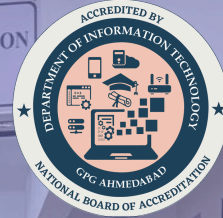# I.T. NEWSLETTER

DEPARTMENT OF INFORMATION TECHNOLOGY

**INFORMATION TECHNOLOGY NBA ACCREDITED GOVERNMENT POLYTECHNIC FOR GIRLS, AHMEDABAD**

## VOLUME 7 , ISSUE 2
## JULY - DEC 2024 EDITION

### CONENTS

### VISION

*To be a center of excellence for girls in I.T. by preparing them to be efficient problem solvers, innovators and entrepreneurs in this era of dynamic IT field as well as to empower women by providing roadmaps that foster professionalism, humanism and social responsibility.*

### MISSION

• *To provide excellent field related technical knowledge and skills.*

• *To foster interpersonal and leadership skills through co-curricular and extracurricular activities and thus develop a thirst for life-long learning among students.*

• *To create a vibrant and an intellectually stimulating Environment for students to empower them for real World problem solving.*

## WE CHANGE THE FUTURE

# Message from the Head of the IT Department

This term has been dynamic and inspiring for the IT Department, marked by celebrations, valuable industry connections, and the arrival of a new cohort. We joyfully welcomed our first-semester students, who are embarking on a fresh curriculum as per NEP-2020 that includes PHP and Chemistry in very first semeter. To help them settle in, we organized an interactive session with our accomplished alumni like Ritika(currently at LD) and Shreya(currently at SAL) to boost their confidence as they begin this journey.

We also celebrated Teacher's Day with a fun role-reversal activity, expertly coordinated by Shlesha Modi and Diya Dixit, bringing faculty and students closer. The Navratri celebration was another highlight, with an outstanding performance by the team mentored by Pooja Madam and Shraddha Kapadiya.

Our department's commitment to experiential learning saw two industrial visits and 10 expert sessions, providing invaluable insights to our students. Alumni Mugdha and Tisha contributed further by conducting a session on DDCET preparation, supporting our students' professional aspirations. Additionally Aditi Gajjar and her team and other young talent from various colleges connected with us to collaborate on start-up projects, cyber security, and AWS cloud training.

The energy and dedication from our students, faculty, and alumni have truly made this term unforgettable, reinforcing our department's reputation as a hub of innovation and collaboration.

PROF. NANDU FATAK

# INDUCTION PROGRAM 2024

The first year orientation program for the IT diploma was a remarkable introduction to the academic and professional journey ahead. Held over 2 weeks, the program aimed to introduce new students to the vibrant campus environment, familiarize them with the curriculum, and provide essential information about the resources and support available to them. Students participated in a series of interactive sessions, including workshops, study skills, and team-building activities, all designed to foster a sense of community and collaboration.
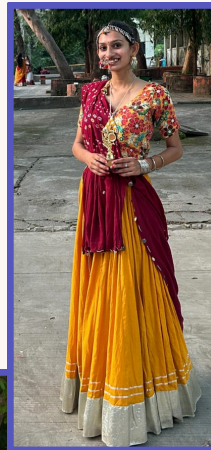
## Gopi Raas





Shraddha Kapadiya won prize for best dress in Gopi Raas -2024.



4

# TEACHER'S DAY CELEBRATION
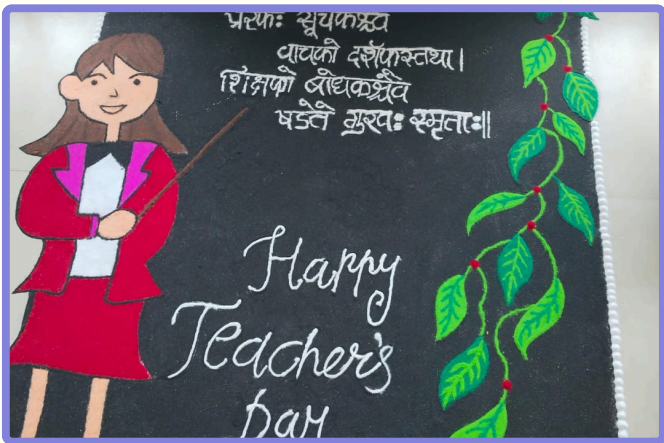
# GTU RESULTS

| SEM-2 | | |
|---|---|---|
| | GAJJAR AAYUSHI NIMESHBHAI | 6th rank in GTU top 10 |
| | KATARIA JALADHI AASHISHKUMAR | 7th rank in GTU top 10 |
| | SHARMA CHESTA SHANTANU | 8th rank in GTU top 10 |
| | GAJJAR AAYUSHI NIMESHBHAI | 4th rank in institute top 10 |
| | KATARIA JALADHI AASHISHKUMAR | 5th rank in institute top 10 |
| | SHARMA CHESTA SHANTANU | 6th rank in institute top 10 |
| | VANSHIKA JESWANI | 7th rank in institute top 10 |
| | KALGUDE KHUSHEE PRAKASH | 9th rank in institute top 10 |
| | HIRPARA DISHABEN SURESHBHAI | 10th rank in institute top 10 |

