

Program Structure

Master of Technology in Defence Technology (AI & Cyber Security)

Duration: 2 Years | Semesters: 4 | Level: Post Graduate

Eligibility: B.E./B.Tech. in any stream / MCA / M.Sc. (relevant stream) with minimum 50% marks.

Program Overview

The program integrates defence technology, artificial intelligence, and cyber security to prepare graduates for research, development, and operational roles in defence, strategic, and critical infrastructure domains.

Semester-wise Structure

Semester I

Course Code	Course Title	Credits
XXXX	Mathematical Foundations for Defence Technology	3
XXXX	Advanced Data Structures and Algorithms	5
XXXX	Computer Systems and Security Architecture	5
XXXX	Modern Cryptography	5
XXXX	Technical Presentation and Research Writing	2

Semester II

Course Code	Course Title	Credits
XXXX	Web and Network Security	5
XXXX	Cloud and IoT Security	5
XXXX	Ethical Hacking and Computer Forensics	5
XXXX	Cyber Crime, Cyber Laws and IPR	3
XXXX	AI for Cyber Defence	3

Semester III

Course Code	Course Title	Credits
XXXX	Defence Applications of Artificial Intelligence	3
XXXX	Cyber Threat Intelligence and Incident Response	3
XXXX	Secure Embedded and Cyber-Physical Systems	3
XXXX	Elective I	3
XXXX	Project and Thesis I	12

Semester IV

Course Code	Course Title	Credits
XXXX	Elective II	3
XXXX	Project and Thesis II	12
XXXX	Seminar and Dissertation Defence	3

Elective Basket

1. Quantum Computing for Security
2. Post-Quantum Cryptography
3. Data Privacy and Protection
4. Machine Learning for Cyber Security
5. Secure Cloud and Edge Computing
6. Digital Forensics and Malware Analysis
7. Blockchain for Defence Systems
8. AI Governance and Ethical Assurance

Total Credits: Suggested total: 70 credits, including project and thesis components in the final year.