



भारतीय सूचना प्रौद्योगिकी संस्थान, नागपुर

Indian Institute of Information Technology, Nagpur

An Institution of National Importance By An Act of Parliament

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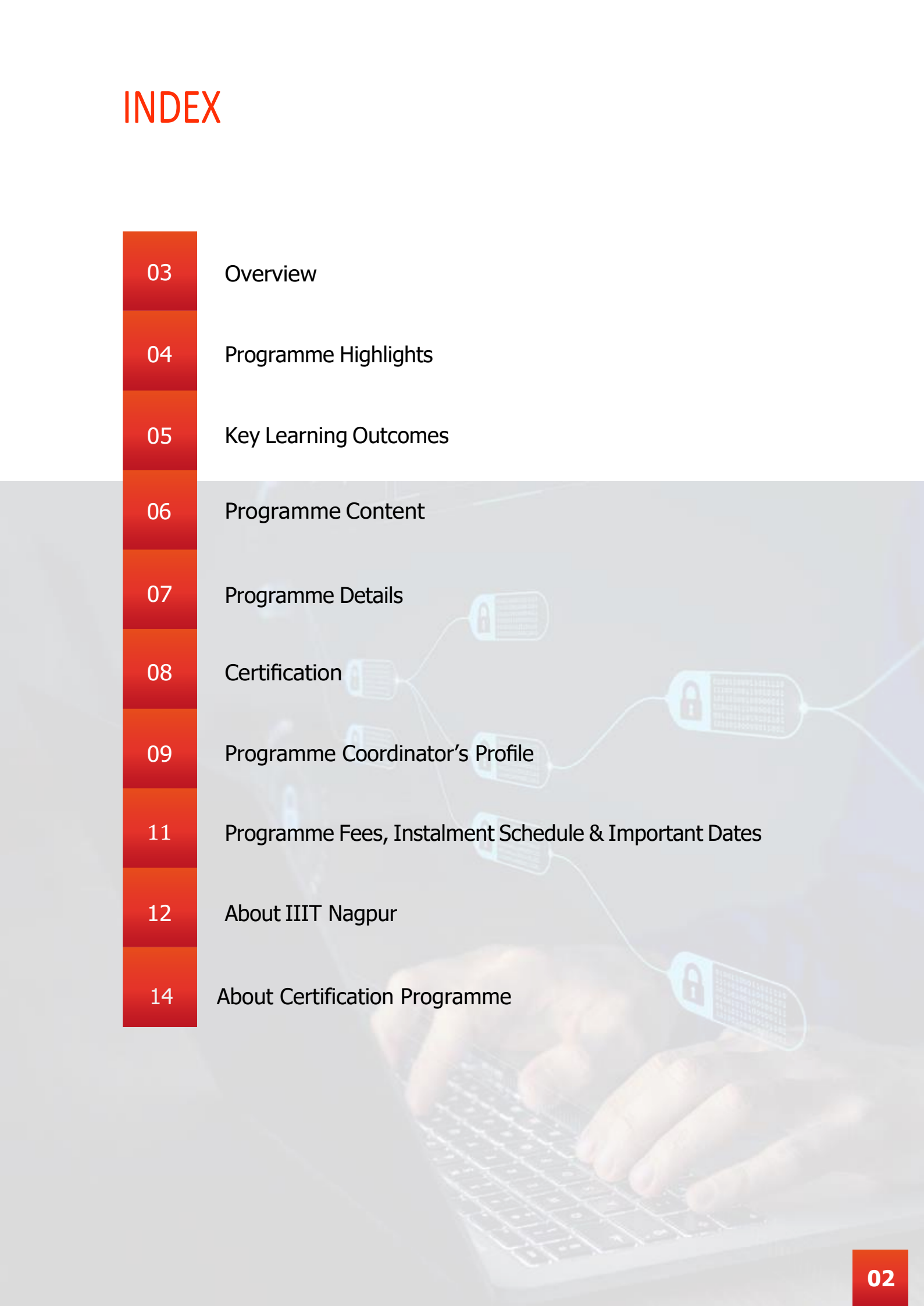


