MATH F211 Mathematics III Humanities Electives 3 (min) MGTS F211 Principles of Economics 3 or MGTS F211 Principles of Management 3 or MGTS F211 Principles of Management 3 or MGTS F211 Principles of Management 3 MGTS F212 Principles of Management MGTS F211 Principles of MGT			Sem	ester-wise Pattern for Stu	udents Ad	mitted t	o B.E. C	hemical Programme	
BIO	Year		Fi	rst Semester	U		Sec	ond Semester	U
CHEM F110 Chemistry Laboratory 1 CS F111 Computer Programming 4		BIO	F110	Biology Laboratory	1	MATH	F112	Mathematics II	3
CHEM F111 General Chemistry 3 EEE F111 Electrical Sciences 3 MATH F111 Mathematics 3 BITS F112 Technical Report Writing 2 PHY F110 Physics Laboratory 1 MATH F113 Probability and Statistics 3 MATH F111 Mechanics, Oscillations and Waves BITS F110 Engineering Graphics 2 T7 Principles of Economics 3 MATH F211 Mathematics III Humanities Electives 3 Minn) MGTS F211 Principles of Economics 3 Management Humanities Electives 3 Minn) MGTS F211 Principles of Management Humanities Electives 3 Minn) MGTS F211 Principles of Management Humanities Electives 3 Minn) MGTS F211 Principles of Management Humanities Electives 3 Minni MGTS F211 Principles of Management Humanities Electives 3 Minni MGTS F211 Principles of Management Humanities Electives 3 Minni MGTS F211 Principles of Management Humanities Electives 3 Material Science & Engineering 3 MGTS F211 Principles of Management Humanities Electives 3 MGTS F211 Principles of Management MGTS F211 Principles of Management Humanities Electives 3 MGTS F211 Principles of Management MGTS F211 Principles of Management MGTS F211 Principles of Management MGTS F211 Principles of MGTS		_		0,	3	ME	F110	Workshop Practice	2
NATH		CHEM	F110	Chemistry Laboratory	1	CS	F111	Computer Programming	4
PHY F110		CHEM	F111	General Chemistry	3	EEE	F111	Electrical Sciences	3
PHY F110 Physics Laboratory 1 MATH F113 Probability and Statistics 3 BITS F111 Mechanics, Oscillations and Waves 2 17 20 20 20 20 20 20 20 2		MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
BITS F110 Engineering Graphics 2 17 20 20	'	PHY	F110	Physics Laboratory	1	MATH	F113	Probability and Statistics	3
MATH F211		PHY	F111	•	3	BITS	F111	Thermodynamics	3
MATH F211 Mathematics III Humanities Electives 3 (min) CHE F211 Chemical Process Calculations 3 (min) CHE F211 Chemical Process Calculations 3 (min) CHE F214 Engineering Chemistry 3 CHE F241 Heat Transfer CHE F213 Chemical Engineering Thermodynamics 3 (CHE F242 Numerical Methods for Chemical Engineers 3 (CHE F243 Material Science & Engineering 3 (CHE F244 Separation Processes I (CHE F244 Separation Processes I (CHE F312 Chemical Engineering Laboratory I (CHE F311 CHE		BITS	F110	Engineering Graphics	2				
Humanities Electives CHE F211 Chemical Process Calculations CHE F214 Engineering Chemistry CHE F213 Chemical Engineering Thermodynamics CHE F212 Fluid Mechanics BITS F225 Environmental Studies CHE F312 Chemical Engineering Thermodynamities CHE F312 Chemical Engineering Thermodynamics CHE F312 Fractice School – I (for PS Option Only) Summer BITS F221 Practice School – I (for PS Option Only) CHE F313 Separation Processes II CHE F314 Process Design CHE F315 Chemical Engineering Laboratory I CHE F316 Process Design CHE F317 Process Design CHE F318 Process Design CHE F319 Process Design CHE F310 Process Design CHE F311 Discipline Electives CHE F311 Process Design CHE F312 Process Design CHE F313 Separation Processes II CHE F314 Process Design CHE F315 Process Design CHE F316 Process Design CHE F317 Process Design CHE F318 Process Design CHE F319 Process Design CHE F310 Principles I Discipline Electives Sto 11 BITS F411 Principles I Discipline Electives Open Electives Sto 11 BITS F411 Principles of Management All Management Humanities Electives CHE F241 Heat Transfer CHE F242 Numerical Methods for Chemical Engineering 3 CHE F244 Separation Processes I 3 Telegineering 3 CHE F344 Chemical Engineering 13 CHE F341 Chemical Engineering 13 CHE F341 Chemical Engineering 14 Chemical Engineering 15 CHE F342 Process Dynamics & 3 CHE F343 Process Design Principles I Discipline Electives 6 BITS F412 Practice School-II Or O					17				20
CHE F211 Chemical Process Calculations CHE F214 Engineering Chemistry CHE F215 Chemical Engineering CHE F216 Chemical Engineering CHE F217 Chemical Engineering CHE F218 Chemical Engineering CHE F219 Chemical Engineering CHE F210 F110 Mechanics CHE F211 F110 Mechanics CHE F212 F110 Mechanics CHE F213 Chemical Engineering CHE F214 Separation Processes I CHE F215 F110 Mechanics CHE F216 F117 Chemical Engineering CHE F217 Practice School – I (for PS Option Only) Summer BITS F221 Practice School – I (for PS Option Only) CHE F311 Chemical Engineering Laboratory I CHE F342 Process Dynamics & 3 Control CHE F345 Process Design Process Design Process Design Principles I Discipline Electives 18/21 Open Electives 5 to 11 Discipline Electives Open Electives 6 BITS F412 Practice School-II Or BITS F421T Thesis Or		MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
CHE F211 Chemical Process Calculations 3 CHE F241 Engineering Chemistry 3 CHE F241 Heat Transfer 3 3 CHE F242 Numerical Methods for Chemical Engineering Thermodynamics 3 CHE F242 Numerical Methods for Chemical Engineers 3 CHE F242 Numerical Methods for Chemical Engineers 3 CHE F243 Material Science & Engineering 3 CHE F244 Separation Processes 3 Rim				Humanities Electives	3(min)			or	or
CHE F214 Engineering Chemistry CHE F213 Chemical Engineering Thermodynamics CHE F214 Chemical Engineers CHE F215 Chemical Engineers CHE F216 Chemical Engineers CHE F217 Chemical Engineers CHE F218 Chemical Engineers CHE F219 Chemical Engineers CHE F219 Chemical Engineers CHE F210 Chemical Engineers CHE F210 CHE F		CHE	F211	Chemical Process		MGTS	F211	•	3
CHE F213 Chemical Engineering Thermodynamics CHE F242 Numerical Methods for Chemical Engineers 3 CHE F243 Material Science & Engineering 3 CHE F244 Separation Processes 3 18(m Summer Electives Chemical Engineering 3 CHE F244 Separation Processes 3 18(m Summer Electives Chemical Engineering 3 CHE F344 Separation Processes 3 18(m Summer CHE F312 Chemical Engineering 3 CHE F341 Chemical Engineering CHE F313 Separation Processes 3 CHE F341 Chemical Engineering CHE F311 CHE F311 CHE F311 CHE F311 CHE F311 CHE F311 CHE F342 Chemical Engineering CHE F342 Chemical Engineering CHE F344 Chemical Engineering CHE F345 Chemical Engineering CHE F346 Chemical Engineering CHE F347 Chemical Engineering CHE F348 Chemical Engineering CHE F349 Chemical Engineering CHE F340 Chemical Engineering CHE F340 Chemical Engineering CHE F341 Chemical Engineering CHE F342 Chemical Engineering CHE F341 Chemical Engineering CHE F342 Chemical Engineering CHE F341 Chemical Engineering CHE F341 Chemical Engineering CHE F341 Chemical Engineering CHE F342 Process Dynamics & 3 CHE F342 Process Dynamics & 3 CHE F342 Process Design CHE F343 Process Design CHE F343 Discipline Electives CHE				Calculations	3			Humanities Electives	3(min)
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 CHE F244 Separation Processes I 3 CHE F244 Separation Processes I 3 CHE F244 Separation Processes I 3 CHE F344 Separation Processes I 3 CHE F345 Chemical Engineering CHE F346 Chemical Engineering CHE F347 Chemical Engineering CHE F347 Chemical Engineering CHE F348 Chemical Engineering CHE F349 Chemical Engineering CHE F349 Chemical Engineering CHE F340 Chemical Engineering CHE F341 Chemical Engin		CHE	F214	Engineering Chemistry	3	CHE	F241	Heat Transfer	3
CHE F212 Fluid Mechanics 3 CHE F243 Material Science & Engineering 3 CHE F244 Separation Processes I 3 I8(m) Summer BITS F221 Practice School – I (for PS Option Only) CHE F312 Chemical Engineering Laboratory I CHE F313 Separation Processes II 3 CHE F342 Process Dynamics & 3 CHE F345 Chemical Engineering Laboratory II CHE F311 Kinetics & Reactor Design Process Design Principles I Discipline Electives 3 CHE F343 Process Design Principles I Discipline Electives 5 To 11 BITS F412 Practice School-II or BITS F421 Thesis or I66 BITS F421T Thesis or	II	CHE	F213	Chemical Engineering		CHE	F242	Numerical Methods for	
BITS F225 Environmental Studies 3 CHE F244 Separation Processes I 3 18(m) Summer BITS F221 Practice School – I (for PS Option Only) CHE F312 Chemical Engineering Laboratory I CHE F313 Separation Processes II 3 CHE F342 Process Dynamics & 3 CHE F345 Control CHE F311 Kinetics & Reactor Design Process Design Principles I Discipline Electives 3 CHE F343 Process Design Principles I Discipline Electives 5 Total BITS F412 Practice School-II or BITS F421 Thesis or I66 BITS F225 Environmental Studies 3 Engineering CHE F244 Separation Processes I 3 3 Rem CHE F344 Separation Processes I 3 Total Separation Processes I 3 Total Separation Process Design Principles I 3 CHE F341 Process Dynamics & 3 Total Principles II 3 Total Discipline Electives 6 Total BITS F412 Practice School-II or Or Or Or BITS F421T Thesis Or Information Processes I 3 Total BITS F421T Thesis Or Informatio				Thermodynamics	3			Chemical Engineers	3
Summer BITS F221 Practice School – I (for PS Option Only) CHE F312 Chemical Engineering Laboratory CHE F313 Separation Processes CHE F314 Chemical Engineering Laboratory CHE F315 CHE F316 CHE F316 CHE F317 CHE F317 CHE F317 CHE F318 CHE F318 CHE F318 CHE F319 CHE F319 CHE F319 CHE F311 CHE F312 CHE F314 CHE F314 CHE F314 CHE F315 CHE F315 CHE F316 CHE F316 CHE F317 CHE F317 CHE F318 CHE F318 CHE F318 CHE F319 CH		CHE	F212	Fluid Mechanics	3	CHE	F243	Material Science &	
Summer BITS F221 Practice School - I (for PS Option Only) 3 to Open/Humanities Electives 3 to Open/Humanities 4 to O		BITS	F225	Environmental Studies	3			Engineering	3
Summer BITS F221 Practice School – I (for PS Option Only)						CHE	F244	Separation Processes I	3
Open/Humanities Electives CHE F312 Chemical Engineering Laboratory I CHE F313 Separation Processes II 3 CHE F341 Chemical Engineering Laboratory II CHE F311 Kinetics & Reactor Design CHE F314 Process Design CHE F314 Process Design Principles I Discipline Electives 18/21 Open Electives 3 to Open/Humanities Electives 3 to Chemical Engineering Laboratory II 3 CHE F342 Process Dynamics & 3 Control Control Principles I Discipline Electives 18/21 Open Electives 5 to 11 Discipline Electives Open/Humanities Electives 3 Themical Engineering Laboratory II 3 CHE F341 Process Dynamics & 3 Discipline Electives 6 IN/ IN/ IN/ IN/ IN/ IN/ IN/ I					21 (min)				18(min)
CHE F312 Chemical Engineering Laboratory I CHE F313 Separation Processes II 3 CHE F341 Chemical Engineering Laboratory II CHE F311 Kinetics & Reactor Design CHE F314 Process Design Principles I Discipline Electives Open Electives T8/21 Open Electives Open F412 Process Dynamics & 3 Control CHE F343 Process Design Principles II Discipline Electives Open Electives F341 Chemical Engineering Laboratory II CHE F342 Process Dynamics & 3 Control F342 Process Design Principles II Discipline Electives Open Electives F343 Process Design Principles II Discipline Electives Open Electives Open Electives F341 Thesis Open Electives Op	Sumn	ner			Practice	School -	– I (for F	S Option Only)	
CHE F312 Laboratory I CHE F313 Separation Processes II CHE F311 Separation Processes II CHE F311 CHE F311 CHE F311 CHE F312 Process Dynamics & 3 CHE F341 Laboratory II CHE F312 Laboratory II CHE F313 Separation Processes II CHE F314 Control CHE F315 CHE F342 Process Dynamics & 3 Control CHE F316 Process Design Principles I Discipline Electives 18/21 Open Electives Discipline Electives F341 Laboratory II CHE F342 Process Dynamics & 3 Control Principles II Discipline Electives 6 BITS F412 Practice School-II or BITS F421T Thesis or II III III III III III III				•	3to6			Open/Humanities Electives	3 to 6
CHE F311 Kinetics & Reactor Design 3 Control CHE F314 Process Design Principles I 3 CHE F343 Process Design Principles I 3 Discipline Electives 6 18/21 Table 1 Open Electives 5 to 11 Discipline Electives 6 IV BITS F412 Practice School-II or or Or BITS F421 Thesis or		CHE	F312	-	3	CHE	F341	-	3
CHE F311 Design 3 Control		CHE	F313	Separation Processes II	3	CHE	F342	Process Dynamics &	3
CHE F314 Principles 3 CHE F343 Process Design 3	III	CHE	F311		3			Control	
Discipline Electives 6 18/21 18/22 18/22		CHE	F314	· ·	3	CHE	F343	Process Design	
18/21 18/22 18/2				Discipline Electives	3			Principles II	3
Open Electives 5 to 11 BITS F412 Practice School-II 20 or or BITS F421T Thesis or								Discipline Electives	6
Open Electives 5 to 11 BITS F412 Practice School-II 20 or or BITS F421T Thesis or					18/21	-			18/21
Discipline Electives 6 or BITS F421T Thesis or 16				Open Electives		BITS	F412	Practice School-II	20
BITS F421T Thesis or				•		0			or
IV or						BITS	F421T		16
	IV								
(6 to 9) 15 to								` '	15 to 18
					11/17	1		-/	15/20

