



Government Polytechnic for Girls, Surat

Department of Electronics & Communication Engineering

E-NEWSLETTER

APRIL 2025 • Vol. 01

Electronics & Communication
Engineering Department

Information & Communication
Technology Department

VISION & MISSION



Electronics and Communication

VISION

Be an excellent department for girls to empower them in the field of Electronics and Communication engineering to excel in industry and serve the society.

MISSION

- To prepare professionally competent students and staff through academic excellence.
- To create a conducive environment in the department for exchange of ideas and knowledge.
- To provide opportunities in the department for skill development and innovation.
- To provide resources and infrastructure for best learning experience in the department.

HEAD OF DEPARTMENT'S MESSAGE



Mrs. KUNDAN. N. VAGHELA

Head of Department
EC Department, GPG
Surat

Hello Students!

We are delighted to bring you the April 2025 Edition of our EC Department E-Newsletter! The Electronics and Communication Department continues to grow and thrive, and this edition is a testament to the incredible work being done by our students and faculty.

I extend my heartfelt greetings to all staff and students associated with this endeavor. In this digital age, it is important to continuously update our knowledge. I am confident that the contents of this newsletter will be beneficial to your growth and development.

This newsletter reflects our department's commitment to building not only skilled engineers but also socially responsible individuals who can contribute meaningfully to the development of the nation.

The journey continues, and with your support, we promise to bring you more exciting updates, success stories, and thought-provoking content.

Thank You.

ARTICLE

By Venus Kohli

Can eSIM Unlock India's Digital Potential For The Next Manufacturing Boom?

Venus Kohli have published a document in electronics4u on "Can eSIM Unlock India's Digital Potential For The Next Manufacturing Boom?"

As India advances into the digital age, technologies like eSIM (Embedded SIM or eUICC) are gaining significant attention for their role in the manufacturing ecosystem. India has the potential to become a key player in the global eSIM market, provided it can leverage its existing technological infrastructure and growing semiconductor base.

To fuel India's digital manufacturing growth by offering flexible and secure eSIM solutions for developers and manufacturers.

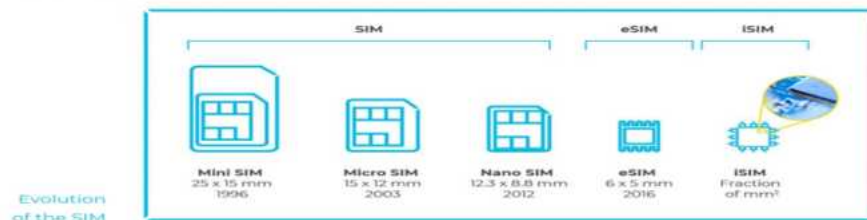
What is an eSIM?

eSIM technology is revolutionizing connectivity in India and beyond. Unlike traditional SIM cards, manufacturers embed eSIMs directly into devices during the manufacturing process. These smaller, more

efficient SIMs can be remotely provisioned and managed, allowing users to switch carriers seamlessly without needing to physically swap SIM cards.

In India, eSIMs promise to reshape how consumers and businesses experience connectivity, offering new opportunities for device manufacturers, telecom operators, and IoT developers.

In a recent interview with Counterpoint, Kigen's VP of Marketing, Bee Hayes-Thakore, gives her view that "eSIM is something that has the potential to disrupt the way the traditional manufacturing industry works".



Enhanced Security: A Game-Changer for Industrial IoT

One of the key advantages of eSIMs is their enhanced security. Traditional SIM cards can be physically removed or tampered with, creating security vulnerabilities. In contrast, eSIMs are embedded deeply into devices, providing a much higher level of physical security. They use advanced cryptographic protocols to ensure secure communication.

By leveraging these cryptographic protocols, eSIMs significantly reduce the risk of tampering and unauthorized access. This is particularly important for industries such as healthcare, banking, and industrial automation, where data security is paramount.

Easy Configuration and Flexibility

eSIMs offer remarkable convenience for both consumers and businesses. A single eSIM can hold multiple telecom operator profiles, allowing users to quickly switch between carriers depending on coverage or pricing. For international travelers, this means bypassing expensive roaming charges by quickly switching to local telecom providers. For manufacturers, this flexibility extends to device design — without the need for a physical SIM slot, manufacturers can create more streamlined, water-resistant designs.

The eSIM Manufacturing Opportunity in India

The shift toward eSIM is not just beneficial for consumers — it presents a massive opportunity for manufacturers, operators, and enterprises in India. By adopting eSIM-based designs, manufacturers can optimize device space, reduce costs, and create more efficient products.

