MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING
Shirpur Campus

Faculty Development Programme Report

Empowering Educators with Generative AI: Transforming Teaching, Learning and Research

December 16–20, 2024

SVKM's NMIMS, MPSTME, Shirpur Campus

1. Introduction

SVKM's NMIMS, MPSTME, Shirpur Campus hosted a transformative Train-the-Trainer Faculty Development Programme (FDP) titled *"Empowering Educators with Generative AI: Transforming Teaching, Learning and Research"* from December 16–20, 2024. More than 50 educators from various NMIMS campuses participated in this initiative, bringing together faculty from multiple disciplines and locations.

The programme examined the expanding role of Generative AI in higher education. Sessions covered the evolution of GenAI, prompt engineering, ethical considerations and the NMIMS Generative AI Guidelines and Policy. Participants also worked with 36 Generative AI tools in hands-on workshops, including activities on building custom chatbots and other applied use cases. Industry speakers discussed real-world applications of GenAI and the ethical dimensions of its deployment.

In his valedictory address, **Dr. Ramesh Bhat, Hon. Vice Chancellor, NMIMS**, highlighted the importance of integrating Generative AI into academic practice with thoughtful consideration and accountability.

The FDP encouraged collaboration and innovation across campuses and domains. It was coordinated by **Dr. Praveen Kumar Loharkar**, who also is the coordinator for the **Faculty Development and Workshops pillar of the NMIMS Generative AI Initiative**.

2. Objectives of the FDP

- To introduce NMIMS university faculty members (nominated trainers) to generative AI, related tools and their applications in education.
- To enhance the teaching-learning process through AI-driven methodologies.

- To explore the use of AI in academic research.
- To discuss NMIMS GenAI Guidelines and Policy, ethical considerations and best practices in using AI tools.
- To build a community of practice among participating faculty members to share knowledge, experiences, and best practices.

3. Resource Persons (Schedule-Based)

- Dr. Vaishali Kulkarni, Associate Dean, MPSTME, Mumbai
- Dr. Radhika Chapaneri, Assistant Professor, MPSTME, Mumbai
- Dr. Ami Munshi, Assistant Professor, MPSTME, Mumbai
- Dr. Anshuman Jaswal, Director, NMIMS, Indore
- Dr. Praveen Kumar Loharkar, Assistant Professor, MPSTME, Shirpur Campus
- Dr. Swapnil Shenvi, Assistant Professor, KPMSoL, Mumbai
- Dr. Vikas Khare, Associate Dean, STME, Indore
- Prof. Rajesh Verma, Assistant Professor, MPSTME, Shirpur Campus
- Mr. Anil Omanwar, AI Expert and Advisory Consultant, Master Investor at IBM Experts Lab, Australia
- Mr. Rishabh Chopra, Digital Innovation Lead, Shell, Amsterdam, Netherlands
- Dr. Divya Gautam, Assistant Professor, STME, Indore
- Mr. Kratik Khiani, CEO & Founder, ASK Innovations, Indore

4. Detailed Session Report

Day I – Monday, December 16, 2024

> **10:00 AM – 11:30 AM**
>
> **Inauguration and Introduction to Generative AI**
>
> *Resource Person:* Dr. Vaishali Kulkarni
>
> **11:45 AM – 01:15 PM**
>
> **Journey of AI to GenAI (RNN, Transformer, GAN, LLM)**
>
> *Resource Persons:* Dr. Vaishali Kulkarni, Dr. Radhika Chapaneri, Dr. Ami Munshi
>
> **02:00 PM – 03:15 PM**
>
> **Prompt Engineering**
>
> *Resource Persons:* Dr. Vaishali Kulkarni, Dr. Radhika Chapaneri, Dr. Ami Munshi

03:30 PM – 05:00 PM

Case Studies on AI in Education

Resource Persons: Dr. Vaishali Kulkarni, Dr. Radhika Chapaneri, Dr. Ami Munshi

Day II – Tuesday, December 17, 2024

10:00 AM – 11:30 AM

GenAI Tools for Educators and Researchers

Resource Persons: Dr. Radhika Chapaneri, Dr. Ami Munshi

11:45 AM – 01:15 PM

Ethical Considerations and Challenges: NMIMS Generative AI Guidelines and Policy

Resource Person: Dr. Anshuman Jaswal

02:00 PM – 03:15 PM

Hands-On: Developing a Chatbot and PDF Reader

Resource Persons: Dr. Vaishali Kulkarni, Dr. Radhika Chapaneri, Dr. Ami Munshi

03:30 PM – 05:00 PM

Hands-On: Developing a Chatbot and PDF Reader

Resource Persons: Dr. Vaishali Kulkarni, Dr. Radhika Chapaneri, Dr. Ami Munshi

Day III – Wednesday, December 18, 2024

10:00 AM – 11:30 AM

Effective Use of Viva Engage and Preparing Content for the NMIMS EduGenAI Newsletter (Use-Cases)

