

NEWSLETTER

January - June 2025



DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

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HOD'S MESSAGE

Prof. (Dr.) Tejas B. Sheth
Head of Department,
E&C – GEC, Gandhinagar



It is my pleasure to connect with all of you while presenting the newsletter of the E & C Department (Jan - July 2025) from the desk of the HOD-E&C. The Eleventh's edition of our biannual newsletter, which briefly documents the highlights of our journey in last six months.

I express my heartfelt gratitude to all the stakeholders for joining us towards imparting quality education in the field of E&C Engineering and allied areas through various means of teaching-learning process. I am sure that with the wholehearted support of all our stakeholders, we will keep achieving the greater heights at our best. This Newsletter encapsulates all such moments to share with all my beloved stakeholders of E&C Department. Keep that spirit of Teaching-Learning alive!



VISION OF INSTITUTE

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.

MISSION OF INSTITUTE

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.



VISION OF DEPARTMENT

- To produce globally competitive and resourceful EC Engineers to bring out research, innovation and teamwork for development in various fields of Electronics and Communication Engineering.

MISSION OF DEPARTMENT

- To impart quality education in the fields of Electronics and Communication Engineering through effective teaching-learning processes, well equipped laboratory facilities and collaborative ventures with industries.
- To provide the students of E&C engineering an environment of an academic freedom that will ensure the exchange of ideas and the dissemination of knowledge in this discipline.
- To provide the platform for students to perform the project work related to industrial and societal requirements.

PROGRAM EDUCATION OBJECTIVES (PEOs)

- To prepare graduates to excel in postgraduate programmes or pursue higher studies or to succeed in industry / technical profession through global, rigorous education
- To train graduates with good scientific and engineering breadth so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.
- To inculcate in graduates professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- The ability to implement and apply knowledge of Electronics and Communication Engineering subjects in the analysis, design and development of various types of electronic and communication systems.
- Demonstrate soft skills, aptitude, technical skills and knowledge to work in the industry, R and D organizations and society.

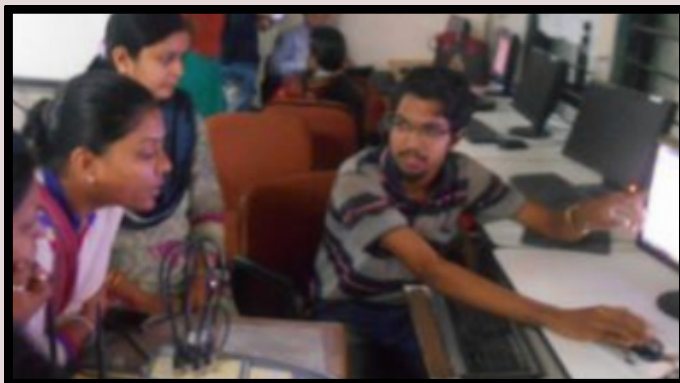
FACILITIES OF EC DEPARTMENT

INDUSTRIAL AUTOMATION LAB

This lab is used for the subjects like Industries Automation, Robotics and Automation, Biomedical Electronics, MEMS and Automotive Electronics.



WIRELESS COMMUNICAION LAB



Computer center is fully configured with high performance computing facility. This lab is having facility like wireless communication trainer boards.

CIRCUITS & NETWORKS LAB

EC Department is equipped with state of the art machines as per university guidelines. Students can get improve their skills and practical knowledge.



FACILITIES OF EC DEPARTMENT

ANALOG ELECTRONICS LAB



Laboratory is fully equipped with basic electronics instruments like analog electronics trainer kits, Analog circuit kit, Digital storage Oscilloscope, Cathode ray oscilloscope, Dual regulated power supply, Arbitrary generator.

ANALOG & DIGITAL COMMUNICATIONS LAB

Laboratory is fully equipped with instruments like analog communication trainer kits, Digital storage Oscilloscope, Cathode ray oscilloscope, Dual regulated power supply, Function generator.



DIGITAL COMMUNICATIONS LAB



Laboratory is fully equipped with instrumental like Analog Communication Trainer kits, Digital communication trainer kits, Digitals Storage Oscilloscope, Cathode ray Oscilloscope, Dual Regulated Power Supply, Function Generator.

DESIGN LAB

No.

Equipments

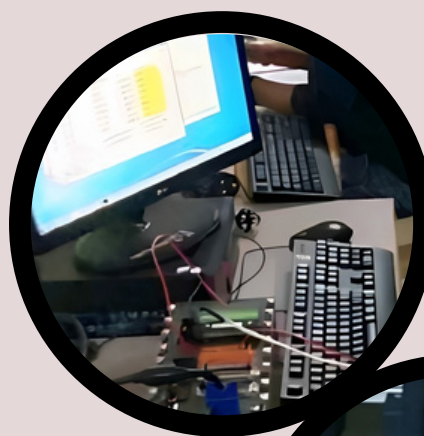
1. Wireless CCTV Camera System
2. Compact Thermal Imaging System
3. Mini/SFF PC
4. Adapter
5. DCPower supply
6. Digital Multi-meter
7. Routers
8. Signal Processing Board
9. Speed and Position Sensing
10. Encoders
11. Analog Discovery 2
12. Arduino Starter Kit
13. Solar Cells Indoors
14. Solar Cells Outdoors
15. ECG sensor
16. PPG sensor
17. Respiratory sensor
18. Alcohol sensor
19. EMG sensor
20. Gyroscope
21. Bluetooth Chip module
22. PH sensor
23. IR and Thermal sensor
24. Load cell



Design Lab is a platform for the young students with creative and innovative ideas. In the Design Lab, they can transform their idea into a tangible form. Students and academic researcher with innovative ideas, can get benefited with such Design Labs, where they can easily transform their creative ideas into deliverable form, at least on a lab scale or pilot project basis. Design Labs in Science, Engineering, and Technology disciplines work as a generator of intellectual properties like patents and industrial designs.

Correspondence:
Prof. Ravi Butani
Design Lab - Coordinator
Asst. Professor, E&C
Department.

LOCATION :
RoomNo. 1101,FirstFloor
Block No.-1,GEC,
Gandhinagar



FACULTY OF EC DEPARTMENT



DR. TEJAS B. SHETH
HEAD OF THE DEPARTMENT
QUALIFICATION:Ph.D.



