

**4-year B.Tech. degree Course in**  
**Electronics and Communication Engineering w.e.f. 2018-19 Batch**

**FIRST SEMESTER**

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11MA111	Mathematics-1	3	1	-	4	4
2.	15B11PH111	Physics-1	3	1	-	4	4
3.	15B11CI111	Software Development Fundamentals-I	3	1	-	4	4
4.	15B11HS112	English	2	1	-	3	3
5.	15B17PH171	Physics Lab-1	-	-	2	2	1
6.	15B17CI171	Software Development Lab-I	-	-	4	4	2
7.	18B15GE112	Workshop	-	-	3	3	1.5
		<b>TOTAL</b>				<b>24</b>	<b>19.5</b>

**SECOND SEMESTER**

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11MA211	Mathematics-2	3	1	-	4	4
2.	15B11PH211	Physics-2	3	1	-	4	4
3.	15B11EC111	Electrical Science-I	3	1	-	4	4
4.	15B11CI211	Software Development Fundamentals-II	3	1	-	4	4
5.	15B17PH271	Physics Lab-2	-	-	2	2	1
6.	15B17EC171	Electrical Science Lab-I	-	-	2	2	1
7.	15B17CI271	Software Development Lab-II	-	-	2	2	1
8.	18B15GE111	Engineering Drawing & Design	-	-	3	3	1.5
		<b>TOTAL</b>				<b>25</b>	<b>20.5</b>

**THIRD SEMESTER**

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11MA301	Probability and Random Processes	3	1	-	4	4
2.	18B11EC214	Signals & Systems	3	1	-	4	4
3.	15B11EC411	Analogue Electronics	3	1	-	4	4
4.	15B11GE301	Environmental Science	3	-	-	3	Qualifying
5.	18B15EC214	Signals & Systems Lab	-	-	2	2	1
6.	15B17EC471	Analogue Electronics Lab	-	-	2	2	1
7.	15B11EC211	Electrical Science-II	3	1	-	4	4
8.	15B17EC271	Electrical Science Lab-II	-	-	2	2	1
9.	15B11HS211	Economics	2	1	-	3	3
		<b>TOTAL</b>				<b>28</b>	<b>22</b>

## FOURTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective – 1	2	1	-	3	3
2.	18B11EC215	Digital Circuit Design	3	1	-	4	4
3.	18B11EC212	Analog and Digital Communication	3	1	-	4	4
4.	15B11EC413	Digital Signal Processing	3	1	-	4	4
5.	18B15EC215	Digital Circuit Design Lab	-	-	2	2	1
6.	18B15EC212	Analog and Digital Communication Lab	-	-	2	2	1
7.	15B17EC473	Digital Signal Processing Lab	-	-	2	2	1
8.	15B11HS111	Life Skills	1	1	-	2	2
		<b>TOTAL</b>				<b>23</b>	<b>20</b>

## FIFTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective-2	3	-	-	3	3
2.	15B11CI518	Data Structures and Algorithms	3	-	-	3	3
3.	Xxxxx	Discipline Elective -1	3	-	-	3	3
4.	Xxxxx	Science Elective	3	-	-	3	3
5.	15B19EC591	Minor Project – 1	-	-	-	4	2
6.	15B17CI578	Data Structures and Algorithms Lab	-	-	2	2	1
7.	18B15EC312	Electromagnetic Field Theory Lab	-	-	2	2	1
8.	18B15EC314	Python for Signal Processing & Communication	-	-	2	2	1
9.	18B11EC312	Electromagnetic Field Theory	3	1	-	4	4
10.	18B15EC313	Embedded Systems/IOT Lab	-	-	2	2	1
11.	18B12HS311	Indian Constitution & Traditional Knowledge	3	-	-	3	Qualifying
		<b>TOTAL</b>				<b>31</b>	<b>22</b>

## SIXTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11EC611	Telecommunication Networks	3	-	-	3	3
2.	Xxxxx	Discipline Elective – 2	3	-	-	3	3
3.	Xxxxx	Discipline Elective - 3	3	-	-	3	3
4.	Xxxxx	Open Elective - 1	3	-	-	3	3
		Selected Value Added Course	2	-	-	2	Audit
5.	15B17EC671	Telecommunication Networks Lab	-	-	2	2	1
6.	15B19EC691	Minor Project-2	-	-	-	4	2

7	18B11EC315	VLSI Design	3	1	-	4	4
8	18B15EC315	VLSI Design Lab	-	-	2	2	1
9	Xxxxxx	HSS Elective - 3	2	1	-	3	3
		<b>TOTAL</b>				<b>27/29</b>	<b>23</b>

1. Students may opt to study Selected Foreign Language during 5<sup>th</sup> semester as an additional course of 2 credits not to be counted towards CGPA calculation. Those who qualify will be provided with additional certificate.
2. All students will undergo Value Added Course, however it will not count for CGPA calculations and will not be reflected in transcript of those students who fail to qualify. Those who qualify will be provided with additional certificate.
3. Students will undergo 6 weeks Industrial Training during Summer Vacation after 6th Semester.

### SEVENTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxxx	Discipline Elective – 4	3	-	-	3	3
2.	Xxxxxx	Discipline Elective – 5	3	-	-	3	3
3.	Xxxxxx	Discipline Elective - 6	3	-	-	3	3
4.	Xxxxxx	Open Elective - 2	3	-	-	3	3
5.	15B19EC791	Major Project Part-1	-	-	-	8	4
6.	15B19EC793	Summer Training Viva	-	-	-	-	Qualifying
		<b>TOTAL</b>				<b>20</b>	<b>16</b>

### EIGHTH SEMESTER

Sr. No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxxx	Discipline Elective – 7	3	-	-	3	3
2.	Xxxxxx	Discipline Elective - 8	3	-	-	3	3
3.	Xxxxxx	Open Elective -3	3	-	-	3	3
4.	15B19EC891	Major Project Part-2	-	-	-	16	8
		<b>TOTAL</b>				<b>25</b>	<b>17</b>

**Total credits for B. Tech. -160**