

Executive Programme in Cyber Security for Organizations [EPCSO]

Programme by IIM Indore



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3.5M Cyber Security job
opening globally by 2025

65% increase in global Cyber Security
workforce required to effectively defend
organizations critical assets

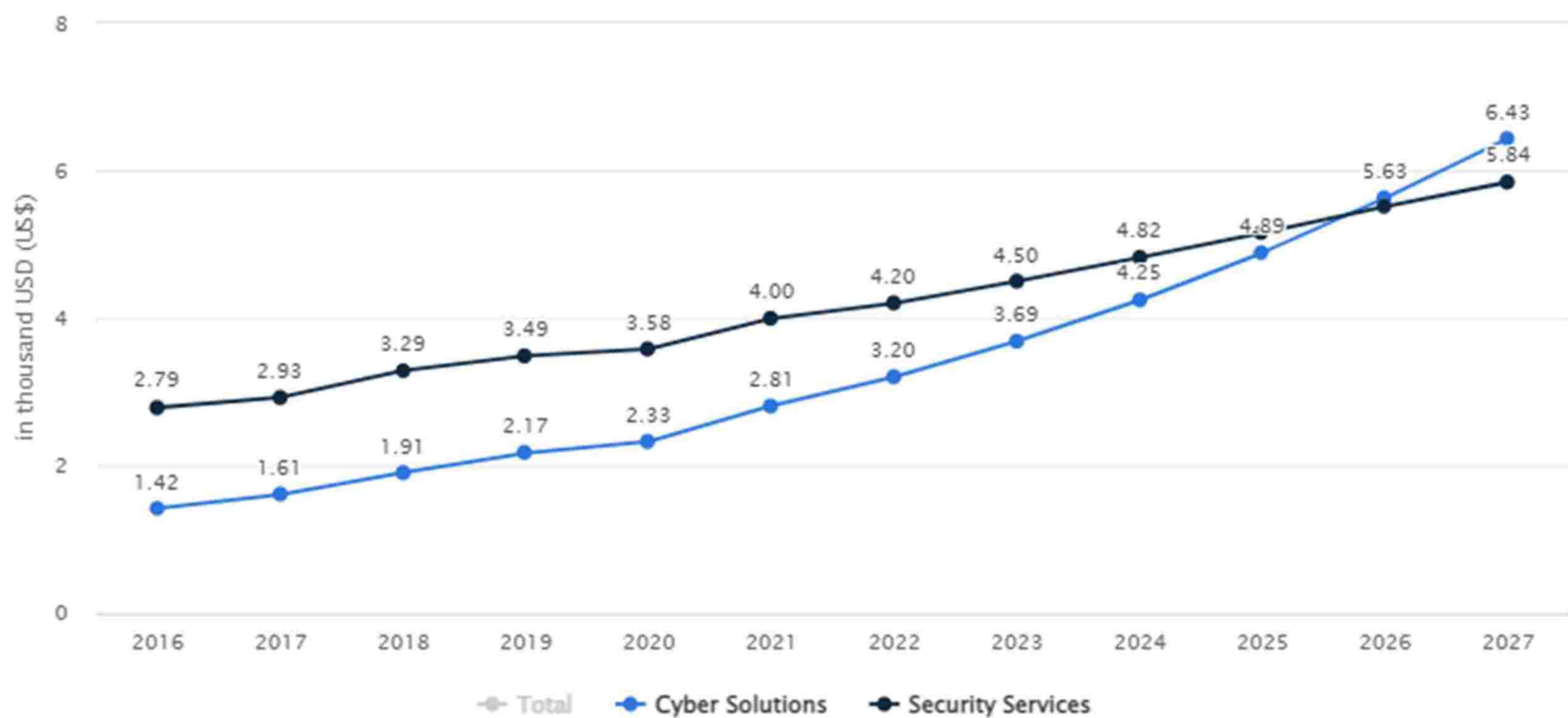
87% of surveyed leaders
report security skills or staffing
challenges