DR. RAHUL D MEHTA
ASSOCIATE PROFESSOR
QUALIFICATION:Ph.D.



DR. ALPESH M. PATEL
ASSOCIATE PROFESSOR
QUALIFICATION:Ph.D.



DR. ANILKUMAR J. KSHATRIYA
ASSOCIATE PROFESSOR
QUALIFICATION:Ph.D.



DR. KIRIT V PATEL
ASSOCIATE PROFESSOR
QUALIFICATION:Ph.D.



PROF. JIGNESH K. BHAVSAR
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



DR. SUHAS H. PATEL
ASSISTANT PROFESSOR
QUALIFICATION: Ph.D.



PROF. KALPESH K. PATEL
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. NILESHKUMAR M. BANKAR
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. NIRAJ K. CHAUDHARI
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. SANDIP J. DAWDA
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. NISHA K. PRAJAPATI
ASSISTANT PROFESSOR
QUALIFICATION:M.E.



DR. HIMANSHUKUMAR D. NAYAK
ASSISTANT PROFESSOR
QUALIFICATION: Ph.D.



DR. SANDEEP J. RAJPUT
ASSISTANT PROFESSOR
QUALIFICATION: Ph.D.



PROF. UJJVAL R. DAVE
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. POOJA C. GAJJAR
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. HINA K. PATEL
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. NEETIRAJ SINH J. CHHASATIA
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



DR. PURVI A. KORINGA
ASSISTANT PROFESSOR
QUALIFICATION: Ph.D.



PROF. RAJAT G. PANDEY
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. RAVI C. BUTANI
ASSISTANT PROFESSOR
QUALIFICATION: M.E.



PROF. NISARG K. BHATT
ASSISTANT PROFESSOR
QUALIFICATION: M.E.

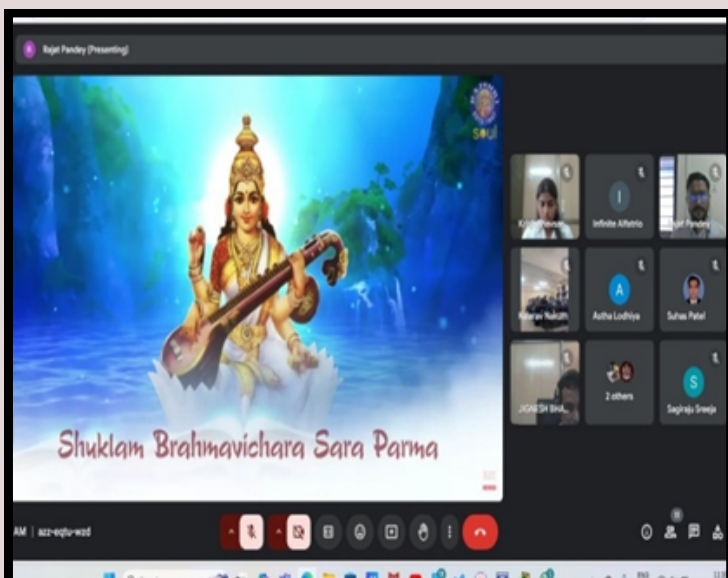


PROF. NEHAL M. SHYAL
ASSISTANT PROFESSOR
QUALIFICATION: M.E.

Department Activity

• Alumni Meet

The Department of Electronics and Communication successfully hosted its Alumni Meet on February 27, 2025, in a hybrid format, blending in-person and virtual participation via Google Meet. The event was efficiently coordinated by Prof. Rajat Pandey with the department's students, ensuring seamless execution.



Department Activity

• Industrial Visit

An industrial visit to i-Hub, Ahmedabad was organized by the Electronics and Communication Engineering Department of Government Engineering College, Gandhinagar on 12th March 2025. Prof. Avani Vithalani, Prof. Himanshu Nayak, Prof. Niraj Chaudhari along with a total of 43 students from the EC branch participated in this visit, accompanied by three faculty members. The purpose of the visit was to bridge the gap between academic learning and real-world technological innovations and entrepreneurship.



Department Activity

• Project Fair

A Project Showcase/Fair for Design Engineering II-B was organized at EC Department on 30th April 2025 under the guidance of Prof. (Dr.) Tejas B. Sheth and Prof. Hina K. Patel. All the Students of 6th Semester EC Participated with enthusiasm in this event.



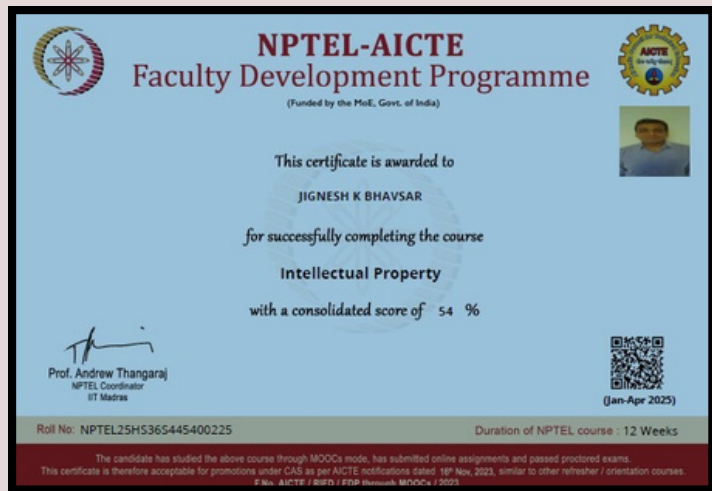
Department Activity

•IBM SkillsBuild Workshop

Department of Electronics and Communication at GEC-Gandhinagar in collaboration with KCG has successfully conducted the IBM SkillsBuild Workshop on "Introduction to Artificial Intelligence" on 7th February 2025. The event aimed to equip 1st and 2nd-year engineering students with foundational AI knowledge and hands-on experience.

