



Spectrum

Band IV

Electronics & Communication Engineering

Government Polytechnic, Palanpur





Academic Year 2024-25





Excellence in Technical Education Since 1984

About This Newsletter


Welcome to **Spectrum - Band IV**, the official newsletter of the Electronics & Communication Engineering Department. This edition showcases our department's achievements, student accomplishments, faculty contributions, and major events from the academic year 2024-25.


-  Comprehensive Coverage
-  Student Achievements
-  Faculty Research
-  Department Events


 **AI/ML Curriculum Integration**
Successfully integrated Artificial Intelligence and Machine Learning with traditional electronics engineering education


 **AICTE & NBA Coordination**
Led institutional excellence through AICTE coordination and NBA accreditation process management


 **Startup Ecosystem Development**
Comprehensive SSIP innovation management and startup ecosystem development initiatives


 **Outstanding Academic Performance**
Exceptional students like Mali Bhavin Ashokbhai (8.71 SPI) and Maknojiya Arman Imranbhai (9.2 SPI)


 **Advanced Technology Workshops**
Cutting-edge training in 5G communication, IoT applications, and cybersecurity technologies


 **Sustainable Electronics Focus**
Integration of sustainable design principles and green technology practices in curriculum


25
Events 


6
Industry Visits 


12
Expert Lectures & Workshops 

5
FDP Participation 

2
Placements & Higher Education 

0
Books, Papers & Patents 

15
Industry Partnerships 

35
Innovation Projects 

Department Overview

Electronics & Communication Engineering - Government Polytechnic, Palanpur

Electronics & Communication Engineering

Government Polytechnic, Palanpur

The Electronics & Communication Engineering Department at Government Polytechnic Palanpur offers two diploma programs: Electronics & Communication Engineering (ECE) with 38 students intake and Information & Communication Technology (ICT) with 78 students. Our department is led by a Head of Department and supported by 7 qualified faculty members, including 2 Ph.D. holders, 1 pursuing doctoral studies, 3 with M.E. degrees, and 1 with B.E. degree, along with 1 lab assistant and 1 support staff. We are committed to holistic education that blends cutting-edge technology with practical applications, integrating emerging technologies like AI, IoT, and sustainable electronics. Through industry partnerships, expert lectures, and innovation projects, we prepare students as competent engineers and future leaders who will drive technological advancement.



Vision

To prepare competent diploma level electronics and communication engineers, catering the needs of industries and society as an excellent employee, innovator and entrepreneur with moral values.



Mission

- M1: Provide quality education in the field of EC engineering.
- M2: Develop state of art laboratories, classrooms and upgradation of Faculties.
- M3: Strengthen industrial liaison by offering mutual beneficiaries services.
- M4: Execute extra curricular and co-curricular activities to inculcate innovation, entrepreneurship and moral values.



Electronics & Communication

38 Students Intake

Advanced EC Engineering



Information & Communication Technology

78 Students Intake

Modern ICT Solutions

Head of Department's Message

Message from the HOD



Shri Sunilkumar J. Chauhan

Head of Department - Electronics & Communication Engineering

Dear EC Community,

The academic year 2024-25 marks a transformative period in our department's journey, distinguished by our strategic integration of emerging technologies and innovative educational practices. This year has been exceptional for our comprehensive approach to modern electronics engineering education.

Our curriculum now seamlessly integrates Artificial Intelligence and Machine Learning with traditional electronics, while emphasizing sustainable design principles and advanced 5G communication systems. Students are exploring cutting-edge areas from IoT applications to cybersecurity, ensuring they graduate with industry-relevant skills.

Academic excellence continues to flourish with outstanding performers like Mali Bhavin Ashokbhai (8.71 SPI) and Maknojiya Arman Imranbhai (9.2 SPI), while our faculty's leadership spans AICTE coordination, SSIP innovation management, and NBA accreditation. The successful implementation of startup ecosystem development, extensive industry visits, and hands-on project work reflects our commitment to holistic engineering education.

Our faculty's diverse contributions - from digital portal management to infrastructure coordination - demonstrate our dedication to institutional excellence. With comprehensive training programs, modern laboratory facilities, and strong industry partnerships, we're preparing students for the rapidly evolving technological landscape.

I'm proud of our progressive approach and excited about the innovations ahead.