*Cisco Security

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Worldwide Perspective

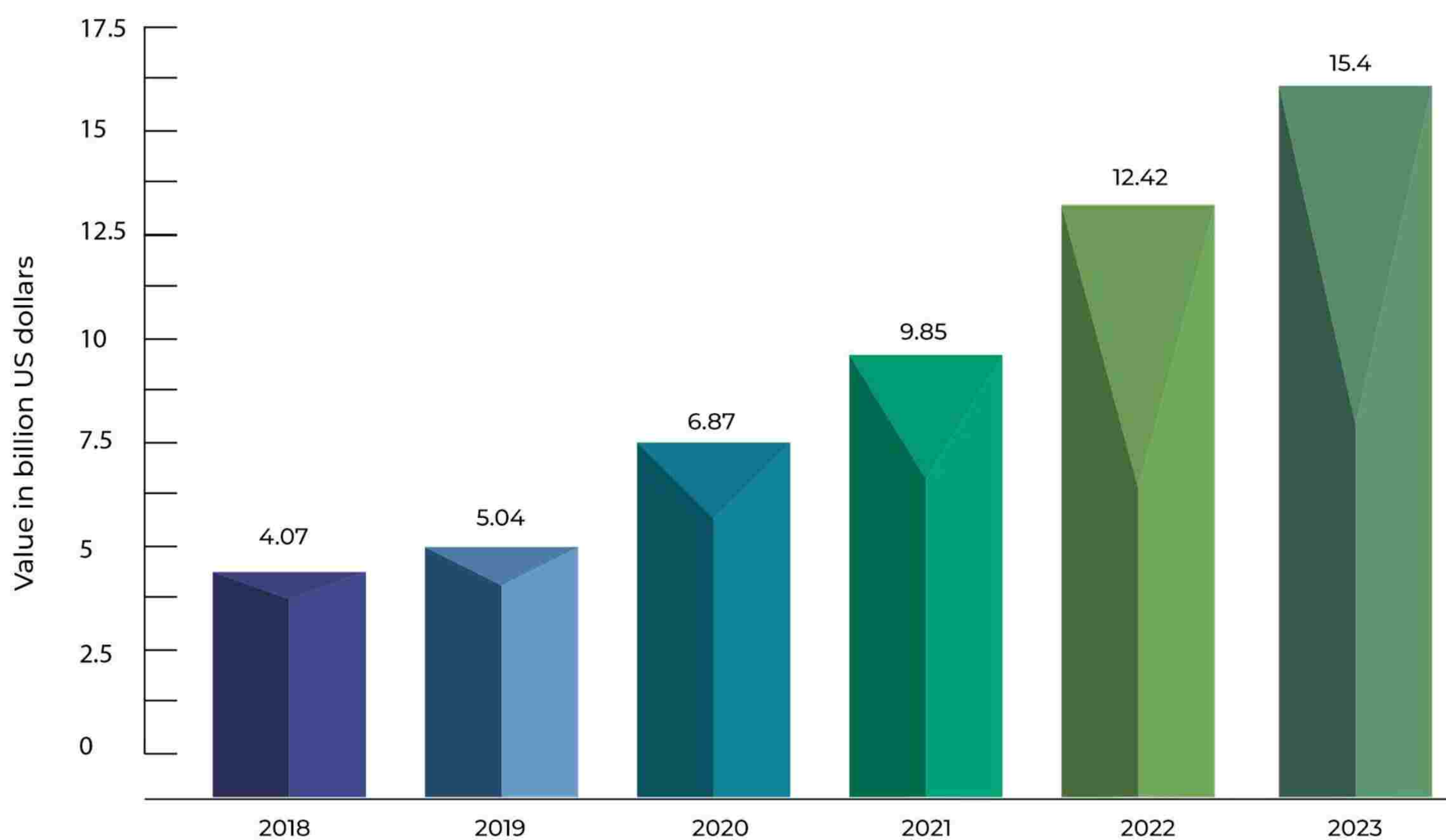
AVERAGE SPEND PER EMPLOYEE BY SEGMENT



FORECAST SIZE OF THE INFORMATION SECURITY MARKET IN 174.7 bn USD

INFORMATION SECURITY PRODUCTS AND SERVICES REVENUE 2022 172.5 bn USD

SECURITY AS A SERVICE (SECAAS) MARKET SIZE WORLDWIDE 10.21 bn USD



*Statista

Overview

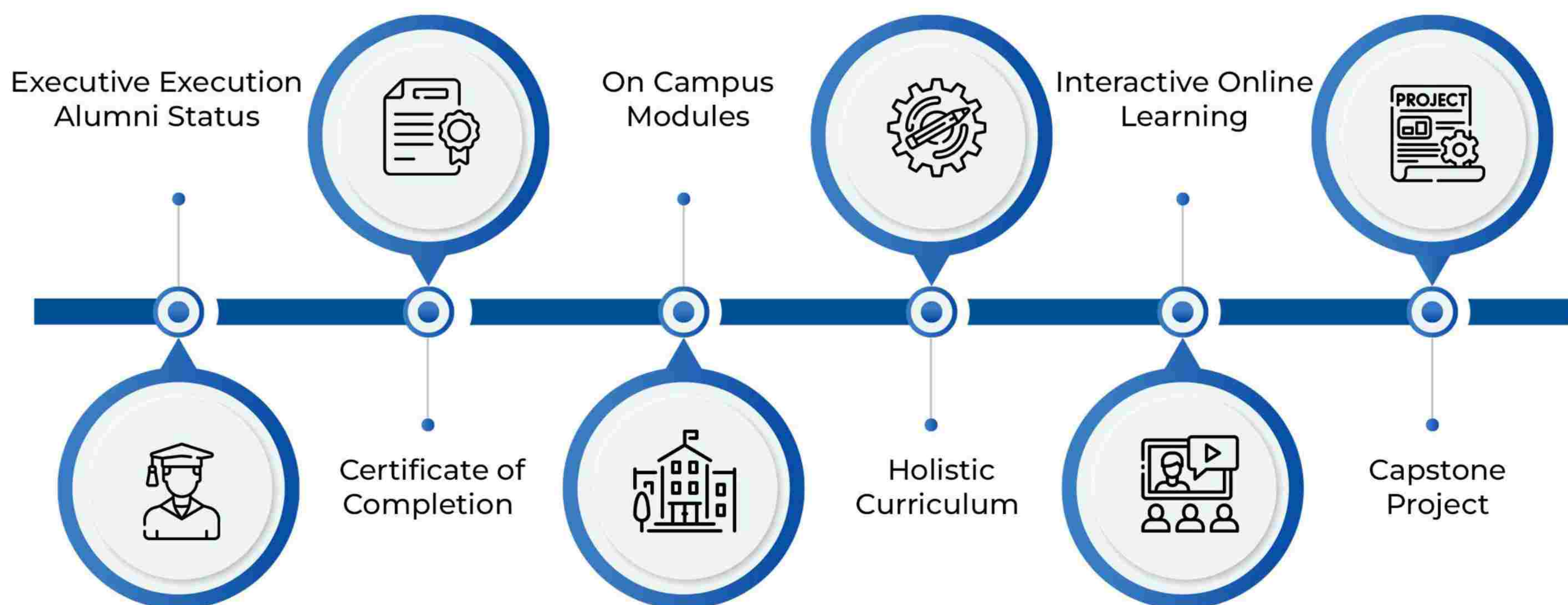
In today's digital age, cyber threats and crimes are increasing at a rapid pace. To tackle the pressing threats and challenges effectively, pursue an Executive Programme in Cyber Security for Organizations specifically designed for non-technical professionals, engineers, IT project managers, and early-career IT professionals who want to comprehensively understand the cyber security landscape. It is a multi-disciplinary programme that targets managers and other professionals who want to advance their careers in this field. The programme covers a range of topics, including designing security policy and postures, network security, threat intelligence, risk management, incident response, and more.

Throughout the programme, you will learn from experienced instructors and industry experts who will guide you through established principles and practices which are deployed in real-world scenarios. This programme is designed to provide participants with a holistic understanding of cyber security, including the latest technologies, industry best practices, and actionable insights to address emerging threats. You will also have the opportunity to network with other professionals in the industry, allowing you to build valuable connections and gain insights from their experiences.

The curriculum is structured to cover the following key areas:

- ◆ **Introduction to Cyber Security:** Participants will be introduced to the basics of cyber security and the various types of threats that organizations face today.
- ◆ **Risk Management:** Participants will learn about different risk management methodologies and how to apply them to identify and mitigate cyber threats.
- ◆ **Cyber Security Technologies:** Participants will gain a deep understanding of the technologies used to secure networks and systems, including firewalls, intrusion detection systems, and encryption.
- ◆ **Incident Response and Forensics:** Participants will learn how to respond to and investigate cyber incidents, including collecting and analyzing digital evidence.
- ◆ **Compliance and Regulations:** Participants will be introduced to the various laws and regulations that govern cyber security and how to comply with them.
- ◆ **Communication and Leadership:** Participants will learn how to communicate effectively with stakeholders, including senior management and other key decision-makers, and how to lead a cyber security team.