Resource Persons: Dr. Praveen Kumar Loharkar, Dr. Swapnil Shenvi

11:45 AM – 01:15 PM

Use-Cases of Generative AI: Teaching Plans, Rubrics, Content Generation

Resource Person: Dr. Vikas Khare

02:00 PM – 03:15 PM

Understanding Hallucination / Drafting Effective Questions and Relevant Tools

Resource Persons: Prof. Rajesh Verma, Dr. Praveen Kumar Loharkar

03:30 PM – 05:00 PM

Introduction to Magic School AI and Its Capabilities

Resource Person: Dr. Praveen Kumar Loharkar

Day IV – Thursday, December 19, 2024

10:00 AM – 11:30 AM

Exploring GenAI Applications in Various Industries

Resource Person: Mr. Anil Omanwar

11:45 AM – 01:15 PM

How Shell Is Leveraging GenAI in Its Operations

Resource Person: Mr. Rishabh Chopra

02:00 PM – 03:15 PM

Leveraging Generative AI for Pedagogical Innovations

Resource Persons: Dr. Divya Gautam, Dr. Nitin Choubey

03:30 PM – 05:00 PM

Discussion on Incorporation of Generative AI in Teaching Plans and Course Policy

Resource Persons: All Participants

Day V – Friday, December 20, 2024

    10:00 AM – 11:30 AM

    Building a Custom Chatbot

    Resource Person: Mr. Kratik Khiani

    11:45 AM – 01:15 PM

    Discussion of Plan to Conduct FDPs at Various Schools/Campuses

    Resource Persons: All Participants
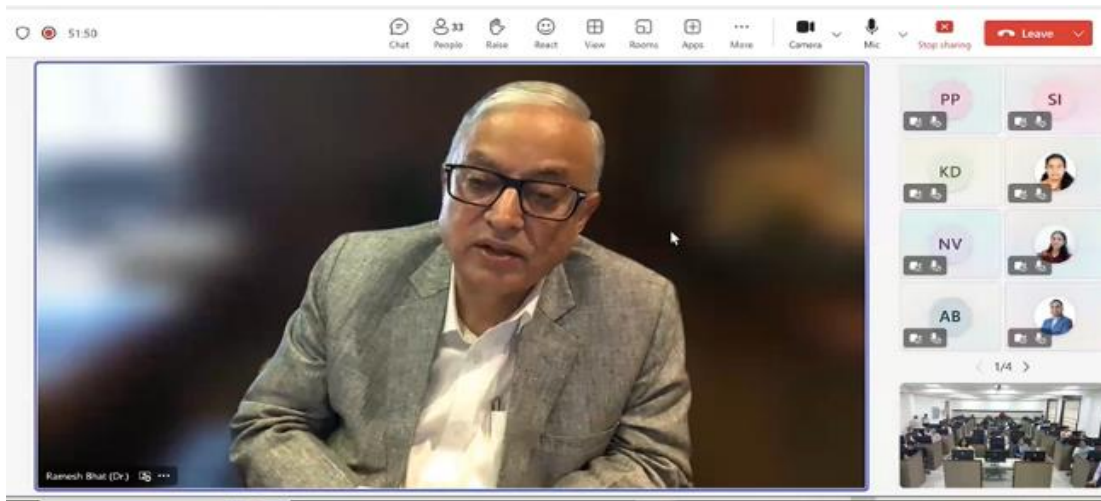
    02:00 PM – 03:15 PM

    Visit to Aviation School / Use-Cases of Generative AI

    Resource Persons: All Participants

    03:30 PM – 05:00 PM

    Use-Cases of Generative AI – Valedictory Function

    Chief Guest: **Dr. Ramesh Bhat, Hon. Vice Chancellor, NMIMS, Mumbai**

Valedictory Function
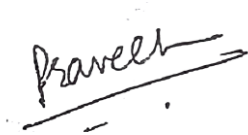

Group Photograph

5. Key Outcomes

- Participants explored 36 Generative AI tools through demonstrations and hands-on tasks.

- Faculty gained practical experience with prompt engineering, chatbot development and AI-assisted content generation.

- Industry-focused sessions helped contextualize GenAI applications beyond academia.

- Ethical considerations and **NMIMS GenAI Policy** were discussed in depth.
- The FDP strengthened collaboration among campuses and supported planning for future AI-related training.

6. Conclusion

The FDP provided faculty members with the knowledge and confidence to meaningfully integrate Generative AI into their teaching, learning and research activities. Participants gained exposure to diverse tools, real-world use cases and institutional guidelines.

With the support and guidance of **Dr. Sunita Patil, Director NMIMS, Shirpur Campus and Dr. Venkatadri Marriboyina, Associate Dean, MPSTME, Shirpur Campus, this program** succeeded in building capacity for sustained GenAI adoption across NMIMS campuses and laid the foundation for ongoing collaborative initiatives.

Dr. Praveen Kumar Loharkar,
Assistant Professor, MPSTME, Shirpur Campus and
Generative AI FDP Team Coordinator-NMIMS