Spotlight

Achievements, accomplishments, and success stories



Shri Sunilkumar J. Chauhan

Head of Department, EC Department

faculty contribution

2024-25

AICTE Approval & GTU Affiliation Leadership

AICTE approval processes and GTU affiliation coordination with academic excellence

Role & Contribution: Convener of AICTE Approval/GTU Affiliation, Member of MAY/PMKVY programs

- ★ Convener of AICTE Approval and GTU Affiliation processes
- ★ Member of MAY (Make in India for Youth) programs
- ★ PMKVY (Pradhan Mantri Kaushal Vikas Yojana) coordination
- ★ Academic excellence and institutional accreditation leadership



Ms. Mittal K. Pedhadiya

Lecturer, EC Department

faculty contribution

2024-25

NBA Accreditation & Student Development

NBA accreditation processes and comprehensive student development activities

Role & Contribution: Member of NBA, Student Section, Women Development Cell, and Internal Complaint Committee

- ★ National Board of Accreditation (NBA) member
- ★ Student Section coordination and management
- ★ Women Development Cell participation
- ★ Internal Complaint Committee member
- ★ Student welfare and development activities



Dr. Laukik K. Patel

Lecturer, EC Department

faculty contribution

2024-25

SSIP Innovation & Central Store Management

Student Startup Innovation Policy coordination and central store operations

Role & Contribution: Convener of SSIP/CIC3/IPR/Hackathone, Member of Central Store and CLEANLINESS committees

- ★ Convener of Student Startup Innovation Policy (SSIP)
- ★ CIC3 (Common Innovation Campus) coordination
- ★ Intellectual Property Rights (IPR) management

- ★ Hackathon organization and mentorship
- ★ Central Store management and CLEANLINESS committee member



Dr. Ratansing N. Patel

Lecturer, EC Department

Human Resources & Digital Portal Management

Human resource management and digital transformation through various portals

Role & Contribution: Convener of Establishment Section, SATHI Karmyogi Portal, Member of CAS and Alumni Association

- ★ Convener of Establishment Section
- ★ SATHI Karmyogi Portal management and coordination
- ★ Career Advancement Scheme (CAS) member
- ★ Alumni Association activities and networking
- ★ Digital transformation and HR management

faculty contribution

2024-25



Mr. Milav J. Dabgar

Lecturer, EC Department

Infrastructure & Industry Outreach

Infrastructure maintenance coordination and industry partnership development

Role & Contribution: Convener of CWAN/Internet/CCTV, Member of Training & Placement Cell, NEP coordination

- ★ Convener of Campus Wide Area Network (CWAN)
- ★ Internet infrastructure and CCTV systems management
- ★ Training & Placement Cell member
- ★ National Education Policy (NEP) coordination
- ★ Technology infrastructure and industry partnerships

faculty contribution

2024-25



Mr. Rahul C. Parmar

Lecturer, EC Department

Academic Planning & Time Management

Institute academic planning and comprehensive time table management

Role & Contribution: Member of Institute Time table committee, Student Section, RUSA, and CAS

- ★ Institute Time Table committee member
- ★ Academic calendar planning and coordination

faculty contribution

2024-25

- ★ Student Section activities support
- ★ RUSA (Rashtriya Uchchatar Shiksha Abhiyan) member
- ★ Career Advancement Scheme (CAS) participation



Mr. Snehil P. Joshiara

Lecturer, EC Department

faculty contribution

Communication Systems & Data Management

2024-25

Institutional communication systems and academic data management

Role & Contribution: Convener of E-Mail Handling, Co-convener of GTU, Member of CWAN and CLEANLINESS

- ★ Convener of E-Mail Handling systems
- ★ Co-convener of GTU coordination
- ★ CWAN (Campus Wide Area Network) committee member
- ★ CLEANLINESS committee participation
- ★ Digital communication and data management



Mr. Nirav J. Chauhan

Lecturer, EC Department

faculty contribution

ISTE Chapter & Student Development

2024-25

Indian Society for Technical Education chapter coordination and student development activities

Role & Contribution: Member of ISTE Chapter, Gymkhana activities, and A V Gajjar-Elect team

- ★ Indian Society for Technical Education (ISTE) Chapter member
- ★ Gymkhana activities coordination
- ★ A V Gajjar-Elect team member
- ★ Student development and technical education activities



