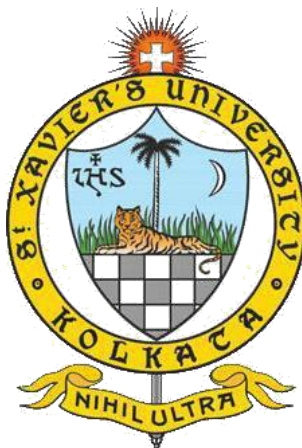


St. Xavier's University, Kolkata



**Curriculum for
B. Tech. in Electronics and Communication Engineering
(ECE)**

Semester I						
S.No	Course Type	Course Title	Hours per Week			Credits
			L	T	P	
1.	BSC	Chemistry	3	1	2	5
2.	BSC	Mathematics-I	3	1	0	4
3.	ESC	Programming and Problem Solving	3	0	2	4
4.	ESC	Workshop	1	0	4	3
5.	ESC	Design Thinking	0	0	2	1
6.	HSMC	Communicative English	2	0	2	3
Total			26			20

Semester II						
S.No	Course Type	Course Title	Hours per Week			Credits
			L	T	P	
1.	BSC	Physics	3	1	2	5
2.	BSC	Mathematics-II	3	1	0	4
3.	ESC	Engineering Graphics and Design	1	0	4	3

4.	ESC	Basic Electrical Engineering	2	1	2	4
5.	PEC	Data Structure and Algorithms	3	0	4	5
6.	HSMC	Universal Human Values: Understanding Harmony and Ethical Human Conduct	2	1	0	3
Total			30			24

Semester III						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	BSC	Mathematics-III	2	0	0	2
2.	PCC	Basic Electronics Engineering	3	1	2	5
3.	PCC	Electronic Device	3	0	2	4
4.	PCC	Digital System Design	3	0	2	4
5.	PCC	Signals and Systems	3	0	0	3
6.	HSMC	Humanities-I	3	0	0	3
Total			24			21

Semester IV						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	PCC	Network Theory	3	0	0	3
2.	PCC	Analog Circuit	3	0	2	4
3.	PCC	Analog and Digital Communication	3	0	2	4
4.	PCC	Control System	3	0	0	3
5.	ESC	Numerical Techniques	2	1	2	4
6.	HSMC	Organizational Behavior	3	0	0	3
7.	HSMC	Humanities-II	3	0	0	3
8.	MC	Environmental Science	-	-	-	0
Total			27			24

Semester V						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	PCC	Digital Signal Processing	3	0	0	3
2.	PCC	Microcontroller	3	0	2	4
3.	PCC	Computer Networks	3	0	2	4
4.	PCC	Electromagnetic Waves	3	1	2	5
5.	PCC	Mobile Communication and Network	3	1	0	4
6.	MC	Constitution of India / Introduction to Indian Knowledge System	0	0	0	0
Total			23			20

Semester VI						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	PCC	Embedded System	3	0	2	4
2.	PCC	VLSI Design Lab	2	0	2	4
3.	PEC	Microwave Theory and Techniques	3	0	0	3
4.	PEC	Information Theory and Coding	3	0	0	3
5.	PEC	Fiber Optic Communications	3	0	0	3
6.	OEC	Statistical Analysis using Python / Data Base Management System/ Artificial Intelligence	3	0	4	5
Total			25			22

Semester VII						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	BSC	Biology	2	1	0	3
2.	PCC	Probability Theory and Stochastic Process	3	1	0	4
3.	PEC	Digital Audio Processing	3	0	0	3
4.	OEC	Machine Learning / Robotics / Basic Quantum Computing	1	0	4	3
5.	PROJ	Project-I	0	0	12	6
6.	PROJ	Internship/MOOC course	0	0	0	4
Total			27			23

Semester VIII						
S.No	Course Type	Course Title	Hours Per Week			Credits
			L	T	P	
1.	PCC	Antennas and Propagation	3	0	0	3
2.	PCC	Micro Electronics	3	0	2	4
3.	OEC	Deep Learning / Internet of Things / Machine Learning	3	0	2	4
4.	PROJ	Project-II	0	0	12	6
5.	PROJ	Technical Seminar	0	0	0	2
6.	PROJ	General Viva Voce	0	0	0	2
Total			25			21

