

## B. TECH ELECTRONICS & COMMUNICATION ENGINEERING 2015-16

<b>1<sup>ST</sup> SEMESTER</b>						
S. No.	Subject Code	Name of the Subjects	Contact Hours			Credits
			L	T	P	
1	10B11PD111	Presentation & Communication Skill	3	0	0	3
2	10B11MA111	Mathematics-I	3	1	0	4
3	10B11PH111	Physics-I	3	1	0	4
4	10B11EC111	Electrical Circuit Analysis	3	1	0	4
5	10B11CI111	Introduction to Computer and Programming	3	1	0	4
6	10B17PH171	Physics Lab-I	0	0	2	1
7	10B17EC171	Electrical Circuits Lab	0	0	2	1
8	10B17CI171	Computer Programming Lab	0	0	4	2
9	10B19GE199	Institutional Orientation	0	0	0	0
					Total	<b>23</b>
<b>2<sup>ND</sup> SEMESTER</b>						
S. No.	Subject Code	Subject Names	Contact Hours			Credits
			L	T	P	
1	10B11EC211	Basic Electronics & Device Circuits	3	1	0	4
2	10B11PD211	Group and Cooperative Processes	3	0	0	3
3	10B11MA211	Discrete Mathematics	3	1	0	4
4	10B11PH211	Physics-II	3	1	0	4
5	10B11CI211	Data Structures	3	1	0	4
6	10B17EC271	Basic Electronics Lab	0	0	2	1
7	10B17PH271	Physics Lab-II	0	0	2	1
8	10B17CI271	Data Structures and Computer Prog. Lab	0	0	4	2
9	10B19EC299	Departmental Orientation	0	0	0	0
					Total	<b>23</b>
<b>3<sup>RD</sup> SEMESTER</b>						
S. No.	Subject Code	Name of the Subjects	Contact Hours			Credits
			L	T	P	
1	10B11PD311	Managerial Economics	3	0	0	3
2	10B11MA201	Mathematics-II	3	1	0	4
3	10B11EC311	Electrical Machines and Instruments	3	1	0	4
4	10B11EC301	Signals & Systems	3	1	0	4
5	10B11EC312	Analogue Electronics	3	1	0	4
6	10B17EC371	Electrical Machines and Instruments Lab	0	0	2	1
7	10B17EC307	Signals and Systems Lab	0	0	2	1
8	10B17EC372	Analogues Electronics Lab	0	0	2	1
9	10B28CI408	Multimedia Development Lab-I	0	0	2	1
					Total	<b>23</b>

4 <sup>TH</sup> SEMESTER						
S. No.	Subject Code	Subject Names	Contact Hours			Credits
			L	T	P	
1	10B11PD411	Financial Management	3	0	0	3
2	10B11MA411	Probability Theory and Random Processes	3	1	0	4
3	10B11EC411	Semiconductor Devices	3	1	0	4
4	10B11EC401	Digital Electronics	3	1	0	4
5	10B11EC413	Analogue Communications	3	1	0	4
6	10B11GE411	Environmental Studies	3	0	0	3
7	10B17EC471	Devices and Circuit simulation Lab	0	0	2	1
8	10B17EC407	Digital Electronics Lab	0	0	2	1
9	10B17EC473	Analogue Communications Lab	0	0	2	1
10	10B17CI307	Unix Programming Lab	0	0	2	1
					Total	<b>26</b>
5 <sup>TH</sup> SEMESTER						
S. No.	Subject Code	Name of the Subjects	Contact Hours			Credits
			L	T	P	
1	10B11PD511	Social and Legal Issues	3	0	0	3
2	10B11EC511	Digital Communications	3	1	0	4
3	10B11EC512	Digital Signal Processing	3	1	0	4
4	10B11CI401	Microprocessor and Controllers	3	1	0	4
5	10B11EC513	Electromagnetic Engineering	3	1	0	4
6	10B17EC571	Digital Communications Lab	0	0	2	1
7	10B17EC572	Digital Signal Processing Lab	0	0	2	1
8	10B17CI407	Microprocessor and Controllers Lab	0	0	2	1
9	10B17EC573	Electromagnetics Lab	0	0	2	1
10	10B1WEC515	Theory and Applications of Control System	3	1	0	4
11	10B1WEC575	Theory and App. Of Control Systems Lab	0	0	2	1
					Total	<b>28</b>
6 <sup>TH</sup> SEMESTER						
S. No.	Subject Code	Subject Names	Contact Hours			Credits
			L	T	P	
1	10B11PD611	Project Management	3	0	0	3
2	10B11EC611	Telecommunication Networks	3	1	0	4
3	10B11EC612	VLSI Technology and Applications	3	1	0	4
4	10B11PH611	Material Sciences	3	1	0	4
5	10B11CI614	Object Oriented Systems and Programming	3	1	0	4
6	11B1WEC611	Power Electronics	3	1	0	4
7	10B17EC671	Telecommunication Networks Lab	0	0	2	1
8	10B17EC672	VLSI Lab	0	0	2	1
9	10B17CI674	Object Oriented Systems and Programming Lab	0	0	4	2

