

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB
Syllabus of M. Tech. in Information Technology with Specialization: Information Security(In-house)
(Effective for 2019-2020 Admission session)

Curriculum Structure

Semester I

Course Number	Subject	L	T	P	Credits
PGIT(IS)101	Program Core I- Mathematical foundations of Computer Science	3	0	0	3
PGIT(IS)102	Program Core II- Advanced Data Structures	3	0	0	3
PGIT(IS)103A/ PGIT(IS)103B / PGIT(IS)103C	Program Elective I- A. Ethical Hacking/ B. Digital Forensic/ C. Intrusion Detection	3	0	0	3
PGIT(IS)104A/ PGIT(IS)104B / PGIT(IS)104C / PGIT(IS)104 D	Program Elective II- A. Machine Learning/ B. Cryptography/ C. Security in Cloud Computing D. Secure Coding	3	0	0	3
PGIT(IS)105	Research Methodology and IPR	2	0	0	2
PGIT(IS)106A/ B/C/D/E/F	Audit Course	2	0	0	0
PGIT(IS)192	Laboratory 1 (Advanced Data Structures)	0	0	4	2
PGIT(IS)193A/ B/C	Laboratory 2 (Based on Elective I)	0	0	4	2
PGIT(IS)194A/ B/C	Laboratory 3 (Based on Elective II)	0	0	4	2
	Total Credits: 20				

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Semester II

Course Number	Subject	L	T	P	C
PGIT(IS)201	Program Core III – Advanced Algorithms	3	0	0	3
PGIT(IS)202	Program Core IV – Soft Computing	3	0	0	3
PGIT(IS)203A/ B/C	Program Elective III – A. Data Encryption & Compression/ B. Steganography & Digital Watermarking C. Malware Analysis & Reverse Engineering	3	0	0	3
PGIT(IS)204A/ B/C	Program Elective IV – A. Information Theory & Coding/ B. Systems Security/ C. Biometrics Security	3	0	0	3
PGIT(IS)205A/ B/C/D	Audit Course	2	0	0	0
PGIT(IS)291	Advanced Algorithms Lab	0	0	4	2
PGIT(IS)292	Soft Computing Lab	0	0	4	2
PGIT(IS)293A/ B/C	Lab based on Elective III	0	0	4	2
PGIT(IS)293	Mini Project with Seminar	0	0	4	2
Total Credits: 20					

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Semester III

Course Number	Subject	L	T	P	Credits
PGIT(IS)301A/ PGIT(IS)301B/ PGIT(IS)301C	Program Elective V – A. Data Security and Access Control/ B. Web Search & Information Retrieval/ C. Blockchains and cryptocurrency	3	0	0	03
PGIT(IS)302A/ PGIT(IS)302B/ PGIT(IS)302C/ PGIT(IS)302D/ PGIT(IS)302E/ PGIT(IS)302F	Open Elective A. Business Analytics B. Industrial Safety C. Operations Research D. Cost Management of Engineering Projects E. Composite Materials F. Waste to Energy	3	0	0	03
PGIT(IS)391	Dissertation-I /Industrial Project	0	0	20	10
Total Credits: 16					

Semester IV

Course Number	Subject	L	T	P	Credits
PGIT(IS)491	Dissertation II	0	0	32	16
Total Credits: 16					