

## M. Tech. (Electronics and Communication Engineering)

### Curriculum Structure - 2019 Batch onwards

<b>Semester-1<sup>st</sup></b>										
S. No.	Course Type	Course Code	Course Title	Hours per week			Marks			Credits
				L	T	P	Int. Marks	Ext. Marks	Total Marks	
1	Core-1	MEC-101	Modern Communication Systems	3	0	0	50	100	150	3
2	Core-2	MEC-102	VLSI Physical Design and Automation	3	0	0	50	100	150	3
3	Program Elective		Elective-1 (Any one)	3	0	0	50	100	150	3
		MEC-103	[1] Modelling and Simulation of Communication Systems							
		MEC-104	[2] Semiconductor Devices Theory and Modelling							
		MEC-105	[3] Soft Computing							
4	Program Elective		Elective-2 (Any one)	3	0	0	50	100	150	3
		MEC-106	[1] Antennas and Radiating Systems							
		MEC-107	[2] Computer Communication and Network Security							
		MEC-108	[3] Advanced Embedded System Design							
5	Lab-1	LMEC-101	Modern Communication Systems - Lab	0	0	4	50	50	100	2
6	Lab-2	LMEC-102	VLSI Physical Design and Automation - Lab	0	0	4	50	50	100	2
7	MLC	MRM-101	Research Methodology and IPR	3	0	0	50	100	150	3
8	Aud-1	MAC-XXX	Audit Course-1	2	0	0	50	0	50	S/US
<b>Total</b>				<b>17</b>	<b>0</b>	<b>8</b>	<b>400</b>	<b>600</b>	<b>1000</b>	<b>19</b>

**Semester-2<sup>nd</sup>**

S. No.	Course Type	Course Code	Course Title	Hours per week			Marks			Credits
				L	T	P	Int. Marks	Ext. Marks	Total Marks	
1	Core-3	MEC-109	Advanced Digital Signal Processing	3	0	0	50	100	150	3
2	Core-4	MEC-110	Advanced Optical Communication Systems	3	0	0	50	100	150	3
3	Program Elective		Elective-3 (Any one)	3	0	0	50	100	150	3
		MEC-111	[1] Advanced Digital System Design							
		MEC-112	[2] Advanced Wireless and Mobile Communication							
		MEC-113	[3] Engineering Design and Project Management							
4	Program Elective		Elective-4 (Any one)	3	0	0	50	100	150	3
		MEC-114	[1] Advanced Microwave Engineering							
		MEC-115	[2] Internet of Things							
		MEC-116	[3] Biomedical Electronics							
5	Lab-3	LMEC-103	Advanced Digital Signal Processing - Lab	0	0	4	50	50	100	2
6	Lab-4	LMEC-104	Advanced Optical Communication Systems - Lab	0	0	4	50	50	100	2
7	Core	LMPEC-101	Project	0	0	4	50	50	100	2
8	Aud-2	MAC-XXX	Audit Course-2	2	0	0	50	0	50	S/US
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>400</b>	<b>550</b>	<b>950</b>	<b>18</b>

### Semester-3<sup>rd</sup>

S. No.	Course Type	Course Code	Course Title	Hours per week			Marks			Credits
				L	T	P	Int. Marks	Ext. Marks	Total Marks	
1	Program Elective		Elective-5 (Any one)	3	0	0	50	100	150	3
		MEC-117	[1] Machine Learning							
		MEC-118	[2] Advanced Wireless Sensor Networks							
		MEC-119	[3] Multimedia Communication							
	MEC-120	[4] Low Power VLSI Design								
2	Open Elective	MOZZ-XXX	^Open Elective	3	0	0	50	100	150	3
3	Dissertation	MPTEC-101	Pre-Thesis	0	0	#2+*18	100	100	200	10
<b>Total</b>				<b>6</b>	<b>0</b>	<b>20</b>	<b>200</b>	<b>300</b>	<b>500</b>	<b>16</b>

^ - Open Elective for ECE students will be offered by other departments; # - Maximum hours for teacher; \* - Independent study hours

### Semester-4<sup>th</sup>

S. No.	Course Type	Course Code	Course Title	Hours per week			Marks			Credits
				L	T	P	Int. Marks	Ext. Marks	Total Marks	
1	Dissertation	MTEC-101	Thesis	0	0	#4+*28	100	200	300	16
<b>Total</b>				<b>0</b>	<b>0</b>	<b>32</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>16</b>

# - Maximum hours for teacher; \* - Independent study hours

### List of Audit Courses

Sr. No.	Course Code	Course Title
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 Enlightenment Skills

### List of Open Elective Subjects offered to Other Departments

Sr. No.	Course Code	Course Title
1	MOEC-101	Probability and Stochastic Processes
2	MOEC-102	Microelectromechanical Systems
3	MOEC-103	Bio Signal Processing
4	MOEC-104	Engineering Design and Project Management
5	MOEC-105	E-Waste Management