ROT	1.5	9913124458	Ameril
17	HARSH JIGHESHBHAI RAHA		9265384209	Harth
18	GAURAV RANJITBHAI MORE	H	4016146249	
9	MEET VIJAYKUMAR DALIA	4	8866674240	Meet
10	SHUBHAM MAHISH KUMAR JAAIWALA	n	9712022761	Thebter

Student Volunteers:

Avni Deshpande; Hita Jariwala; Jaynee Choksy; Pranjal Patel; Parth Patel; Shrey Patel; Tej Desai

Report Compiled by:

Dev Joshi (4th EC, Chairperson IEEE SCET SB)