| SEM-4 | | |
|---|---|---|
| | PUJARA RIYA CHIRAGBHAI | 1st rank in GTU top 10 |
| | THAKKAR NIDHI MAYUR | 2nd rank in GTU top 10 |
| | FATNANI MANA NAYAN | 6th rank in GTU top 10 |
| | PUJARA RIYA CHIRAGBHAI | 1st rank in institute top 10 |
| | THAKKAR NIDHI MAYUR | 2nd rank in institute top 10 |
| | FATNANI MANA NAYAN | 3rd rank in institute top 10 |
| | MODI SHLESHA SHAILESHBHAI | 5th rank in institute top 10 |

| SEM-6 | | |
|---|---|---|
| | VARMA TISHA HITESHBHAI | 2nd rank in institute top 10 |
| | PRAJAPATI PRINCY MANISH | 3rd rank in institute top 10 |
| | RATHOD ASMITA JAGDISHBHAI | 4th rank in institute top 10 |
| | JADON SWETA DINESHSINGH | 5th rank in institute top 10 |
| | PANCHAL ARCHI PRITESHBHAI | 7th rank in institute top 10 |
| | PARMAR HAPPY TEJASBHAI | 8th rank in institute top 10 |

## Student's Achievements

### Student Admitted at Prestigious colleges (2024) (D-to-D)

Diya patel 3rd sem student won Bronze medal in karate.

| 01. | • RATHOD ASMITA JAGDISHBHAI<br>• PATEL JIYA KALPESH<br>• GUPTA GUN ARVINDPRASAD | • BHANGALE MUGDHA PRASHANT<br>• VARMA TISHA HITESHBHAI<br>• PORWAL KASHISH MANOJBHAI | LDCE |
|---|---|---|---|
| 02. | • DOSHI SAKSHI SANJAYKUMAR<br>• ROSHNI VINODKUMAR RAICHANDANI<br>• PAREKKH MANSI DHARMENDRA<br>• PANCHAL PRACHI AMITKUMAR | | VGEC |
| 03. | • VALAND AASTHA HITESHBHAI<br>• PARMAR HAPPY TEJASBHAI<br>• THAKOR NEHA MANUBHAI<br>• PRAJAPATI PRINCY MANISH | | GEC Gandhi-nagar |
| 04. | • PARMAR RUCHA BHARATBHAI<br>• PANCHAL ARCHI PRITESHBHAI<br>• VAGHELA VAIBHAVI MUKESHBHAI<br>• PARMAR ARPITA DHIRAJLAL | | Charusat University |

**Congratulations..** We are thrilled to announce that **Panchal Archi and Patel Janki**, two outstanding students from the 6th semester, have successfully secured placements at TechMahindra. Their hard work, dedication, and passion for excellence have led them to this incredible opportunity.

# IT Department Literature CORNER

## Purpose:

In a diploma engineering college, where technical skills are prioritized, a literature notice board plays a vital role in fostering creativity, emotional intelligence, and well-rounded personal development.

