Semester-wise Pattern for Students Admitted to B.E. Mathematics and Computing Programme

Year	First Semester	Units	Second Semester	Units
	MATH F111 Mathematics I	3	MATH F112 Mathematics II	3
	BIO F110 Biology Laboratory	1	ME F112 Workshop Practice	2
	BIO F111 General Biology CHEM F110 Chemistry Laboratory	3 1	CS F111 Computer Programming	4
	CHEM F111 General Chemistry	3	EEE F111 Electrical Sciences	3
	PHY F110 Physics Laboratory	1		
	PHY F111 Mechanics, Oscillations, and Waves	3	BITS F112 Technical Report Writing	2
	Cookidations, and waves	J	MATH F113 Probability and Statistics	3
	BITS F110 Engineering Graphics	2	BITS F111 Thermodynamics	3
		17		20
	First Semester	U	Second Semester	U
П	MATH F211 Mathematics III	3	MAC F241 Numerical Analysis	3
	MAC F211 Linear Algebra and Applications	3	MAC F242 Data Structures & Algorithms	4
	MAC F212 Object Oriented Programming	4	MAC F243 Numerical Optimization	3
	MAC F213 Discrete Mathematics	3	MAC F244 Stochastic Calculus and Application to Finance	3
	MAC F214 Elementary Real Analysis	3	MAC F245 Scientific Computing Laboratory	1
	Humanities Elective	3	MGTS F211 Principles of Management	3
	BITS F225 Environmental Studies	3	(or) ECON F211 Principles of Economics	
		22		17
Summe		BI15 F221 Pr	actice School -1	
III	First Semester	U	Second Semester	U
	MAC F311 Algebra I	3	MAC F341 Design and Analysis of Algorithms	3
	MAC F312 Foundations of Data Science	3	MAC F342 Computational Partial Differential	4
	MAC F313 Statistical Data Analysis	4	Equations	
	MAC F314 Mathematical Modelling	4	Discipline Elective	6
	Humanities Elective	3	Humanities Elective	2
	Discipline Elective	3	Open Elective	3
		20		18
	First Semester	U	Second Semester	U
	T in st Sommoster			
IV	Open Electives	12	BITS Practice School-II	20
	Dinainlina Floativa	2	Or DITS E421T Thosis	or 16
	Discipline Elective	3	BITS F421T Thesis or	16 or
			Thesis (9) and Electives (6 to 9)	15 to 18
		15		15/20

Discipline core – **48** Units (**15** Courses) Discipline elective – **12** Units (4 Courses)