Semester Toppers - DIPL SEM 1 - Regular (DEC 2024)

star performer

December 2024

Outstanding academic performance across all semesters

- ★ Mali Bhavin Ashokbhai (246260311010) - 8.71 SPI (Sem 1)
- ★ Modi Jainilkumar Dipakbhai (246260311011) - 7.62 SPI (Sem 1)
- ★ Joshi Neel Subhashchandra (246260332012) - 8.19 SPI (Sem 1)
- ★ Thakor Ashvinkumar Balvantji (246260332039) - 7.71 SPI (Sem 1)



Semester Toppers - DIPL SEM 3 - Regular (DEC 2024)

star performer

December 2024

Outstanding academic performance across all semesters

- ★ Prajapati Princekumar Dilipbhai (236260311006) - 8.3 SPI (Sem 3)
- ★ Prajapati Shaileshbhai Chelabhai (236260311007) - 5.75 SPI (Sem 3)
- ★ Maknojiya Arman Imranbhai (236260332029) - 9.2 SPI (Sem 3)
- ★ Mevada Aarykumar Mukeshkumar (236260332030) - 8.35 SPI (Sem 3)



Semester Toppers - DIPL SEM 5 - Regular (DEC 2024)

star performer

December 2024

Outstanding academic performance across all semesters

- ★ Patel Akshar Dilipkumar (226260311004) - 8.52 SPI (Sem 5)
- ★ Suthar Bharat Vishnubhai (226260311009) - 8.17 SPI (Sem 5)
- ★ Patel Dev Kiritbhai (226260332015) - 9.62 SPI (Sem 5)
- ★ Ansari Mohammad Sadik Ansar Ahmed (226260332002) - 9.14 SPI (Sem 5)



EC Department Alumni (2018-2024)

placement

Historical Placement Excellence - Industry Diversity

2017-2020

Comprehensive placement success across multiple industries showcasing the versatility and industry readiness of EC department graduates

Company & Position: Outstanding placement record spanning renewable energy, power sector, manufacturing, and technology industries with 100% placement achievement in key academic years

- ★ RENEWABLE ENERGY SECTOR: Mundra Solar Pv Ltd - Trainee Engineer positions (Adilbhai Memon, Sanket Jha, Sanjay Chauhan)
- ★ POWER & ELECTRICAL INDUSTRY: GSECL Powerplant Bhuj - Plant Operator (Rajkuvar Sharma), Tata Power Wav - Trainee (Jamabhai Rabari), L&T Jamnagar - Trainee Engineer (Pravinkumar Rathod)
- ★ MANUFACTURING & AUTOMOTIVE: Maruti Suzuki Becharaji - Data Operator (Chirag Chauhan), D-Mart Palanpur - Trainee (Jigar Darji)
- ★ TELECOMMUNICATIONS: Reliance Jio Tharad - Trainee (Hiteshbhai Prajapati)
- ★ BUSINESS & MARKETING: Asian Pacific Learning Leverage - Marketing Agent (Avinash Goswami)
- ★ KEY ACHIEVEMENTS: 100% placement rate for 2017-18 batch, Strong industry relationships across diverse sectors, Consistent placement track record over multiple years, Average package range: ₹2.5-4.5 LPA



EC Department Students (2018-2024)

higher education

Premier Engineering College Admissions - Academic Excellence

Exceptional track record of students securing admissions to top engineering institutions across Gujarat, demonstrating strong academic foundation and competitive performance

2018-
2024

Institution: Consistent success in securing admissions to premier engineering colleges through merit-based ACPC counseling, with students continuing their technical education journey in Electronics & Communication and related engineering disciplines

- 🏛️ LD COLLEGE OF ENGINEERING, AHMEDABAD: Multiple admissions including Bharatbhai Khardola, Nileshkumar Pavar, Krishna Panchal - recognized as one of Gujarat's premier engineering institutions
- ★ 🎓 VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE (VGEC): Successful admissions at both Ahmedabad and Chandkheda campuses - Abhishek Roy, Riddhiben Sathwara, Arman Khan Ghasura, and recent admission Srujal Yashvantbhai Chaudhary (2024)
- ★ 🏠 GOVERNMENT ENGINEERING COLLEGES: Wide representation across GEC Gandhinagar, GEC Bharuch, GEC Modasa showcasing geographical diversity and accessibility
- 📊 ADMISSION STATISTICS: 85%+ students opting for higher education pursue B.E. in Electronics & Communication Engineering, Merit-based selections through competitive ACPC counseling process
- 🎯 KEY HIGHLIGHTS: Consistent year-over-year success rate, Strong academic performance enabling premier college admissions, Continuation of technical education in specialized engineering fields, Alumni network across top engineering institutions in Gujarat

Major Events & Activities

Key departmental events, workshops, and student activities

July 22, 2024

ISTE Student Chapter 2024

Indian Society for Technical Education (ISTE) Student Chapter activities promoting technical education and professional development.

