



**NITTR  
BHOPAL**

**MH-5/2026-2027**

**AI in Cybersecurity and Digital Forensics**

**01-06-2026 to 05-06-2026**

**COEP Technological University, Pune**



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## Rationale

With the rapid digital transformation across industries, the frequency, scale, and sophistication of cyber threats have increased significantly. Traditional cybersecurity and digital forensic techniques are no longer sufficient to effectively detect, prevent, and investigate modern cyber-attacks. This has created a strong demand for advanced, intelligent solutions powered by Artificial Intelligence (AI).

AI has emerged as a transformative technology that enhances cybersecurity by enabling real-time threat detection, predictive analytics, anomaly detection, and automated incident response. In digital forensics, AI supports efficient evidence analysis, pattern recognition, and faster investigation processes, thereby reducing manual effort and improving accuracy.

Despite its importance, there is a noticeable gap in practical knowledge and skill development among students, researchers, and professionals in applying AI techniques to cybersecurity and forensic domains. This proposed one-week

## Programme Outcomes

- i. Explain the role and importance of AI in modern cybersecurity and digital forensics.
- ii. Apply AI techniques for detecting and analyzing cyber threats and anomalies.
- iii. Use basic tools for AI-based security analysis and digital forensic investigation.
- iv. Analyze digital evidence efficiently using intelligent methods.
- v. Identify and respond to cybersecurity incidents using automated approaches.
- vi. Gain confidence to pursue research or careers in AI-driven cybersecurity domains.

## Programme Content

- 1: Fundamentals- Basic concepts of cybersecurity and digital forensics, including common cyber threats, attack vectors, and the investigation process. It also introduces the fundamentals of AI & ML.
- 2: AI Applications - AI-based techniques for threat detection, intrusion detection, malware analysis, and anomaly detection.
- 3: Hands-on & Emerging Trends -Practical exposure to AI tools and techniques used in cybersecurity and digital forensics through hands-on sessions and case studies.

## Target Group

Faculty of Computer Engineering and allied discipline,  
Programmers and System Analysts

## Coordinator & Co-Faculty

Prof. Coordinator(EC)-PUNE  
Professor

[extnpune@nittrbpl.ac.in](mailto:extnpune@nittrbpl.ac.in)

Expert



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