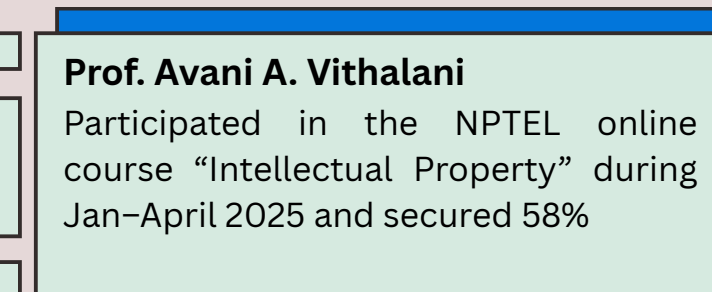


Faculty Achievements - NPTEL



Prof. Jignesh K. Bhavsar

Participated in the NPTEL online course "Intellectual Property" during Jan-April 2025 and secured 54%



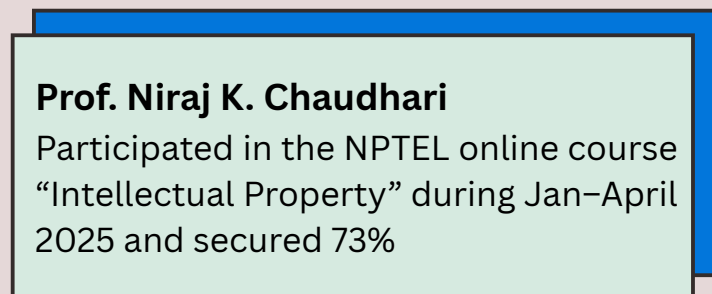
Prof. Avani A. Vithalani

Participated in the NPTEL online course "Intellectual Property" during Jan-April 2025 and secured 58%



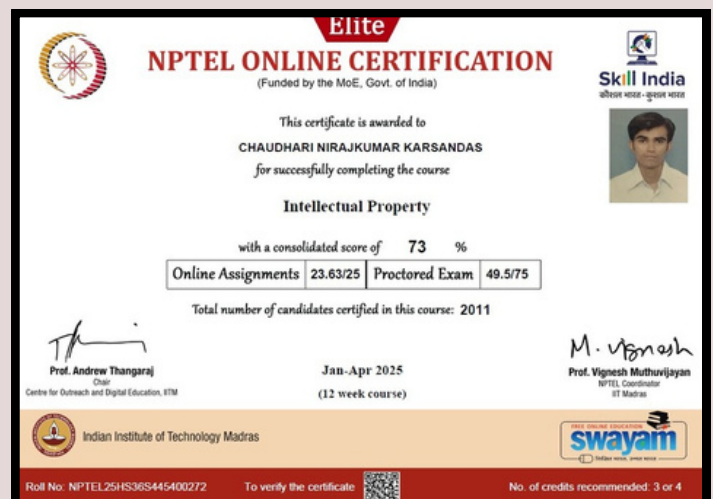
Prof. Suhas H. Patel

Participated in the NPTEL online course "NBA Accreditation and Teaching and Learning in Engineering (NATE)" during Jan-April 2025 and secured 80% – **Topper (Elite Silver Certificate)**



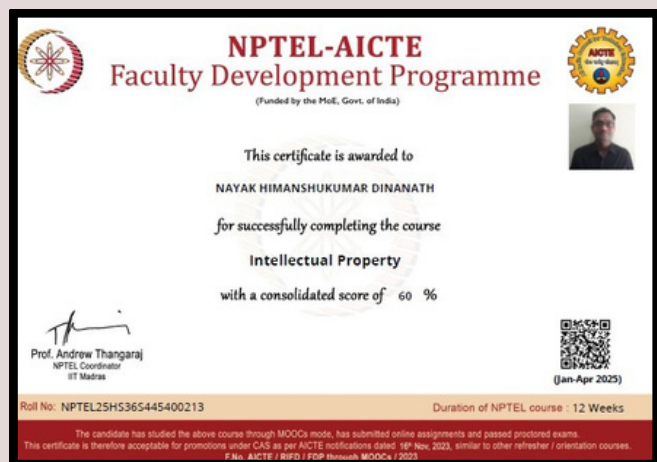
Prof. Niraj K. Chaudhari

Participated in the NPTEL online course "Intellectual Property" during Jan-April 2025 and secured 73%



Prof. Nisha K. Prajapati

Participated in the NPTEL online course "Education for Sustainable Development" during Jan–April 2025 and secured 100% – **Topper (Elite Silver Certificate)**.



Prof. Himanshu D. Nayak

Participated in the NPTEL online course "Intellectual Property" during Jan–April 2025 and secured 60%



Prof. Ujval R. Dave

Participated in the NPTEL online course "NBA Accreditation and Teaching and Learning in Engineering (NATE)" during Jan–April 2025 and secured 81% – **Topper (Elite Silver Certificate)**.



Prof. Rajat G. Pandey

Participated in the NPTEL online course "NBA Accreditation and Teaching and Learning in Engineering (NATE)" during Jan–April 2025 and secured 90% – **Topper (Elite Gold Certificate)**.



Prof. Pooja C. Gajjar

Participated in the NPTEL online course "Education for Sustainable Development" during Jan–April 2025 and secured 100% – **Topper (Elite Gold Certificate)**.



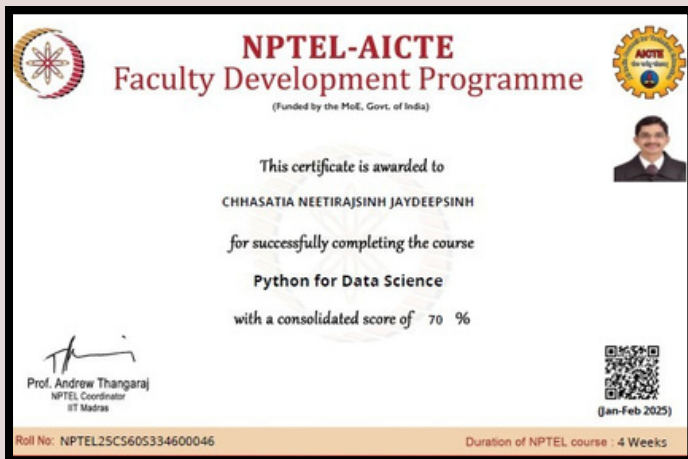
Prof. Hina K. Patel

Participated in the NPTEL online course "Education for Sustainable Development" and secured 100% – **Topper (Elite Gold Certificate).**



Prof. Neetiraj J. Chhasatia

Participated in the NPTEL online course "NBA Accreditation and Teaching and Learning in Engineering (NATE)" during Jan–April 2025 and secured 77%



Prof. Neetiraj J. Chhasatia

Participated in the NPTEL online course "Python for Data Science" during Jan–Feb 2025 and secured 77%



Prof. Purvi A. Koringa

Participated in the NPTEL online course "Education for Sustainable Development" and secured 100% – **Topper (Elite Gold Certificate).**



Prof. Nehal M. Shyal

Participated in the NPTEL online course "Education for Sustainable Development" and secured 100% – **Topper (Elite Gold Certificate).**

Faculty Training



Prof. Alpesh Patel

Has attended a training program on “Verification Technologies and Future Trends in VLSI design” at L.D. College of engineering during 23/6/25 to 27/6/25.