Discipline Core - 45 Units (15 Courses)
Discipline Electives - 15 Units (5 Courses)

		Se	emester-wise Pattern for S	Students	Admitte	ed to B.E	. Civil Programme	
Year		F	irst Semester	U		Sec	ond Semester	U
	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
1	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
l '	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3 (min)			or	or
	CE	F211	Mechanics of Solids	3	MGTS	F211	Principles of Management	3
	CE	F212	Transport Phenomena	3			Humanities Electives	3 (min)
	CE	F213	Surveying	4	CE	F241	Analysis of Structures	3
II	CE	F214	Construction Materials	3	CE	F242	Construction Planning & Technology	3
					CE	F243	Soil Mechanics	4
					CE	F244	Highway Engineering	4
					BITS	F225	Environmental Studies	3
				19 (min)				20(min)
Sumn	ner		BITS F221 Pra	actice Sch	nool – I	(for PS	Option Only)	
			Open/Humanities Electives	1 to 4			Open/Humanities	2 to 5
	CE	F311	Design of Concrete				Electives	
			Structures	4	CE	F342	Water & Waste Water	4
Ш	CE	F312	Hydraulic Engineering	4			Treatment	
""	CE	F313	Foundation Engineering	3	CE	F341	Hydrology & Water	
			Discipline Electives	6			Resources Engineering	3
					CE	F343	Design of Steel Structures	3
							Discipline Electives	6
				18/21				18/21
			Open Electives	8to14	BITS	F412	Practice School-II	20
							or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15to18
				8/14				15/20

