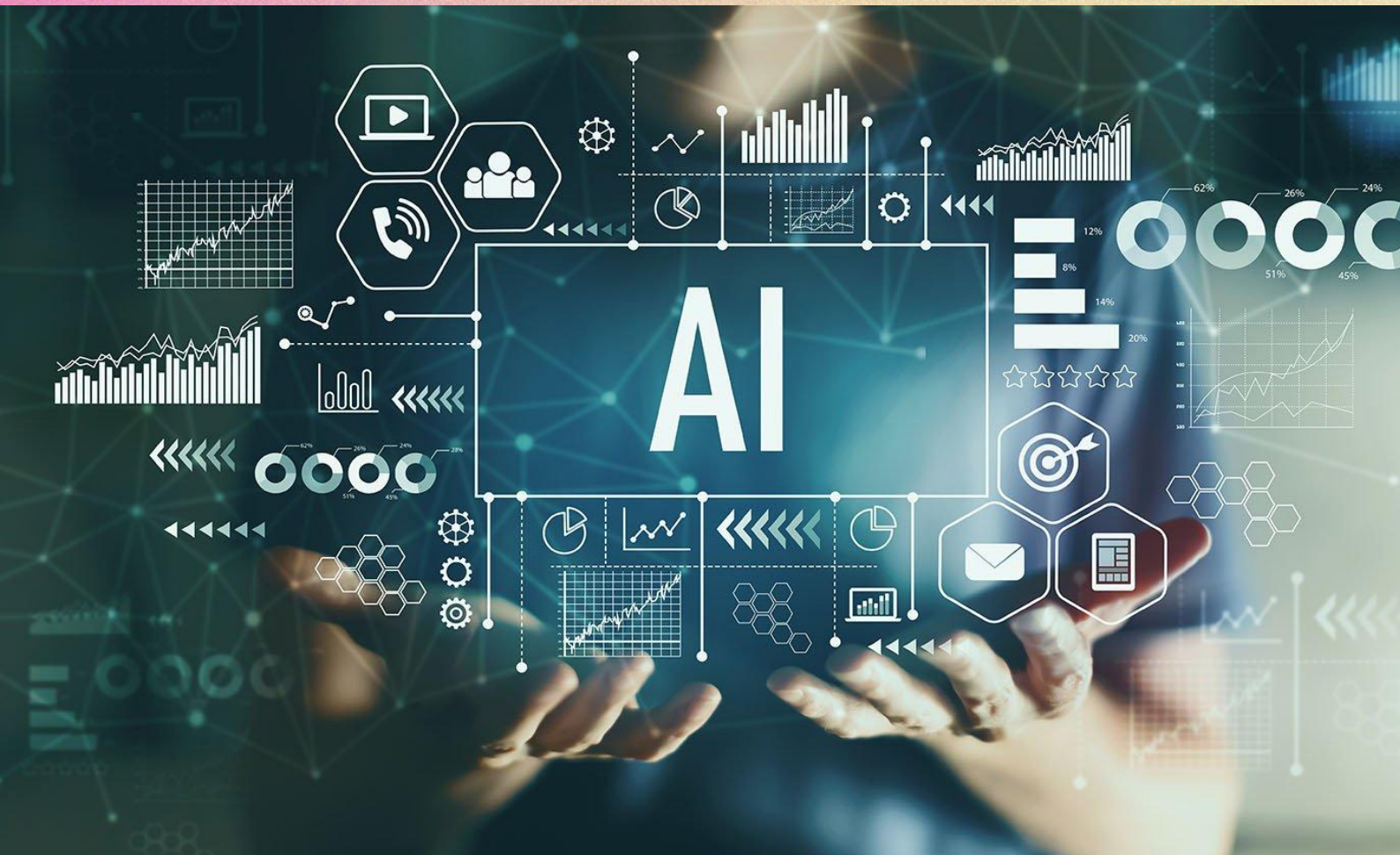
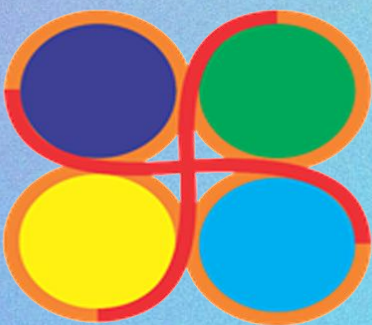




