FAIRFIELD

INSTITUTE OF MANAGEMENT & TECHNOLOGY

ज्योतिर्वृणीत तमसो विजानन्
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Affiliated to GGS IP University, an 'A+' Grade College by DHE, Govt. of NCT DELHI, Approved by AICTE , Bar Council of India, NCTE and Recognised under 2(f) of UGC Act of 1956

CERTIFICATE COURSE

ON

CYBER SECURITY

APRIL 2025 – JUNE 2025

&

SEPTEMBER 2025 – NOVEMBER 2025

BLENDED LEARNING / समिश्रित अधिगम

ABOUT FAIRFIELD COLLEGE

The Fairfield Institute of Management and Technology (FIMT) is a NAAC accredited prestigious college in Delhi with an ambiance representing the academic culture of the capital town of the largest democracy in the world and a vibrant emerging economy. Established by the Fairfield Group of Institutions, it is an 'A' grade college approved by the Government of NCT of Delhi, affiliated with the prestigious Guru Gobind Singh Indraprastha University. FIMT is approved by All India Council of Technical Education (AICTE), Bar Council of India(BCI), National Council for Teacher Education (NCTE) and other authenticating bodies. Fairfield Group of Institutions is backed by a legacy of 50 years of shaping students' careers in the country in areas of Management, Commerce, Teachers' education, Journalism, Information and Communication Technology, Humanities, and Law & Legal Studies. The institutional distinction includes social outreach, field studies, and job orientation programs in respective areas of Study with specialized Add On Courses.

INTRODUCTION OF THE CERTIFICATE COURSE

This course covers everything from the basics of cyber security, including key concepts and popular attacks, to advanced topics such as cryptography, security goals and their implementations, and designing security systems. You will also learn about vulnerabilities such as buffer overflow and participate in a case study on a real-world WhatsApp attack. This course is designed to be hands-on and engaging, with practical projects, case studies, and demonstrations to help you master the skills you need to succeed in the field of cybersecurity. Join us now and take the first step towards a rewarding career in this exciting and fast-paced industry. After this free, self-paced, beginner-level guide to Introduction to Cyber Security, you can enroll in the Cyber Security courses and embark on your career with the professional Post Graduate certificate. Learn various concepts in depth with millions of aspirants across the globe.

PEDAGOGY

• The pedagogy will be highly interactive in hybrid mode.
• It will consist of a judicious blend of lectures, real life case studies, quizzes & assignment.

COURSE OBJECTIVES

• Exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an organization.
• Practice with an expertise in academics to design and implement security solutions.
• Understand key terms and concepts in Cryptography, Governance and Compliance.
• Develop cyber security strategies and policies.
• Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.

COURSE OUTCOMES

Upon successful completion of the Program, candidates will be familiar with cyber security landscapes and able to:
• Analyze and evaluate the cyber security needs of an organization.
• Determine and analyses software vulnerabilities and security solutions to reduce the risk of exploitation.
• Measure the performance and troubleshoot cyber security systems.
• Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.
• Comprehend and execute risk management processes, risk treatment methods, and key risk and performance indicators.
• Design and develop a security architecture for an organization.
• Design operational and strategic cyber security strategies and policies.

EVALUATION METHODOLOGY OF THE CERTIFICATE COURSE

Evaluation methodology includes Hybrid Mode, Subjective and Objective Assessment, Presentation, class contribution and any other component as decided by the respective course faculties. A minimum of 75% attendance is a prerequisite for the successful completion of this program.

The program may require participants to work on individual/group assignments and/or projects. The main objective of such assignments / projects will be to help the participants apply their conceptual learning in the program to actual organizational decision scenarios.

The participants will have to secure the minimum passing marks in the respective evaluation.

Participants who successfully complete the same and satisfy the requisite attendance criteria, will be awarded a certificate of completion. Participants who are unable to clear the evaluation criteria but have the requisite attendance will be awarded a participation certificate.

HIGHLIGHTS OF THE CERTIFICATE COURSE

• This Certificate course holds significant merit for Teachers, seasoned In-Service Teachers, administrators and aspiring Professional Portfolio Pupil Teachers/Students.

• Duration of the Course: Three Months or 30 Hours.

• Mode: Hybrid (Offline/ Online).