10	11B1WEC671	Power Electronics Lab	0	0	2	1
11	10B19GE698	Industrial Training	0	0	0	0
					Total	<b>28</b>
<b>7<sup>TH</sup> SEMESTER</b>						
S. No.	Subject Code	Name of the Subjects	Contact Hours			Credits
			L	T	P	
1		HSS Elective-I	3	0	0	3
2	10B19EC791	Project Part-I	0	0	10	10
3	E1	DE-I [Choose Any one]	3	0	0	3
4	E2	DE-II [Choose Any one]	3	0	0	3
5	E3	DE-VI [Choose Any one/ Open departmental]	3	0	0	3
					Total	<b>22</b>
<b>8<sup>TH</sup> SEMESTER</b>						
S.No.	Subject Code	Subject Names	Contact Hours			Credits
			L	T	P	
1		HSS Elective-II	3	0	0	3
2	E1	DE-IV [Choose Any one]	3	0	0	3
3	E2	DE-V [Choose Any one]	3	0	0	3
4	E3	DE-VI [Choose Any one/ Open departmental]	3	0	0	3
5	10B19EC891	Project Part II	0	0	10	10
					Total	<b>22</b>

## LIST OF ELECTIVES

### 7<sup>TH</sup> SEMESTER

1.	10B1WEC731	Mobile Communication
2.	10B1WEC734	Fundamentals of Digital Image Processing
3.	12B1WEC732	Digital System Design
4.	13B1WEC731	CMOS Analog Circuit Design
5.	14B1WEC731	Sound Processing and its Applications
6.	14B1WEC733	Cognitive Radio Networks
7.	14B1WEC734	Non-linear and digital control systems
8.	14B1WEC735	Fundamentals of embedded systems
9.	18B1WEC732	Design of Dependable Systems
10.	15B1WEC732	RF and Microwave
11.	17B1WEC731	Time Frequency analysis and its applications
12.	18B1WEC735	Embedded system design

13.	17B1WEC733	Robotic Systems and Control
14.	18B1WEC734	Medical Image Processing
15.	10M11EC111	Advanced Communication System
16.	10M11EC112	Advanced Satellite and Fiber Optic Communication
17.	10M11EC113	Advanced Telecommunication Network
18.	10M11EC114	VLSI Circuits and System Design
19.	18B1WEC733	Machine Learning and Data Analytics-1
<b>8<sup>TH</sup> SEMESTER</b>		
1.	11B1WEC832	Digital Signal Processing for VLSI
2.	11B1WEC834	Optical Comm. Systems
3.	13B1WEC831	Soft Computing Techniques
4.	13B1WEC832	Modern Antennas
5.	13B1WEC833	Bio-Electronic Sensors
6.	13B1WEC834	Quantum Effects in Semiconductor Physics
7.	16B1WEC831	Antenna and Wave Propagation
8.	10M11EC211	Advanced Digital Signal Processing
9.	10M11EC212	Advanced Wireless & Mobile Communication
10.	10M11EC213	Information & Coding Theory
11.	14M1WEC231	Advanced CMOS Digital Design Techniques
12.	12M1WEC232	Real Time Embedded System
13.	16M1WEC231	Advanced Digital Image processing
14.	13M1WEC231	Advanced Neural Networks
15.	16B1WEC832	Spectral Analysis for Signal Processing

ACADEMIC COUNCIL 2010