Prof. Anil Kshatriya

Has attended a training program on “Verification Technologies and Future Trends in VLSI design” at L.D. College of engineering during 23/6/25 to 27/6/25.



Prof. Kirit V. Patel

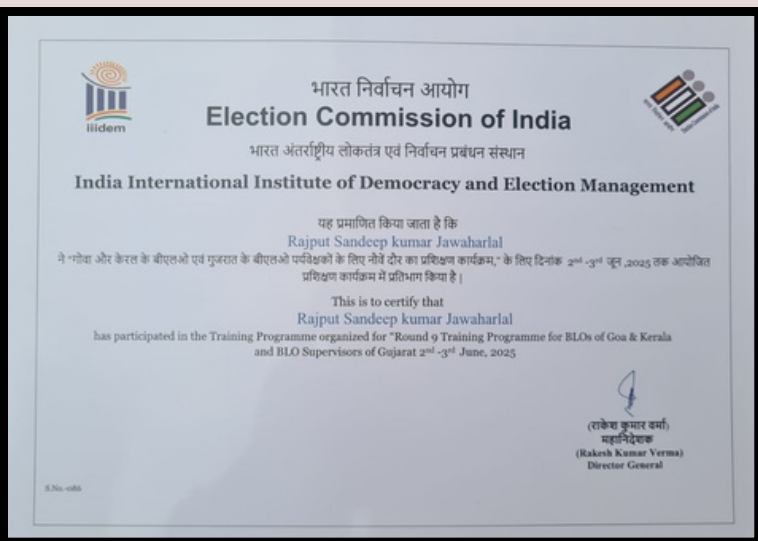
Has attended a training program on “Verification Technologies and Future Trends in VLSI design” at L.D. College of engineering during 23/6/25 to 27/6/25.



Prof. Himanshukumar D. Nayak

Has attended a training program on “Verification Technologies and Future Trends in VLSI design” at L.D. College of engineering during 23/6/25 to 27/6/25.

Faculty Training



Prof. Sandeep J. Rajput

Participated in the Training Program for BLOs of Goa & Kerala and BLO Supervisors of Gujarat, organized by Election Commission of India held at New Delhi during 2nd- 3rd June, 2025.

Prof. Neetiraj J. Chhasatia

Participated in the training on “Recent Development in RF and Antenna Design for Various Applications” from 27/01/2025 to 01/02/2025 at GEC – Rajkot.



Prof. Rajat G. Pandey

Participated in the training on “Recent Development in RF and Antenna Design for Various Applications” from 27/01/2025 to 01/02/2025 at GEC – Rajkot.



Prof. Nehal M. Shyal

Participated in the training on “Recent Development in RF and Antenna Design for Various Applications” from 27/01/2025 to 01/02/2025 at GEC – Rajkot.

Faculty Training - Webinar



Prof. Nilesh M. Banker

Participated in the webinar "IoT-based Drones in Different Domains" held on 23rd May 2025, organized by the IoT Society of India.

Prof. Neetiraj J. Chhasatia

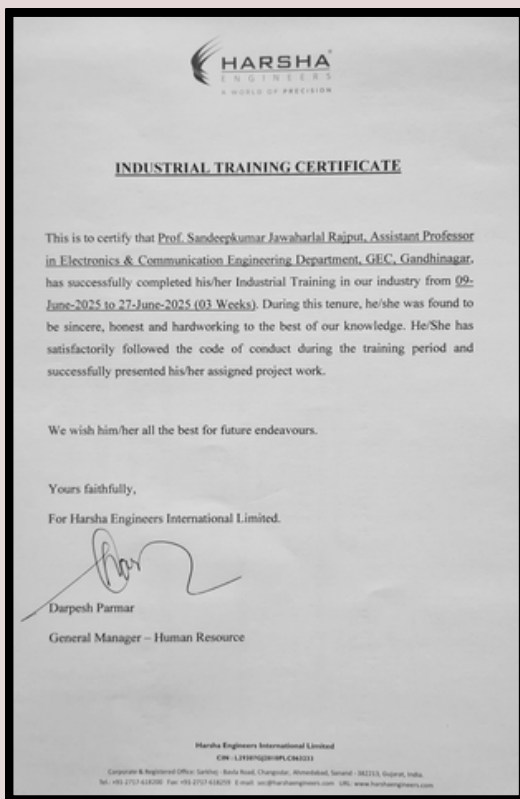
Participated in the webinar "Winter Places of Gujarat – Natural and Tourist Places" on 10th January 2025, organized by the KCG, Government of Gujarat.



Prof. Neetiraj J. Chhasatia

Participated in the webinar "Leadership Development for Governance and Management of the Institute" on 8th April 2025, organized by the KCG, Government of Gujarat.

Faculty Industrial Training



Prof. Sandeep J. Rajput

Participates in an Industrial Training Program at Harsha Engineers International Limited during 9th - 27th June, 2025 (03 Weeks).



Prof. Ujval R. Dave

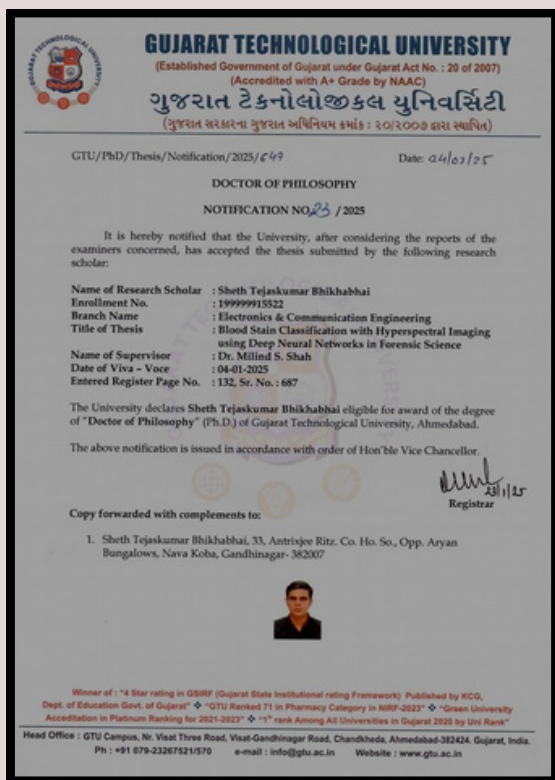
Participates in an Industrial Training Program at Harsha Engineers International Limited during 9th - 27th June, 2025 (03 Weeks).



