

Semester-wise Pattern for Students Admitted to B.E. Chemical 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	3	ECON	F211	Principles of Economics or	3
			Humanities Electives	3(min)	MGTS	F211	Principles of Management	3
	CHE	F211	Chemical Process Calculations	3			Humanities Electives	3(min)
	CHE	F214	Engineering Chemistry	3	CHE	F241	Heat Transfer	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F212	Fluid Mechanics	3	CHE	F243	Material Science & Engineering	3
			18(min)	CHE	F244	Separation Processes I	3	
			18(min)				18(min)	
Summer BITS F221 Practice School – I (for PS Option Only)								
III	CHE	F312	Open/Humanities Electives	3to6	CHE	F341	Open/Humanities Electives	3to6
			Chemical Engineering Laboratory I	3			Chemical Engineering Laboratory II	3
	CHE	F313	Separation Processes II	3	CHE	F342	Process Dynamics & Control	3
	CHE	F311	Kinetics & Reactor Design	3	CHE	F343	Process Design Principles II	3
	CHE	F314	Process Design Principles I	3			Discipline Electives	6
			Discipline Electives	3				
			18/21				18/21	
IV			Open Electives	5to11	BITS	F412	Practice School-II	20
			Discipline Electives	6	BITS	F421T	Thesis	or
							Thesis (9) and Electives (6 to 9)	15to18
				11/17			15/20	

Discipline Core - 45 Units (15 Courses)

Discipline Electives - 15 Units (5 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.