**Here are its key functions:**
1. Promoting Literary Culture
2. Inspiring Creativity and Innovation
3. Encouraging Participation in Literary Activities
4. Promoting Communication and Expression
5. Providing Relaxation and Engagement
6. Developing a Community of Writers and Readers
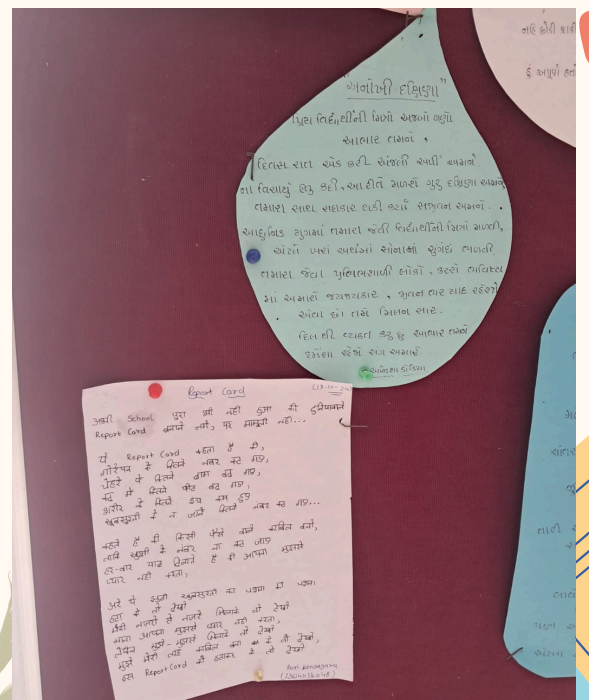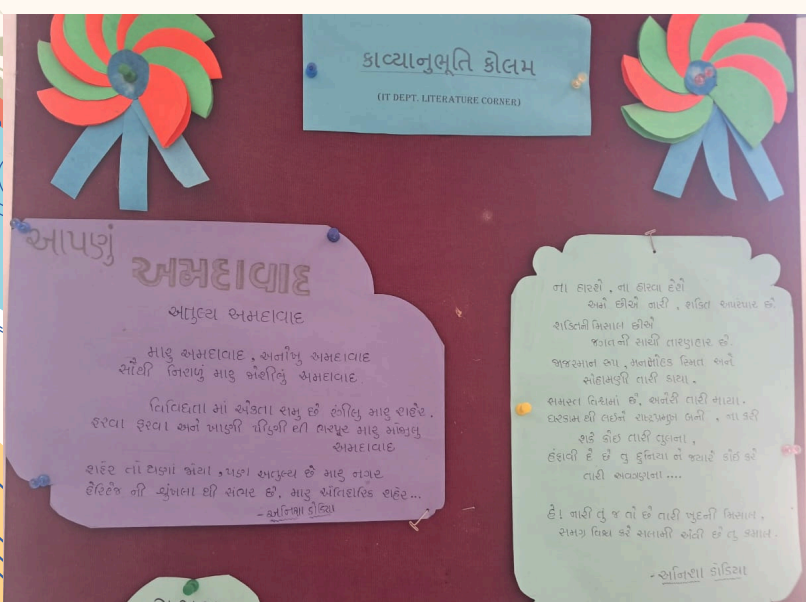
# DEPARTMENTAL ACTIVITIES

| Sr. No. | Date | Event | Topic | Company name | Sem | Speaker Name |
|---------|------|-------|-------|--------------|-----|--------------|
| 1 | 02-09-2024 | Seminar and Hands-on Session | The Essentials of Software Requirement System | Techno IT Hub | 3rd | Ms. Bhumi Sharma |
| 2 | 03-09-2024 | Seminar | Cloud Computing Foundational | AWS | 5th | AWS Cloud Club |
| 3 | 04-09-2024 | Seminar and Hands-on Session | Python Programming | Tops Technology | 1st | Ms Anjali Patel |
| 4 | 03-09-2024 to 04-09-2024 | Workshop | Hands-on Session on Android | BrainyBeam Technologies Pvt. Ltd | 5th | Mr. Sagar Khatri |
| 5 | 18-09-2024 | Expert Lecture | Networking | IANT | 1st | Mr. Ravindra Singh |
| 6 | 26-09-2024 & 27-09-2024 | Industrial Visit | AI,ML,Data Structure,Operating System | IANT | 3rd | IANT Team |
| 7 | 30-09-2024 | Seminar and Hands-on Session | Basic Life Support | Shalby Hospital | 5th & 3rd | Ms. Yagna Purohit |
| 8 | 01-10-2024 | Seminar | Degree Programmes for further studies | Keystone Global Careers | 5th & 3rd | Ms. Marcy Sagar |
| 9 | 03-10-2024 | Seminar | DDCET(Diploma to Degree Common Entrance Test) Awareness | Alumni Students | 5th | Ms Tisha  and Ms. Mugdha |
| 10 | 14-10-2024 | Seminar | Cyber Security Awareness and Training | Cyber Security Researcher | 5th | Mr. Tirth Patel |
| 11 | 15-10-2024 | Seminar | Cyber Security Awareness and Training | National Forensic Sciences University, Gandhinagar | 1st | Ms. Kaanchi Mukati |

# DEPARTMENTAL ACTIVITY

**The Essentials of SRS**

**Hands-on Session on Android**

**Expert lect on Networking**

**Industrial Visit**

**Basic Life Support**

**Degree Programmes**

**DDCET Awareness**

**Cyber Security Training**

**Cyber Security Awareness**

# FACULTY ACIEVEMENTS



- Mrs. Rikita D. Parekh has published a paper "**Title:Medical Visual Question Answering: Current Approaches, Datasets, and Performance Parameters**" in **Indian journal of natural sciences** in month of November 2024.

