



Established by Govt. of U.P. u/s 2F of UGC Act, 1956 vide U.P. Act 22 of 2010.

**Scheme of Instruction & Syllabi  
Of  
MASTER OF TECHNOLOGY  
IN  
ELECTRONICS AND COMMUNICATION  
ENGINEERING**

(Effective From 2016-2017)

(Mr. Chandan Gupta)  
HOD, ECE

(Dr. R.K. Shukla)  
Dean (Academics)

(Dr. YDS Arya)  
Pro- Vice-Chancellor

(Prof. Jagdish Rai)  
Vice Chancellor

**Invertis Institute of Engineering & Technology  
INVERTIS UNIVERSITY  
Invertis Village, Bareilly-Lucknow NH-24, Bareilly**



**STUDY & EVALUATION SCHEME**  
**M.Tech. in Electronics & Communication Engineering**  
**[Effective from the academic year 2016-2017]**

**YEAR I, SEMESTER-I**

S.No.	Course Code	Subjects	Periods			Evaluation Scheme				Subject Total	Credits
						Sessional Marks			End Sem.		
			L	T	P	CT	TA	Sub. Total			
1	MEC-101	Advanced Digital Signal Processing	3	1	0	20	10	30	70	100	4
2	MEC-102	Satellite Communication & Navigation Systems	3	1	0	20	10	30	70	100	4
3	MEC-103	Advanced Microwave Antennas	3	1	0	20	10	30	70	100	4
4	MEC-104	Information and Coding Theory	3	1	0	20	10	30	70	100	4
5	MEC-105	Microprocessor and Engineering Applications	3	1	0	20	10	30	70	100	4
6	MEC-151	Signal Processing & Microprocessor Lab	0	0	2	-	-	10	15	25	1
7	MEC-152	Pre-Assigned Project & Colloquium-I	0	2	0	-	-	25	-	25	1
<b>TOTAL</b>			15	7	2	100	100	200	350	550	22

**YEAR I, SEMESTER-II**

S.No.	Course Code	Subjects <sup>0</sup>	Periods			Evaluation Scheme				Subject Total	Credits
						Sessional Marks			End Sem.		
			L	T	P	CT	TA	Sub. Total			
1	MEC-201	Image Processing	3	1	0	20	10	30	70	100	4
2	MEC-202	Biomedical Signal Processing	3	1	0	20	10	30	70	100	4
3	MEC-203	Wireless Communication and Data Networks	3	1	0	20	10	30	70	100	4
4		Elective –I	3	1	0	20	10	30	70	100	4
5		Elective –II	3	1	0	20	10	30	70	100	4
6	MEC-251	Image processing Lab	0	0	2	-	20	20	30	50	2
<b>TOTAL</b>			15	7	0	100	100	200	350	550	22

**YEAR II, SEMESTER-III**

S.No.	Course Code	Subjects	Periods			Evaluation Scheme				Subject Total	Credits
						Sessional Marks			End Sem.		
			L	T	P	CT	TA	Sub. Total			
1		Elective –III	3	1	0	20	10	30	70	100	4
2		Elective –IV	3	1	0	20	10	30	70	100	4
3	MEC-351	Colloquium & Research Review Paper-III	0	2	0	-	50	50	-	50	2
4	MEC-352	Preliminary Thesis	0	8	0	-	200	200	-	200	8
<b>TOTAL</b>			6	12	0	40	270	310	140	450	18

**YEAR II, SEMESTER-IV**

S.No.	Course Code	Subjects	Periods			Evaluation Scheme				Subject Total	Credits
						Sessional Marks			End Sem.		
			L	T	P	CT	TA	Sub. Total			
1	MEC-451	Thesis Work	0	16	0	-	100	100	300	400	16
<b>TOTAL</b>			0	16	0	-	100	100	300	400	16



## **LIST OF ELECTIVE SUBJECTS**

### **ELECTIVE-I**

MEC-111-High Speed Devices & Circuits  
MEC-112-CMOS Circuit and VLSI Design  
MEC-113-Digital Communication Systems & Design  
MEC-114-Wireless AD-HOC Networks

### **ELECTIVE-II**

MEC-211- Nano Technology  
MEC-212- Advanced Optical Fiber Communication  
MEC-213- Cloud Computing  
MEC-214- Microwave Theory

### **ELECTIVE-III**

MEC-311- Neural Networks and Fuzzy Logic  
MEC-312-Reliability of Electronics & Communication Systems  
MEC-313-Opto-Electronic Devices & Sensors  
MEC-314- Advanced Communication Networks

### **ELECTIVE-IV**

MEC-321- Wireless Sensor Networks& Internet of Things (WSN &IoT)  
MEC-322-Microwave Integrated Circuits  
MEC-323- Low Power VLSI Design  
MEC-324-Mobile Computing Technology