Certificate Programme in

Foundations of Cybersecurity

6 Months | Starts 05th April, 2025 | Live Online Lectures

INDEX

- 
- 03 Overview
 - 04 Programme Highlights
 - 05 Key Learning Outcomes
 - 06 Programme Content
 - 07 Programme Details
 - 08 Certification
 - 09 Programme Coordinator's Profile
 - 11 Programme Fees, Instalment Schedule & Important Dates
 - 12 About IIIT Nagpur
 - 14 About Certification Programme

OVERVIEW

CYBERSECURITY: NEED OF THE HOUR

The digital revolution has made the implications of data security and fraud for businesses, profound. Cybersecurity has become an important factor for the success of the digital economy. It is predicted that there **USD 58.64 Billion** in 2025 to **USD 293.70 Billion in India** by 2034 Source:(Marketresearchfuture.com). The rapid shift towards cloud computing and IoT is leading to a massive increase in cyber threats, and the need for cybersecurity experts to combat these security breaches is becoming paramount.

600%

spike in phishing attacks in the first quarter of 2020

Source: BGC

150%

increase in demand for cybersecurity jobs

Source: Indeed.com

\$562.6

Billion size of world Cyber Security market in 2032

Source: fortunebusinessinsights.com

IIIT Nagpur Certificate Programme in Cybersecurity: Foundations of Cyber Security is designed to equip you with the necessary skills for transforming your organization's cybersecurity strategy. The objective of the programme is to impart the latest information and methods in cybersecurity and to develop an understanding of designing and hardening systems, keeping security in focus. The advanced curriculum of the programme will provide you with a holistic view of new and evolving cybersecurity techniques.

CERTIFICATE PROGRAMME IN CYBERSECURITY: FOUNDATIONS OF CYBERSECURITY

PROGRAMME HIGHLIGHTS



A programme from IIIT Nagpur, #



Learnings focussed on the latest and updated methods in cybersecurity



Live interactions with industry experts



18 hours of hands-on lab sessions by IIIT Nagpur experts



A holistic understanding of cybersecurity



Certification from IIIT Nagpur

WHO SHOULD ATTEND?

The programme is ideal for professionals willing to gain in-depth knowledge and a critical understanding of key aspects of cybersecurity.

1. Current and aspiring cybersecurity professionals seeking to deep dive into cybersecurity and further transform into experts.
2. Students who are studying in BE/BTech/ M.E/MTech BCA/MCA/BSc/MSc or Any UG-PG

KEY LEARNING OUTCOMES



Latest information and methods in cybersecurity



Designing and hardening security systems.



Gaining a holistic view of new and evolving security techniques



Implement technical strategies, security systems, and advanced tools to secure data & information for your organisation



PROGRAMME CONTENT

The programme curriculum comprises the following topics:

1 Introduction to Cybersecurity

2 Network Security

- Key distribution
- Transport layer security
- Internet protocol security
- Wireless security
- Email security
- Network monitoring
- Intrusion detection system
- Virtual private network and firewall

3 Systems Security

- Malware
- Program analysis
- Penetration testing
- Embedded system and hardware security
- Mobile security
- Secure storage management

4 Evolving Security Techniques

- IoT security
- Cyber-physical system security
- Adversarial ML
- Blockchains

5 Cyber Forensics & Incident Management

PROGRAMME DETAILS



Delivery

Live online sessions



Class Schedule

- Twice a week
- Sat & Sun: 10 a.m. to 11:30 a.m.



Eligibility

Graduates in any one of the following degree courses

- * BE / BTech
- * BCA / MCA
- * BSc Computer Science / BSc Information Technology



Duration

- 6 months
- 72 hours of online learning



Admission Criteria

Applications will be reviewed based on eligibility and subsequent shortlisting process as laid down by the Programme Coordinator.