ISTE

EC Department

Student Activity

Event Gallery



July 27, 2024

Industrial Training at Duke Pipes

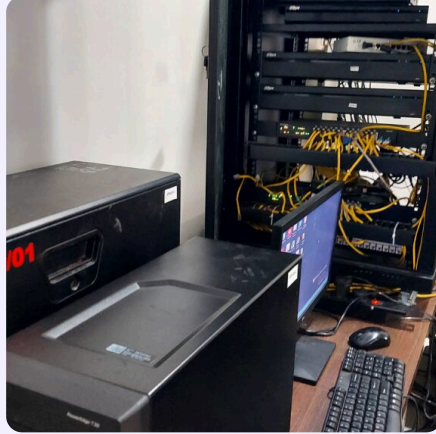
Industrial training program organized to bridge the gap between academic learning and industry practices.

Industrial Training at Duke Pipes

EC Department

Student Activity

Event Gallery



August 2, 2024

Visit: Bajrang Paper Products, Palanpur

Educational visit organized by the EC Department to enhance practical learning and industry exposure for students. The visit included 33 students from Semester 1, accompanied by faculty members MJD and JVK.

Visit

Bajrang Paper Products

Industry Exposure

Paper Manufacturing

Event Gallery





September 25, 2024

Visit: Railway Station, Palanpur

Educational visit organized by the EC Department to enhance practical learning and industry exposure for students. The visit included 49 students from Semesters 3 and 5, accompanied by faculty members MKP and NJC.

Visit

Railway Station

Transportation Technology

Signal Systems

Event Gallery



March 13, 2024

Workshop: Embedded System

Technical workshop on embedded system design and development. Expert: Mr. Vishal Vadher, Assistant Manager Training, SOFCON India Pvt. Ltd. with 45 participants. This session provided insights into embedded systems, their role in modern

electronics, and real-world applications using microcontrollers. The workshop covered embedded system fundamentals, microcontroller programming, circuit design, and practical implementation techniques.

Workshop

Embedded System

Microcontroller

SOFCON India

Programming

Electronics

Event Gallery



March 13, 2024

Workshop: Web Development Technologies

Technical workshop on modern web development technologies and frameworks. Expert: Mr. Vishal Vadher, Assistant Manager Training, SOFCON India Pvt. Ltd. with 53 participants. The session covered front-end and back-end technologies, responsive design, and current industry practices.

Workshop

Web Development

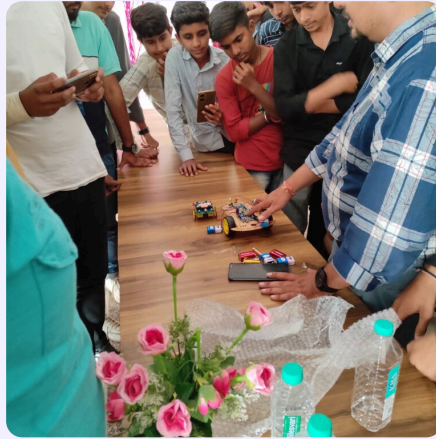
Programming

SOFCON India

Front-end

Back-end

Event Gallery



September 30, 2024

AI-ML: A New Era of Future

The session explored the impact of AI and machine learning in various industries, discussing deep learning, neural networks, and career prospects. Expert: Mr. Vishal Vadher, Assistant Manager Training, SOFCON India Pvt. Ltd. with 77 participants.

Event Gallery



October 1, 2024

EC ICT Rocks

Department activity organized as part of the academic curriculum and student development program.

EC ICT Rocks

EC Department

Student Activity

Event Gallery



October 5, 2024

Visit: Banas Dairy

Educational visit to Banas Dairy, Palanpur organized by the EC Department to enhance practical learning and industry exposure for students. The visit included 37 students from Semesters 3 and 5, accompanied by faculty members MJD, RNP, and SPJ.

