B. E. (Hons.) Computer Science

Pattern 1 Semester-wise Pattern for Students Admitted to B. E. (Hons.) Computer Science Programme in First Semester

Year	First Semester			U	Second Semester			U
I	BIO	F110	Biology Laboratory	1	MATH	F112	Mathematics II	3
	BIO	F111	General Biology	3	ME	F110	Workshop Practice	2
	CHEM	F110	Chemistry Laboratory	1	CS	F111	Computer Programming	4
	CHEM	F111	General Chemistry	3	EEE	F111	Electrical Sciences	3
	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
	PHY	F110	Physics Laboratory	1	MATH	F113	Probability and Statistics	3
	PHY	F111	Mechanics, Oscillations and Waves	3	BITS	F111	Thermodynamics	3
	BITS	F110	Engineering Graphics	2				
				17				20
II	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Open/Humanities Electives	3			or	or
	CS	F	Logic in CS	3	MGTS	F211	Principles of Management	3
	CS	F	Discrete Structures for CS	3			Open/Humanities Electives	3
	CS	F	Object Oriented Programming	4	CS	F	Data Structures & Algorithms	4
	CS	F	Digital Design	4	CS	F	Microprocessors & Interfacing	4
					CS	F	Database Systems	4
				20				18
Summer	BITS C221 Practice School – I (for PS Option Only)							
III			Open/Humanities Electives	0to6			Open/Humanities Electives	0to6
	CS	F	Theory of Computation	3	CS	F	Compiler Construction	3
	CS	F	Operating Systems	3	CS	F	Design & Analysis of Algorithms	3
	CS	F	Principles of Programming Languages	2	CS	F	Computer Networks	4
	CS	F	Computer Architecture	4			Discipline Electives	6
			Discipline Electives	3				
				15/21				16/22
IV			Open Electives	5to14			PS-II (20)	20
			Discipline Electives	3			or	or
							Thesis (16)	16
							or	
							Thesis (9) AND Electives (6 to 9)	15to18
				5/17				

Discipline Core - 48 Units (14 Courses)
Discipline Electives - 12 Units (6 Courses)

Note: This is a currently operative pattern as approved by the Senate-appointed committee, subject to change if the situation warrants.