Programme Highlights

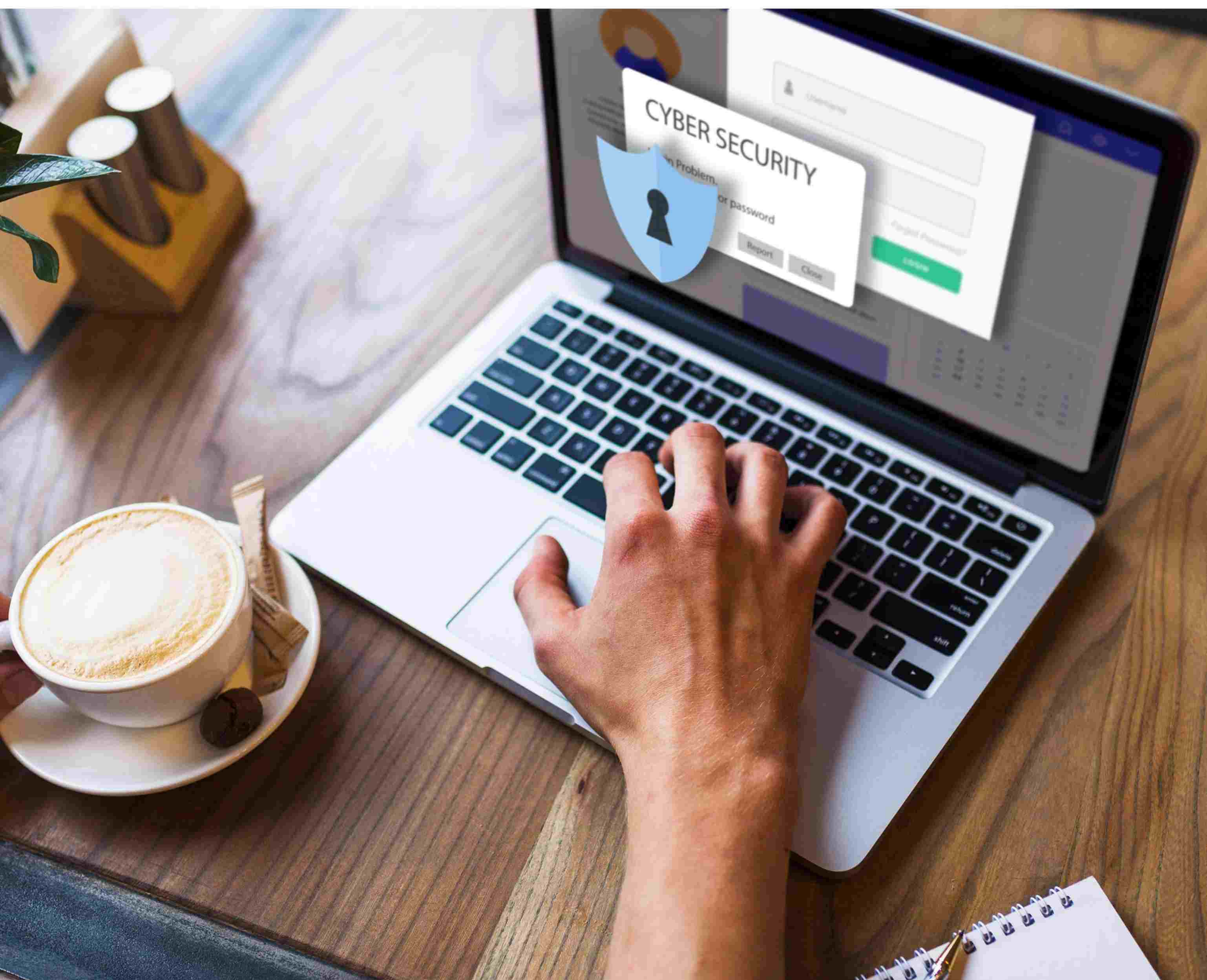


Programme Objectives

- To provide participants with a holistic understanding of the cyber security field and equip them with the knowledge and skills necessary to understand and mitigate cyber threats facing organizations.
- To enable participants to apply the concepts learned during the programme to real-world scenarios and hands-on exercises.
- To provide participants with the opportunity to network with industry experts and professionals working in the field.
- To prepare participants for career advancement in the cyber security field, whether as early-career IT professionals or career switchers.
- To provide participants with a multi-disciplinary approach to cyber security and help them to think critically about the threat landscape and vulnerabilities in the cyber security field.