Discipline Core - 48 Units (14 Courses)

Discipline Electives - 12 Units (4 Courses)

	Ser	neste	r-wise Pattern for Students	Admitte	d to B. E	E. Compi	ıter Science Programme	
Year			First Semester	U			ond Semester	U
	BIO	F110	Biology Laboratory	1	MATH	F112	Mathematics II	3
	вю	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
ı	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	CS	F214	Logic in Computer Science	3	MGTS	F211	Principles of Management	3
	CS	F222	Discrete Structures for	3			Humanities Electives	3(min)
			Computer Science		CS	F211	Data Structures &	
II	CS	F213	Object Oriented Programming	4			Algorithms	4
	cs	F215	Digital Design	4	CS	F241	Microprocessors & Interfacing	4
					cs	F212	Database Systems	4
					BITS	F225	Environmental Studies	3
				20(min)				21(min)
Sumn	ner		BITS F221 Pract	tice Scho	ol – I	(for PS C	ption Only)	
			Open/Humanities Electives	3to6			Open/Humanities	2to5
			Theory of Computation	3			Electives	
			Operating Systems	3	CS	F363	Compiler Construction	3
	CS	F301	Principles of Programming		CS	F364	Design & Analysis of	3
III			Languages	2			Algorithms	
	CS	F342	Computer Architecture	4	CS	F303	Computer Networks	4
			Discipline Electives	3(min)			Discipline Electives	6(min)
				18/21				18/21
			Open Electives	6to12	BITS	F412	Practice School-II	20
			Discipline Electives	3(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15to18
				9/15				15/20

Discipline Core - 48 Units (14 Courses)

Discipline Electives - 12 Units (4 Courses)

	Seme	ster-wi	se Pattern for Students Adı	nitted t	o B.E. E	lectric	al & Electronics Programme)
Year		F	irst Semester	U		S	econd Semester	U
	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
١.	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	EEE	F211	Electrical Machines	4	MGTS	F211	Principles of Management	3
	EEE	F212	Electromagnetic Theory	3			Humanities Electives	3(min)
п	EEE	F215	Digital Design	4	EEE	F241	Microprocessors & Interfacin	4
"	EEE	F214	Electronic Devices	3	EEE	F242	Control Systems	3
					EEE	F243	Signals & Systems	3
					EEE	F244		3
					BITS	F225	Environmental Studies	3
				20(min)				22(min)
Sumr	ner		BITS F221 Prac		hool – I	(for P	• • • • • • • • • • • • • • • • • • • •	T
			Open/Humanities Electives	4to6			Open/Humanities Electives	3to6
	EEE	F311	Communication Systems	4	EEE	F341	Analog Electronics	4
	MATH	F212	Optimization	3	EEE	F342	Power Electronics	4
			or		EEE	F312	Power Systems	3
III	ME	F344	Engineering Optimization	2			Discipline Electives	4(min)
	EEE	F313	Analog & Digital VLSI Design	3				
			Discipline Electives	5(min)				
				18/21				18/21
			Open Electives		BITS	F412	Practice School-II	20
			Discipline Electives	3(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15to18
				8/14				15/20

Discipline Core - 47 or 48 Units (14 Courses)

Discipline Electives - 12 Units (4 Courses)

S	emeste	r-wise	Pattern for Students Adm	itted to I	B.E. Elec	ctronics	& Communication Program	nme
Year		F	irst Semester	U		Sec	ond Semester	U
	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
l	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
Į į	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	ECE	F211	Electrical Machines	4	MGTS	F211	Principles of Management	3
	ECE	F212	Electromagnetic Theory	3			Humanities Electives	3(min)
	ECE	F215	Digital Design	4	ECE	F241	Microprocessors and	
II	ECE	F214	Electronic Devices	3			Interfacing	4
					ECE	F242	Control Systems	3
					ECE	F243	Signals & Systems	3
					ECE	F244	Microelectronic Circuits	3
					BITS	F225	Environmental Studies	3
				20(min)				22(min)
Sumn	ner		BIT	S F221 P	ractice	School -	I (for PS Option Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities Electives	3 to 6
	ECE	F311	Communication Systems	4	ECE	F341	Analog Electronics	4
III	ECE	F314	Electromagnetic Fields &		ECE	F343	Communication Networks	3
			Microwave Engineering	3	ECE	F344	Information Theory &	
	ECE	F434	Digital Signal Processing	4			Coding	3
			Discipline Electives	4(min)			Discipline Electives	5(min)
				18/21				18/21
			Open Electives	5 to 11	BITS	F412	Practice School-II	20
			Discipline Electives	3			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
]		(6 to 9)	15 to 18
				8/14				15/20

Discipline Core - 48 Units (14 Courses)

Discipline Electives - 12 Units (4 Courses)

S	emester	-wise F	Pattern for Students Adm	itted to B	.E. Elec	tronics a	and Instrumentation Progra	mme
Year		Fi	rst Semester	U		Se	cond Semester	U
	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
l	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	INSTR	F211	Electrical Machines	4	MGTS	F211	Principles of Management	3
	INSTR	F212	Electromagnetic Theory	3			Humanities Electives	3(min)
l II	INSTR	F215	Digital Design	4	INSTR	F241	Microprocessors & Interfacing	4
	INSTR	F214	Electronic Devices	3	INSTR	F242	Control Systems	3
					INSTR	F243	Signals & Systems	3
					INSTR	F244	Microelectronic Circuits	3
					BITS	F225	Environmental Studies	3
				20(min)				22(min)
Sumr	ner		BITS F221 Pract	ice Schoo	ol – I	(for PS	Option Only)	
			Open/Humanities Electives	3to6			Open/Humanities Electives	3to6
	INSTR	F311	Electronic Instruments &		INSTR	F341	Analog Electronics	4
			Instrumentation Technology	4	INSTR	F342	Power Electronics	4
Ш	INSTR	F312	Transducers & Measurement Systems	3	INSTR	F343	Industrial Instrumentation & Control	3
	INSTR	F313	Analog & Digital VLSI Design	3			Discipline Electives	4(min)
			Discipline Electives	5(min)				
				18/21				18/21
			Open Electives	5to11	BITS	F412	Practice School-II	20
			Discipline Electives	3			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15to18
				8/14				15/20

Discipline Core - 48 Units (14 Courses)
Discipline Electives - 12 Units (4 Courses)

		Semes	ster-wise Pattern for Stude	nts Admi	tted to E	B.E. Med	hanical Programme	
Year		Fi	rst Semester	U		Sec	ond Semester	U
	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
ı	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	ME	F213	Materials Science &		MGTS	F211	Principles of Management	3
			Engineering	2			Humanities Electives	3(min)
II	ME	F212	Fluid Mechanics	3	ME	F241	Machine Design & Drawing	4
	ME	F211	Mechanics of Solids	3	ME	F242	IC Engines	2
	ME	F214	Applied Thermodynamics	3	ME	F243	Production Techniques I	3
	ME	F215	Mechanical Engineering Laboratory	2	ME	F244	Kinematics & Dynamics of Machinery	3
					BITS	F225	Environmental Studies	3
				19(min)				21(min)
Sumr	ner		BITS F221 Practice	School -	·I (fo	or PS O	otion Only)	
			Open/Humanities Electives	1 to 4			Open/Humanities Electives	3 to 6
	ME ME	F311 F312	Heat Transfer Advanced Mechanics of	4	ME	F341	Prime Movers & Fluid Machines	3
			Solids	3	ME	F343	Mechanical Vibrations	3
Ш	ME	F313	Production Techniques II	4	ME	F342	Computer Aided Design	4
			Discipline Electives	6(min)	ME	F344	Engineering Optimization	2
							Discipline Electives	3(min)
				18/21	1			18/21
			Open Electives	7to13	BITS	F412	Practice School-II	20
			Discipline Electives	3(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
]		(6 to 9)	15 to 18
				10/16				15/20

Discipline Core - 48 Units (16 Courses)
Discipline Electives - 12 Units (4 Courses)