Prof. Purvi A. Koringa

Participates in an Industrial Training Program at at eInfochips, Ahmedabad during 9th - 27th June, 2025 (03 Weeks).

BIG CONGRATULATION TO ALL !



Prof. Tejas B. Sheth

Completed his Ph.D. in Electronics & Communication Engineering from Gujarat Technological University on Dt. 04/02/2025.



Dr. Shahid S. Modasiya

Received certificate of Registration of Design issued on Dt. 17/06/2025 by the Patent Office, Government of India.



Dr. Shahid S. Modasiya

Received certificate of Registration of Design issued on Dt. 19/06/2025 by the Patent Office, Government of India.

Faculty Noteworthy Achievement

BIG CONGRATULATION TO ALL !



Dr. Shahid S. Modasiya

Received a Pedagogical Innovation Award on Dt. 15/02/2025 from Gujarat Technological University.

Prof. Nisha K. Prajapati

Received Certificate of Editor's Choice awarded by Medical & Biological Engineering & Computing on Dt. 05/03/2025.



Certificate of Appreciation

Presented to
Neetirajsinh Chhasatia

For your generous contribution as a reviewer for
IEEE 8th International Conference on Electrical, Control, and Computer Engineering
(InECCE2025)
27th-28th August 2025

Your support and dedication are deeply appreciated. This certificate is a token of our gratitude for the time, care, and expertise you have shared with us.

Thank you

Associate Prof. Ir.Ts. Dr. Nor Maniha binti Abdul Ghani
General Chair

Prof. Neetirajsinh J. Chhasatia

Received Certificate of Appreciation towards contributing as a reviewer in an IEEE International Conference InECCE 2025.

Faculty Paper Publications

- **Prof.(Dr.) Tejas B. Sheth** has published paper on “A Hybrid Inception Network for Hyperspectral Imaging-based Bloodstain Classification” in an International Research Journal of Multidisciplinary Scope (IRJMS) (Scopus Indexed), Vol. 6, Issue 2, pp. 930–940.
- **Prof.(Dr.) Tejas B. Sheth** has published paper on “A Scaled YOLOv4 Approach for Accurate Object Detection in Field Hockey” in an Indian Journal of Natural Sciences (WoS Indexed), Vol. 16, Issue 89, pp. 93492–93499.
- **Prof.(Dr.) Rahul D. Mehta** has published paper on "Optimized Movie Recommendation via Sentiment Analysis & Hyperparameter Tuning" in Jurnal Kejuruteraan, Vol. 37(3), 2025 (Scopus/WOS).
- **Prof.(Dr.) Suhas H. Patel** has published paper on “Survey on Sport Video Analysis and Event Detection” in an International Journal of Autonomous and Adaptive Communications Systems (Scopus Indexed), Feb 2025, Vol. 18, Issue 1, pp. 67–98.
- **Prof.(Dr.) Suhas H. Patel** has published paper on “A Scaled YOLOv4 Approach for Accurate Object Detection in Field Hockey” in an Indian Journal of Natural Sciences (WoS Indexed), Vol. 16, Issue 89, pp. 93492–93499.
- **Prof.(Dr.) Suhas H. Patel** has published paper on “A Hybrid Inception Network for Hyperspectral Imaging-based Bloodstain Classification” in an International Research Journal of Multidisciplinary Scope (IRJMS) (Scopus Indexed), Vol. 6, Issue 2, pp. 930–940.
- **Prof.(Dr.) Shahid S. Modasiya** has published paper on “Analytical Formulation and Practical Implementation of Cross-Polarization Suppression in Offset Parabolic Reflector Antennas” in an International Conference on Artificial Intelligence, Communication Technologies and Smart Cities-2025 Changa on Dt. 01/03/2025.

Faculty Paper Publications

- **Prof.(Dr.) Shahid S. Modasiya** has published paper on “Event detection in soccer matches through audio classification using transfer learning” in an IAES International Journal of Artificial Intelligence (IJ-AI)- Vol. 14, No. 2, April 2025, pp. 1441-1449.
- **Prof.(Dr.) Shahid S. Modasiya** has published paper on “Deep Learning Approaches in Healthcare: A Comprehensive Review of Techniques and Applications” in Journal of Information Systems Engineering and Management - Vol 10 No 2025 ISSN: 2468-4376.
- **Prof. Nisha K. Prajapati** has published paper on “ Image Restoration using Convolutional Neural Network-Di Strategy Bobcat Optimization Algorithm” in an International Journal of Intelligent Engineering and Systems, Vol. 18, No. 5, 2025.
- **Prof. Hina K. Patel** has published has published paper on “ Image Restoration using Convolutional Neural Network-Di Strategy Bobcat Optimization Algorithm” in an International Journal of Intelligent Engineering and Systems, Vol. 18, No. 5, 2025.
- **Prof. Nehal M. Shyal** has published paper on “ Image Restoration using Convolutional Neural Network-Di Strategy Bobcat Optimization Algorithm” in an International Journal of Intelligent Engineering and Systems, Vol. 18, No. 5, 2025.

STUDENT ACHIVEMENT



Uzma Pathan (220130111091) dedicated her time and efforts as a volunteer for the Placement Fair Zone 1, Node 2 (Dist. Gandhinagar).

Deepankar Manjee (230130111045) has pledged to work towards maintaining total cleanliness in his surroundings.



Karan Meghnathi (240133111014) received a Certificate of Course Completion for "Introduction to Cyber Security."

STUDENT ACHIVEMENT

PALAK SRIVASTAV

has participated in Level-3 ROBOFEST-GUJARAT 4.0 during 21st to 24th January-2025 at ROBOFEST - GUJARAT 4.0 Competition.



