

DELHI TECHNOLOGICAL UNIVERSITY
SCHEME OF TEACHING AND EVALUATION
MASTER OF TECHNOLOGY IN INFORMATION TECHNOLOGY (ISY)

The following alphanumeric coding scheme has been adopted

Core Courses XXXYMN

Elective Courses XXXYCMN

XXX abbreviates a particular M. Tech. program, Y – (5 for M. Tech. 1 st year, 6 for M. Tech. 2 nd year),

C – credit of the course (4/3/2),

MN – Subject code (Odd number for odd semester and even number for even semester courses)

Semester-I														
	S.No	Course Code	Course Name	Type/Area	C r	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group A	1	ISY501	Linear Algebra and Probability	Core	4	3	0	2	15	25	20	40	-	17
	2	ISY503	Data Structure and Algorithm	Core	4	3	0	2	15	25	20	40	-	
Group B	3	ISY5401/5403/.....	Elective 1	Elective	4	3	0	2	15	25	20	40	-	
	4	ISY5301/5303/.....	Elective 2	Elective	3	3/2	0	0/2	20/15	0/25	30/20	50/40	-	
	5	ISY5201/5203/...../ UEC5201/ 5203/.....	Elective 3/University Elective I	Elective	2	2	0	0	20	-	30	50	-	

Semester-II

	S.No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group C	1	ISY502	High Performance Computing system	Core	4	3	0	2	15	25	20	40	-	17
	2	ISY504	Computer Network and Application	Core	4	3	0	2	15	25	20	40	-	
Group D	3	ISY5402/5404 /.....	Elective 4	Elective	4	3	0	2	15	25	20	40	-	
	4	ISY5302/5304 /.....	Elective 5	Elective	3	3/2	0	0/2	20/15	0/25	30/20	50/40	-	
	5	ISY5202/5204 /...../ UEC5202/5204/.....	Elective6/ University Elective II	Elective	2	2/0	0	0/4	20/0	0/30	30/0	50/0	0/70	

Semester-III

	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits	
Track 1													12		
Group E	1	ISY651	Research Project	Core	12	0	0	12	0	-	0	100		0	
	Track 2														
	1	ISY601	Major Project I	Core	3							40		60	
	2	ISY6401/6403/.....	Elective 7	Elective	4	3	0	2	15	25	20	40		-	
3	ISY6301/6303/.....	Elective 8	Elective	3	3/2	0	0/2	20/15	0/25	30/20	50/40	-			
4	ISY6201/6203/.....	Elective 9	Elective	2	0	0	2	0	100	0	0	-			

Semester-IV

S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CW S	PRS	MTE	ETE	PRE	Total Credits
Track 1													12
1	ISY652	Research Project	Core	12	0	0	12	0	-	0	100	0	
Track 2													
1	ISY602	Major Project II	Core	12						40	60		

List of Elective Courses

LIST OF ELECTIVES :														
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 1	1	ISY5401	Advanced Computer Graphics	Elective	4	3	0	2	15	25	20	40	-	
	2	ISY5403	Artificial Neural network		4	3	0	2	15	25	20	40	-	
	3	ISY5405	Big Data Analytics		4	3	0	2	15	25	20	40	-	
	4	ISY5407	Data System Implementation		4	3	0	2	15	25	20	40	-	
	5	ISY5409	Image Analysis		4	3	0	2	15	25	20	40	-	
	6	ISY5411	Privacy and Security in Online Social Media		4	3	0	2	15	25	20	40	-	
	7	ISY5413	Embedded System		4	3	0	2	15	25	20	40	-	
	8	ISY5415	Digital and Cyber Forensics		4	3	0	2	15	25	20	40	-	
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 2	1	ISY5301	Artificial Intelligence	Elective	3	3	0	0	20	0	30	50	-	
	2	ISY5303	Pattern analysis		3	2	0	2	15	25	20	40	-	
	3	ISY5305	Business Intelligence and data warehousing		3	3	0	0	20	0	30	50	-	

	4	ISY5307	Edge computing		3	3	0	0	20	0	30	50	-	
	5	ISY5309	Financial data analytics		3	3	0	0	20	0	30	50	-	
	6	ISY5311	Foundation to computer security		3	3	0	0	20	0	30	50	-	
	7	ISY5313	Information Audit		3	3	0	0	20	0	30	50	-	
	8	ISY5315	Information Integration and Data Analytics		3	2	0	2	15	25	20	40	-	
	9	ISY5317	Linear Optimization		3	3	0	0	20	0	30	50	-	
	10	ISY5319	Management Information System		3	3	0	0	20	0	30	50	-	
	11	ISY5321	Multi agent system		3	3	0	0	20	0	30	50	-	
	12	ISY5323	Privacy in location based services		3	3	0	0	20	0	30	50	-	
	13	ISY5325	Probabilistic Graphical Models		3	2	0	2	15	25	20	40	-	
	14	ISY5327	Software Engineering		3	2	0	2	15	25	20	40	-	
	15	ISY5329	Theory of modern cryptography		3	2	0	2	15	25	20	40	-	
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 3	1	ISY5201	SEMINAR	Elective	2	0	0	2	-	100	-	-	-	-
	2	ISY5203	Latest Research in information technology		2	2	0	0	20	0	30	50	-	-
	3	ISY5205	Optimization tools		2	2	0	0	20	0	30	50	-	-
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 4	1	ISY5402	Advanced operating system	Elective	4	3	0	2	15	25	20	40	-	-
	2	ISY5404	Cloud computing and virtualization		4	3	0	2	15	25	20	40	-	-
	3	ISY5406	Foundation of information theory and coding		4	3	0	2	15	25	20	40	-	-

