

ELECTRONICS AND COMMUNICATION DEPARTMENT

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE,
CHANDKHEDA, Ahmedabad - 382424



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NEWSLETTER 2024

VISION

To create an ecosystem for the proliferation of socially responsible and technically sound Electronics and Communication Engineers, innovators and entrepreneurs.

MISSION

- To develop state-of-the-art laboratories and well-equipped academic infrastructure.
- To motivate faculty and staff for qualification up-gradation and enhancement of subject knowledge.
- To promote Entrepreneurship, research, innovation and real-life problem-solving.
- To strengthen linkages with industries, academics, and research organizations.
- To reinforce concern for sustainability, natural resource preservation and social responsibility.

Student Achievements

A Proud Moment at Robofest 4.0 – Team Savaj Shines Bright

From January 21st to 24th, 2024, Gujarat Science City, Ahmedabad, hosted Robofest 4.0, India's largest robotic competition. Among hundreds of teams from across the country, our very own Team Savaj emerged victorious, securing the 3rd Rank (All India) in the Application-Based Robots category – and bringing home a prize of ₹7.5 lakhs.

Their innovation? A gesture-controlled robot, which impressed judges at every stage – from the proof of concept to intense selection rounds, and finally at the grand finale. But the journey didn't end with just an award.

The team's prototype was selected by ISRO, Ahmedabad for advancement in space technology, a huge recognition of its potential. Today, their robot is proudly showcased at the Robotics Gallery, Science City, where it stands as a symbol of innovation and inspiration.

Led by Hem Vadgama (EC Sem4), who also holds the patent for the design, and supported by Samir Makwana (EC Sem4), Team Savaj has not only brought glory to the college but also set a shining example of what passion and perseverance can achieve.



Gesture Controlled Robot displayed at Robofest – 4.0.



Student Achievements



Vaishvi Pariksh at BEE.

One of our students Vaishvi Parikh from EC department as a delegate for the prestigious BRICS educational Expedition (BEE), held from November 16-18, 2024, at Gujarat University. She was among the 100 selected delegates for this event, representing VGEC at this educational gathering.

Our batchmate Palak Rajnikant Sathawara represented Gujarat Technological University and VGEC at DD-Robocon 2024, organized by IIT Delhi at 13 and 14 July in collaboration with Prasar Bharati—proudly showcasing our spirit of innovation at a national stage at Thyagaraj Sports Complex, New Delhi.

Dhruvil Kishore Shah from EC department were awarded by Devang Mehta Award 2024.



Harshvi Baldaniya receiving award.

Harshvi Baldaniya, a student of 5th semester- Electronics and communication engineering won the first prize worth Rs. 15000/- in the Start-up Ideathon 3.0 held at Silver Oak University on 6th and 7th august 2024 under the mentorship of Tirth patel, Alumni of VGEC.

Nidhi Gevariya, 7 Sem Student, achieved the Bronze medal in the Yogasana State Championship held on 20th September 2024 at R.K. University, organized by GYSA.

She also secured a Gold medal for her selection in the All India University competition on 23rd October 2024 at GPERI, organized by GTU.

Bhavika Gadhvi, 5th Sem Student, represented GTU in the West Zone Volleyball Championship held on 16th October 2024 at VGEC, organized by GTU. She was selected for Yuva Sangam Phase 5 under the Ek Bharat Shreshtha Bharat (EBSB) initiative as part of the Gujarat contingent on 28th November 2024 at IIT Gandhinagar.

