B.Tech - Electronics and Communication Engineering Course Structure

I B.Tech (I Sem) **Branch/Specialization: ECE**

S.No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS101	Matrices and Calculus	3	1	0	4
2	HS103	Applied Physics	3	1	0	4
3	HS107	English for skill Enhancement	2	0	0	2
4	ES106	Programming for Problem Solving*	2	0	4	4
5	HS104	Applied Physics Lab	0	0	3	1.5
6	HS108	English Language and Communication Skills Lab	0	0	2	1
7	ES113	Engineering Workshop Practice	0	0	3	1.5
8	MC101	Environmental Science	1	0	0	0
		Total	**11**	**2**	**12**	**18**

L: Lecture Hour **T: Tutorial Hour** **P:Lab/Practice Hour**
***Integrated Course (Theory & Lab)**

I B.Tech (II Sem) **Branch/Specialization: ECE**

S.No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS102	Multivariable and Vector Calculus	3	1	0	4
2	HS105	Engineering Chemistry	3	1	0	4
3	ES101	Basic Electrical Engineering	2	0	0	2
4	ES103	Electronic Devices and Circuits	2	0	0	2
5	ES107	Python Programming*	2	0	2	3
6	ES108	Computer Aided Engineering Graphics	1	0	4	3
7	HS106	Engineering Chemistry Lab	0	0	2	1
8	ES102	Basic Electrical Engineering Lab	0	0	2	1
9	ES104	Electronic Devices and Circuits Lab	0	0	2	1
10	MC102	Morals and Ethics	1	0	0	0
		Total	**14**	**2**	**12**	**21**

L: Lecture Hour **T: Tutorial Hour** **P: Lab/Practice Hour**
***Integrated Course (Theory & Lab)**

II B.Tech (I Sem)   **Branch/Specialization: ECE**

S.No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	**T**	**P**	
1	HS205	Complex Variables and Laplace , Fourier Transforms	3	1	0	4
2	EC201	Analog Circuits	3	0	0	3
3	EC203	Digital Logic Design	3	0	0	3
4	EC205	Signals and Systems	3	1	0	4
5	EC207	Network Analysis and Synthesis	3	0	0	3
6	EC202	Analog Circuits Lab	0	0	2	1
7	EC204	Digital Logic Design Lab	0	0	2	1
8	EC206	Basic Simulation Lab	0	0	2	1
9	HS206	Verbal Communication & Soft Skills Lab	0	0	2	1
10	MC201	Constitution of India	1	0	0	0
		Total	**16**	**2**	**8**	**21**

L: Lecture Hour   **T: Tutorial Hour**   **P: Lab/Practice Hour**

II B.Tech (II Sem)   **Branch/Specialization: ECE**

S.No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	**T**	**P**	
1	EC208	Probability Theory and Stochastic Processes	3	0	0	3
2	EC209	Electronic Circuit Analysis	3	0	0	3
3	EC211	Linear and Digital IC Applications	3	0	0	3
4	EC213	Analog and Digital Communications	3	0	0	3
5	EC215	Electromagnetic Fields and Transmission Lines	3	0	0	3
6	EC210	Electronic Circuit Analysis Lab	0	0	2	1
7	EC212	Linear and Digital IC Applications Lab	0	0	2	1
8	EC214	Analog and Digital Communications Lab	0	0	2	1
9	EC217	Real time / Field Based Research Project	0	0	4	2
10	MC202	Gender Sensitization Lab	0	0	2	0
		Total	**15**	**0**	**12**	**20**

L: Lecture Hour   **T: Tutorial Hour**   **P: Lab/Practice Hour**