Learning Outcomes

- Understand cyber security landscape: Latest tech, best practices, emerging threats.
- Developing Cyber Security policies for an organization.
- Apply risk management methodologies: Identify and mitigate cyber threats for organizations.
- Understand and use technologies to secure networks and systems: Firewalls, intrusion detection systems, and encryption.
- Respond to and investigate cyber incidents: Collect and analyse digital evidence.
- Comply with laws and regulations governing cyber security.
- Develop the ability to communicate effectively with stakeholders and lead a cyber security team.



Programme Content

» Introduction to Cyber Security: Issues and Challenges

- Why is Cyber Security Important?
- Common Cyber Threats

» Introduction to Defensive and Offensive Cyber Security Landscape

- Creating Defensive Landscape
- Creating Offensive Landscape
- Protecting Against Cyber Threats

» Security in the inter-connected world: Cloud, Mobile, IoT

- Security of Cloud and Hybrid Infrastructure
- Security of Mobile and IoT Infrastructure
- Implementing Security Measures
- Educating Users

» Incident Response and Digital Forensics

- Incident Response
- Developing Incident Response Plans
- Roles and Responsibilities
- Communication Protocols
- Containment Procedures
- Forensic Analysis

» Ethical Hacking

- Overview of Ethical Hacking
- Reconnaissance and Scanning
- Types of Reconnaissance
- Tools for Reconnaissance and Scanning
- Risks and Mitigation Strategies
- System and Web Application Hacking
- System Hacking
- Web Application Hacking
- Wireless Network Hacking and Social Engineering
- Practical Exercises

» Identity and Access Management (IAM) Concepts, IAM

- Overview of IAM
- What is Access Control?
- Key Principles of IAM
- Types of Access Controls
- Importance of IAM in Security
- IAM Best Practices

Programme Content

» Cyber Security Layers and Technology

- Network Security
- Threats to Network Security
- Technologies Used in Network Security

» Data Privacy, and Data Protection

- Introduction to Data Privacy and Protection
- Why is Data Privacy Important?
- How does Data Privacy Affect Businesses?
- Best Practices for Data Privacy and Protection
- Legal Frameworks and Compliance

» Overview of Cyber Crime

- Introduction to Cybercrime
- Definition of Cybercrime
- History of Cybercrime
- Current Trends in Cybercrime
- Types of Cybercrime
- Preventing Cybercrime
- Responding to Cybercrime
- Back Up Your Data

» Information Risk Management

- Principles of Data Security
- Principles of Risk Management
- Risk Identification
- Risk Assessment
- Risk Mitigation
- Risk Monitoring
- Best Practices for Data Security and Risk Management

» Information Security: Strategy and Policy

- Information Security Strategy formulation
- IS Policy development
- Best Practices for Cyber Security

» Information Security Governance

Programme Content

» Designing Cyber Security Framework for an Organization

» Cyber Security Audit in Organizations

- Understanding Cyber Security Audit
- Introduction to Cyber Security Audit
- Benefits of Cyber Security Audit
- Cyber Security Audit Process
- Cyber Security Risk Assessment and Management

» Overview of Prevailing Cyber Law

A brief description of the following laws:

- The Information Technology Act, 2000
- The Indian Penal Code, 1860
- The Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021
- The Right to Information Act, 2005
- The Aadhaar Act, 2016
- The Prevention of Money Laundering Act, 2002
- The Cyber Appellate Tribunal (Procedure) Rules, 2000

» Capstone Project

Student Boardroom Role Play to prepare Cyber Security roadmap for an organization

- Stage 1 Creating Project charter
- Stage 2 Draft outline for the proposed work
- Stage 3 Literature review
- Stage 4 Data collection
- Stage 5 Solution design and recommendation

Pedagogy

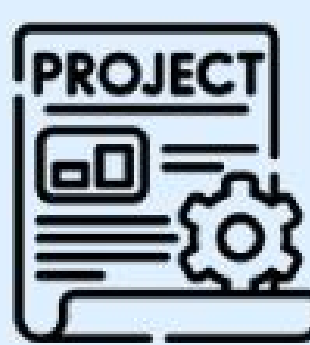
Live Lectures



Case Discussions



Project Work



Quizzes



Assignments



Programme Details

Session Duration

- 10 Months

On-campus module

- 3 Days (12 sessions)