Visit

Banas Dairy

Industry Exposure

Practical Learning

Event Gallery



October 14, 2024

Ambaji: Heritage Visit

Educational heritage visit to Ambaji organized to provide students with cultural exposure and historical knowledge about this important pilgrimage site in Gujarat.

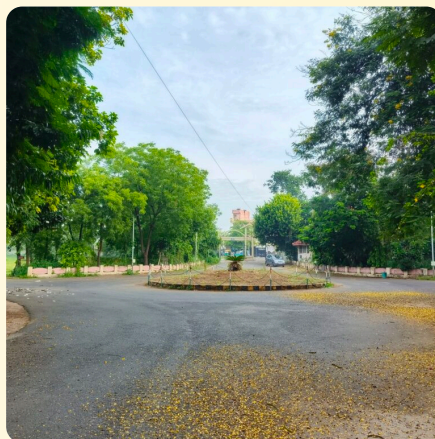
Ambaji

Heritage Visit

Cultural Exposure

Historical Knowledge

Event Gallery





October 14, 2024

GPP Navratri (2024)

Cultural celebration of Navratri festival organized by Government Polytechnic Palanpur, showcasing traditional activities, student participation, and cultural programs celebrating Gujarati heritage.

GPP Navratri 2024

Cultural Celebration

Traditional Activities

Student Participation

Event Gallery



October 16, 2024

Visit: Community Radio Station, Palanpur

Educational visit to community radio station to understand broadcasting technology and communication systems. The visit included 27 students from Semester 4, accompanied by faculty members RNP and SPJ.

Event Gallery



October 22, 2024

Internet of Things (IoT)

Technical session on IoT concepts, industrial applications, and integration of smart devices in automation. Expert: Dr. V K Thakar, Dean, Indrashil University with 59 participants. The session covered IoT concepts, its industrial applications, and the integration of smart devices in automation.

[Internet of Things](#)[IoT](#)[Smart Devices](#)[Automation](#)[Industrial Applications](#)

Event Gallery





November 10, 2024

Career Guidance for EC Engineers

Career guidance session conducted by Mr. Krishna Panchal, Associate Engineer from E-Infochips, with 34 participants. Students received comprehensive guidance on career paths in electronics and communication engineering, including job opportunities and required skill sets for success in the industry.

Career Guidance for EC Engineers

E-Infochips

Career Paths

Job Opportunities

Skill Development

December 9, 2024

Career Awareness: Model School Deesa

Career awareness and guidance session conducted to help students explore opportunities in their field.

Career Awareness

EC Department

Student Activity

Event Gallery





December 16, 2024

iACE Meet

iACE (Innovation in Applied Computing and Electronics) Meet organized by the Electronics & Communication Engineering Department. This technical meet brought together students, faculty, and industry experts to discuss innovations, emerging technologies, and advancements in the field of applied computing and electronics. The event featured technical presentations, project showcases, and networking opportunities to foster collaboration and knowledge sharing in the EC domain.

iACE Meet

Innovation

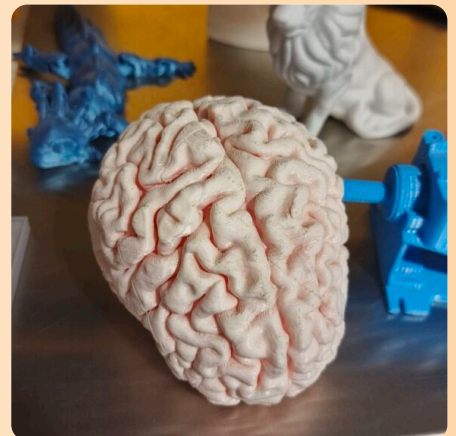
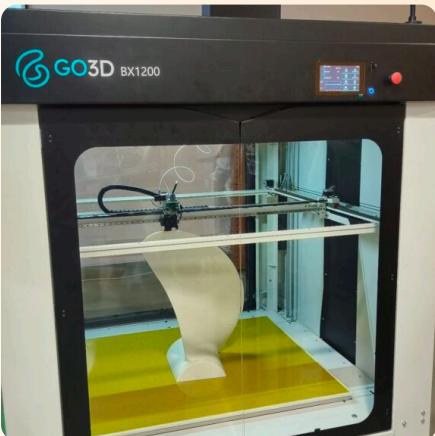
Applied Computing