This shift goes beyond smartphones, extending into a wide range of IoT devices such as smart locks, cameras, medical equipment, and industrial sensors. For telecom operators, eSIM technology lowers logistical costs and enhances the customer experience.

India's eSIM Growth: The Current Landscape

India stands as one of the largest consumers of SIM cards globally. With the nationwide rollout of 5G and the growing demand for IoT solutions, the eSIM market is poised for exponential growth. The government's push for a "Digital India" initiative further accelerates this adoption.

References: <https://www.electronicsforu.com/special/can-esim-unlock-indias-digital-potential-for-next-manufacturing-boom>

EVENTS

Campus Activities — EC/ICT Department & Gymkhana & NCC/NSS

A wide and diversified range of extracurricular activities exists on GGP, SURAT campuses. Students become involved in extracurricular activities not only for entertainment, social, and enjoyment purposes, but most important, to gain and improve skills and offer many social opportunities while also promoting service.

EC / ICT Department

**Expert Lecture on "Journey of a Startup" by
Miss. Shreya Ranpariya, Co-founder of AICamp**

• 11 October 2024 • 03:00 PM • V.K. Hall, GPG, Surat



Gymkhana Activities

Annual Day Celebration "GOONJ" — Sanjeev Kumar Auditorium, Surat

• 31 January 2025 • Sanjeev Kumar Auditorium, Surat

The Annual Day Celebration "GOONJ" was held by GGP, SURAT at Sanjeev Kumar Auditorium, Surat on 31st January 2025. The event was a grand success, showcasing the talents and achievements of our students and fostering a sense of community and pride among the participants.

The cultural performances were a highlight of the event, with students showcasing their talents in dance, music, drama, and various other art forms. The performances were not only entertaining but also reflected the diverse cultural heritage of our college. The participants had put in months of practice, and their dedication was evident in the seamless and captivating presentations. The event not only showcased the talents of our students but also strengthened the sense of unity and pride within the college community.

The Annual Day Celebration provided an opportunity to acknowledge and appreciate the academic achievements of our students. Medals were distributed to students who excelled in various GTU Exam.



Drawing Competition on the Theme "Swachhta" and Pledge taken on "Swachhta hi Seva"

• 01 October 2024 • GPG, Surat



Visit @ Surat Fort

• 11 October 2024 • GPG, Surat



Garba Celebration @ GPG SURAT — Dt.: 10-10-2024

• 10 October 2024 • 03:00 PM ONWARDS • GPG, Surat



Sports Week @ GPG SURAT — Dt.: 24-01-2025 to 30-01-2025

• 24 Jan 2025 – 30 Jan 2025 • GPG, Surat



NCC / NSS Activities

Road Safety Awareness Programme — V.K. Hall, GPG SURAT

• 22 January 2025 • 03:00 PM • V.K. Hall, GPG, Surat



Republic Day Celebration — GPG Surat Campus

• 26 January 2025 • 9:30 AM • GPG Surat Campus

The 75th Republic Day was celebrated at GPG Surat Campus with great enthusiasm and patriotic spirit. The staff, faculty members, and students gathered in large numbers to honor the occasion.

The celebration began at 9:30 AM with the flag hoisting ceremony performed with dignity and respect. As the National Flag unfurled, everyone stood in attention for the National Anthem, filling the campus with a sense of pride and unity. After the anthem, a brief address was delivered highlighting the significance of the Republic Day and the importance of the Indian Constitution. The atmosphere was filled with respect, pride, and celebration.



STUDENT'S ACHIEVEMENTS

Wishing all of you a heartfelt congratulation for putting up such an extraordinary performance in your exam.

Government Polytechnic for Girls, Surat Electronics & Communication Engineering Department

DEPARTMENT TOPPERS OF GTU EXAM — TERM 241

3RD YEAR — SEMESTER 05 | EC TOPPERS



1st RANK
SPI – 8.91
PANCHAL RIYA KAMLESHBHAI
(226150311012)



2nd RANK
SPI – 8.83
RAJPUROHIT SHRIYAM SHAILENDRASINGH
(226150311019)



3rd RANK
SPI – 8
MEWADA ANCHAL NANGJI
(226150311009)

2ND YEAR — SEMESTER 03 | EC TOPPERS



1st RANK
SPI – 7.7
GAJERA DARSHI VINODBHAI
(236150311003)