# Empowering Educators with AI: Tools and Techniques

6<sup>th</sup> to 10<sup>th</sup> January, 2025





# COMPREHENSIVE REPORT ON FACULTY DEVELOPMENT PROGRAM (FDP)

## "Empowering Educators with AI: Tools and Techniques"

**ORGANIZED BY:** ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT, GOVERNMENT POLYTECHNIC, AHMEDABAD

**VENUE:** Seminar Hall, 3rd Floor, New Civil Engineering Building, Government Polytechnic, Ahmedabad

**DURATION:** One week

**DATES:** 6th to 10th January, 2025

**TIME:** 10:00 AM - 5:30 PM

### 1. INTRODUCTION

The Faculty Development Program (FDP) on "Empowering Educators with AI: Tools and Techniques" was successfully conducted to equip educators with AI tools to improve teaching, learning, and administration. The FDP aimed at enhancing educators' capabilities in AI-driven methodologies for better student engagement and academic efficiency.

### 2. OBJECTIVES OF THE FDP

- To provide educators with foundational knowledge of AI concepts, including Generative AI and Prompt Engineering.
- To integrate AI tools such as intelligent tutoring systems, automated grading, and adaptive learning platforms.
- To streamline tasks like student assessment, feedback generation, and AI-based content creation.
- To explore ethical considerations for responsible AI implementation in education.

### 3. SCHEDULE OVERVIEW

Each day comprised four interactive sessions, including expert lectures and hands-on training. The schedule was as follows:

#### DAY 1: INTRODUCTION TO AI AND ITS IMPACT ON EDUCATION

- Fundamentals of AI and its role in education - Dr. C. B. Bhatt
- AI for Teaching and Learning - Mr. Sagar Khatri
- Hands-on session on AI in education - Mr. Sagar Khatri

#### DAY 2: AI TOOLS AND APPLICATIONS IN EDUCATION

- Features and functionality of AI tools - Dr. Ankit Shah
- Student performance analysis and assessment - Mr. Mosam Pandya
- Engaging students through AI tools - Mr. Raj Kapadia
- Hands-on practice - Mr. Raj Kapadia

#### DAY 3: AI IN RESEARCH AND ETHICAL AI

- AI in research methodologies - Dr. Hardik Joshi
- Responsible AI and ethical considerations - Dr. Hitesh B. Shah
- AI for video creation, summarization, and presentations - Dr. Rohit Thanki
- Hands-on practice - Dr. Rohit Thanki

#### DAY 4: GENERATIVE AI AND CONTEMPORARY CLASSROOM TEACHING

- Generative AI and Large Language Models - Dr. Chirag Thakar
- AI for personalized learning - Dr. Ketan Badgujar
- AI for modern classroom teaching - Dr. Parvez Faruki
- Hands-on practice - Dr. Parvez Faruki



#### **DAY 5: AI FOR INNOVATION AND FUTURE TRENDS**

- AI for innovation in education - Dr. Hiteishi Diwanji
- Prompt Engineering - Dr. Chirag Thakar
- AI-powered personalized learning - Mr. Parth Modi
- Evolution test and valedictory session

#### **4. KEY HIGHLIGHTS**

- Participation from faculty across multiple institutions.
- Hands-on training with AI-based tools for education.
- Expert lectures from AI professionals and academicians.
- Interactive discussions on AI ethics and best practices.
- Certification awarded to participants upon completion.

#### **5. FEEDBACK AND IMPACT ANALYSIS**

A feedback survey was conducted to assess the program's effectiveness:

- **96%** of participants found the FDP highly relevant and informative.
- **92%** appreciated the hands-on approach and practical AI applications.
- **93%** felt confident in integrating AI into their teaching methodologies.
- Participants praised the structured learning and expert-led sessions.

#### **6. CONCLUSION AND FUTURE SCOPE**

The FDP on AI successfully empowered educators with knowledge and practical skills in AI tools and their applications in education. Future workshops and advanced AI training sessions are recommended to deepen faculty engagement with AI technologies. The institution aims to integrate AI-driven solutions into teaching and research for enhanced educational outcomes.

#### **7. ACKNOWLEDGMENTS**

We extend our gratitude to the Head of the Department, Electronics and Communication Engineering, Principal, Government Polytechnic, Ahmedabad, ISTE, Delhi, Training and Placement Cell, CTE, Gandhinagar, the organizing committee, expert speakers, and enthusiastic participants for making this FDP a success.