• Medium of Instruction: Bilingual (Hindi/ English)

CERTIFICATE COURSE BROCHURE : 2025
CYBER SECURITY

NAAC ACCREDITED

PROGRAMME CONTENT

S.No.	CONTENTS		S.No.	CONTENTS
I	**Information Security** (10 Hours)		(I)	Security in Business Processes
(A)	Computer Network Security		(J)	Security Enforcing Function (SEF) Gateways
(B)	Application Security		(K)	Intrusion Detection Systems
(C)	Web Services Security		(L)	Intrusion Prevention Systems
(D)	Mobile Security		(M)	Firewalls & Spam identification and protection
(E)	Protective Security		(N)	Anti-Virus and Anti-Malware Gateways
(I)	Data Capturing devices and Security		(O)	Data Loss Prevention and Encryption Services
(J)	Security in Middleware, Interface and Interaction		III	**Protection of Digital Services** (8 Hours)
(K)	Security Services in Authentication, Authorization, Accountability, Automation, Availability, Integrity and Non-repudiation		(A)	Protection of Business Information Systems
(L)	Security Management		(B)	Protection of Online Services
(M)	Security Operations		(C)	Public Online Services
(N)	Digital Trust and Reputation		(D)	Internet Banking
(O)	Spatial Location (Geo-location) and Cyber Travel		(E)	Security, Trust, Privacy
(P)	Spatial Intelligence Networks (Centralized, Distributed & Hybrid)		(F)	Security in Online Gaming Systems
(Q)	Policy, Legal, Legislation & Compliance		(G)	Security in e-Government and Electoral Systems
(R)	Security Standardization		(H)	Content Security
(S)	Law, Legal and Ethical issues		(I)	Protection of Public Online Content Distribution Systems
II	**Digital Services** (10 Hours)		(J)	Secure practices, processes and procedures in Public Online Services
(A)	Web Services, Internet Banking, E-Booking		(K)	Cryptography -PKI, HSMs, Symmetric and Asymmetric Crypto, Crypto Custodian & Crypto Standards and Practices
(B)	E-Government, Electronic Commerce		(L)	Digital Forensics and Investigations
(C)	Citizens Public Online Services		(M)	Honey Pots and Honey Nets
(D)	Mobile Commerce		(N)	National Information Infrastructure (NII) protection
(E)	E-Postal Services, E-Health, E-Learning and Online & Virtual Education		(O)	National Critical Infrastructures (NCI) protection
(F)	Secure Protocols, Coding and Development		(P)	Critical Network Systems (CNS)
(G)	Security Principles, Theory and Analysis		IV	Assessment (2 HRS.)
(H)	Security Policy, Standards and Procedures			

ADMISSION PROCESS

The Online Session will commence from April 2025 - June 2025 & September 2025 - November 2025 (on Saturdays only.)The Admission Committee of FIMT shall make admission based on screening / merit in 10+2 or Bachelor's degree in any discipline followed by Group Discussion.

ELIGIBILITY CRITERIA

An applicant who has successfully completed Senior Secondary School Course (10+2) or any equivalent with no age bar.

CERTIFICATE

After Course Completion, Certificate will be provided by Guru Gobind Singh Indraprastha University(GGSIPU) New Delhi

REGISTRATION

- All interested candidates should register through the link **https://forms.gle/mmrB25C5sci4g3Fk8**
- Fee Structure: 10,000/- (₹)
- Examination fee : 1,000/- (₹)
- Payable through Online Mode.

ACCOUNT HOLDER NAME	FAIRFIELD INSTITUTE OF MANAGEMENT & TECHNOLOGY
BANK NAME	HDFC BANK
ACCOUNT NUMBER	50200024027620
ACCOUNT TYPE	CURRENT
RTGS/NEFT/IFSC CODE	HDFC 0004404
BRANCH	MAHIPALPUR

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PROFESSIONAL COURSES @FIMT

FIMT-SCHOOL OF LAW- BBA-LL.B. INTEGRATED(H.) , BA-LL.B. INTEGRATED(H.) , LL.M.

FIMT-SCHOOL OF ENGINEERING & TECHNOLOGY- BCA , B.TECH. (CSE / IT / AI&ML)

FIMT-SCHOOL OF JOURNALISM & MASS COMMUNICATION- BA(JMC)

FIMT-SCHOOL OF HUMANITIES & SOCIAL SCIENCES-. BA-(H) ENG.

FIMT-SCHOOL OF BUSINESS ADMINISTRATION- BBA(GEN.)

FIMT-SCHOOL OF COMMERCE- B.COM.(H)

FIMT-SCHOOL OF EDUCATION- B.ED.