	4	ISY5408	Internet security and privacy		4	3	0	2	15	25	20	40	-	
	5	ISY5410	Machine learning		4	3	0	2	15	25	20	40	-	
	6	ISY5412	Mobile application		4	3	0	2	15	25	20	40	-	
	7	ISY5414	Semantic web		4	3	0	2	15	25	20	40	-	
	8	ISY5416	Smart sensing for internet of things		4	3	0	2	15	25	20	40	-	
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective 5	1	ISY5302	MINOR PROJECT	Elective	3	0	0	-	-	40	-	-	60	
	2	ISY5304	Advanced computer vision		3	3	0	0	20	0	30	50	-	
	3	ISY5306	ADhoc wireless network		3	3	0	0	20	0	30	50	-	
	4	ISY5308	Advanced topic in mobile computing		3	3	0	0	20	0	30	50	-	
	5	ISY5310	Applied cryptography		3	3	0	0	20	0	30	50	-	
	6	ISY5312	Collaborative filtering		3	3	0	0	20	0	30	50	-	
	7	ISY5314	Cyber security and law		3	3	0	0	20	0	30	50	-	
	8	ISY5316	Deep learning		3	2	0	2	15	25	20	40	-	
	9	ISY5318	Digital watermarking and Steganalysis		3	3	0	0	20	0	30	50	-	
	10	ISY5320	Distributed Data Mining		3	3	0	0	20	0	30	50	-	
	11	ISY5322	Graph Theory		3	3	0	0	20	0	30	50	-	
	12	ISY5324	Network anonymity and privacy		3	3	0	0	20	0	30	50	-	
	13	ISY5326	Topics in computer security		3	3	0	0	20	0	30	50	-	
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	
Elective	1	ISY5202	Research problem formulation	Elective	2	0	0	4	-	30	-	-	70	
	2	ISY5204	Laboratory on advanced topics		2	0	0	4	-	30	-	-	70	

	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 7	1	ISY6401	Biometrics Systems	Elective	4	3	0	2	15	25	20	40	-
	2	ISY6403	Natural Language Processing		4	3	0	2	15	25	20	40	-
	3	ISY6405	Network security		4	3	0	2	15	25	20	40	-
	4	ISY6407	Robotics		4	3	0	2	15	25	20	40	-
	5	ISY6409	Ethical Hacking		4	3	0	2	15	25	20	40	-
	6	ISY6411	Secure Coding		4	3	0	2	15	25	20	40	-
	7	ISY6413	Mobile Computing.		4	3	0	2	15	25	20	40	-
	S.No	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 8	1	ISY6301	Bioinformatics	Elective	3	3	0	0	20	0	30	50	-
	2	ISY6303	Data Mining		3	3	0	0	20	0	30	50	-
	3	ISY6305	Data Warehousing		3	3	0	0	20	0	30	50	-
	4	ISY6307	Dev-Ops		3	3	0	0	20	0	30	50	-
	5	ISY6309	Evolutionary computing		3	3	0	0	20	0	30	50	-
	6	ISY6311	GPU computing		3	3	0	0	20	0	30	50	-
	7	ISY6313	Information Retrieval		3	2	0	2	15	25	20	40	-
	8	ISY6315	Intelligent system and interface		3	2	0	2	15	25	20	40	-
	9	ISY6317	Introduction to cognitive science		3	3	0	0	15	25	20	40	-
	10	ISY6319	Introduction to spatial computing		3	2	0	2	15	25	20	40	-
	11	ISY6321	Malware Analysis		3	2	0	2	15	25	20	40	-
	12	ISY6323	Real time operating system		3	2	0	2	15	25	20	40	-
	13	ISY6325	Soft computing		3	3	0	0	20	0	30	50	-
	14	ISY6327	Statistical machine learning		3	2	0	2	15	25	20	40	-
	15	ISY6329	Web intelligence and big data analytics		3	3	0	0	20	0	30	50	-
	16	ISY6331	Quantum computing		3	3	0	0	20	0	30	50	-

	17	ISY6333	Intrusion detection and prevention		3	3	0	0	20	0	30	50	-
	S.No		Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 9	18	ISY6201	Open Area Research Seminar	Elective	2	0	0	2	-	100	-	-	-