Programme Schedule

- August 2023- April 2024

Application Closure

- 22nd July 2023

Session Timings

- First Session: 2.30 pm to 3.45 pm
- Second Session: 4.00 pm to 5.15 pm
- Sessions will be held on every Sunday

*The time gap between two consecutive sessions is to give the participants a break. On some days, the classes may extend beyond the mentioned time. In addition to attending interactive sessions, participants have to undertake online quizzes, assignments, and examinations.



Fee Structure and Instalment Pattern

Fee Structure	Amount (in INR)
Registration Fee	2500/- + GST
Programme Fee	2,27,500/- + GST

Instalment Pattern	Amount (in INR)
1st Instalment (Payable at the time of admission)	90,000/- + GST
2nd Instalment	70,000/- + GST
3rd Instalment	67,500/- + GST
Total Programme Fee	2,27,500/- + GST

*The above fee does not include Executive Education Alumni fee.

*Registration fee is non-refundable.

Easy EMI Options Available



Admission & Evaluation Criteria

Eligibility

- Diploma (10+2+3)/Graduate/Post Graduate from Universities recognised by the Association of Indian Universities with minimum 50% marks in either diploma, graduation, or post-graduation (or its equivalent) with at least two years of work experience.

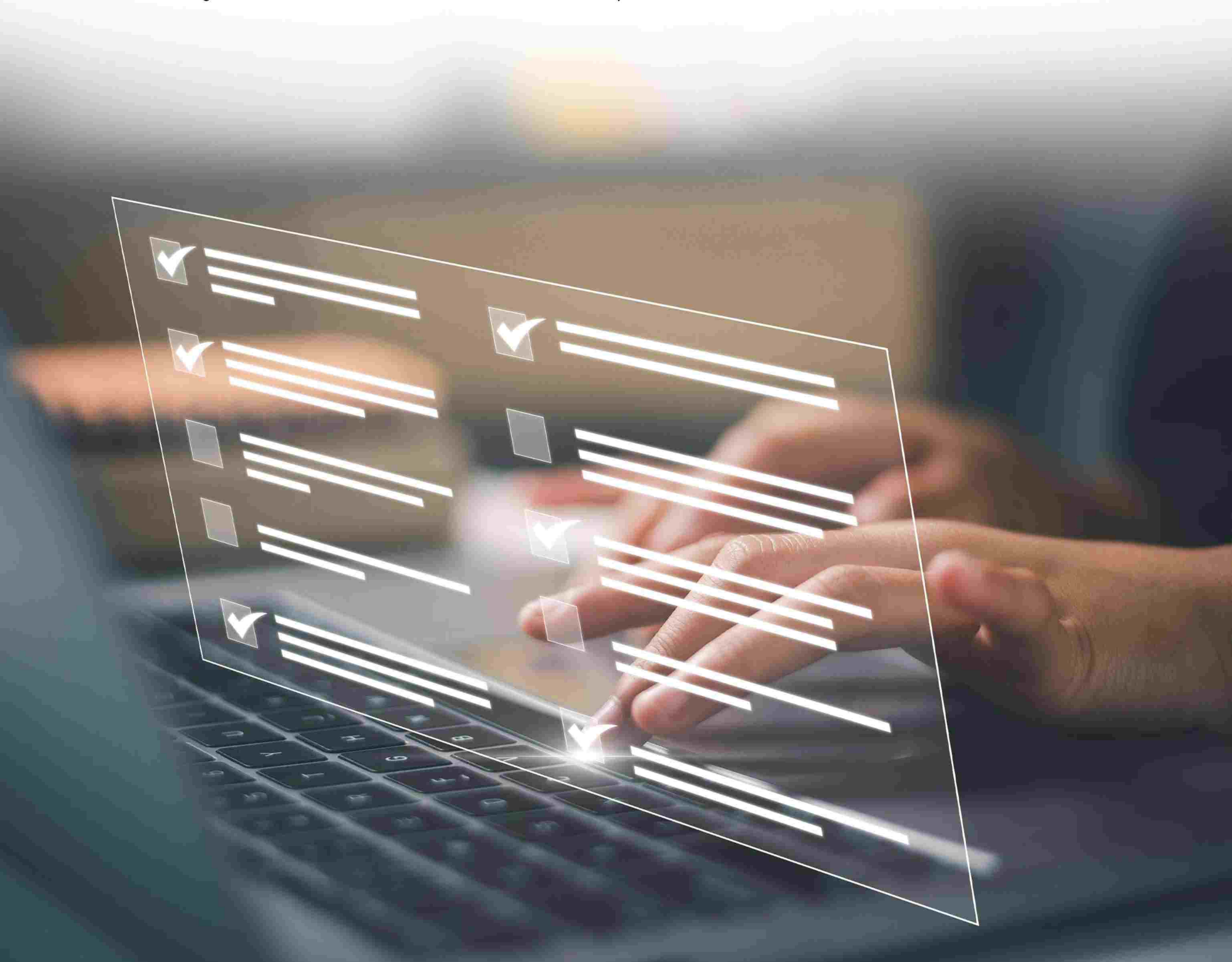
*Internships and Trainee experiences are not considered full-time work experience.