2nd RANK
SPI – 7.15
PAL SWATI KANAIYALAL
(236150311014)

1ST YEAR — SEMESTER 01 | EC TOPPERS



1st RANK
SPI – 8.05
DEORE YASHASVI RATILALVINODBHAI
(246150311004)



2nd RANK
SPI – 7.62
SHIROYA BRINDA PARESHBHAI
(246150311025)



3rd RANK
SPI – 7.38
RAJPUT SNEHA SUJEETBHAI
(246150311022)

Government Polytechnic for Girls, Surat
Information & Communication Technology Department

DEPARTMENT TOPPERS OF GTU EXAM — TERM 241

3RD YEAR — SEMESTER 05 | ICT TOPPERS



1st RANK
SPI – 9.62
SAHANI NANDA
PRAHLAD
(226150332058)



2nd RANK
SPI – 9.52
CHAUDHRI VAISHNAVI
SAILESH
(226150332010)



3rd RANK
SPI – 9.33
PANDYA MANSHIBEN
MRUGESHKUMAR
(226150332036)



3rd RANK
SPI – 9.33
EZHAVA GOPIKA
GOPAKUMAR
(226150332015)

2ND YEAR — SEMESTER 03 | ICT TOPPERS



1st RANK
SPI – 9.4
KHAN MARIYAH RAHEMAN
(236150332026)



2nd RANK
SPI – 9.15
VARSADIYA PALAK RAJENDRAKUMAR
(236150332075)



3rd RANK
SPI – 8.95
KESHARI MANSHI RAJNISH
(236150332024)

1ST YEAR — SEMESTER 01 | ICT TOPPERS



1st RANK
SPI – 9.14
JAIN SNEHA ANISHKUMAR
(246150332016)



2nd RANK
SPI – 8.52
VADODARIYA MISRI KAUSHIKBHA
(246150332072)



3rd RANK
SPI – 8.38
DAROKAR PRACHI RAVINDRA
(246150332007)

APPRECIATION CEREMONY — GPG SURAT 2025

Electronics & Communication Engineering — Term 241 (Semester 03 & Semester 01)

Glimpses of the bright students of the Electronics and Communication Engineering Department who were felicitated with certificates for their achievements during the 241 Term (Semester 03 and Semester 01) APPRECIATION CEREMONY HELD at GPG. SURAT – 2025.



Information & Communication Technology — Term 241 (Semester 03)

Glimpses of the bright students of the Information & Communication Technology Department who were felicitated with certificates for their achievements during the 241 Term Semester 03.



Information & Communication Technology — Term 241 (Semester 01)

Glimpses of the bright students of the Information & Communication Technology Department who were felicitated with certificates for their achievements during the 241 Term Semester 01.



STAFF ACHIEVEMENT

Faculty Training & Professional Development



Mr. Vipul R. Dodiya, Mr. Nitesh N. Gamit and Kum. Kalpana R. Chaudhari

🎓 Industrial Training: "BASIC TELECOM (Industrial Training)"

📍 Venue: BHARAT SANCHAR NIGAM LIMITED, SURAT (A Govt. of India Enterprise)

📅 Duration: 28-10-2024 to 16-11-2024



Mr. Alpesh D. Dobariya

🎓 Training: "AI-Driven Wearables and Robotics: Transforming the Future of Healthcare and Telemedicine"

📍 Venue: SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY, Surat (Online)

📅 Duration: 27/01/2025 to 01/02/2025



Mr. Dhruwank Y. Vankawala

🎓 Training: "Recent Trends and Future Prospects in Energy Storage and Energy Harvesting Devices"

📍 Venue: SVNIT, Surat

📅 Duration: 17/02/2025 to 21/02/2025



Mr. Divyesh U. Patel

🎓 Industrial Training: "BASIC TELECOM (Industrial Training)"

📍 Venue: BHARAT SANCHAR NIGAM LIMITED, VALSAD (A Govt. of India Enterprise)

📅 Duration: 28-10-2024 to 16-11-2024

PHOTO GALLERY

Annual Day "GOONJ" & Appreciation Ceremony — GPG, Surat

Glimpses of the bright students of the Electronics and Communication Engineering Department and the Information & Communication Technology Department, who were felicitated with medals for their achievements during the Annual Day Celebration "GOONJ" held at Sanjeevkumar Auditorium, Surat.



EC TRENDS • E-Newsletter • April 2025 • Vol. 01

Government Polytechnic for Girls, Surat | EC / ICT Department