## SAMPLE PHOTOS











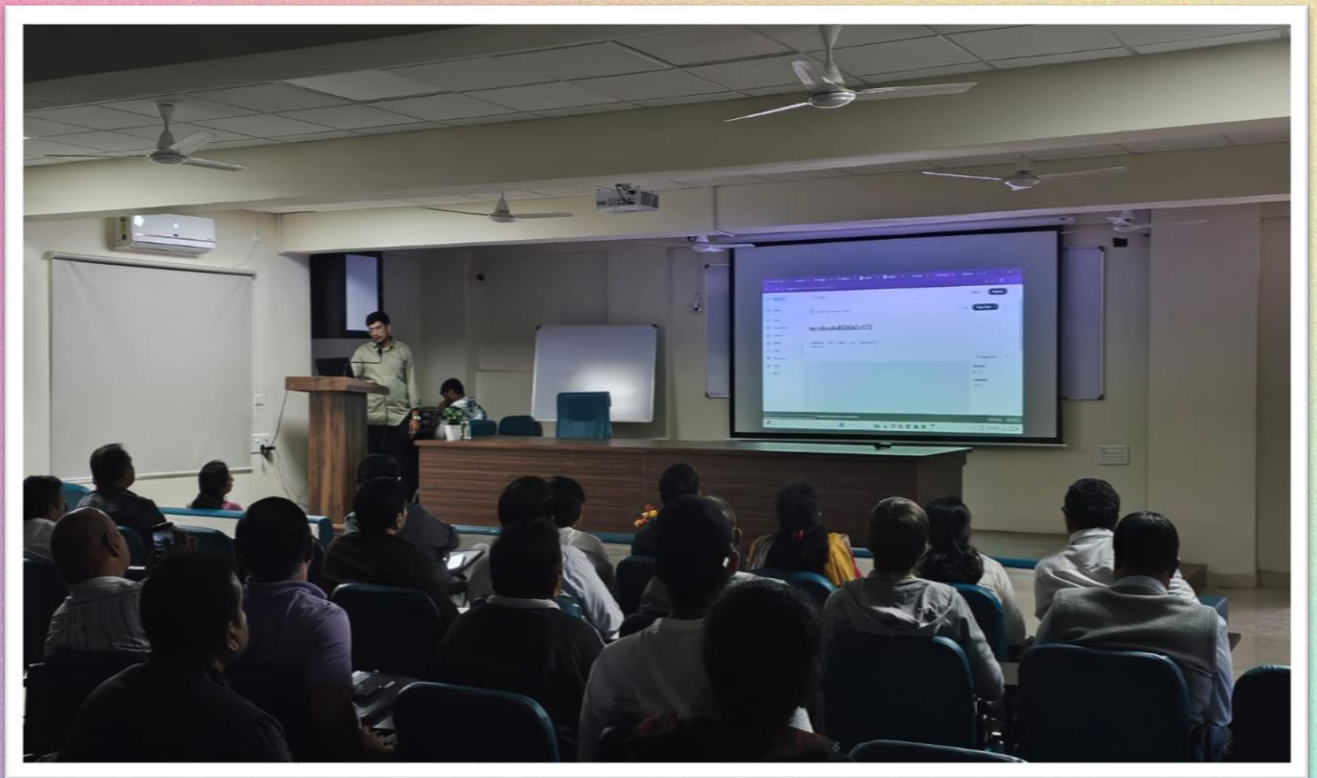




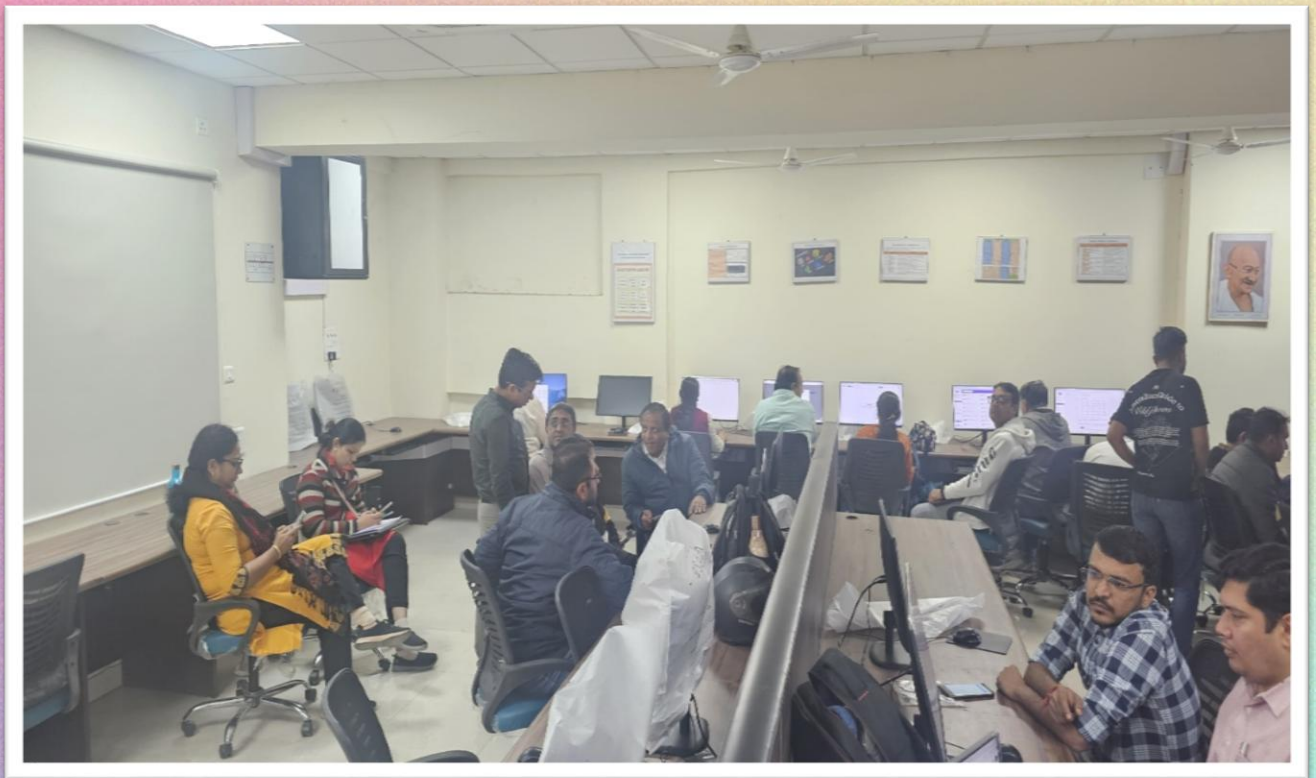






























## PATRONS



**PROF. BHASKAR J. IYER**  
PRINCIPAL  
GOVERNMENT POLYTECHNIC, AHMEDABAD



**PROF. MANISH N. CHAREL**  
HEAD OF THE DEPARTMENT  
ELECTRONICS AND COMMUNICATION  
GOVERNMENT POLYTECHNIC, AHMEDABAD

## CO-ORDINATORS



**DR. HITESH D. PANCHAL**  
FDP CO-ORDINATOR  
LECTURER IN EC  
GOVERNMENT POLYTECHNIC, AHMEDABAD  
EMAIL: [hdpanchal@gpahmedabad.ac.in](mailto:hdpanchal@gpahmedabad.ac.in)



**MRS. MEERA D. DOSHI**  
FDP CO-ORDINATOR  
LECTURER IN EC  
GOVERNMENT POLYTECHNIC, AHMEDABAD  
EMAIL: [mddoshi@gpahmedabad.ac.in](mailto:mddoshi@gpahmedabad.ac.in)

## CO-COORDINATORS



**MR. CHANDRESH K. PARMAR**  
FDP CO-COORDINATOR  
LECTURER IN EC  
GOVERNMENT POLYTECHNIC, AHMEDABAD  
EMAIL: [ckparmar@gpahmedabad.ac.in](mailto:ckparmar@gpahmedabad.ac.in)



**MR. KAMLESH D. THUMMAR**  
FDP CO-COORDINATOR  
LECTURER IN EC  
GOVERNMENT POLYTECHNIC, AHMEDABAD  
EMAIL: [kdthummar@gpahmedabad.ac.in](mailto:kdthummar@gpahmedabad.ac.in)



**MR. NIKUNJ H. PATEL**  
FDP CO-COORDINATOR  
LECTURER IN EC  
GOVERNMENT POLYTECHNIC, AHMEDABAD  
EMAIL: [nhpatel@gpahmedabad.ac.in](mailto:nhpatel@gpahmedabad.ac.in)