Attendance Criteria

- Participants are expected to attend all sessions of a given course. However, Participants may take leave on account of emergencies, subject to the approval of the Programme Coordinator. However, a 75% minimum attendance requirement would be considered for the final grading. For less than 75% attendance, a grade cut as per the norms will be applied.

Evaluation Methodology

- Performance of participants will be monitored on a continuous evaluation basis through quizzes, assignments, tests and examinations. The participant is required to score minimum marks/grades as decided by the Institute from time to time to complete the course.



Executive Education Alumni Status - IIM Indore

- The participants who will complete the programme successfully will be eligible for the Executive Education Alumni status of IIM Indore. They will require to apply separately along with the necessary fee to register their name. Current alumni membership plans are as follows:

2-year membership – INR 1000/- + applicable taxes

Lifetime membership – INR 10,000/- + applicable taxes

✓ Benefits available to Executive Education Alumni:

- Communication of brochures and newsletters from IIM Indore.
- Access to the IIM Indore Campus Library (onsite access only).
- Official email ID of the institute.
- ID Card.

Mere successful completion of the programme, application submission, and fee does not entitle a participant to be eligible for executive education alumni status. IIM Indore reserves the right to confer executive education alumni status.

IIM Indore reserves the right to modify the above conditions at its discretion at any time without notice. Only the courts at Indore will have the territorial jurisdiction to try any disputes arising in respect of the Executive Alumni membership being granted.



Certification

Participants who successfully meet the evaluation criteria will receive the prestigious 'Certificate of Completion' from IIM Indore.



*The sample certificate is indicative. The Institute reserves the right to revise it.



