



**NITTTR
BHOPAL**

MH-10/2026-2027

**Cutting Edge AI and data analytics: A Industry focused
skill build approach**

15-06-2026 to 19-06-2026

COEP Technological University, Pune



<https://erp.nitttrbpl.ac.in/poc2026/?id=regMH-10>



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Rationale

In today's rapidly evolving technological landscape, Artificial Intelligence and Data Analytics are playing a pivotal role in shaping industries and decision-making processes. The growing reliance on data-driven solutions has created a demand for skilled professionals equipped with modern analytical and computational competencies.

- Rapid advancements in Artificial Intelligence and Data Analytics are transforming modern industries.
- Importance of developing analytical thinking and data-driven decision-making skills.
- Emphasis on hands-on learning and exposure to cutting-edge tools and technologies.
- Enhancing employability and innovation capabilities in emerging technological domains.

This innovative program focuses on re-skilling and up-skilling through hands-on exposure and practical insights into emerging technologies such as AI & ML, data analytics, thereby bridging the gap between academic delivery and industry requirements.

Programme Outcomes

- 1.Explain foundational and advanced concepts of AI and demonstrate practical applications.
- 2.Apply Generative AI principles by experimenting
- 3.Analyze Agentic AI concepts, tools, and development approaches.
- 4.Incorporate emerging AI and data analytics into academic curricula to enhance teaching methodologies and align with industry requirements.

Programme Content

NEP: 2020, Fundamentals of Big data analytics, NLP, Gen-AI & Agentic AI, Characterization of Non-Linear Models, Predictive modelling with neural network, Digital Twins: Revolution in medical diagnosis, Generative AI: How it is different, Generative AI: Diffusion models, Applications of Generative AI in Healthcare, Agentic AI: How it works, NLP Fundamentals, Sequential Models in NLP, Transformers & Attention Mechanisms, Physical AI: State of art, Transformer Architecture & Variants, Pretrained Models (LLMs).

Target Group

Faculty of Computer, Electronics and allied Engineering disciplines

Coordinator & Co-Faculty

Prof. Coordinator(EC)-PUNE
Professor

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Expert



e Prashikshan
An Online Training Portal of NITTTR Bhopal
www.eprashikshan.com

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