

Semester-wise Pattern for Students Admitted to B.E. Electronics & Computer Engineering Programme								
Year	First Semester			U	Second Semester		U	
I	BITS	F103	Introduction to Engineering Design and Prototyping	4	BITS	F111	Thermodynamics	3
	BIO	F101	Introduction to Biological Sciences	3	BITS	F112	Technical Report Writing	2
	CHEM	F101	Fundamentals of Chemistry	3	CS	F111	Computer Programming	4
	MATH	F101	Multivariable Calculus	3	MATH	F113	Probability and Statistics	3
	PHY	F101	Oscillations and Waves	3	MATH	F102	Linear Algebra and Complex Variables	3
	BITS	F101	Social Conduct	1	EEE	F111	Electrical Sciences	3
	BITS	K101	Physical Well-being and Creativity	1*	BITS	F102	Innovation and Design Thinking	1
			<b>18</b>				<b>19</b>	
II	MATH	F211	Mathematics III Humanities Electives	3 3(min)	ECON	F211	Principles of Economics or	3 or
	ECOM	F213	Object Oriented Programming	4	MGTS	F211	Principles of Management	3
	ECOM	F214	Electronic Devices	3	ECOM	F211	Data Structures and Algorithms	4
	ECOM	F215	Digital Design	4	ECOM	F241	Microprocessors and Interfacing	4
	ECOM	F222	Discrete Structures for Computer Science	3	ECOM	F242	Control Systems	3
					ECOM	F243	Signals & Systems	3
					ECOM	F244	Microelectronic Circuits	3
			<b>20(min)</b>	BITS	F225	Environmental Studies	3	
							<b>23(min)</b>	
<b>Summer BITS F221 Practice School – I (for PS Option Only)</b>								
III			Open/Humanities Electives	3 to 6			Open/Humanities Electives	6 to 9
	ECOM	F313	Analog & Digital VLSI Design	3	ECOM	F321	Real Time Operating Systems	4
	ECOM	F342	Computer Architecture	4	ECOM	F462	Network Programming	3
	ECOM	F343	Communication Networks Discipline Electives	3 3(min)			Discipline Electives	6(min)
			<b>16/19</b>				<b>19/22</b>	
IV			Open Electives Discipline Electives	5 to 11 3	BITS	F412	Practice School-II or	20 or
					BITS	F421T	Thesis	16
					or	F425T	Thesis	18-20
					or	F424T	Thesis (9) and Electives <b>(6 to 9)</b>	15-18
			<b>8/14</b>				<b>15/20</b>	

Discipline Core- 48 Units (14 Courses)

Discipline Electives-12 Units (4 Courses)