	;	Semest	ter-wise Pattern for Studer	its Admir	tted to E	B.E. Man	ufacturing Programme	
Year		F	irst Semester	U		Sec	ond Semester	U
	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
1	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			/Humanities Electives	3(min)			or	or
	MF	F213	Materials Science &	2	MGTS	F211	Principles of Management	3
			Engineering				Humanities Electives	3(min)
	MF	F212	Fluid Mechanics	3	MF	F241	Machine Design & Drawing	4
II	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
					BITS	F225	Environmental Studies	3
				19(min)				21(min)
Sum	mer		BITS F221 F	ractice S	School -	- I (foi	PS Option Only)	
			Open/Humanities Electives	2 to 5			Open/Humanities Electives	2 to 5
	MF	F311	Mechatronics & Automation	3	MF	F341	Design of Machine Tools	3
Ш	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
							Discipline Electives	3(min)
				18/21				18/21
			Open Electives		BITS	F412	Practice School-II	20
			Discipline Electives	3(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
					1		(6 to 9)	15 to18
				10/16				15/20

Discipline Core - 48 Units (16 Courses)

Discipline Electives - 12 Units (4 Courses)

		Sem	ester-wise Pattern for Stu	idents A	dmitted	to B. Ph	arm. Programme	
Year		Fir	rst Semester	U		Sec	ond Semester	U
	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
ı	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	PHA	F211	Pharmaceutical Analysis	3	MGTS	F211	Principles of Management	3
	PHA	F214	Anatomy, Physiology &				Humanities Electives	3(min)
II			Hygiene	3	PHA	F241	Pharmaceutical Chemistry	3
	PHA	F212	Dispensing Pharmacy	3	PHA	F242	Biological Chemistry	3
	PHA	F213	Microbiology	3	PHA	F243	Industrial Pharmacy	3
	BITS	F225	Environmental Studies	3	PHA	F244	Physical Pharmacy	3
				21(min)				18(min)
Sumr	ner		BITS F221 Practice Sc	hool – I	(for	PS Opti	on Only)	
			Open/Humanities Electives	2 to 5			Open/Humanities Electives	4 to 6
	PHA	F311	Pharmacology I	3	PHA	F341	Pharmacology II	3
	PHA	F312	Medicinal Chemistry I	3	PHA	F342	Medicinal Chemistry II	3
Ш	PHA	F313	Instrumental Methods of Analysis	4	PHA	F343	Forensic Pharmacy	2
	PHA	F314	Pharmaceutical Formulations & Biopharmaceutics	3	PHA	F344	Natural Drugs	3
			Discipline Electives	3(min)			Discipline Electives	3(min)
			Discipline Liectives	18/21			Discipline Liectives	18/20
			Open Electives	6 to 11	BITS	F412	Practice School-II	20
			Discipline Electives	6(min)	פווט	1414	or	or
			Discibille Flectives	O(IIIIII)	BITS	F421T	Thesis	16
IV					פווט	1 ⁴ 411	or	10
IV							Thesis (9) and Electives	
							(6 to 9)	15 to 18
				12/17	+		(0 10 3)	15/20
				12/1/				13/20

Discipline Core - 48 Units (16 Courses)

Discipline Electives - 12 Units (4 Courses)

	Se	mester-wise Pattern for Stud	lents Ad	mitted to B. I	Pharm. Programme	
Year		First Semester	U	S	econd Semester	U
	BIO F110	Biology Laboratory	1	BITS F114	General Mathematics II*	3
	BIO F111	General Biology	3	OR		
	CHEM F110	Chemistry Laboratory	1	MATH F112	Mathematics II	
	CHEM F111	General Chemistry	3	ME F110	Workshop Practice	2
	BITS F113	General Mathematics I*	3	CS F111	Computer Programming	4
	OR			PHA F214	Anatomy, Physiology, &	3
	MATH F111	Mathematics I			Hygiene	
•	PHY F110	Physics Laboratory	1	PHA F212	Dispensing Pharmacy	3
	PHY F112	General Physics	3	BITS F112	Technical Report Writing	2
	OR	•		MGTS F211	Principles of Management	
	PHY F111	Mechanics, Oscillations and		OR		3
	Waves			ECON F211	Principles of Economics	
	BITS F110	Engineering Graphics	2			
			17			20
	Humanities E	Electives	3	Humanities I	Electives	3
	BITS F218	General Mathematics III*	3	BITS F111	Thermodynamics	3
	OR			PHA F241	Pharmaceutical Chemistry	3
	MATH F211	Mathematics III		MATH F113	Probability and Statistics	3
п	PHA F211 Ph	narmaceutical Analysis	3	PHA F215	Introduction to Molecular	
"	BITS F219	Process Engineering	3		Biology and Immunology	3
	PHA F242 Bi	ological Chemistry	3	PHA F244	Physical Pharmacy	3
	PHA F213 Mi	crobiology	3			
	BITS F225	Environmental Studies	3			
			21			18
Sumn			ce Scho		Only for PS Option	1
	· ·	nities Electives	2 to 5	Open/Huma	nities electives	4 to 6
	PHA F311	Pharmacology I	3	PHA F341	Pharmacology II	3
	PHA F312	Medicinal Chemistry I	3	PHA F342	Medicinal Chemistry II	3
	PHA F313	Instrumental Methods of	4	PHA F343	Forensic Pharmacy	2
III		Analysis		PHA F344	Natural Drugs	3
	PHA F314	Pharm. Formulations &	3	Discipline El	ectives	3(min)
		Biopharmaceutics				
	Discipline Ele	ectives	3 (min)			
			18 /21			18 /20
	Open elective	es	6 to 11	BITS F412 F	Practice School II	20
	Discipline Ele	ectives	6 (min)	OR		
IV				BITS F421T		16 or 15
				or Thesis (9) and Electives (6 to 9)	to 18
		49 Unito (46 Courses)	12/17			15/20

Discipline Core - 48 Units (16 Courses)

Discipline Electives - 12 Units (4 Courses)

^{*} A student must pursue all three courses in one sequence only (i.e. either Mathematics I, Mathematics II, and Mathematics III, or General Mathematics, General Mathematics II, and General Mathematics III).

	Sem	ester-v	vise Pattern for Students A	dmitted	to M.Sc.	Biolog	ical Sciences Programme	
Year		Fi	irst Semester	U		Sec	ond Semester	U
	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
l i	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	BIO	F211	Biological Chemistry	3	MGTS	F211	Principles of Management	3
	BIO	F213	Cell Biology	3			Humanities Electives	3(min)
	BIO	F212	Microbiology	4	BIO	F241	Ecology & Environmental	
ш	BIO	F214	Integrated Biology	3			Science	3
	BITS	F225	Environmental Studies	3	вю	F242	Introduction to Bioinformatics	3
					BIO	F243	Genetics	3
					вю	F244	Instrumental Methods of Analysis	4
				22(min)				19(min)
Sum	mer		BITS F221 Praction	e Schoo	I – I (fo	r PS Op	tion Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities Electives	0 to 3
	BIO	F311	Recombinant DNA	3	BIO	F341	Developmental Biology	3
l III			Technology		BIO	F342	Immunology	3
""	BIO	F312	Plant Physiology	3	BIO	F215	Biophysics	3
	BIO	F313	Animal Physiology	3			Discipline Electives	9(min)
			Discipline Electives	6(min)				
				18/21				18/21
			Open Electives	8 to14	BITS	F412	Practice School-II	20
							or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
]		(6 to 9)	15 to18
				8/14				15/20

Discipline Core - 44 Units (14 Courses)

Discipline Electives - 15 Units (5 Courses)