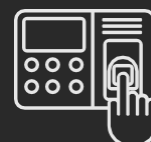


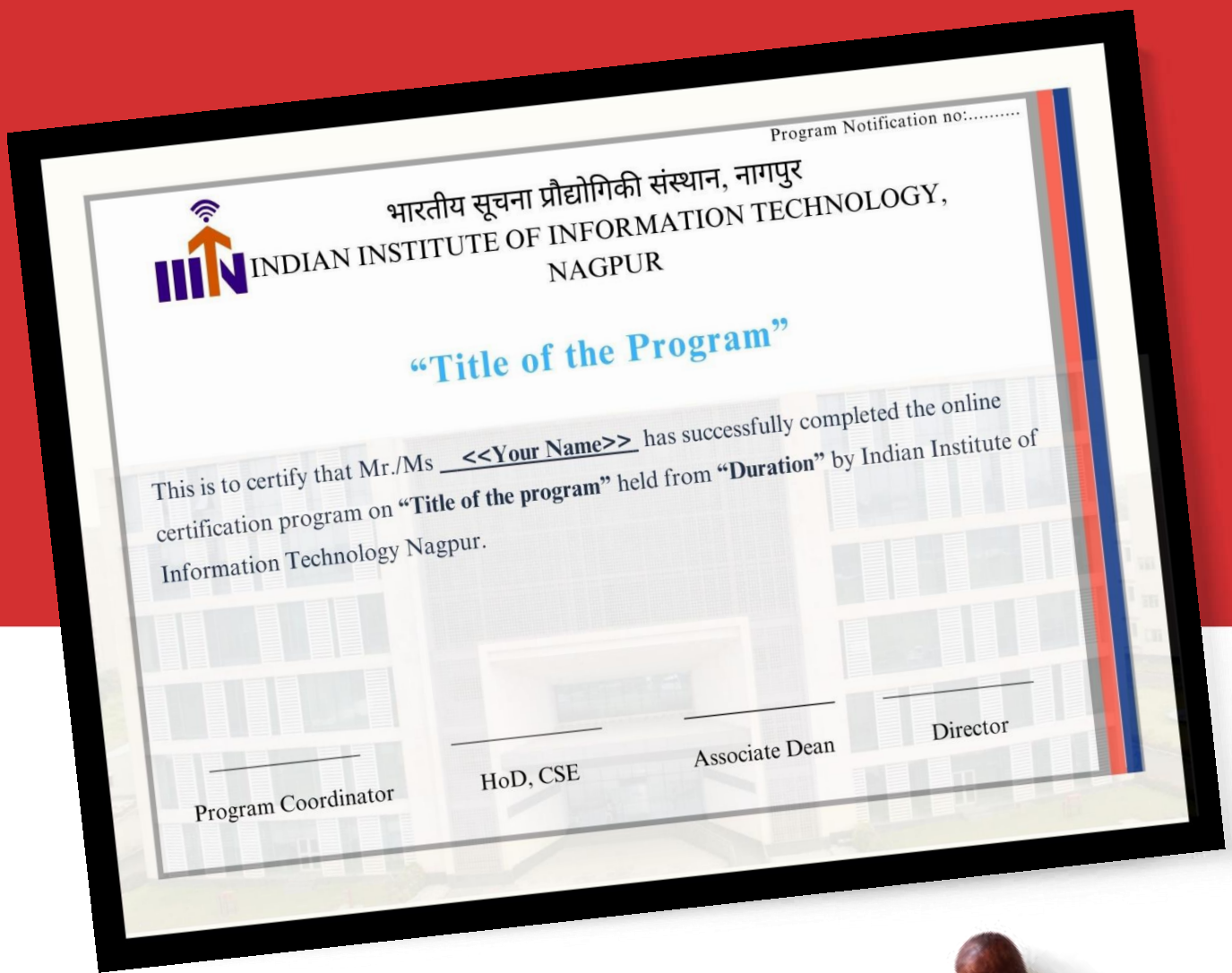
Evaluation

- Quiz & other assessments – 40%
- Performance in labs – 40%
- Attendance – 10%
- Class participation – 10%

Attendance Criteria

Minimum 50% attendance in both, lectures and labs.