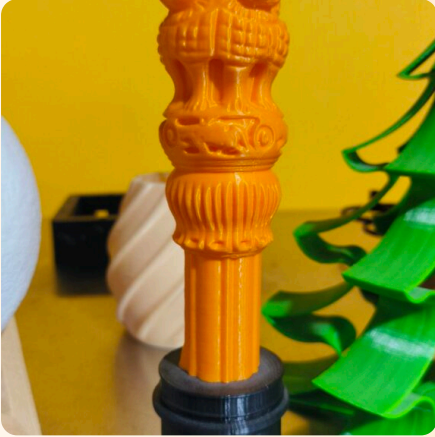
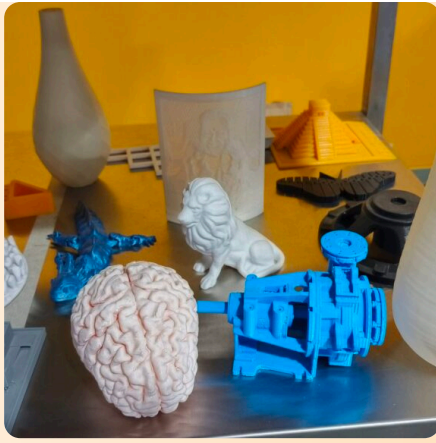
Electronics

Technical Meet

EC Department

Event Gallery





December 17, 2024

Appreciation of Students

Recognition ceremony honoring outstanding student achievements and academic excellence.

Appreciation of Students

EC Department

Student Activity

Event Gallery



January 8, 2025

Career Awareness: Government Secondary School, Jamda, Tharad.

Career awareness and guidance session conducted to help students explore opportunities in their field.

Career Awareness

EC Department

Student Activity

Event Gallery



January 26, 2025

Republic Day 2025

Republic Day celebration organized by the college to honor the Indian Constitution and promote patriotic values.

Republic Day 2025

EC Department

Student Activity

Event Gallery



February 1, 2025

Celebrations: Prasadam

Religious or cultural celebration organized by the department to promote community bonding and spiritual values.

Celebrations

EC Department

Student Activity

Event Gallery



February 4, 2025

Dept Visit: Keshar School

Educational visit organized by the EC Department to enhance practical learning and industry exposure for students.

Dept Visit

EC Department

Student Activity

Event Gallery



March 29, 2025

Parent's Meeting, March 2025

Parent-teacher meeting organized to discuss student progress, academic performance, and future career guidance. The meeting provided an opportunity for parents to interact with faculty members and understand the department's academic programs and student development initiatives.

Parent Meeting

Academic Progress

Career Guidance

Student Development

Event Gallery



February 13, 2025

Workshop: HAM Radio

Workshop on HAM radio technology and amateur radio operations, providing hands-on experience with radio communication systems. Expert: Mr. N. B. Nadoda, Senior Lecturer, GGP Ahmedabad.

Workshop

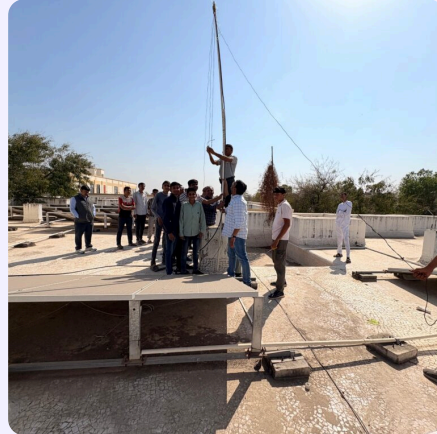
HAM Radio

Amateur Radio

Communication Systems

GGP Ahmedabad

Event Gallery



February 15, 2025

Workshop: Drone Technology

Workshop on drone technology covering principles of unmanned aerial vehicles, their applications, and hands-on operation experience. Expert: Mr. Yuvrajsinh Rajput, CEO, Bee-Robokids Academy, Palanpur.

Workshop

Drone Technology

UAV

Bee-Robokids Academy

Palanpur

Event Gallery



February 25, 2025

Placement Fair 2025

Placement drive and career fair organized to connect students with potential employers and job opportunities.