		Seme	ster-wise Pattern for Stude	nts Adm	itted to	M.Sc. CI	nemistry Programme	
Year		F	irst Semester	U		Sec	ond Semester	U
	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
1	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	CHEM	F211	Physical Chemistry I	3	MGTS	F211	Principles of Management	3
	CHEM	F212	Organic Chemistry I	3			Humanities Electives	3(min)
	CHEM	F213	Physical Chemistry II	3	CHEM	F241	Inorganic Chemistry II	
II	PHY	F212	Electromagnetic Theory I	3	СНЕМ	F242	Chemical Experimentation I	3
	CHEM	F214	Inorganic Chemistry I	3	CHEM	F243	Organic Chemistry II	3
					CHEM	F244	Physical Chemistry III	3
					BITS	F225	Environmental Studies	3
				21(min)				21(min)
Sum	mer		BITS F221 Practice	School	– I (f	or PS O	otion Only)	
			Open/Humanities Electives	2 to 5			Open/Humanities Electives	2 to 5
	СНЕМ	F313	Instrumental Methods of		CHEM	F341	Chemical Experimentation II	4
			Analysis	4	CHEM	F342	Organic Chemistry IV	3
III	CHEM	F311	Organic Chemistry III	3	CHEM	F343	Inorganic Chemistry III	3
	CHEM	F312	Physical Chemistry IV	3			Discipline Electives	6(min)
			Discipline Electives	6(min)				
					1			
			On an Election	18/21	DITO	F110	Donatia a Calcad II	18/21
			Open Electives	7 to13	BITS	F412	Practice School-II	20
					DITC	E404 T	or The size	or
15.7					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	45 1-40
				7/10	-		(6 to 9)	15 to 18
				7/13				15/20

Discipline Core - 47 Units (15 Courses)

Discipline Electives - 12 Units (4 Courses)

		Semes	ter-wise Pattern for Studer	nts Admi	tted to N	/I. Sc. E	conomics Programme	
Year		F	irst Semester	U		Sec	ond Semester	U
	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
ı	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
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
			Humanities Electives	3(min)			Humanities Electives	3(min)
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance &		ECON	F242	Microeconomics	3
١			Accounts	3	ECON	F243	Macroeconomics	3
II	ECON	F213	Mathematical & Statistical		ECON	F244	Economics of Growth &	
			Methods	3			Development	3
	ECON	F214	Economic Environment of Business	3				
	BITS	F225	Environmental Studies	3				
				21(min)				18(min)
Sum	mer		BITS F221 Prac	ctice Sch	nool – I	(for F	S Option Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities Electives	3 to 6
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory &	
	ECON	F312	Money Banking & Financial	3			Policy	3
Ш			Markets		ECON	F342	Applied Econometrics	3
	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
			Discipline Electives	6(min)			Discipline Electives	6(min)
				18/21				18/21
			Open Electives	5 to 11	BITS	F412	Practice School-II	20
			Discipline Electives	6			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15to18
				11/17				15/20

Discipline Core - 42 Units (14 Courses)

Discipline Electives - 18 Units (6 Courses)

		Semest	er-wise Pattern for Studen	ts Admit	ted to M	.Sc. Mat	hematics Programme	
Year		F	irst Semester	U		Sec	ond Semester	U
	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
1	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	MATH	F212	Optimization	3	MGTS	F211	Principles of Management	3
	MATH	F213	Discrete Mathematics	3			Humanities Electives	3(min)
II	MATH	F214	Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
	BITS	F225	Environmental Studies	3	MATH	F243	Graphs & Networks	3
					MATH	F244	Measure & Integration	3
				21(min)				18(min)
Sum	mer		BITS F221 Pra	ctice Sc	hool – I	(for P	S Option Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities	
	MATH	F311	Introduction to Topology	3			Electives	0 to 3
	MATH	F312	Ordinary Differential		MATH	F341	Introduction to Functional	
Ш			Equations	3			Analysis	3
	MATH	F313	Numerical Analysis	3	MATH	F342	Differential Geometry	3
			Discipline Electives	6	MATH	F343	Partial Differential Equations	3
]		Discipline Electives	9
				18/21				18/21
			Open Electives	8 to14	BITS	F412	Practice School-II	20
							or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
					1		(6 to 9)	15 to18
				8/14				15/20

Discipline Core - 42 Units (14 Courses)

Discipline Electives - 15 Units (5 Courses)

		Semes	ster-wise Pattern for Studer	nts Admi	tted to I	M. Sc. I	Physics Programme	
Year		F	irst Semester	U		Sec	cond Semester	U
	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
1	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	1			20
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	PHY	F211	Classical Mechanics	4	MGTS	F211	Principles of Management	3
	PHY	F212	Electromagnetic Theory I	3			Humanities Electives	3(min)
п	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
"	PHY	F214	Electricity, Magnetism &		PHY	F242	Quantum Mechanics I	3
			Optics Laboratory	2	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
				21(min)				18(min)
Sumr	ner		BITS F221 Pra	ctice Sch	nool – I	(for P	S Option Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities Electives	3 to 6
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular	
	PHY	F313	Computational Physics	3			Physics	3
III			Discipline Electives	6(min)	PHY	F343	Nuclear & Particle Physics	3
					PHY	F344	Advanced Physics Laboratory	3
							Discipline Electives	3(min)
				18/21				18/21
			Open Electives	5 to 11	BITS	F412	Practice School-II	20
			Discipline Electives	6(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
					1		(6 to 9)	15 to 18
				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.

^{*}Discipline Core - 45 Units (15 Courses) and *Discipline Electives - 15 Units (min)-(4 Courses (min))

Se	emester	-wise F	Pattern for Students Admitte St	ed to M.S tudies St		eral Stu	dies – Communication &	Media
Year		F	First Semester	U		Sec	ond Semester	U
	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
1	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
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
			Humanities Electives	3(min)			or	or
	GS	F221	Business Communication	3	MGTS	F211	Principles of Management	3
	GS	F222	Language Lab Practice	3			Humanities Electives	3(min)
П	GS	F223	Introduction to Mass Communication	3	GS	F244	Reporting & Writing for Media	3
	GS	F224	Print & Audio Visual	3	GS	F241	Creative Writing	3
			Advertising		GS	F245	Effective Public Speaking	3
	BITS	F225	Environmental Studies	3	GS	F243	Current Affairs	3
				21(min)				18(min)
Sumi	ner		BITS F221 Prac	tice Sch	ool – I	(for P	S Option Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities	
	GS	F321	Mass Media Content &				Electives	3 to 6
			Design	3	GS	F342	Computer Mediated	
III	GS	F322	Critical Analysis of Literature	3			Communication	3
""			& Cinema		GS	F343	Short Film & Video Production	3
			Discipline Electives	9(min)			Discipline Electives	9(min)
				18/21	1			18/21
			Open Electives	5 to 11	BITS	F412	Practice School-II	20
			Discipline Electives	3(min)			or	or
					BITS	F421T	Thesis	16
IV							or	
							Thesis (9) and Electives	
							(6 to 9)	15 to18
				8/14				15/20

Discipline Core - 36 Units (12 Courses)

Discipline Electives - 21 Units (7 Courses)

Seme	ester-wis	se Patte	ern for Students Admitted t	o M.Sc.	Genera	l Studies	- Developmental Studies	s Stream
Year		F	irst Semester	U		Sec	ond Semester	U
	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
l i	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
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
			Humanities Electives	3(min)			Humanities Electives	3(min)
	GS	F211	Modern Political Concepts	3	GS	F231	Dynamics of Social	
II	GS	F212	Environment, Development				Change	3
			& Climate Change	3	GS	F232	Introductory Psychology	3
	GS	F213	Development Theories	3	GS	F233	Public Policy	3
	ECON	F211	Principles of Economics	3	GS	F234	Development Economics	3
	BITS	F225	Environmental Studies	3				
				21(min)				18(min)
Sumi	mer		BITS F221 Practice	School	– I (1	for PS O	otion Only)	
			Open/Humanities Electives	3 to 6			Open/Humanities	
	GS	F311	Introduction to Conflict				Electives	0 to 3
			Management	3	GS	F331	Techniques in Social	
	GS	F312	Applied Philosophy	3			Research	3
Ш			Discipline Electives	9(min)	GS	F332	Contemporary India	3
					GS	F333	Public Administration	3
					GS	F334	Global Business Technology & Knowledge Sharing	3
							Discipline Electives	6(min)
				18/21	-		Piscipillie Fiectives	18/21
			Open Electives		BITS	F412	Practice School-II	20
			Opon Liconves	0 10 14	5,10	1714	or	or
					BITS	F421T	Thesis	16
IV					5,10	17411	or	10
1 V							Thesis (9) and Electives	
							(6 to 9)	15 to 18
				8/14	-		(0.00)	15/20
				0/14	1			13/20