CERTIFICATION*

Candidates who successfully complete the programme and meet the attendance requirements will receive a Certificate of Completion from IIIT Nagpur.



PROGRAMME COORDINATOR'S PROFILE



Dr. Shishupal Kumar

Assistant Professor

Department of Computer Science & Engineering Indian Institute of Information Technology Nagpur

Dr. Shishupal Kumar is an Assistant Professor in the Department of Computer Science and Engineering, IIIT Nagpur. His research interests include cyber security for financial data including Machine Learning, Deep Learning and Big Data Analytics. He has Completed Master in Information Technology and Specialization in Wireless Communication and Computing from Indian Institute of Information Technology Allahabad and PhD in Information Technology also from Indian Institute of Information Technology Allahabad. He is handling the Indian Institute of Information Technology Nagpur Wi-Fi and LAN (Local Area Network) from more than two years and also he is nominated from the Institute Chief Information Security Officer(CISO) in the Computer Emergency Response Team India(CERT-IN).

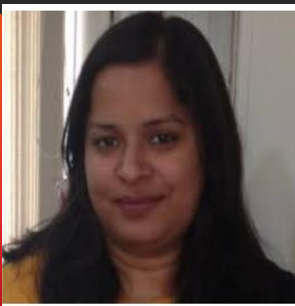
PROGRAMME RESOURCE PERSON PROFILE



Dr. Vijay Kumar Chaurasiya

Associate Professor
Department of Information Technology
Indian Institute of Information Technology
Allahabad

Dr. Vijay Kumar Chaurasiya is working as an Associate Professor in Information Technology in the MBA (IT) & MS (Cyber Law and Information Security) Division of Indian Institute of Information Technology, Allahabad. He received Ph.D. in Information Technology (Wireless Sensor Networks) from Indian Institute of Information Technology, Allahabad in 2010, Master's Degree in Wireless Communication and Computing from Indian Institute of Information Technology, Allahabad in 2004. He has published more than 30 papers in reputed International Journals and conference in the area of Network Protocols, P2P networks, Routing Techniques.



Dr. Urvashi

Assistant Professor
Department of Computer Science & Engineering
Dr B R Ambedkar National Institute of Technology
Jalandhar

Dr. Urvashi is working as an Assistant Professor of Computer Science & Engineering Department at Dr B R Ambedkar National Institute of Technology Jalandhar. Dr Urvashi has received Ph.D. in Computer Science and Engineering from Dr B R Ambedkar National Institute of Technology and Master's Degree in Computer Science and Engineering from National Institute of Technology Jaipur and her research interest in Cyber Warfare, Security, Artificial Intelligence, IoT, Cyber Physical System, Post Quantum Cryptography.

PROGRAMME RESOURCE PERSON PROFILE



Dr. Nidhi Lal

Assistant Professor

Department of Computer Science & Engineering
Visvesvaraya National Institute of Technology
Nagpur

Assistant Professor in the Department of Computer Science & Engineering, Dr. Nidhi Lal has rich industry and teaching experience. She has published over 20 research papers and co-authored two books. Her research interests lie in building distributed, networked and privacy-aware systems, focused on problems at the boundary of information technology and society. She has built systems for road traffic monitoring and others.



Dr. Kaushlendra Sharma

Assistant Professor

Department of Computer Science and Engineering
Indian Institute of Information Technology Nagpur

Dr. Kaushlendra Sharma working as an Assistant Professor in Department of Computer Science and Engineering. He has received Ph.D. in Computer Science and Engineering from National Institute of Technology Raipur, and Master's Degree in Computer Science and Engineering also from National Institute of Technology Raipur. He has published more than 20 papers in reputed International Journals and conference in the area of Network Protocols, P2P networks, Routing Techniques.



