

M.Tech. Information Technology (Scheme-2019)

Semester – 1st

Sr. No.	Category	Subject Code	Subject	Subject Type	Load per week			Marks Distribution			Credits
					L	T	P	Internal	External	Total	
1.	Programme Core	MIT-101	Digital Image Processing	Theory	3	0	0	50	100	150	3
2.	Programme Core	MIT-102	Soft Computing	Theory	3	0	0	50	100	150	3
3.	Programme Elective	MIT-XXX	Elective I	Theory	3	0	0	50	100	150	3
4.	Programme Elective	MIT-XXX	Elective II	Theory	3	0	0	50	100	150	3
5.	Programme Core	MRM-101	Research Methodology and IPR	Theory	3	0	0	50	100	150	3
6.	Audit Course	MAC-XXX	Audit Course*	Theory	2	0	0	50	0	50	S/US
7.	Programme Core	LMIT-101	Digital Image Processing Laboratory	Practical	0	0	4	50	50	100	2
8.	Programme Elective	LMIT-XXX	Elective –I Laboratory	Practical	0	0	2	50	50	100	1
9.	Programme Elective	LMIT-XXX	Elective –II Laboratory	Practical	0	0	2	50	50	100	1
Total					17	0	8	450	650	1100	19
TOTAL Contact Hours: 25											

* Audit Course has internal evaluation only. S/US is satisfactory and unsatisfactory.

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Semester – 2nd

Sr. No.	Category	Subject Code	Subject	Subject Type	Scheme of studies per week			Marks Distribution			Credits
					L	T	P	Internal	External	Total	
1.	Programme Core	MIT-109	Digital Forensics	Theory	3	0	0	50	100	150	3
2.	Programme Core	MIT-110	Advanced Data Structures	Theory	3	0	0	50	100	150	3
3.	Programme Elective	MIT-XXX	Elective III	Theory	3	0	0	50	100	150	3
4.	Programme Elective	MIT-XXX	Elective IV	Theory	3	0	0	50	100	150	3
5	Audit Course	MAC-XXX	Audit Course*	Theory	2	0	0	50	0	50	S/US
6.	Programme Core	LMIT-109	Digital Forensics Laboratory	Practical	0	0	2	50	50	100	1
7.	Programme Core	LMIT-110	Advanced Data Structures	Practical	0	0	2	50	50	100	1
8.	Programme Elective	LMIT-XXX	Elective –III Laboratory	Practical	0	0	2	50	50	100	1
9.	Programme Elective	LMIT-XXX	Elective –IV Laboratory	Practical	0	0	2	50	50	100	1
10.	Programme Core	LMPIT-101	Project	Practical	0	0	4	50	50	100	2
Total					14	0	12	500	650	1150	18
TOTAL Contact Hours: 26											

NOTE: Students will undergo internship of 4 weeks after 2nd semester in reputed institute /research organization.

*** Audit Course has internal evaluation only. S/US is satisfactory and unsatisfactory.**

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Semester – 3rd

Sr. No.	Category	Subject Code	Subject	Subject Type	Scheme of studies per week			Marks Distribution			Credits
					L	T	P	Internal	External	Total	
1.	Programme Elective	MIT-XXX	Elective V	Theory	3	0	0	50	100	150	3
2.	Open Elective	MOIT-XXX	Open Elective	Theory	3	0	0	50	100	150	3
3.	Audit Course	MAC-XXX	Audit Course	Theory	2	0	0	50	0	50	0
4.	Programme Core	MPTIT-101	Pre Thesis	Practical	0	0	20 (2#+18*)	100	100	200	10
5	Programme Elective	LMIT-XXX	Elective V Laboratory	Practical	0	0	2	50	50	100	1
6.			Research Internship ^{\$}	Practical	0	0	0	50	0	50	S/US
Total					8	0	4	350	350	700	17
TOTAL Contact Hours: 12											

\$ Evaluation of Research Internship will be done by Department Research Committee

Max. Hours for Teacher

*Independent Study Hours

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Semester – 4th

Sr. No.	Category	Subject Code	Subject	Subject Type	Scheme of studies per week			Marks Distribution			Credits	
					L	T	P	Internal	External	Total		
1.	Programme Core	MTIT-101	Thesis	Practical	0	0	32 (4#+28*)	100	200	300	16	
			Total		0	0	4	100	200	300	16	
			TOTAL Contact Hours: 4									16

Max. Hours for Teacher

*Independent Study Hours

List of Electives:

Elective-I

1. MIT-103 Introduction to Bioinformatics
2. LMIT-103 Introduction to Bioinformatics Laboratory
3. MIT-104 Data warehousing and Data Mining
4. LMIT-104 Data warehousing and Data Mining Laboratory
5. MIT-105 Recommender System
6. LMIT-105 Recommender System Laboratory

Elective-II

1. MIT-106 Machine Learning
2. LMIT-106 Machine Learning Laboratory
3. MIT-107 Applied Data Science with Python
4. LMIT-107 Applied Data Science with Python Laboratory
5. MIT -108 Introduction to Internet of Things
6. LMIT -108 Introduction to Internet of Things Laboratory

Elective-III

1. MIT-113 Advanced Bioinformatics
2. LMIT-113 Advanced Bioinformatics Laboratory
3. MIT-114 Data Analytics
4. LMIT-114 Data Analytics Laboratory
5. MIT-115 Social Networking
6. LMIT-115 Social Networking Laboratory

Elective-IV

1. MIT-116 Machine Learning-II
2. LMIT-116 Machine Learning-II Laboratory
3. MIT-117 Parallel and Distributed Computing
4. LMIT-117 Parallel and Distributed Computing Laboratory
5. MIT -118 Components and Applications of IOT
6. LMIT -118 Components and Applications of IOT Laboratory

Elective-V

1. MIT-119 Health Informatics
2. LMIT-119 Health Informatics Laboratory
3. MIT-120 Cloud Computing
4. LMIT- 120 Cloud Computing Laboratory
5. MIT-121 Applications of Data Science
6. LMIT- 121 Applications of Data Science Laboratory

List of Audit Courses

1. MAC-101 English for Research Paper Writing
2. MAC-102 Pedagogy Studies
3. MAC-103 Stress Management by Yoga
4. MAC-104 Constitution of India
5. MAC-105 Value Education
6. MAC-106 Disaster Management
7. MAC-107 Personality Development through Life Management Skills

Open Elective (to be offered to other departments)

1. MOIT- 301 Introduction to Python Programming
2. MOIT- 302 Data Structures
3. MOIT- 303 Database Management System