Student Achievements



Shlok Bhatt with his team

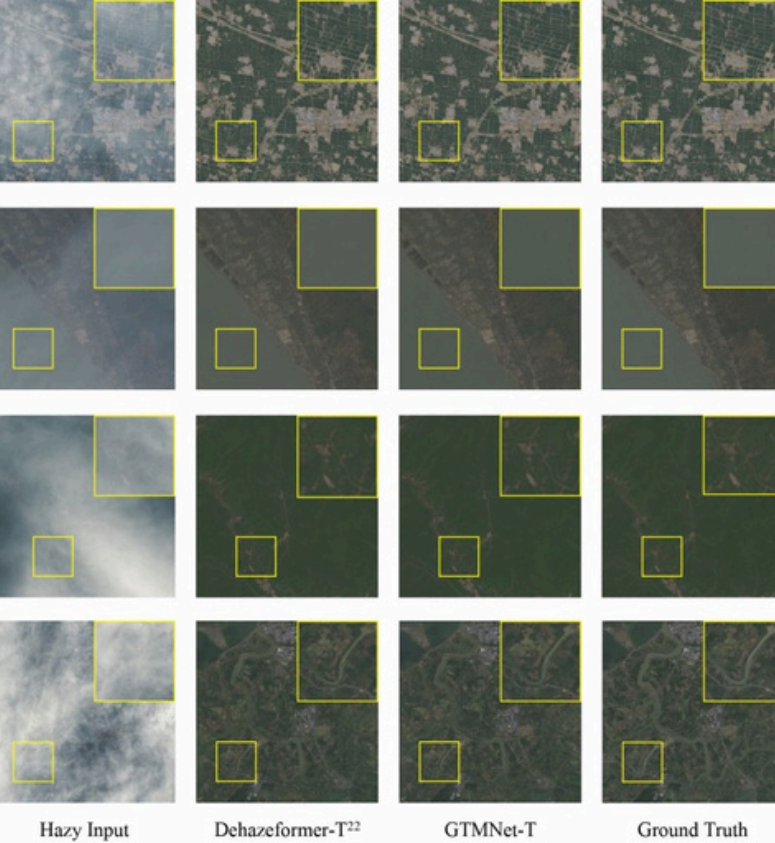
Shlok Harshal Bhatt, 3rd Sem Student, was a key member of the college's team that won the GTU Zonal Level Volleyball Championship on August 5th. As a wing spiker, Shlok played an instrumental role in securing the trophy for the VGEC team.



Team Inception with their Mentor

A team, Inception, has been selected for the final round of Smart India Hackathon 2024 in the Hardware Category. The team, consisting of Vishva, Suhani, Pragnesh, Balareddy, Manjeet, and Abhay (5th semester, EC), is working on an AI-powered automated defective exhibit identification system for museums. The project aims to develop a system for identifying and classifying defects in artifacts, supporting proactive preservation. Mentored by Prof. Kalpesh Chaudhary, the team will represent VGEC at the final round, held at Manipal University, Jaipur from 11th to 15th December 2024.

**Driven by passion,
defined by
innovation -
Our students
turn bold ideas
into real impact.**



Hazy Input Dehazeformer-T²² GTMNet-T Ground Truth

Faculty Achievement

Dr. Chintan B. Dave (EC Department) has been awarded a Ph.D. degree in “Unsupervised Single Image Dehazing Using Estimation of Transmission Map” from GTU on 12th December 2024.

Workshops and Student Initiatives

The drama was written and coordinated by Hitarth Shah (EC - Sem 3) and Aarjav Dhebariya (EC - Sem 3), Aanchal Khatwani (EC - Sem 3), Mansi Valera (EC - Sem 3) and Vandan Mehta (EC - Sem 3) performed the drama with other students.



(1) The VGEC Drama Team expressed gratitude and appreciation for teachers through their performance of the play "From Gurukuls to Cool Gurus: Timeless Teachers," highlighting the significant role teachers play in shaping futures. The performance was not only a tribute to teachers but also an engaging and meaningful addition to the Teachers' Day celebrations on September 5th. The script was written by the performers themselves and prepared under the guidance of Dr. Vaseem Qureshi.

(2) Hitarth Shah (EC - Sem 3) organized Skit Competition under VGEC Drama Club on 13th September 2024 to help students improve their communication, emotional control, and social skills while performing groups on stage.





Workshops and Student Initiatives

Mission English, launched in February 2019, is a student-driven initiative aimed at enhancing communication and employability skills. Sessions are held every Wednesday from 9:00 to 10:30 AM in the English Language Lab, E Block, under the guidance of Dr. Vaseem Qureshi (Assistant Professor, English, S&H Department).

