



## **Syllabus and Scheme**

**of**

**Master of Technology (M.Tech)**

**(Electronics and Communication Engineering)**

**(MODULAR)**

## DETAILED SYLLABUS AND OTHER CONDITIONS FOR THE M.TECH (ELECTRONICS & COMMUNICATION ENGINEERING)

### Schedule of Teaching

#### Even Semester:

Lecture	Tutorials	Lab	Total (per week)
8	0	0	8

#### Odd Semester:

Lecture	Tutorials	Lab	Total (per week)
8	0	4	12

### Schedule of Examination

#### SEMESTER-I

	Credits
PAS-101 Advanced Mathematics for Engineers	4
PEC-102 Embedded System Design	4
PEC-103 Embedded System Design Lab	2

#### SEMESTER-II

PEC-110 Digital Image Processing	4
PEC-111 Data Communication Networks	4
PMG-101 Research methodology	4

#### SEMESTER-III

PEC-201 Wireless and Mobile Communication	4
PEC-202 Neural Networks & Fuzzy Logic	4
PEC-203 Wireless and Mobile Communication Lab	2

#### SEMESTER-IV

PEC-210 VLSI System Design	4
PEC-211 Optical fiber Communication	4
PEC-212 Pre-Thesis/Seminar	4
PEC-XXX Elective	4

#### SEMESTER-V

PEC-301 Thesis	12
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### LIST OF ELECTIVES

#### ELECTIVE

- PEC-213 Microelectronics Technology
- PEC-214 Microwave and Antenna Theory
- PEC-215 Nano -Technology
- PEC-216 Multimedia Communication Systems
- PMG-217 Total Quality management
- PEC-218 Information Theory and Coding

## SCHEME M.TECH (E.C.E.) MODULAR

Code No	Course of Study	Hours				Credits
		L	T	P	Total	
<b>SEMESTER I</b>						
Core Courses of Study						
PAS-101	Advanced Mathematics for Engineers	8	–	–	8	4
PEC-102	Embedded System Design	8	–	–	8	4
PEC- 103	Embedded System Design Lab		–	2	4	2
<b>SEMESTER II</b>						
Core Courses of Study						
PEC-110	Digital Image Processing	8	–	–	8	4
PEC-111	Data Communication Networks	8	–	–	8	4
PMG-101	Research methodology	8	–	–	8	4
<b>SEMESTER III</b>						
Core Courses of Study						
PEC- 201	Wireless and Mobile Communication	8	–	–	8	4
PEC- 202	Neural Network and Fuzzy Logic	8	–	–	8	4
PEC-203	Wireless and Mobile Communication Lab	–	–	2	4	2
<b>SEMESTER IV</b>						
Core Courses of Study						
PEC- 210	VLSI System Design	8	–	–	8	4
PEC- 211	Optical fiber Communication	8	–	–	8	4
PEC-212	Pre-Thesis/Seminar	–	–	–	4	4
PEC-XXX	Elective	8	–	–	8	4
<b>SEMESTER V</b>						
Core Courses of Study						
PEC-301	Thesis	–	–	–	15	12