Discipline Core - 42 Units (14 Courses)
Discipline Electives - 15 Units (5 Courses)

Pattern 1 Semester-wise Pattern for Composite Dual Degree Programmes (Option A: Duration 10 Sem.)									
Year		Fi	rst Semester	U			cond Semester	U	
	BIO	F110	Biology laboratory	1	MATH	F112	Mathematics II	3	
	ВІО	F111	General Biology	3	ME	F110	Workshop Practice	2	
	СНЕМ	F110	Chemistry Laboratory	1	cs	F111	Computer Programming	4	
	СНЕМ	F111	General Chemistry	3	EEE	F111	Electrical Sciences	3	
	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2	
I	PHY	F110	Physics Laboratory	1	MATH	F113	Probability and Statistics	3	
	PHY	F111	Mechanics, Oscillations		BITS	F111	Thermodynamics	3	
	BITS	F110	and Waves	3					
			Engineering Graphics	2					
				17				20	
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3	
			First Discipline Core				or		
			Courses	13 to 17	MGTS	F211	Principles of Management		
II			Electives	3 to 6			First Discipline Core		
							Courses	13 to 17	
							Electives	3 to 6	
				23/24				23/24	
Sun	nmer		BITS F221 Pract	ice Scho	ol – I	(for P	S Option Only)		
			Second Discipline Core				Second Discipline Core		
			courses	12 to 16			Courses	12 to 16	
III			First Discipline Courses-Core/Elective	7 to 11			First Discipline Courses – Core / Elective	7 to 11	
				23/24				23/24	
			First Discipline Elective Courses	3 to 10			First Discipline Elective Courses	3to10	
IV			Second Discipline Courses – Core + Elective	14 to 18			Second Discipline Courses - Core + Elective	14 to 18	
							Electives (0 to 6)	0 to 6	
				23/24				23/24	
			Electives	5 to 9	BITS	F412	Practice School-II	20	
V	BITS	F423T	Thesis	9			or	or	
V					BITS	F421T	Thesis	16	

Patte	attern 2 Semester-wise Pattern for Composite Dual Degree Programmes (Option B: Duration 10 Sem. and a Summer Term)							
Year			First Semester	U		Se	cond Semester	U
	ВЮ	F110	Biology laboratory	1	MATH	F112	Mathematics II	3
	ВЮ	F111	General Biology	3	ME	F110	Workshop Practice	2
	СНЕМ	F110	Chemistry Laboratory	1	cs	F111	Computer Programming	4
	СНЕМ	F111	General Chemistry	3	EEE	F111	Electrical Sciences	3
ı	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	4
	BITS	F110	Engineering Graphics(2)	2				
				17				20
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	
							or	
			First Discipline Core Courses	13 to 17	MGTS	F211	Principles of Management	3
II			Electives	3 to 6			First Discipline Core Courses	13 to 17
							Electives	3 to 6
				23/24				23/24
Sumi	ner		BITS F221 Prac	tice Scho	ol – I	(for	PS Option Only)	
			Second Discipline Core				Second Discipline Core	
			Courses	12 to 16			Courses	12 to 16
Ш			First Discipline Courses - Core / Elective	7 to 11			First Discipline Courses - Core / Elective	7 to 11
				23/24				23/24
			First Discipline Elective Courses	3/10			First Discipline Elective Courses	3 to 10
IV			Second Discipline Courses – Core + Elective	14 to 18			Second Discipline Courses - Core + Elective	14 to 18
			Electives	0 to 6			Electives	0 to 6
				23/24				23/24
Sumi	ner		Electives	5/9				
	BITS	F412	Practice School - II	20	BITS	F413	Practice School - II	20
			or	or			or	or
V	BITS	F421T	Thesis	16	BITS	F422	Thesis	16

Patte	Pattern 3 Semesterwise Pattern for Dual Degree (Duration 11 Sem.)							
Year			First Semester	U		Se	econd Semester	U
	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
ı	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
	PHY	F110	Physics Laboratory	1	MATH	l F113	Probability and Statistics	3
	PHY	F111	Mechanics, Oscillations and Waves	3	BITS	F111	Thermodynamics	3
	BITS	F110	Engineering Graphics	2				
				17				20
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	13
II			First Discipline Core Courses		MGTS	S F211	or Principles of Management	
			Electives	3 to 6			First Discipline Core Courses	13 to 17
							Electives	3 to 6
				21/22				21/22
Sumr	ner		BITS F221 Prac		nool –	l (fo	r PS Option Only)	Т
			Second Discipline Core courses	12 to 16			Second Discipline Core	
Ш			First Discipline Courses -				Courses	12 to 16
			Core/Elective	7 to 10			First Discipline Courses – Core / Elective	7to11
				21/22				21/22
			First Discipline Elective Courses	3 to 10			First Discipline Elective Courses	3 to10
IV			Second Discipline Courses – Core+Elective	14 to 18			Second Discipline Courses - Core + Elective	14 to 18
			Electives	0 to 6			Electives	0 to 6
				21/22				21/22
٧			Electives	17 to 23	BITS	F412	Practice School-II	20
							or	or
					BITS	F421T	Thesis	16
	BITS	F413	Practice School-II	20		·		
VI			or	or				
	BITS	F422T	Thesis	16				

		Se	emester-wise pattern for c	•		_	•	
Year	1		(M.Sc. Biological Sorst Semester	U	s with E		emical) Second Semester	U
l	Sam		rst degree Programme	-	S		First degree Programme	-
'	Jun		rst Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON		Principles of Economics/	3
	BIO	F211	Biological Chemistry	3			Principles of Management	
	BIO	F213	Cell Biology	3	BIO	F241	Ecology & Environmental	
	BIO	F212	Microbiology	4			Science	3
	BIO	F214	Integrated Biology	3	вю	F242	Introduction to	
II			Humanities Elective	3			Bioinformatics	3
	BITS	F225	Environmental Studies	3	вю	F243	Genetics	3
					вю	F244	Instrumental Methods of	
							Analysis	4
							Humanities Electives	5
				22	1			21
Summe	r		BITS F221 Practice Scho	ool -1 (for PS (Option	Only) (5 Units)	
		Fi	rst Semester	U		•	Second Semester	U
	BIO	F311	Recombinant DNA	3	BIO	F341	Developmental Biology	3
			Technology		BIO	F342	Immunology	3
	BIO	F312	Plant Physiology	3	BIO	F215	Biophysics	3
	BIO	F313	Animal Physiology	3	CHE	F241	Heat Transfer	3
III	CHE	F211	Chemical Process Calculations	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F212	Fluid Mechanics	3	CHE	F243	Material Science &	
	CHE	F214	Engineering Chemistry	3			Engineering	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F244	Separation Processes I	3
				21				21
		Fi	rst Semester	U		S	econd Semester	U
	CHE	F311	Kinetics & Reactor Design	3	CHE	F341	Chemical Engineering Laboratory II	3
	CHE	F312	Chemical Engineering		CHE	F342	Process Dynamics & Control	3
			Laboratory I	3	CHE	F343	Process Design Principles II	3
D. /	CHE	F313	Separation Processes II	3			First Discipline Electives	9
IV	CHE	F314	Process Design Principles I	3			Second Discipline Electives	6
			First Discipline Electives	6				
			Second Discipline Electives	3				
				21				24
		Fi	rst Semester	U		S	econd Semester	U
V	Second BITS F4		line Electives Thesis	6 9	BITS F	412	Practice School - li	20
				15				20