Know the Facilitator



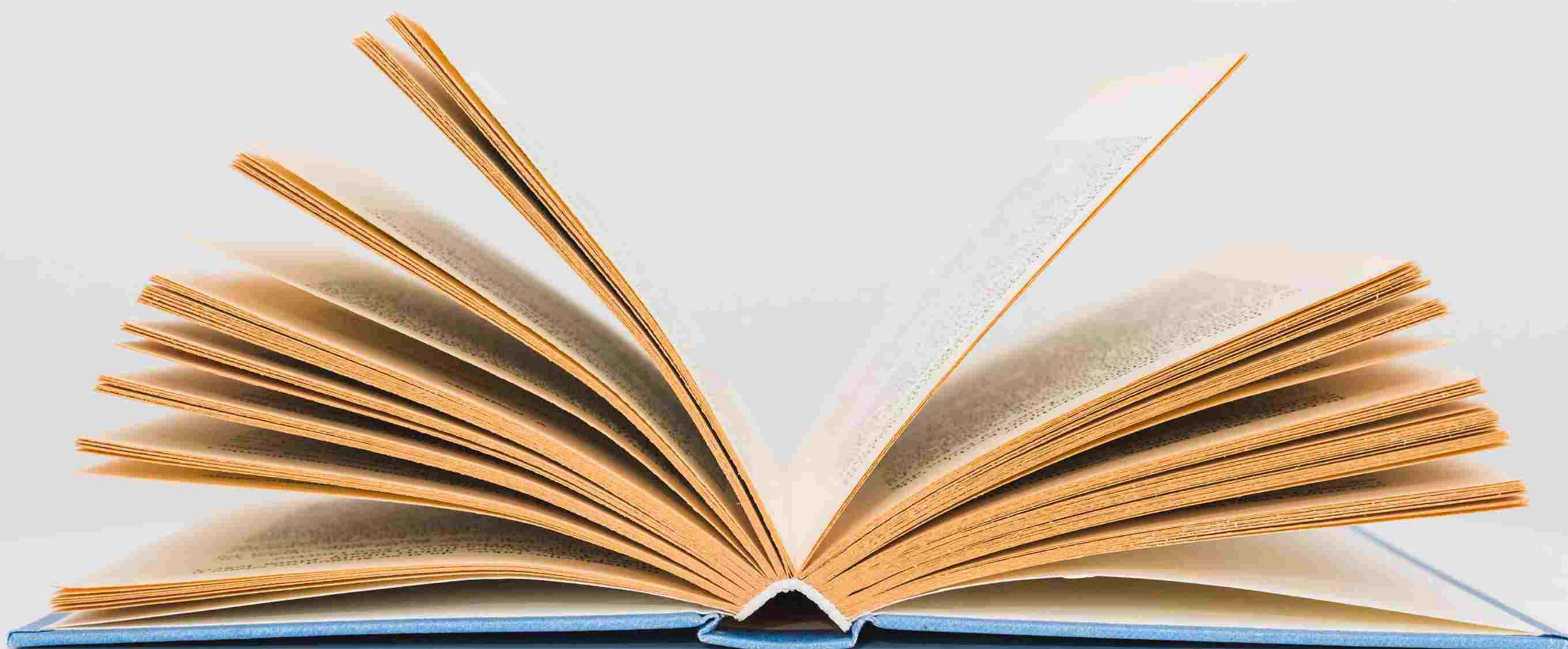
Prof. Prabin Kumar Panigrahi

Programme Coordinator and Professor
Information Systems Area
Ph.D. IIT Kharagpur

Dr Panigrahi, a Fulbright Scholar, is a Professor in the Information Systems at Indian Institute of Management Indore, India. Dr. Panigrahi has an excellent academic background and studied in National Institute of Technology, Rourkela (India) and completed his Ph.D. from Indian Institute of Technology, Kharagpur (India). Professionally he is trained in SDA Bocconi, London School of Economics, and Harvard Business School, Boston, USA.

Dr Panigrahi is a recipient of several professional honors, awards, fellowships, and scholarships. In academics he has received Outstanding Paper in the 2021 Emerald Literati Award, Teradata University Network Faculty Scholarship, Fulbright Nehru Visiting Lecture Fellowship, IIE-CIES Outreach Lecturing Fund, US Award, Best Teacher Award, IIM Indore 2015, 2022, and Prof. Manubhai M. Shah Memorial Award for Excellence in Commerce and Business Management (MMSMA 2022) from Indian Commerce Association. Dr Panigrahi was a recipient of Shastri Indo-Canadian Institute STSG Award. As part of innovation, Dr Panigrahi has filed couple of patents with other inventors in India. Dr Panigrahi has been closely associated with various activities of Govt of India and Govt of Madhya Pradesh.

Teaching and research interest of Dr Panigrahi include Artificial Intelligence, Cybersecurity, Cyber Law, Blockchain, Social Media Analytics, Business Analytics, Social Network Analytics, Digital Transformation/IT Strategy, e-Learning, Social Inclusion of Information Systems, e-Governance, and Technology Adoption. He has published several research articles in top tier international journals of repute.



IIM Indore at a Glance



सिद्धिपूर्वं प्रबन्धनम्
भा. प्र. सं. इन्दौर
IIM INDORE

भारतीय प्रबंध संस्थान इंदौर
Indian Institute of Management Indore



The Department of Higher Education, Ministry of Education, Government of India established Indian Institute of Management Indore (IIM Indore) as an institution of excellence for imparting high quality management education and training. IIM Indore is recognized as a premier management institution, comparable to the best in the world for teaching, research and interaction with industries. It was established in 1996 and is promoted and nurtured by the Ministry of Education, Government of India. IIM Indore is an institute of national importance under the Indian Institutes of Management Act 2017.

IIM Indore strives to provide the best possible education to its students by interfacing with the industry, government, and PSUs. The institute is committed to promoting excellence in management education and research that benefits society as a whole.

