

**DEPARTMENT OF INFORMATION TECHNOLOGY  
MTECH 2021-2022 SCHEME**

<b>I M.TECH. INFORMATION TECHNOLOGY</b>												
<b>SEMESTER - I</b>												
S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	<b>MA78011</b>	Mathematical Foundation of Computer Science	3	-	-	3	-	70	30	-	-	100
1	<b>IT78012</b>	Advanced Data Structure	3	-	-	3	-	70	30	-	-	100
2	<b>IT78013</b>	Advanced Computer Networks	3	-	-	3	-	70	30	-	-	100
3		Elective I	3	-	-	3	-	70	30	-	-	100
4		Elective II	3	-	-	3	-	70	30	-	-	100
6	<b>IT78453</b>	Laboratory. – I	-	-	4	-	2	-	-	40	60	100
7	<b>IT78454</b>	Laboratory. – II	-	-	4	-	2	-	-	40	60	100
8	<b>IT78499</b>	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
<b>Total</b>			15	0	8	15	4	350	150	80	120	700

<b>SEMESTER - II</b>												
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>	<b>Hours per Week</b>			<b>Th. Credit</b>	<b>Pr. Credit</b>	<b>Maximum Marks</b>				
			<b>L</b>	<b>T</b>	<b>P</b>			<b>TH</b>	<b>CW</b>	<b>SW</b>	<b>Pr.</b>	<b>Total</b>
1	<b>IT78511</b>	Advanced Algorithms	3	-	-	3	-	70	30	-	-	100
2	<b>IT78512</b>	Soft Computing	3	-	-	3	-	70	30	-	-	100
3		Elective III	3	-	-	3	-	70	30	-	-	100
4		Elective IV	3	-	-	3	-	70	30	-	-	100
5		Elective V	3	-	-	3	-	70	30	-	-	100
6	<b>IT78853</b>	Laboratory. – III	-	-	4	-	2	-	-	40	60	100
7	<b>IT78854</b>	Laboratory. – IV	-	-	4	-	2	-	-	40	60	100
8	<b>IT78882</b>	Seminar	-	-	2	-	1	-	-	100	-	100
9	<b>IT78899</b>	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
<b>Total</b>			15	0	10	15	5	350	150	180	120	800

**List of Electives**

<b>Elective I</b>		<b>Semester I</b>
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>
1	<b>IT78212</b>	Advanced Databases
2	<b>IT78211</b>	Cloud Computing
3	<b>IT78213</b>	Data Encryption and Compression
4	<b>IT78214</b>	Artificial Intelligence
<b>Elective II</b>		<b>Semester I</b>
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>
1	<b>IT78311</b>	Data Mining and Data Warehousing
2	<b>IT78312</b>	Internet and Web Technology
3	<b>IT78313</b>	Digital Forensics

<b>Elective III</b>		<b>Semester II</b>
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>
1	<b>IT78711</b>	Big Data Analytics
2	<b>IT78712</b>	Wireless Networks
3	<b>IT78713</b>	Secure Coding
<b>Elective IV</b>		<b>Semester II</b>
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>
1	<b>IT78761</b>	Machine Learning
2	<b>IT78762</b>	Cyber Security and IT Laws
3	<b>IT78763</b>	Information Retrieval
<b>Elective V</b>		<b>Semester II</b>
<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>
1	<b>IT78781</b>	Internet of Things
2	<b>IT78782</b>	Stenography and Digital Watermarking
3	<b>IT78783</b>	Human Computer Interaction