

Semester-wise Pattern for Students Admitted to B.E. Manufacturing Programme								
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 /Humanities Electives	3 3(min)	ECON	F211	Principles of Economics or	3 or
	MF	F213	Materials Science & Engineering	2	MGTS	F211	Principles of Management Humanities Electives	3 3(min)
	MF	F212	Fluid Mechanics	3	MF	F241	Machine Design & Drawing	4
	MF	F211	Mechanics of Solids	3	MF	F242	Manufacturing Management	2
	MF	F214	Applied Thermodynamics	3	MF	F243	Manufacturing Processes	3
	MF	F215	Mechanical Engineering Laboratory	2	MF	F244	Kinematics & Dynamics of Machinery	3
			19(min)				18(min)	
Summer BITS F221 Practice School – I (for PS Option Only)								
III			Open/Humanities Electives	2to5			Open/Humanities Electives	2to5
	MF	F311	Mechatronics & Automation	3	MF	F341	Design of Machine Tools	3
	MF	F312	Tool & Fixture Design	3	MF	F343	Casting & Welding	4
	MF	F313	Metal Forming & Machining	4	MF	F342	Computer Aided Design	4
		Discipline Electives	6(min)	MF	F344	Engineering Optimization	2	
			18/21			Discipline Electives	3(min)	
							18/21	
IV			Open Electives	7to13	BITS	F412	Practice School-II or	20 or
			Discipline Electives	3(min)	BITS	F421T	Thesis or Thesis (9) and Electives (6 to 9)	16
							15to18	
				10/16			15/20	

Discipline Core - 48 Units (16 Courses)

Discipline Electives - 12 Units (4 Courses)

Note: This is operative pattern for the students who are admitted from August 2011 onwards as approved by the Senate-appointed committee, subject to change if the situation warrants.