

Master of Technology
(Electronics and Communication Engg.)
Scheme of Courses/Examination
(1st Semester)

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Durat of Exam. (Hours)	Cr.
			L	T	P/D	Tot	Th	Sess	P/V V	Tot		
1.	MTEC-101	Mathematical Models for Internet	3	1	-	4	60	40	-	100	3	3.5
2.	MTEC-102	Digital Signal Processing	3	1	-	4	60	40	-	100	3	3.5
3.	MTEC-103	Digital Communication Systems	3	1	-	4	60	40	-	100	3	3.5
4.	MTEC-104	Wireless Mobile Communications	3	1	-	4	60	40	-	100	3	3.5
5.		Elective-I	3	1	-	4	60	40	-	100	3	3.5
6.	MTEC-110	Communication Lab	-	-	3	3	-	60	40	100	3	1.5
7.	MTEC-111	Programming Lab	-	-	3	3	-	60	40	100	3	1.5
						26	300	320	80	700		20.5

ELECTIVE I

1. MTEC-106 Statistical Models
2. MTEC-107 Reliability Engineering
3. MTEC-108 Computational Methods
4. MTEC-109 Neuro Fuzzy Systems

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Scheme of Courses/Examination
(2nd Semester)

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Durat of Exam. (Hours)	Cr.
			L	T	P/D	Tot	Th	Ses s	P/V V	Tot		
1.	MTEC-201	Telecommunication Networks	3	1	-	4	60	40	-	100	3	3.5
2.	MTEC-202	Optical Communication	3	1	-	4	60	40	-	100	3	3.5
3.	MTEC-203	Modelling and Simulation	3	1	-	4	60	40	-	100	3	3.5
4.		Elective-II	3	1	-	4	60	40	-	100	3	3.5
5.	MTEC-209	Simulation Lab.	-	-	3	3	-	60	40	100	3	1.5
6.	MTEC-210	Minor Project	-	-	4	4	-	60	40	100		6.0
			-	-	-	23	240	380	80	600	-	21.5

ELECTIVE II

1. MTEC-205 Multimedia Systems
2. MTEC-206 Satellite & Space Communications
3. MTEC-207 Digital signal processors & Applications
4. MTEC-208 Recent Trends in TV Technology.

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Scheme of Courses/Examination
(3rd Semester)

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Durat.of Exam. (Hours)	Cr.
			L	T	P/D	Tot	Th	Ses	P/V V	Tot		
1.	MTEC-301	Security Engineering	3	1	-	4	60	40	-	100	3	3.5
2.		Elective-III	3	1	-	4	60	40	-	100	3	3.5
3.		Elective-IV	3	1	-	4	60	40	-	100	3	3.5
4.	MTEC-304	Seminar & term paper		2	-	2	-	100	-	100	-	1.0
5.	MTEC-311	Data Networks Lab.	-	-	3	3	-	60	40	100	3	1.5
6.	MTEC-312	Hardware Project	-	-	6	6	-	60	40	100	3	9.0
			-	-	-	23	180	340	80	600	-	22.0

ELECTIVE III

1. MTEC-305 Emerging Network Technologies
2. MTEC-306 CDMA Systems
3. MTEC-307 Advanced Digital Communication Techniques

ELECTIVE IV

1. MTEC-308 Object Oriented Programming
2. MTEC-309 RADAR Systems
1. MTEC-310 Image Processing

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Scheme of Courses/Examination
(4th Semester)

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Durat.of Exam. (Hours)	Cr.
			L	T	P/D	Tot	Th	Sess	P/VV	Tot		
1.		Dissertation	-	-	-	-	-	-	S/us	-	-	-

Scheme for M.Tech (VLSI Design)

First Semester				
Sl. No.	Course No.	Subject	L-T-P	Credits
1	MTEC-121	Digital IC Design	3-1-0	3.5
2	MTEC-122	Analog IC Design	3-1-0	3.5
3	MTEC-123	Hardware Description Languages and FPGA based Design	3-1-0	3.5
4	MTEC-124	Modeling of Semiconductor Devices	3-1-0	3.5
5	MTEC-101	Mathematical Models for Internet	3-1-0	3.5
6	MTEC-125	Digital design Lab	0-0-3	1.5
7	MTEC-126	Analog Design Lab	0-0-3	1.5
			Total Credits = 20.5	
Second Semester				
Sl. No.	Course No.	Subject	L-T-P	Credits
1	MTEC-221	Embedded System Design	3-1-0	3.5
2	MTEC-222	DSP and ASIP Architectures	3-1-0	3.5
3		Elective-I	3-1-0	3.5
4		Elective-II	3-1-0	3.5
5	MTEC-228	Advance Design Lab-I	0-0-4	2
6	MTEC-229	Advance Design Lab-II	0-0-4	2
			Total Credits = 18	
Third Semester				
Sl. No.	Course No.	Subject	L-T-P	Credits
1	MTEC-321	Research Methodology	3-1-0	3.5
2	MTEC-322	Seminar	0-2-0	1
3		Elective-III	3-1-0	3.5
4	MTEC-301	Security Engineering	3-1-0	3.5
5	MTEC-325	Dissertation	0-0-10	10
			Total Credits = 21.5	
Fourth Semester				
Sl. No.	Course No.	Subject	L-T-P	Credits
1	MTEC-325	Dissertation-(continued)	0-0-0	S/US

Total Credits = 20

List of Electives

Sl. No.	Course No.	Subject	L-T-P	Credits
ELECTIVE-I				
1	MTEC-223	Integrated Electronic System Design	3-1-0	3.5
2	MTEC-224	Low-Power VLSI Design	3-1-0	3.5
3	MTEC-225	Nano-Technology	3-1-0	3.5
ELECTIVE-II				
4	MTEC-226	RF Microelectronics	3-1-0	3.5
5	MTEC-227	Mixed Signal IC Design	3-1-0	3.5
6	MTEC-205	Multimedia Systems	3-1-0	3.5
ELECTIVE-III				
7	MTEC-323	Memory Design and Testing	3-1-0	3.5
8	MTEC-324	Advance Digital Signal Processing	3-1-0	3.5
9	MTEC-306	CDMA Systems	3-1-0	3.5