Mahaliya Manali (230130111044) participated in the Sahitya Sarita event organized at LDCE College.

Dev Makwana (230130111046)

received a Certificate of Appreciation from the E-Cell Club, IIT Bombay.



STUDENT ACHIVEMENT



Barad Anjali (220130111007) received this certificate for gaining in-depth insights and hands-on experience in circuit design organized by Club iBER.

Shah Krishnaben Sanjaykumar (220130111121) participated in a 2-week AI and ML training at GEC Gandhinagar, jointly organized by BSE and the State Nodal Office, RUSA.



Prajapati Reenal (230130111098) participated in Ideaverse at HackTheSpring'25 held on 28th Feb & 1st March at Government Engineering College, Gandhinagar.

STUDENT NOTEWORTHY ACHIVEMENT

ROBOFEST 4.0

ROBOFEST 4.0 is national level robomaking event organized by GUJCOST where total 08 different categories of robot making was listed by GUJCOST. The GEC Gandhinagar team have participated in Application based Robot category. These year more than 1000 teams have participated in this event among that approx 100 teams have qualified for grand finale which was held at science city Ahmedabad on 22nd January 2025. The team has won the grandfinale and won the total cash prize of Rs.5 Lakh.

Students : (1). Srivastav Palak (2) Dev Minesh Kumar Nagar (3) Krishna Raval
Mentor : Dr.Shahid S.Modasiya



સરકારી ઈજનેરી કોલેજ દ્વારા નેશનલ લેવલ રોબોફેસ્ટમાં ભાગ લેવામાં આવ્યો હતો. જેમાંથી ગ્રીજ લેવલ માટે એકસો ટીમો ક્વોલિફાય થઈ હતી જેમાં ગાંધીનગરની સરકારી ઈજનેરી કોલેજની ટીમ પણ સામેલ હતી. કોલેજની ટીમ રોબોફેસ્ટ ૪.૦ રોબોટ મેકિંગ સ્પર્ધામાં એપ્લિકેશન બેસ કેટેગરીમાં ભાગ લઈ ચોથા સ્થાને વિજેતા બની હતી. વિદ્યાર્થીઓએ નવીન પ્રકારનો હવામાં ઉડી શકે તથા જમીન પર ચાલી શકે તેવો રોબોટ બનાવ્યો હતો. કોલેજના પ્રિન્સિપાલ ડો. સ્વેતા દવેએ જણાવ્યું હતું કે, વિદ્યાર્થીઓ સ્પર્ધામાં ભાગ લઈ શકે તે માટે કોલેજની લેબ, સોફ્ટવેર, વિવિધ ટૂલકીટ આપવામાં આવી હતી. સ્પર્ધાના નિયમ પ્રમાણે વિદ્યાર્થીઓએ જાતે તમામ મોડેલ રજૂ કર્યા હતા. કોલેજની ટીમને પુરસ્કારરૂપે તમામ સ્ટેજમાં થઈ કુલ પાંચ લાખનું રોકડ ઇનામ પ્રાપ્ત થયું હતું.

સરકારી કોલેજના સ્ટુડન્ટ્સે હવામાં ઉડી શકે ને જમીન પર ચાલી શકે તેવો રોબોટ બનાવ્યો
રોબોફેસ્ટ 4.0 સ્પર્ધામાં નેશનલ લેવલ ટીમે ચોથો નંબર મેળવ્યો

ભાસ્કર ન્યૂઝ | ગાંધીનગર

સરકારી ઈજનેરી કોલેજ-ગાંધીનગર દ્વારા નેશનલ લેવલ રોબોફેસ્ટમાં ભાગ લેવામાં આવ્યો હતો. જેમાં જી.ઈ.સી.-ગાંધીનગરની ટીમ દ્વારા રાષ્ટ્રકક્ષાએ યોજાયેલા રોબોફેસ્ટ 4.0 રોબોટ મેકિંગ કોમ્પીટીશનમાં એપ્લિકેશન બેસ કેટેગરીમાં ભાગ લીધો હતો. ભારતમાંથી 1281 ટીમોએ રોબોફેસ્ટમાં ભાગ લીધો હતો. જેમાંથી ગ્રીજ લેવલ માટે 100 ટીમો ક્વોલિફાય થઈ હતી. મહત્વની બાબત એ છે કે 100 ટીમમાં જી.ઈ.સી.-ગાંધીનગરની 1 ટીમનો સમાવેશ થયો હતો.

તમામ સ્ટેજમાં કુલ 5 લાખનું પ્રાદ્ય મળ્યું

જી.ઈ.સી.-ગાંધીનગરની ટીમને પુરસ્કાર રૂપે બધા સ્ટેજમાં થઈ કુલ 5 લાખ રૂપિયાનું કેશપ્રાઈઝ મેળવ્યું હતું. જેમાંથી એપ્લિકેશન બેસ કેટેગરીમાં સરકારી ઈજનેરી કોલેજ-ગાંધીનગર ટીમે ચોથું સ્થાન મેળવી વિજેતા ગાંધીનગર કોલેજના આધ્યાપક ડો. શાહિદ મોડાસીયાએ જણાવ્યું હતું કે સ્પર્ધામાં એપ્લિકેશન બેસ કેટેગરીમાં પ્રેઝન્ટેશન આપવામાં આવ્યું હતું. જેમાં વિદ્યાર્થીઓએ નવીન પ્રકારનો હવામાં ઉડી શકે તથા જમીન પર ચાલી પડ શકે એવો રોબોટ બનાવ્યો હતો.

આ અંગે જી.ઈ.સી.-ગાંધીનગર કોલેજના પ્રિન્સિપાલ ડો. સ્વેતા દવેએ જણાવ્યું હતું કે વિદ્યાર્થીઓ સ્પર્ધામાં ભાગ લઈ શકે તે માટે કોલેજની લેબ, સોફ્ટવેર, વિવિધ ટૂલકીટ આપી હતી. જેથી વિદ્યાર્થીઓએ જાતે ડિઝાઈન કરેલા, મેન્યુફેક્ચર કરેલા અને ઈન હાઉસ બનાવેલા રોબોટના મોડેલથી પ્રેઝન્ટેશન આપ્યું હતું.

EXTRA CURRICULAR ACTIVITY

Celebration of Earth Day

22nd April, 2025 | Tuesday

EC student and faculty member visited **Institute of Seismological Research (ISR)**, Gandhinagar.