			Semester-wise pattern f		•		•	
Year		Fir	(M.Sc. Biolog rst Semester	jical : U	Science	s with	B.E. Civil) Second Semester	U
ı	Same a		degree Programme		Same a	s First	degree Programme	+
•	Carrio a		rst Semester	U	Garrio d		Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	
	BIO	F211	Biological Chemistry	3			or	
	BIO	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
	BIO		Microbiology	4	BIO	F241		3
II	BIO	F214	Integrated Biology	3	BIO	F242	Introduction to Bioinformatics	3
			Humanities Elective	3	BIO	F243	Genetics	3
	BITS	F225	Environmental Studies	3	BIO	F244	Instrumental Methods of Analysis	4
							Humanities Electives	5
				22				21
Sumr	ner		BITS F221 Practic	e Sc	hool -1	(for PS	Option Only) (5 Units)	1
		Fi	rst Semester	U		-	Second Semester	U
	ВІО	F311	Recombinant DNA Technology	3	ВІО	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	ВІО	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
III	CE	F211	Mechanics of Solids	3	CE	F241	Analysis of structures	3
	CE	F212	Transport Phenomena	3	CE	F242	Construction Planning & Technology	3
	CE	F214	Construction Materials	3	CE	F243	Soil Mechanics	4
	CE	F213	Surveying	4	CE	F244	Highway Engineering	4
				22				23
		Fi	rst Semester	U			Second Semester	U
	CE	F311	Design of Concrete Structures	4	CE	F342	Water & Waste Water Treatment	4
	CE	F312	Hydraulic Engineering	4	CE	F341	Hydrology & Water Resources Engineering	3
IV	CE	F313	Foundation Engineering	3	CE	F343	Design of Steel Structures	3
			First Discipline Electives	6			First Discipline Electives	9
			Second Discipline Electives	6			Second Discipline Electives	3
				23				22
	First Semester			U	Second	d Seme	ester	U
V	Second Discipline Electives BITS F423T Thesis			3 9	BITS F4	112 Pra	ctice School - II	20

			Semester-wise pattern for		•			
Year		F	(M.Sc. Biological Sci	ence U	s with I	B.E. Co	Second Semester	U
1	Same a		t degree Programme	_	Same a	as First o	degree Programme	
-			irst Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	
	BIO	F211	Biological Chemistry	3			or	
	BIO		Cell Biology	3	MGTS	F211	Principles of Management	3
	BIO		Microbiology	4	BIO	F241	Ecology & Environmental Science	3
II	BIO		Integrated Biology	3	BIO	F242	Introduction to Bioinformatics	3
	5.0		mogratod Biology		BIO	F243	Genetics	3
			Humanities Elective	3	BIO	F244	Instrumental Methods of Analysis	4
	BITS	F225	Environmental Studies	3	ыо	1 244	Humanities Electives	5
	DITO	1 223	Livironinental Studies	22	_		Turnarines Liectives	21
Sumn	nor.		RITS F221 Practic		hool -1 (for DS	Option Only) (5 Units)	21
Sullill	lei		First Semester	U	1001-1	101 F3	Second Semester	U
			Recombinant DNA	_			Occord Gernester	
	BIO	F311	Technology	3	BIO	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
	CS	F215	Digital Design	4	CS	F241	Microprocessors & Interfacing	4
III	cs	F214	Logic in Computer Science	3	cs	F212	Database Systems	4
	cs	F222	Discrete Structures for Computer Science	3	cs	F211	Data Structures & Algorithms	4
	cs	F213	Object Oriented Programming	4				
				23				21
		F	First Semester	U			Second Semester	U
	CS	F351	Theory of Computation	3	CS	F363	Compiler Construction	3
	CS	F372	Operating Systems	3	cs	F364	Design and Analysis of Algorithms	3
	cs	F342	Computer Architecture	4	cs	F303	Computer Networks	4
IV	cs	F301	Principles of Programming Languages	2			First Discipline Elective	9
			First Discipline Electives	6			Second Discipline Electives	3
			Second Discipline	3				
			Electives					
				21				22
	First Semester						Second Semester	U
V	Second BITS F		ipline Electives Thesis	6 9	BITS F4	412	Practice School - II	20

		S	Semester-wise pattern fo					
Year	1	F:-	(M.Sc. Biological Science		B.E. El			
rear	Somo		st Semester	U	Somo		Second Semester	U
ļ.	Same a		degree Programme	U	Same a		degree Programme Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	BIO	F211		3	ECON	ГДІІ	•	3
	_		Biological Chemistry	3	MOTO	F044	Or Dringinles of Management	,
	BIO	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
Ш	BIO	F212	Microbiology	4	BIO	F241	Ecology & Environmental Science	3
	BIO	F214	Integrated Biology	3	BIO	F242	Introduction to Bioinformatics	3
			Humanities Elective	3	BIO	F243	Genetics	3
	BITS	F225	Environmental Studies	3	вю	F244	Instrumental Methods of Analysis	4
							Humanities Electives	`5
				22				21
Summ	ner		BITS F221 Pract	ice Sch	ool -1 (f	or PS (Option Only) (5 Units)	
		Fir	st Semester	U		5	Second Semester	U
	вю	F311	Recombinant DNA Technology	3	вю	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
Ш	EEE	F212	Electromagnetic Theory	3	EEE	F243	Signals and Systems	3
	EEE	F211	Electrical Machines	4	EEE	F244	Microelectronic Circuits	3
	EEE	F214	Electronic Devices	3	EEE	F241	Microprocessors & Interfacing	4
	EE	F215	Digital Design	4	EEE	F242	Control Systems	3
				23				22
		Fir	st Semester	U		9	Second Semester	U
	EEE	F311	Communication Systems	4	EEE	F341	Analog Electronics	4
	MATH	F212	Optimization	3	EEE	F342	Power Electronics	4
			or	or	EEE	F312	Power Systems	3
IV	ME	F344	Engineering Optimization	2			First Discipline Electives	6
IV	EEE	F313	Analog & Digital VLSI Design	3			Second Discipline Elective	4
			First Discipline Electives	3				
			Second Discipline Electives	8				
				20/21				21
		Fir	st Semester	U			Second Semester	U
V		rst Discipline Electives IS F423T Thesis			BITS F4	112 Prad	ctice School - II	20

		s	emester-wise pattern for cor	npos	ite Dua	l Degre	e Programmes	
	1	(M.	Sc. Biological Sciences with	B.E.	Electro	nics &	Communication)	
Year		l	First Semester	U		:	Second Semester	U
I	Same a	s First o	degree Programme		Same a	as First	degree Programme	
		l	First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	BIO	F211	Biological Chemistry	3			or	
	BIO	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
II	вю	F212	Microbiology	4	вю	F241	Ecology & Environmental Science	3
	BIO	F214	Integrated Biology	3	BIO	F242	Introduction to Bioinformatics	3
					BIO	F243	Genetics	3
			Humanities Elective	3	BIO	F244	Instrumentation of Analysis	4
	BITS	F225	Environmental Studies	3			Humanities Electives	5
				22				21
Summe	er		BITS F221 Practice Scho	ool -1	(for PS	Optio	n Only) (5 Units)	
		ı	First Semester	U		9	Second Semester	U
	вю	F311	Recombinant DNA Technology	3	вю	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	ВІО	F313	Animal Physiology	3	BIO	F215	Biophysics	3
III	ECE	F212	Electromagnetic Theory	3	ECE	F241	Microprocessors & Interfacing	4
	ECE	F215	Digital Design	4	ECE	F242	Control Systems	3
	ECE	F211	Electrical Machines	4	ECE	F243	Signals and Systems	3
	ECE	F214	Electronic Devices	3	ECE	F244	Microelectronic Circuits	3
				23				22
		l	First Semester	U		;	Second Semester	U
	ECE	F311	Communication Systems	4	ECE	F341	Analog Electronics	4
	ECE	F315	Digital Signal Processing	4	ECE	F344	Information Theory & Coding	3
IV	ECE	F314	Electromagnetic Fields & Microwave Engineering	3	ECE	F343	Communication Networks	3
			First Discipline Electives	3			First Discipline Elective	6
			Second Discipline Electives	7			Second Discipline Electives	5
				21				21
		I	First Semester	U			Second Semester	U
V	First Dis	•	Electives hesis	6 9	BITS F	412 Pra	ctice School - II	20