Dr. Rahul Semwal

Assistant Professor
Department of Computer Science & Engineering
Indian Institute of Information Technology, Nagpur

Dr. Rahul Semwal working as an Assistant Professor in Department of Computer Science and Engineering. He has received Ph.D. in Information Technology from Indian Institute of Information Technology Allahabad, and Master's Degree in Information Technology also from Indian Institute of Information Technology Allahabad.



Mr. Gajendra Dhakar

Associate Vice President
Cybersecurity Expert @ NAB Global Innovation Centers

Mr. Gajendra Dhakar is Experienced information Security Consultant with a demonstrated history of working in the information security and privacy field for protecting client networks from the external and internal threats. Skilled in SIEM, Qradar, and Websense, SOC, CEH certified . Strong information security professional with a Master of Technology (M.Tech.) focused in Information Technology from Indian Institute of Information Technology



Mr. Surender Singh

Cybersecurity Expert (Team Lead) @ Netskope
Experience 10 Years

Mr. Surender Singh is a Cyber Security practitioner with 8 plus years of experience in Product Security and Incident Response with knowledge of Threat Modeling, Vulnerability Assessment (manual and automated), Risk Management in power management sector. Currently working as Security Incident Response lead at Netskope, handling product security and incident response for all Netskope Products and working with various stakeholders in handling security incidents.

PROGRAMME FEE, INSTALMENT SCHEDULE AND IMPORTANT DATES

Programme Fee

Particulars	Amount (in RS)
Programme Fee	12,000
GST	2,160
Total	14,160

Note: All fees should be submitted in the IIIT Nagpur Account only, and the details will be shared post-selection.

Installment Schedule

	1 st Installment	2 nd Installment	OneTime
Date	To be paid within 6 days of offer rollout	10 th July, 2025	03 rd April, 2025
Amount (in Rs)	10,000	4000	14000

* GST @18% will be applicable on Rs 14000

Important Dates

Last date to submit the fees	03rd April, 2025
Programme start date	04th October, 2025
Programme end date	04th October, 2025
Certificate issue date	12th October, 2025

APPLY NOW

ABOUT IIIT Nagpur

Indian Institute of Information Technology, Nagpur (IIITN) is established under the Public-Private Partnership Scheme by the Ministry of Education (Ministry of Human Resource Development), Government of India, and is supported by the Department of Higher Education, Government of Maharashtra, and Tata Consultancy Services, Mumbai as Industry Partner. IIIT Nagpur is recognized as an Institution of National Importance by an Act of Parliament in 2017. IIIT Nagpur started functioning during the year 2016-17, and shifted to its permanent campus sprawling 100 Acres of land near Butibori, Nagpur. It has powers to decide its own academic policy, conduct its own examinations, and award its own degrees.

Since its inception the students have graduated from IIIT Nagpur in various Engineering disciplines. The some students obtained a Master's Degree in Engineering. These alumni today work as scientists, technologists, business managers, and entrepreneurs. There are several alumni who have moved away from their original disciplines and have taken to administrative services. In doing so, they have contributed significantly to the building of this nation and to industrialisation around the world.

