

**M.Tech. Information Technology (Scheme-2019)**

**Semester – 1<sup>st</sup>**

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
<b>Total</b>					<b>17</b>	<b>0</b>	<b>8</b>	<b>450</b>	<b>650</b>	<b>1100</b>	<b>19</b>
<b>TOTAL Contact Hours: 25</b>											

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

## M.Tech. Information Technology (Scheme-2019)

### Semester – 2<sup>nd</sup>

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	Advance 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	Advance 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
<b>Total</b>					14	0	12	500	650	1150	18
<b>TOTAL Contact Hours: 26</b>											

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

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

**M.Tech. Information Technology (Scheme-2019)**

**Semester – 3<sup>rd</sup>**

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.		RIT-101	Research Internship <sup>\$</sup>	Practical	0	0	0	50	0	50	S/US
<b>Total</b>					8	0	4	350	350	700	17
<b>TOTAL Contact Hours: 12</b>											

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

# Max. Hours for Teacher

\*Independent Study Hours

## M.Tech. Information Technology (Scheme-2019)

Semester – 4<sup>th</sup>

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
<b>Total</b>					0	0	4	100	200	300	16
<b>TOTAL Contact Hours: 4</b>											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 Disaster Management
3. MAC-103 Sanskrit for Technical Knowledge
4. MAC-104 Value Education
5. MAC-105 Constitution of India
6. MAC-106 Pedagogy Studies
7. MAC-107 Stress Management by Yoga
8. MAC-108 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