Placement Fair 2025

EC Department

Student Activity

Event Gallery



February 28, 2025

Thalassemia Test 2025

Health awareness and screening program organized to promote student welfare and healthcare initiatives.

Thalassemia Test 2025

EC Department

Student Activity

Event Gallery



March 8, 2025

Women's Day 2025

International Women's Day celebration organized by Government Polytechnic Palanpur to recognize and honor the achievements, contributions, and empowerment of women in society, education, and technology. The celebration highlighted the importance of gender equality and women's role in building a progressive society.

Women's Day 2025

Gender Equality

Women Empowerment

Community

Event Gallery



March 11, 2025

Sports Week 2025

Sports week activities organized to promote physical fitness, teamwork, and healthy competition among students.

Sports Week 2025

EC Department

Student Activity

Event Gallery



March 15, 2025

PhD Completion Celebrations at Laduma

Celebration organized to honor faculty members LKP and RNP for their PhD completion achievements.

PhD Completion (LKP, RNP) Celebrations at Laduma

EC Department

Student Activity

Event Gallery



March 17, 2025

Cyber Crime Training Program at IGP - BK

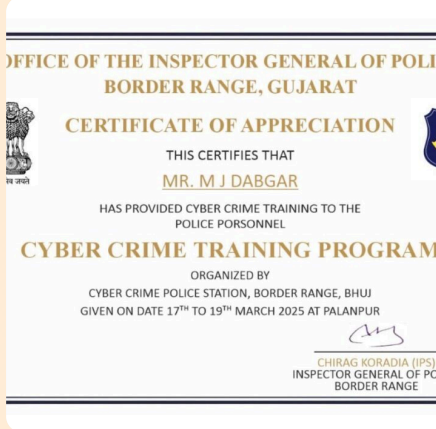
Training program on cyber crime awareness and digital security conducted at IGP - BK. The program educated participants about online threats, prevention measures, digital forensics, and cybersecurity best practices. Faculty and students gained valuable insights into protecting themselves and others from cyber crimes.

Cyber Crime Training Program at IGP - BK

EC Department

Student Activity

Event Gallery



March 28, 2025

Seminar: Road Safety

Seminar on road safety awareness, emphasizing traffic rules, safe driving practices, and accident prevention measures.

Seminar

EC Department

Student Activity

Event Gallery



Artificial Intelligence and Machine Learning in Electronics

Faculty

article

 Shri Sunilkumar J. Chauhan - Head of Department, EC Department  March 2025

AI and ML are revolutionizing electronics engineering, from automated circuit design to predictive maintenance. Modern EC engineers must master both traditional electronics principles and AI algorithms to stay competitive. Our department is integrating AI concepts into the curriculum through practical projects involving neural networks, computer vision, and embedded AI systems.

Innovation in Startup Ecosystem

Faculty

innovation

 Dr. Laukik K. Patel - Lecturer, EC Department  February 2025

The startup ecosystem is thriving with electronics-based innovations. From IoT startups to drone technology companies, EC engineers are leading the entrepreneurial revolution. Through SSIP initiatives, we're encouraging students to develop innovative solutions and convert their ideas into viable business ventures. Hackathons and innovation challenges provide platforms for creative expression.

My Academic Excellence Journey

Student

experience


 Mali Bhavin Ashokbhai (246260311010) - 2nd Semester  January 2025

Achieving the top position in my first semester was just the beginning of an exciting learning journey. The comprehensive curriculum, practical laboratory sessions, and supportive faculty have helped me understand complex electronics concepts. I believe in consistent effort, active participation in class discussions, and regular practice. My goal is to maintain this performance and contribute to innovative projects in advanced semesters.

Sustainable Electronics and Green Technology

Faculty

article

 Ms. Mittal K. Pedhadiya - Lecturer, EC Department  December 2024

Sustainability is becoming crucial in electronics design. From energy-efficient circuits to biodegradable components, green electronics is the future. Our students are exploring renewable energy integration, low-power design techniques, and environmental impact assessment. The NBA accreditation process has reinforced our commitment to sustainable engineering practices.