Program Highlights :

- Interactive sessions
- pledge on: 'our power, our planet'
- Field visit to 1 MW solar power plant at the PDEU campus
- Tree plantation



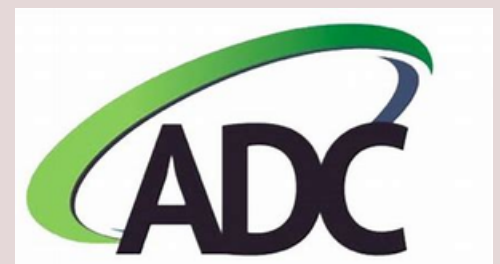
Our Top Recruiters



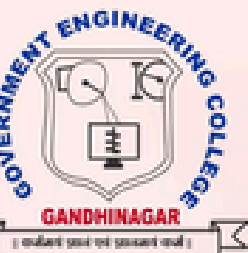
SCHAEFFLER



TATA MOTORS



PLACEMENTS



OUR PROUD ACHIEVERS

FROM CAMPUS TO CAREER – THEIR JOURNEY BEGINS

Electronics & Communication Department

Government Engineering College, Gandhinagar



No.	Student name	Company name	Package
1	Krishn Vasani	Riboon Communication	9.6 LPA
2	Patel Prakashkumar Shantilal	Tatvasoft	4.32 LPA
3	Makani Pranav Yogesh	Satleolabs	4.25 LPA
4	Pritam Ramanuj Ojha	Satleolabs	4.25 LPA
5	Shah Purvangi Shivkumar	iView Labs Pvt Ltd	4 LPA
6	Prajapati Aniket	Einfochips	4 LPA
7	Mishra Jyotipriya Amarnath	Adventus Meditech Pvt Ltd	4 LPA
8	Kundan Panday	Tetrotec	3.75 LPA
9	Khushi Gondaliya	Engibrains Technologies	3.75 LPA
10	Nishad Malvika Devendrakumar	Axis Solution Pvt Ltd	3.5 LPA
11	Aggrawal Hiteshi	Rang Technologies Inc.	3.47 LPA
12	Shah Meet Bharatbhai	Aumraj Design Systems Pvt Ltd	3.36 LPA
13	Patel Dev Kevalkumar	SNI Automation	3.3 LPA
14	Gauswami Himanshugiri Ghanashyamgiri	Axis Solution Pvt Ltd	3.24 LPA
15	Patel Krishna	Axis Solution Pvt Ltd	3.12 LPA
16	Panchal Shrey Janak	Operisoft Tec. Pvt Ltd	3 LPA
17	Vora Dhairya Jeegarkumar	Equest Solutions	3 LPA
18	Karavadara Vivek Parbat	Future Automation Solution	2.6 LPA
19	Dharaiya Hardik Rameshbhai	ACDC Tech	2.5 LPA

**Highest Package
offered:**

9.6 LPA

**Lowest Package
offered:**

2.5 LPA

Recent Trend In ECE

- **Topic: Impact of Artificial Intelligence on Electronics & Communication Engineering**

Prepared by: ChatGPT

Overview

Artificial Intelligence (AI) is redefining the landscape of Electronics & Communication Engineering (ECE), shifting it from traditional rule-based systems to intelligent, adaptive, and autonomous platforms. From circuit design to communication networks, AI is not just a tool-it's becoming the core engine behind next-generation innovation

Key Areas of Impact

1. Smart Design & Automation :

- AI-powered Electronic Design Automation (EDA): Automates IC layout, logic synthesis, and verification using deep learning and reinforcement learning.
- Outcome: Reduced design cycles and smarter chip architectures (e.g., Google's TPU design by DeepMind).

2. AI-Driven Communication Networks :

- Self-Optimizing Networks (SONs): AI helps dynamically manage bandwidth, reduce latency, and perform fault detection in real time.
- Use Cases: 5G/6G networks, cognitive radio, spectrum prediction, and low-power communication.

3. Signal Processing & Intelligent Sensing :

- AI-enhanced DSP: AI filters noise, detects anomalies, and recognizes patterns in radar, sonar, and biomedical signals.
- Applications: Speech enhancement, EEG/ECG analysis, remote sensing.

4. Edge AI & IoT Integration :

- Edge-AI chips (e.g., Google Coral, NVIDIA Jetson): Enable real-time decision-making on low-power devices.
- Impact: Smarter sensors, predictive maintenance, and context-aware systems in homes, vehicles, and factories.

5. AI in Embedded & Control Systems :

- Predictive control & fault tolerance: AI predicts system failures and adapts control strategies.
- Smart Grids & Industry 4.0: AI enables automation, energy optimization, and autonomous robots.

6. Cybersecurity & Privacy :

- AI-based security protocols: Detect cyber threats, secure communication protocols, and enable encrypted learning (e.g., federated learning).
- Quantum-safe systems: AI is also contributing to post-quantum cryptography in communication.

Industry & Research Trends

- 6G + AI convergence: Unified sensing, computation, and communication using edge intelligence.
- TinyML + AI-on-Chip: AI models deployed on microcontrollers.
- AI in VLSI: Smarter and faster chip fabrication using predictive analytics.
- Sustainable Design: AI is aiding in power-aware and recyclable electronic product development.

Conclusion

AI is not an add-on but a transformational force in ECE. It enables systems that are not only faster and more efficient-but also self-learning, secure, and adaptive. For engineers and researchers, AI fluency is rapidly becoming essential to lead in this new era of innovation.