- Also she has published a paper on **"Title: Comparative Analysis of Denoising Methods to Improve Image Quality for Medical Visual Question Answering"** in **International Journal of Next-Generation Computing** in month of December 2024.

| Sr. No. | Name of Faculty | Title of Training | Duration |
|---|---|---|---|
| 1 | Nandu Fatak | Harnessing AI for administration | 05/10/2024 |
| 2 | Rikita D. parekh | Industrial Training on web development | 08/07/2024 to 27/07/2024(3weeks) |
| 3 | Abhilasha S. Shrivastav | Industrial Training on web development | 15/07/2024 to 04/08/2024(3weeks) |
| 4 | Pooja V. Garach | Industrial Training on web development | 15/07/2024 to 04/08/2024(3weeks) |
| 5 | Snehalkumar I. Patel | Industrial Training on web development | 08/07/2024 to 27/07/2024(3weeks) |
| 6 | Hemali L. Vithlani | Industrial Training on web development | 08/07/2024 to 27/07/2024(3weeks) |
| 7 | Hardika P. Pandya | Industrial Training on Website Management and cyber security | 29/7/2024 to 17/8/2024(3weeks) |
| 8 | Chandni H. Shah | Industrial Training on web development | 18/11/2024 to 07/12/2024(3weeks) |
| 9 | Henish H. Shah | Industrial Training on web development | 08/07/2024 to 27/07/2024(3weeks) |
| 10 | Vimal L. Vachhani | Industrial Training on web development | 08/07/2024 to 27/07/2024(3weeks) |
| 11 | Nimisha K. Rathod | Industrial Training on web development | 18/11/2024 to 07/12/2024(3weeks) |
| 12 | Mitali L . Dave | Industrial Training on web development | 18/11/2024 to 07/12/2024(3weeks) |

# TECHNICAL NEWS

## Why Python remains the king of programming languages?

### Simplicity and Readability

One of the main reasons Python remains so popular is its simplicity. Python's syntax is clean and easy to understand, making it an excellent choice for beginners. Unlike many other programming languages that require complex coding structures, Python allows developers to write less code while still achieving powerful results. This simplicity doesn't just benefit novices; even experienced programmers appreciate Python's readable code, which reduces the chances of errors and makes maintenance easier.

### Versatility Across Industries

Python's versatility is another factor contributing to its widespread use. Whether it's web development, data science, artificial intelligence, machine learning, or automation, Python has proven itself capable of handling a wide range of tasks. For instance, frameworks like Django and Flask make web development more efficient, while libraries like TensorFlow and PyTorch drive innovation in AI and machine learning. Python's adaptability allows it to be a universal language, catering to the diverse needs of the tech industry.

### Strong Community Support

The Python community is one of the most active and supportive in the programming world. With millions of developers contributing to open-source projects, sharing knowledge, and creating libraries, Python constantly evolves to meet the latest demands. This strong community support ensures that Python remains up-to-date with the latest trends and technologies. Developers can easily find resources, tutorials, and forums to help them solve problems and improve their skills, making Python an even more attractive option.

### Integration Capabilities

Another reason Python stands out is its ability to integrate with other languages and technologies. Python can easily work alongside C, C++, Java, and more, making it a flexible choice for projects that require multiple languages. This integration capability allows Python to be used in a wide range of applications, from web services to embedded systems.
Wide Range of Libraries and Frameworks
Python's extensive library support is another major advantage. With libraries for nearly every task, Python saves developers time and effort.

## Poem by Mitali L. Dave (lecturer I.T)

## Memories

### Friends:

When you were born, you weren't aware about existence of these exceptionally varying lot of humans, yet somehow while growing up they become the closest thing to your heart for life. They're blessed with this superpower: they can somehow read your thoughts even by a mere text or the movement of your eyes or a simple gesture of holding their hand and they surprisingly know how to bring you back in the present. When all you can see are unlimited storms in the life, friends remind you that even after the darkest and most fearful nights, there'll be light and you'll be alright. Whether side by side or miles apart, In your toughest times, they become your backbone to keep you going or a shoulder to cry on if you can't keep it going. They gleefully celebrate your smallest achievements in life as if their own, showing unwavering faith in you which surprisingly give you the strength to face everything heads on. Their presence in life is priceless 🧡 no matter how annoying, irritating or stupid they're, there's no life without them worth living.
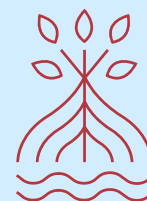
### EDITORIAL COMMITTEE

1. Prof. N. A. FATAK
2. Ms. P. V. GARACH