

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

**Bachelor of Technology in Electronics & Computer Engineering**

**Detailed Course Structure & Curriculum**

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, SOLAN**

**COURSE CURRICULUM OF ELECTRONICS AND COMPUTER ENGINEERING (Effective from 2021-22 Session)**

**B. TECH (Electronics and Computer Engineering) 1<sup>st</sup> SEMESTER**

S. No.	Category Code	Subject Code	Name of the Subjects	Course Hours			Credits	Total Hours
				L	T	P		
1	HSS	18B11HS111	English and Technical Communication	2	0	0	2	2
2	HSS	18B17HS171	English and Technical Communication Lab	0	0	2	1	2
3	Basic Sciences	18B11MA111	Engineering Mathematics -1	3	1	0	4	4
4	Basic Sciences	18B11PH111	Engineering Physics-I	3	1	0	4	4
5	Basic Sciences	18B17PH171	Engineering Physics Lab-I	0	0	2	1	2
6	Engg Science	18B11CI111	Programming for Problem Solving	2	0	0	2	2
7	Engg Science	18B17GE173	Engineering Graphics <b>OR</b>	0	0	3	1.5	3
		18B17GE171	Workshop Practices					
8	Engg Science	19B17CI171	Programming for Problem Solving Lab	0	0	4	2	4
9		18B17GE172	Mandatory Induction Program				0	0
				<b>Total</b>			<b>17.5</b>	<b>23</b>

**B. TECH (Electronics and Computer Engineering) 2<sup>nd</sup> SEMESTER**

S.No		Subject Code	Name of the Subjects	Course Hours			Credits	Total Hours
				L	T	P		
1	Basic Sciences	18B11MA211	Engineering Mathematics -II	3	1	0	4	4
2	Basic Sciences	18B11PH211	Engineering Physics-II	3	0	0	3	3
3	Basic Sciences	18B11PH271	Engineering Physics Lab II	0	0	2	1	2
4	Engg Science	18B11EC211	Electrical Science	3	1	0	4	4
5	Engg Science	18B17EC271	Electrical Science Lab	0	0	2	1	2
6	Engg Science	18B17GE171	Workshop Practices <b>OR</b>	0	0	3	1.5	3
		18B17GE173	Engineering Graphics					
7	Engg Science	18B17CI211	Data Structures and Algorithms	3	1	0	4	4
8	Engg Science	18B17CI271	Data Structures and Algorithms Lab	0	0	2	2	4
				<b>Total</b>			<b>20.5</b>	<b>26</b>

B. TECH (Electronics and Computer Engineering) 3 <sup>rd</sup> SEMESTER								
S. No.	Category Code	Subject Code	Name of the Subjects	Course Hours			Credits	Total Hours
				L	T	P		
1	HSS	21B11HS312	Interpersonal Dynamics, Values and Ethics	1	0	0	1	1
2	Basic Sciences	18B11MA311	Probability Theory and Random Processes	3	1	0	4	4
3	Engg Science	20B11EM311	Object Oriented Programming Concepts	3	0	0	3	3
4	Engg Science	20B17EM371	Object Oriented Programming Concepts Lab	0	0	2	1	2
5	PC	20B11EM312	Digital Electronics	3	0	0	3	3
6	PC	20B17EM372	Digital Electronics Lab + Verilog	0	0	2	1	2
7	PC	18B11EC313	Electronic Devices and Circuits	3	1	0	4	4
8	PC	18B17EC373	Electronic Devices and Circuits Lab	0	0	2	1	2
9	PC	20B17EM373	Network Simulation Lab (LabView and MATLAB)	0	0	2	1	2
10	HSS	21B11HS311	Professional Communication Practice	0	0	0	Audit	2
						<b>Total</b>	<b>19</b>	<b>25</b>
B. TECH (Electronics and Computer Engineering) 4 <sup>th</sup> SEMESTER								
S. No.	Category Code	Subject Code	Name of the Subjects	Course Hours			Credits	Total Hours
				L	T	P		
1	HSS	18B11HS411	Finance and Accounts	3	0	0	3	3
2	Basic Sciences	18B11MA411	Discrete Mathematics	3	0	0	3	3
3	Engg Science	18B17EC474	Python Lab	0	0	2	1	2
4	PC	18B11CI412	Design and Analysis of Algorithms	3	0	0	3	3
5	PC	20B11EM411	Microprocessor Microcontrollers and Interfacing Techniques	3	1	0	4	4
6	PC	20B11EM412	Signals and Systems	3	1	0	4	4
7	PC	18B17CI472	Design and Analysis of Algorithms Lab	0	0	2	1	2
8	PC	20B17EM471	Microprocessor Microcontrollers and Interfacing Techniques Lab	0	0	2	1	2
9	PC	20B17EM472	Signals and Systems Lab	0	0	2	1	2
10	PC	18B11GE411	Environmental Studies	2	0	0	Audit	2
						<b>Total</b>	<b>21</b>	<b>27</b>