

## **ECE - B. Tech. (Hons.) – M. Tech. Dual Degree**

**Total credit = 222**

### **Semester I**

PHY 101	Physics I	4	
MTH 102	Mathematics I	4	
ECE 103	Electronics I	5	
CSE 104	Computer Programming	5	
ENG 105	English	5	23

### **Semester II**

PHY 107	Physics II	4	
MTH 108	Mathematics II	4	
ECE 109	Electronics II	5	
CSE 110	IT Workshop	3	
PHY 111	Environment and Ecology	3	
PHY112	Physics Lab	2	21

### **Semester III**

MTH213	Mathematics-III	4	
ECE214	Digital Circuits and Systems	4	
ECE216	Semiconductor Devices and Circuits	4	
	Sciences Elective-I	4	
	HSS- Elective- I	4	
ECE215	ECE – I Lab	2	22
	(Digital Circuits and systems)		

**Semester IV**

ECE219	Signals, Systems and Control	4	
ECE220	Principles of communication	4	
MTH221	Probability Theory and Stochastic Processes	4	
	HSS Elective-II	4	
	Program Elective-I	4	
ECE223	ECE – II Lab	2	22
	(Analog Communication and Signal Processing)		

**Semester V**

ECE325	Digital Communication	4	
ECE326	Digital Signal Processing	4	
	Program Elective-II	4	
	HSS Elective-III	4	
ECE327	Control System Engineering	4	
ECE328	ECE – III Lab	2	
	(Digital Communication and Digital Signal Processing)		
	Open Elective- I	4	26

**Semester VI**

ECE331	Microprocessors and Interfaces	4	
CSE332	Computer Networks	4	
CSE333	Computer Networks Lab	2	
ECE332	Engineering Electromagnetics	4	
	Open Elective-II	4	
	HSS Elective-IV	4	
ECE333	ECE – IV Lab	2	24
	(Microwave and Optical Communication)		

**Semester VII**

	Program Elective-III	4		
	Program Elective-IV	4		
	HSS Elective-V	4		
	Science Elective-II	4		
	Open Elective-III	4		
ECE509	M Tech Project - I	4	24	

**Semester VIII**

	Program Elective- V	4		
	PG Program Elective-I	4		
	PG Program Elective-II	4		
	Open Elective-IV	4		
	Open Elective-V	4		
ECE510	M Tech Project - II	4	24	

**Semester IX**

	PG Program Elective-III	4		
	PG Program Elective- IV	4		
ECE511	M Tech Project - III		12	20

**Semester X**

ECE512	M Tech Project - IV	16	16	
--------	---------------------	----	----	--