

Proposed Curriculum & Syllabus

M.Tech in Information Technology

(Effective for batches admitted in session 2019-20 onwards)

Note.: C –Core, E- Elective, P – Practical, L- Lectures, T- Tutorial ;

M.Tech (IT) SEMESTER 1

Course Code	Course Title	L-T-P	Credits	Mark	MOOC
IT0901C	Probability and Random Process	3-0-0	3	100	Yes
IT0902C	Computer Networks and Internet Protocol	3-0-0	3	100	
IT0903C	Research Methodology and IPR	2-0-0	2	100	
IT0904C	Laboratory I (Based on Cores)	0-0-4	2	100	
IT0905C	Laboratory II (Based on Electives)	0-0-4	2	100	
IT00XXE	Elective I	3-0-0	3	100	
IT00XXE	Elective II	3-0-0	3	100	
Total Credits	<i>5 Theory, 2 Laboratories</i>	<i>14-0-8</i>	18	<i>700</i>	

M.Tech (IT) SEMESTER 2

Course Code:	Course Title	L-T-P	Credits	Mark	MOOC
CSK-III	Computer Skill- III (As per CBCS)	3-1-0	4	100	Yes
IT1001C	Data Structures and Algorithm	3-0-0	3	100	Yes
IT1002C	Laboratory III (Based on Cores)	0-0-4	2	100	
IT1003C	Laboratory IV (Based on Electives)	0-0-4	2	100	
IT1004C	Mini Project with Seminar	0-0-4	2	100	
IT00XXE	Elective III	3-0-0	3	100	
IT00XXE	Elective IV	3-0-0	3	100	
Total Credits	<i>4 Theory, 3 Laboratories</i>	<i>12-1-12</i>	19	<i>700</i>	

M.Tech (IT) SEMESTER 3

Course Code:	Course Title	L-T-P	Credits	Mark	MOOC
IT1101C	Thesis Report Interim I	0-0-10	5	100	
IT1102C	Thesis Seminar Interim I (Presentation and Viva)	0-0-10	5	100	
IT00XXE	Elective V	3-0-0	3	100	
	Open Elective (Other Department)	4-0-0	4	100	
Total Credits	<i>2 Theory, 2 Laboratories</i>	<i>7-0-20</i>	17	<i>400</i>	

M.Tech (IT) SEMESTER 4

Course Code:	Course Title	L-T-P	Credits	Mark	MOOC
IT1201C	Thesis Report Interim II	0-0-16	8	400	
IT1202C	Thesis Seminar Interim II (Presentation and Viva)	0-0-16	8	400	
Total Credits	<i>2 Laboratories</i>	<i>0-0-32</i>	16	<i>800</i>	

Total Credit= 70

Foundation=4; Core=47 (Theory: 11, Practical: 36), Elective= 19 (Departmental: 15, Other Department:4)

Open Elective (Non-Departmental) (04 Credits)

* As offered by other departments of Tripura University in respective semester under CBCS.

ELECTIVE SUBJECTS

Course Code	Course Title	L-T-P	Credits	Availability as MOOC
IT0001E	Adhoc and Sensor Networks	3-0-0	3	Yes
IT0002E	Advanced Graph Theory	3-0-0	3	Yes
IT0003E	Advanced Microprocessor	3-0-0	3	
IT004E	Artificial Intelligence	3-0-0	3	Yes
IT0005E	Bioinformatics	3-0-0	3	Yes
IT0006E	Cloud Computing	3-0-0	3	Yes
IT0007E	Compiler Design	3-0-0	3	Yes
IT0008E	Computational Geometry	3-0-0	3	Yes
IT0009E	Computational Systems Biology	3-0-0	3	Yes
IT0010E	Computer Architecture	3-0-0	3	Yes
IT0011E	Cryptography and Network Security	3-0-0	3	Yes
IT0012E	Data Mining	3-0-0	3	Yes
IT0013E	Data Science	3-0-0	3	Yes
IT0014E	Deep Learning	3-0-0	3	Yes
IT0015E	Digital Signal Processing	3-0-0	3	Yes
IT0016E	Distributed System	3-0-0	3	Yes
IT0017E	Embedded Systems	3-0-0	3	Yes
IT0018E	Image Processing	3-0-0	3	Yes
IT0019E	Information Theory and Coding Techniques	3-0-0	3	Yes
IT0020E	Internet of Things	3-0-0	3	Yes
IT0021E	Knowledge Representation and Reasoning	3-0-0	3	Yes
IT0022E	Machine Learning	3-0-0	3	Yes
IT0023E	Medical Electronics	3-0-0	3	
IT0024E	Mobile Computing	3-0-0	3	Yes
IT0025E	Modern Digital Communication Techniques	3-0-0	3	Yes
IT0026E	Modern Digital System Design	3-0-0	3	
IT0027E	Multimedia processing	3-0-0	3	Yes
IT0028E	Natural Language Processing	3-0-0	3	Yes
IT0029E	Pattern Recognition	3-0-0	3	Yes
IT0030E	Social Network	3-0-0	3	Yes
IT0031E	Soft Computing	3-0-0	3	Yes
IT0032E	Software Engineering	3-0-0	3	Yes
IT0033E	Switching Circuits and Logic Design	3-0-0	3	Yes
IT0034E	Theory of Computation	3-0-0	3	Yes
IT0035E	Web Technology	3-0-0	3	