POETRY

ચીપ્સ તો બધા બનાવે છે
પણ અમે સપનાઓનો ચીપ ડિઝાઇન કરીએ
એવો કે જ્યાં દરેક લાઈનમાં
ભવિષ્ય પોતે ગર્જના કરે

ટ્રાંઝિસ્ટર અમારી કલમ છે
PCB છે આપણું કાગળ
અમે લખીએ છીએ કોડથી નહીં
પણ ઇમેજિનેશનથી નવા યુગના સંકલ્પ ને

Communication એ માત્ર સંદેશ નહીં
એ તો હૃદયથી હૃદય સુધીની એક બ્રિજ છે
અને ECE એ એક એવી યાત્રા છે
જ્યાં દરેક વિદ્યાર્થીમાં છુપાયેલું તેજ જુનુન છે

GEC Gandhinagar નો છુ હુ વિદ્યાર્થી
જ્યાં તાલીમ અને સુખી જીવન મળે છે કલ્પનાથી
આગળના વર્ષો ECE ને થશે જરૂર
કારણ આજની લેબમાં ઉગે છે આવતીકાલની દિગ્ગજ ફ્યુચર સુર

~ પ્રિયમ એચ. દવે
240133111002

મારી માતૃસંસ્થા,,

અહીં પાચો શિક્ષણનો છે,
સાથે ભણતર કેરા રક્ષણનો છે,,

અહીં છાંયો ગણતરનો છે,
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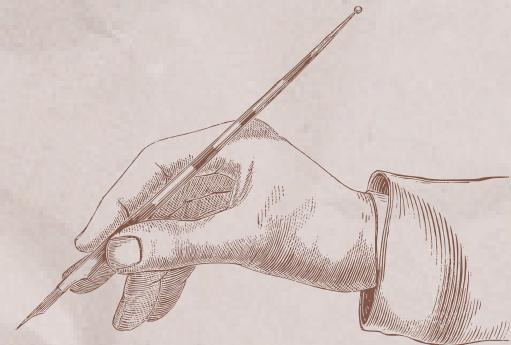
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અહીં સફળતા એક સફર છે,
સાથે શીખવાની કળા ગુરુમંત્ર છે,,

અને અંતે,
અહીં મારોલી હરેક પળ નાશવંત છે,
સાથે અનુભવની પાંખો હજીય જીવંત છે,,

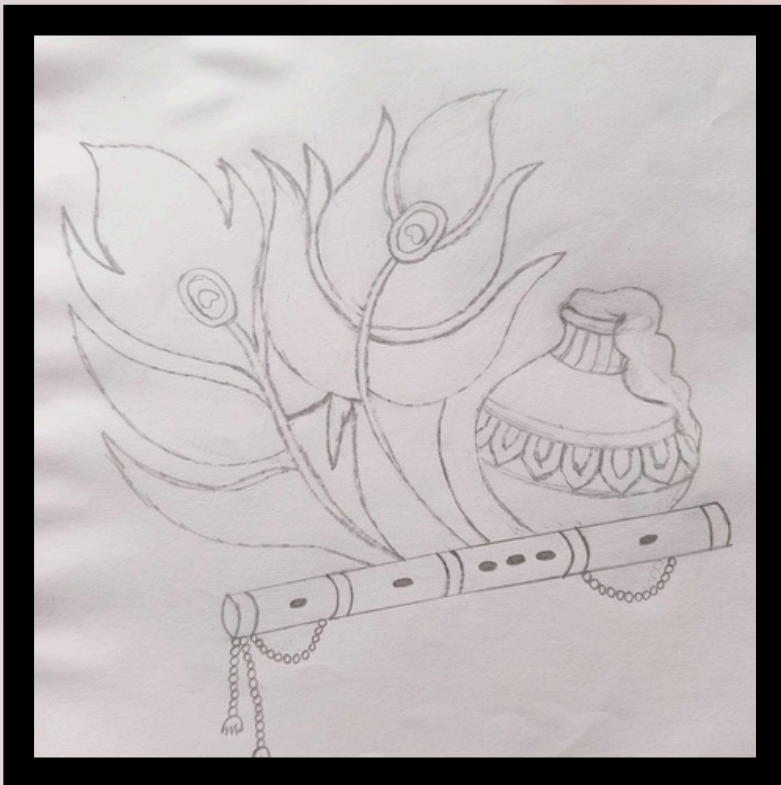
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~ પ્રો. નિલેશ એમ. બેંકર

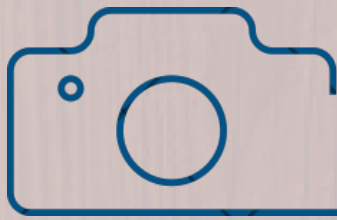


PAINTING

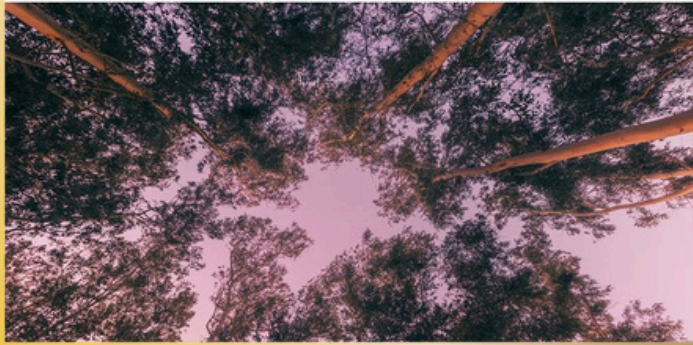
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Nandini Kasundra
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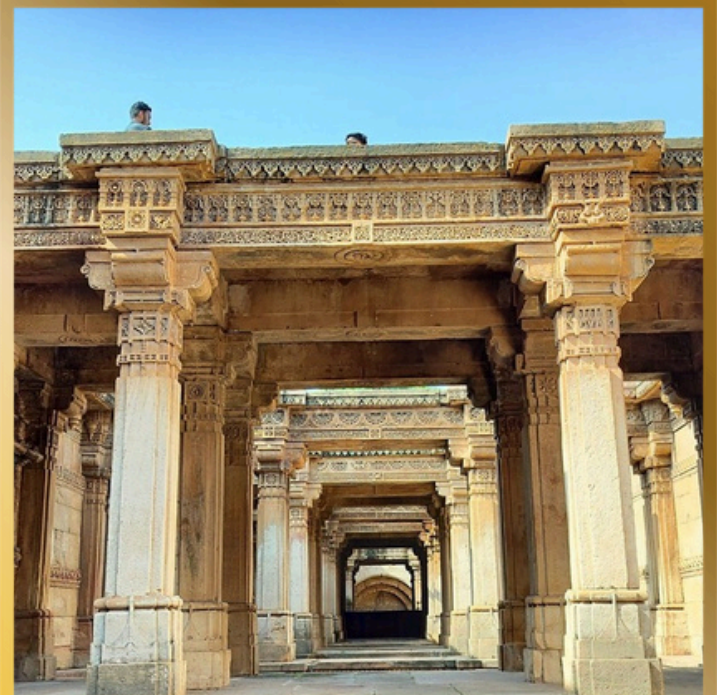
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