

# B.Tech Curriculum for Electronics and Communication Engineering

## SEMESTER – I

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Calculus and Ordinary Differential Equations	Mathematics	MA1L003	3-1-0	4	4
Introduction to Bio Science and Technology	Chemistry	ID2L002	2-0-0	2	2
Happiness and life skill	Humanities, Social Science and Management	ID1LXXX	1-0-0	1	1
Introduction to Bharatiya Knowledge Traditions	Humanities, Social Science and Management	ID1LXXX	2-0-0	2	2
Physics	Physics	PH1L001	3-0-0	3	3
Physics Laboratory	Physics	PH1P001	0-0-3	2	3
Basic Electrical and Electronics Engineering	Electrical Engineering	EE1L002	3-1-0	4	4
Basic Electrical and Electronics Engineering Laboratory	Electrical Engineering	EE1P002	0-0-3	2	3
Extra Academic Activity-1		ID1T001	0-0-3	1	-
<b>Total</b>				<b>21</b>	<b>22</b>

## SEMESTER – II

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Linear Algebra and Complex Analysis	Mathematics	MA1L004	3-1-0	4	4
Environmental Science, Technology and Management	Earth, Ocean and Climate Science	ID2L003	2-0-0	2	2
English for learning and Communication	Humanities, Social Science and Management	HS1L011	2-0-2	3	4
Programming in C	Computer Science Engineering	CS1L002	2-0-2	3	4
Engineering Drawing and Graphics	Infrastructure	CE1P001	1-0-3	3	4
Fundamentals of Semiconductor Devices	Electronics and communication Engineering	EC1L001	3-1-0	4	4
Extra Academic Activity-2		ID1T002	0-0-3	1	-
<b>Total</b>				<b>20</b>	<b>22</b>

## SEMESTER-III

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS 2		3-0-0	3	3
Network Theory	DC 2	EC2L101	3-1-0	4	4
Signals and Systems	DC 3	EC2L102	3-1-0	4	4
Digital Electronic Circuits	DC 4	EC2L103	3-1-0	4	4
Introduction to EDA Tools	SDC 3	EC2L104	1-0-3	3	4
Signals and Systems Lab	Lab-4 (DC 3)	EC2P102	0-0-3	2	3

Digital Electronic Circuits Lab	Lab-5 (DC 4)	EC2P103	0-0-3	2	3
<b>Total</b>				<b>22</b>	
<b>SEMESTER-IV</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
	HSS 3		3-0-0	3	3
Analog Communications	DC 5	EC2L105	3-0-0	3	3
Analog Electronic Circuits	DC 6	EC2L106	3-0-0	3	3
Embedded Systems	SDC 4	EC2L107	2-0-2	3	4
Analog Communications Lab	Lab-6 (DC 5)	EC2P105	0-0-3	2	3
Analog Electronic Circuits Lab	Lab-7 (DC 6)	EC2P106	0-0-3	2	3
Open Elective	OE 1		3-0-0	3	3
<b>Total</b>				<b>19</b>	
<b>SEMESTER-V</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
	HSS 4		3-0-0	3	3
Digital Signal Processing	DC 7	EC3L101	3-0-0	3	3
Digital Communications	DC 8	EC3L102	3-1-0	4	4
Internet of Things	SDC 5	EC3L103	2-0-2	3	4
Digital Signal Processing Lab	Lab-8 (DC 7)	EC3P101	0-0-3	2	3
Digital Communications Lab	Lab-9 (DC 8)	EC3P102	0-0-3	2	3
Open Elective	OE 2		3-0-0	3	3
<b>Total</b>				<b>20</b>	
<b>SEMESTER-VI</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
VLSI Design	DC 9	EC3L104	3-0-0	3	3
Control Systems	DC 10	EE3L003	3-1-0	4	4
Electromagnetic Waves and Radiating Systems	DC 11	EC3L105	3-1-0	4	4
Electronic Design Lab	SDC 6	EC3L106	1-0-3	3	4
VLSI Design Lab	Lab-10 (DC 10)	EC3P104	0-0-3	2	3
Electromagnetic Waves and Radiating Systems Lab	Lab-11 (DC 11)	EC3P105	0-0-3	2	3

Department Elective	DE 1			3	
<b>Total</b>				<b>21</b>	
<b>SEMESTER-VII</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
Computer Organization and Architecture	DC 12	EC4L101	3-0-0	3	3
Department Elective	DE 2		3-0-0	3	
Department Elective	DE 3		3-0-0	3	
Summer Internship	Industrial Training Defence			2	3
BTP- 1	Project 1/DE-A	xxxxx/ Subject from OE/DE Basket		3	
<b>Total</b>				<b>14</b>	
<b>SEMESTER-VIII</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
Department Elective	DE 4		3-0-0	3	
Department Elective	DE 5		3-0-0	3	
Department Elective	DE 6		3-0-0	3	
BTP- 2	Project 2/DE- B & C	xxxx/2 subjects from DE Basket		6	
<b>Total</b>				<b>15</b>	
<b>SEMESTER-VIII FOR SIX MONTH INTERNSHIP STUDENTS</b>					
<b>Subject Name</b>	<b>Type</b>	<b>Subject Code</b>	<b>L-T-P</b>	<b>Credit</b>	<b>Contact Hour</b>
Six month Internship	Internship		3-0-0	3	
Department Elective	DE 5		3-0-0	3	
Department Elective	DE 6		3-0-0	3	
BTP- 2	Project 2/DE-B & C	xxxx/2 subjects from DE Basket		6	
<b>Total</b>				<b>15</b>	
<b>Total Credit: 152</b>					