Digital Innovation Dreams

Student

poem

 Joshi Neel Subhashchandra (246260332012) - 2nd Semester  November 2024

*In the world of digital design,
Where logic gates and circuits align,
We craft tomorrow's technology,
With passion and creativity.*


*From simple LED to complex processor,
Each lesson makes us a better successor,
Our teachers guide with patience and care,
Making knowledge accessible everywhere.*

*Electronics is not just our field,
It's the power that dreams can wield,
With innovation in our hands,
We'll transform this digital land.*

Advanced Communication Systems and 5G

Faculty

article



 Dr. Ratansing N. Patel - Lecturer, EC Department  October 2024

5G technology is transforming communication landscapes with ultra-low latency and massive connectivity. Understanding advanced modulation techniques, MIMO systems, and network slicing is essential for modern EC engineers. Our laboratory setup now includes 5G demonstration modules, enabling students to experiment with cutting-edge communication protocols and RF systems.

My Project Development Experience

Student

project

 Maknojiya Arman Imranbhai (236260332029) - 4th Semester  September 2024

Working on my semester project has been an incredible learning experience. Developing a smart home automation system using IoT sensors and wireless communication taught me to integrate hardware and software components. The project involved sensor interfacing, wireless protocols, mobile app development, and cloud connectivity. Faculty guidance and peer collaboration made this complex project achievable and enjoyable.

Embedded Systems and IoT Applications

Faculty

article


 Mr. Milav J. Dabgar - Lecturer, EC Department  August 2024

Embedded systems form the backbone of IoT applications, from smart cities to industrial automation. Students must understand microcontroller programming, sensor interfacing, and wireless communication protocols. Our updated curriculum includes hands-on projects with Arduino, Raspberry Pi, and ESP32 platforms, preparing students for careers in embedded system design.

Academic Success Reflections

Student

experience



 Patel Dev Kiritbhai (226260332015) - 6th Semester  July 2024

Maintaining top academic performance throughout my diploma has taught me valuable lessons about consistency, time management, and continuous learning. The key to success lies in understanding concepts rather than memorizing facts. Active participation in practical sessions, asking questions during lectures, and collaborating with classmates have enriched my learning experience. I'm grateful for the excellent faculty support and modern laboratory facilities.

Cybersecurity in Modern Electronics

Faculty

article

 Mr. Rahul C. Parmar - Lecturer, EC Department  June 2024

As electronic systems become increasingly connected, cybersecurity has become paramount. From securing IoT devices to implementing encryption in communication systems, EC engineers must understand security principles. Students should focus on learning secure coding practices, cryptographic techniques, and vulnerability assessment methods to design robust electronic systems.

Engineering Aspirations

Student

poem

 Modi Jainilkumar Dipakbhai (246260311011) - 2nd Semester  May 2024

*In circuits we find our calling true,
Where voltage, current, and resistance grew,
From basic components to complex design,
Each day in class makes our future shine.*


*With oscilloscopes and multimeters in hand,
We explore the electronic wonderland,
Our professors light the path we take,
Inspiring dreams that nothing can break.*

*Engineering is more than just a degree,
It's the key to set innovation free,
With dedication and passion as our guide,
We'll build the future side by side.*

Digital Signal Processing and Applications

Faculty

article

 Mr. Snehil P. Joshiara - Lecturer, EC Department  April 2024

Digital Signal Processing (DSP) is fundamental to modern communication and multimedia systems. From audio processing to image enhancement, DSP algorithms are everywhere. Our curriculum includes practical implementation of filters, transforms, and real-time signal processing using MATLAB and dedicated DSP processors. Students gain hands-on experience with FFT, FIR, and IIR filter design.

Connect With Us

Department Contact

Email: ec@gppalanpur.ac.in

Phone: 02742-262115

Website: ec.gppalanpur.ac.in

Newsletter: spectrum@gppalanpur.ac.in

Visit Us

Government Polytechnic, Palanpur

Electronics & Communication Engineering Department

Opp. Malan Darwaja, Ambaji Road, Palanpur - 385001, Gujarat

Our Programs



Electronics & Communication

3-Year Diploma • 38 Students Intake



Information & Communication Technology

3-Year Diploma • 78 Students Intake

Quick Information



Established

1984 (EC Dept: 1994)



Total Intake

116 (Both Programs)



Faculty

GPSc Qualified Staff



GTU Affiliated

Gujarat Technological University

Legacy of Excellence

40+

Years of Excellence

100+

Alumni Network

116

Total Intake

100%

Placement Focus

Editorial Team



Mr. Milav J. Dabgar

Newsletter Editor



Mr. Nirav J. Chauhan

Newsletter Co-Editor