On 7th August, Aarjav (3rd Sem, EC), Aastha (5th Sem, EE) and Vishwa (5th Sem, EE) conducted an interactive session titled "Words and Wonders."

On 4th September, Shruti (7th Sem, EC), Athira (5th Sem, EC) and Lipi (5th Sem, IC) conducted an interactive session titled "From Shy to Shine: Journey to confident speaking."

On 11th September 2024, Neonica Rai (3rd Sem, EC), Vidhi Agrawal (7th Sem, EC), and Harsh Shah (7th Sem, EE) conducted an interactive session titled "Dialogue Delights: The Art of Figurative Language."

NSS Activities

NSS stands for National Service Scheme, a program run by the Indian government under the Ministry of Youth Affairs and Sports. It's designed to involve students in community service activities, aiming to develop their personalities and character through voluntary work.

Following students of EC Department were included in NSS Activities:

Jeet Maradiya (EC 3rd Sem)
Karan Ahir (EC 3rd Sem)
Aanchal Khatwani (EC 3rd Sem)
Nidhi Solanki (EC 3rd Sem)
Rutul Prajapati (EC 3rd Sem)
Tanvi Parmar (EC 3rd Sem)
Aarjav Dhebariya (EC 3rd Sem)



Following events were happened under NSS:

- (1) Recruitment Day and Induction Program on 1st October.
- (2) Joy of Giving, the event in which things like clothes and crackers were given to children in slum area for Diwali, during 15th to 25th October.
- (3) Protein Powder Distribution and Music Therapy Session for cancer students by civil hospital on 11th December.
- (4) A Graphics and Designing workshop on 26th December.

Industrial Visits

1) From September 11-13, 2024, 50 students from VGEC's Electronics and Communication, Mechanical, Chemical, and Electrical departments attended SEMICON India in Greater Noida. The event, inaugurated by Prime Minister Narendra Modi, showcased the latest in semiconductor technology and industry innovations. Students participated in technical sessions, keynote speeches, and interactive exhibits, gaining insights into semiconductor fabrication and applications. They also engaged in placement and career activities at the Workforce Development Pavilion, preparing for careers in the industry. The visit, organized by the college and CTE office Gandhinagar, included travel, accommodation, and faculty support. In the evenings, students visited iconic Delhi landmarks, adding a cultural element to their trip. Overall, this educational experience broadened their understanding of the semiconductor field and enhanced their career prospects.



Semicon India



BISAG industrial visit

Beyond textbooks and lecture halls, industrial visits open the gateway to real-world learning – where theory meets practice, and curiosity meets creation.

2) The EC department organized an industrial visit for students on September 10 and 11, 2024, at BISAG. The main objective of the visit was to educate students about new technologies and research in the field of communication, and to provide them with information about satellite communication. A total of 199 students participated in the visit.