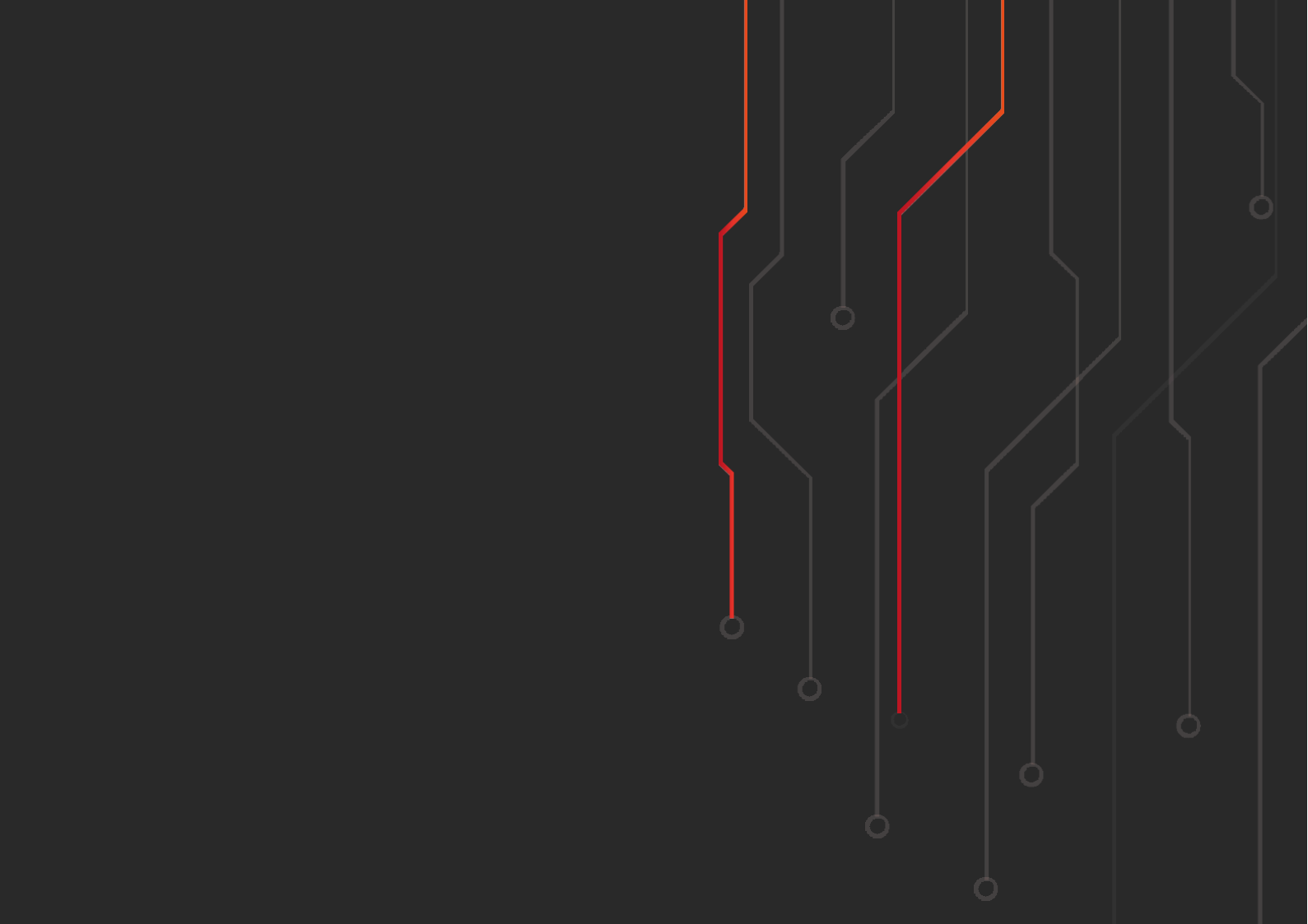
For more details, please visit: www.iiitn.ac.in

ABOUT Executive Education on Cyber Security Certification Programme)

The Executive Education on Cyber Security Certification Programme is designed to provide professionals, business leaders, and decision-makers with the essential skills and knowledge needed to understand and tackle the ever-evolving landscape of cybersecurity threats. This programme equips participants with a comprehensive understanding of the principles, practices, and technologies necessary to safeguard organizational assets, data, and infrastructure.

Comprehensive Curriculum: The programme covers a wide range of topics, including threat intelligence, risk management, data protection, network security, cybersecurity governance, incident response, and legal and ethical aspects of cybersecurity. This programme includes Expert-led Learning, Hands-on Experience, Industry relevant skills and Networking opportunities.

For more details, please visit: <http://www.iiitn.ac.in>



For any kind of assistance required to register in the six month certification programme , please write to: IIIT Nagpur at

Online Certificate Programmes are offered by the Indian Institute of Information Technology Nagpur, The Institute can realise its vision of serving as a valuable resource for industry and society, and fulfil its mission to develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.