Seminars and Expert Talks

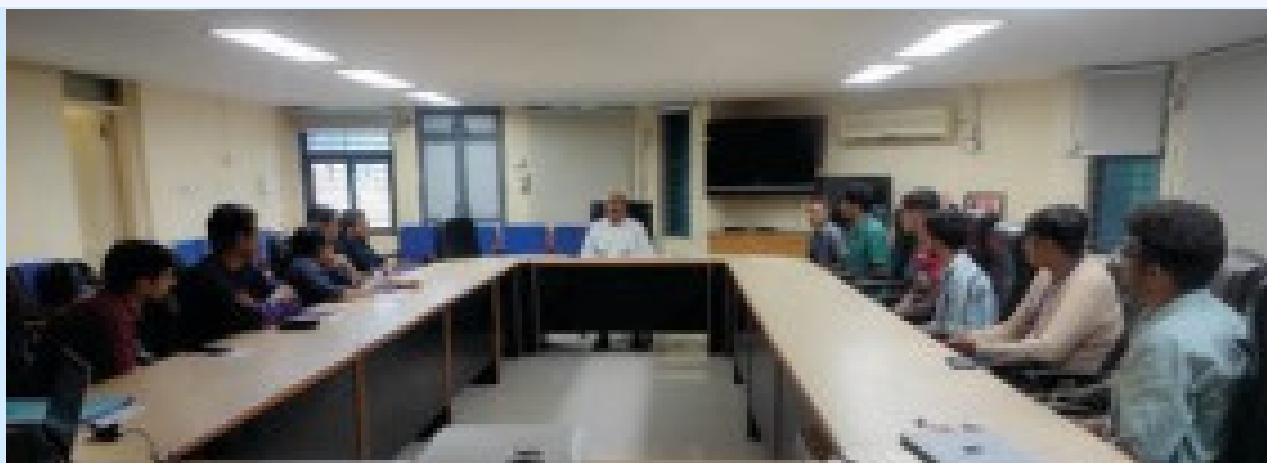
1) An ISC Scrutiny of PoC Proposals was held by the Innovation and Incubation Centre, VGEC, Chandkheda, from August 31 to September 11, 2024, at Chanakya Hall, VGEC. The departments of Computer Engineering, Electronics&Communication, Instrumentation&Control, E&I, Power Electronics, and Electrical Engineering invited academic and industry experts, both offline and virtually, in the presence of Dr. V.S. Purani and SSIP Coordinators. Students presented their ideas for funding under SSIP 2.0. The experts evaluated the new PoC proposals from these departments, and after rigorous scrutiny, the teams were recommended for funding under SSIP2.0 by innovation and incubation center.

2) An expert talk titled "VLSI: Powering AI and Computing" was organized by the EC department on September t, 2024. The lecture was delivered by Shri Pinakin P. Thaker, a retired senior scientist from ISRO, along with Mr. Mihir Mehta from Saptarshi Academy. They highlited recent advancement in VLSI technology and discussed how India, particularly Gujarat, is poised to become a game changer in this field. The event, coordinated by Prof. Kalpesh Chaudhary and Prof. Naresh Patel, was attended by over 150 students.

3) An Elocution Competition on "Prosperity from Startups" was held on October 9th, 2024, as part of Vikas Saptah at Visvesvaraya Auditorium, A Block. Students actively participated and shared their views on the topic. After the competition, Dr. V.S. Purani, Principal of VGEC, delivered a motivational session for first-year students, discussing challenges and opportunities in startups and innovation. The event was coordinated by Prof. Kalpesh Chaudhary (of EC) and Prof. Rozina Surani

The expert lecture provided profound insights and broadened academic horizons for all attendees.

**ISC Scrutiny
at
VGEC**



Artistic Corner

Khushi's Poetry (3rd sem)

Even When

In the quiet corridors of my brain,
waves from the labyrinth of my mind keep
crashing— soft, relentless, echoing truths
no lecture ever could.
Wires crossed like thoughts,
resistors placed where courage should be,
a code that compiled but never quite ran,
much like my plans for myself.
There were nights the circuit blinked,
and nights I did.
Flickering faith.
Low voltage soul.
Still— I showed up.
Not because I could, but because I
promised myself I would.
I stood, when my knees wrote poetry in
Morse code, when the weight of “not
enough” clamped my chest like static.
I stood when nothing was working—
not the LCD,
not the code,
not my self-worth.
But oh—
how electric the joy, when something
clicks, when it breathes, when it blinks
back at you like “See? You were always
enough.”
And in that moment, it's not just the wires
that completes— it's me
Falling apart and falling together,
all in one loop.
All in one life.
And somehow, standing.
Even when I can't.
Even then.

~ budding engineer

Arjav Dhebariya (3rd sem)

Last spring had gone without
you, but this time I wanted you
to come again be there with us
once again

She always asked about her
mumma I always replied to her
pointing towards your photo
that mumma's gonna come to
us soon

But deep inside only I know
that you're not going to come
back again

Today is her birthday and your
death anniversary too I visited
your grave with her she asked
who's inside it I replied with
your name she was not
shocked but happy that you
came back

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