			Semester-wise pattern for con Sc. Biological Sciences with	•		_	•	
Year			First Semester	U		S	econd Semester	U
I	Same a	s First c	legree Programme		Same a	as First	degree Programme	
			First Semester	U		S	econd Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	вю	F211	Biological Chemistry	3			or	
	вю	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
	BIO	F212	Microbiology	4	вю	F241	Ecology & Environmental Science	3
II	BIO	F214	Integrated Biology	3	вю	F242	Introduction to Bioinformatics	3
			Humanities Elective	3	BIO	F243	Genetics	3
	BITS	F225	Environmental Studies	3	вю	F244	Instrumental Methods of Analysis	4
							Humanities Electives	5
				22				21
Summ	ner		BITS F221 Practice Scho		(for PS		*, ' '	
			First Semester	U		S	econd Semester	U
	ВІО	F311	Recombinant DNA Technology	3	вю	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
III	INSTR	F212	Electromagnetic Theory	3	INSTR	F241	Microprocessors & Interfacing	4
	INSTR	F215	Digital Design	4	INSTR	F242	Control Systems	3
	INSTR	F211	Electrical Machines	4	INSTR	F243	Signals & Systems	3
	INSTR	F214	Electronic Devices	3	INSTR	F244	Microelectronic Circuits	3
				23				22
			First Semester	U		S	econd Semester	U
	INSTR	F311	Electronic Instruments &		INSTR		Analog Electronics	4
			Instrumentation Technology	4	INSTR	F342	Power Electronics	4
IV	INSTR	F312	Transducers and Measurement Systems	3	INSTR	F343	Industrial Instrumentation & Control	3
	INSTR	F313	Analog & Digital VLSI Design	3			First Discipline Electives	6
			First Discipline Electives	9			Second Discipline Electives	4
			Second Discipline Electives	3				
				22				21
			First Semester	U		S	econd Semester	U
V	First Dis	•	Electives hesis	5 9	BITS F4	412 Pra	ctice School - II	20

		;	Semester-wise pattern for c	ompo	site Dua	al Degr	ee Programmes	
	П		(M.Sc. Biological Scie		vith B.E			
Year	_		First Semester	U			Second Semester	U
I	Same a		legree Programme		Same a		degree Programme	
			irst Semester	U	=0011		Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	BIO	F211	Biological Chemistry	3		==	or	_
l	BIO	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
II	BIO	F212	Microbiology	4	BIO	F241	Ecology & Environmental Science	3
	BIO	F214	Integrated Biology	3	BIO	F242	Introduction to Bioinformatics	3
			Humanities Elective	3	BIO	F243	Genetics	3
	BITS	F225	Environmental Studies	3	ВЮ	F244	Instrumental Methods of Analysis	4
							Humanities Electives	5
				22				21
Summ	ner		BITS F221 Practice S		-1 (for F			1
		F	First Semester	U			Second Semester	U
	вю	F311	Recombinant DNA Technology	3	ВЮ	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
	MF	F212	Fluid Mechanics	3	MF	F243	Manufacturing Processes	3
III	MF	F214	Applied Thermodynamics	3	MF	F241	Machine Design & Drawing	4
	MF	F215	Mechanical Engineering Laboratory	2	MF	F244	Kinetics & Dynamics of Machinery	3
	MF	F211	Mechanics of Solids	3	MF	F242	Manufacturing Management	2
	MF	F213	Materials Science & Engineering	2				
				22				21
	First Se	emeste	r	U	Secon	d Seme	ester	U
	MF	F313	Metal Forming & Machining	4	MF	F341	Design of Machine Tools	3
	MF	F312	Tool & Fixture Design	3	MF	F343	Casting & Welding	4
IV	MF	F311	Mechatronics & Automation	3	MF	F342	Computer Aided Design	4
			First Discipline Electives	9	MF	F344	Engineering Optimization	2
			Second Discipline Elective	3			First Discipline Electives	6
							Second Discipline Elective	3
				22				22
	First Se	emeste	r	U	Secon	d Seme	ester	U
V	Second BTS F42		ine Electives nesis	6 9	BITS F	412 Pra	actice School - II	20

			Semester-wise pattern for o					
Year			First Semester	U			Second Semester	U
ı	Sa	me as	First degree Programme		5	Same a	s First degree Programme	
			First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	BIO	F211	Biological Chemistry	3			or	
	BIO	F213	Cell Biology	3	MGTS	F211	Principles of Management	3
	BIO	F212	Microbiology	4	BIO	F241	Ecology & Environmental	
П	BIO	F214	Integrated Biology	3			Science	3
					BIO	F242	Introduction to Bioinformatics	3
			Humanities Elective	3	BIO	F243	Genetics	3
	BITS	F225	Environmental Studies	3	ВІО	F244	Instrumental Methods of Analysis	4
							Humanities Electives	5
				22				21
Sumn	ner		BITS F221 Practice Sch	ool -1	(for PS	Option	Only) (5 Units)	
			First Semester	U			Second Semester	U
	вю	F311	Recombinant DNA Technology	3	BIO	F341	Developmental Biology	3
	BIO	F312	Plant Physiology	3	BIO	F342	Immunology	3
	BIO	F313	Animal Physiology	3	BIO	F215	Biophysics	3
Ш	ME	F212	Fluid Mechanics	3	ME	F242	IC Engines	2
	ME	F214	Applied Thermodynamics	3	ME	F241	Machine Design & Drawing	4
	ME	F215	Mechanical Engineering Lab	2	ME	F244	Kinematics & Dynamics of Machinery	3
	ME	F211	Mechanics of Solids	3	ME	F243	Production Techniques I	3
	ME	F213	Materials Science & Engineering	2				
				22				21
			First Semester	U			Second Semester	U
	ME	F311	Heat Transfer	4	ME	F341	Prime Movers and Fluid Machines	3
	ME	F312	Advanced Mechanics of Solids	3	ME	F343	Mechanical Vibrations	3
IV	ME	F313	Production Techniques- II	4	ME	F342	Computer Aided Design	4
			First Discipline Electives	9	ME	F344	Engineering Optimization	2
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	3
				23				21
			First Semester	U			Second Semester	U
V	Second BTS F4		oline Electives Thesis	6 9	BITS F	412 Pra	actice School - II	20

		Son	nester-wise pattern for cor	nnoe	ito Dual	Degree	Programmes	
		3611	(M.Sc. Chemistry	-		_	_	
Year		Fi	rst Semester	U		Se	econd Semester	U
ı	Sam	e as Fi	rst degree Programme		Sa	me as F	First degree Programme	
		Fi	rst Semester	U		Se	econd Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3			or	
	CHEM	F212	Organic Chemistry I	3	MGTS	F211	Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM	F241	Inorganic Chemistry II	3
Ш	CHEM	F214	Inorganic Chemistry I	3	CHEM	F242	Chemical Experimentation I	3
	PHY	F212	Electromagnetic Theory I	3	CHEM	F243	Organic Chemistry II	3
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
							Humanities Electives	5
					BITS	F225	Environmental Studies	3
				21				23
Summer			BITS F221 Practice Scho		(for PS	_		ı
		Fi	rst Semester	U		Se	econd Semester	U
	CHEM	F313	Instrumental Methods of	4	CHEM	F341	Chemical Experimentation II	4
			Analysis		CHEM	F342	Organic Chemistry IV	3
	CHEM	F311	Organic Chemistry III	3	CHEM	F343	Inorganic Chemistry III	3
	CHEM	F312	Physical Chemistry IV	3	CHE	F241	Heat Transfer	3
III	CHE	F211	Chemical Process Calculations	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F212	Fluid Mechanics	3	CHE	F243	Material Science & Engineering	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F244	Separation Processes I	3
				19				22
		Fi	rst Semester	U		Se	econd Semester	U
	CHE	F311	Kinetics & Reactor Design	3	CHE	F341	Chemical Engineering	
	CHE	F312	Chemical Engineering Laboratory I	3			Laboratory II	3
IV	CHE	F313	Separation Processes II	3	CHE	F342	Process Dynamics & Control	3
	CHE	F314	Process Design Principles I	3	CHE	F343	Process Design Principles II	3
			First Discipline Electives	6			First Discipline Electives	6
			Second Discipline Electives	3			Second Discipline Electives	6
				21				21
			rst Semester	U		Se	econd Semester	U
V		Discipl 423T T	ine Electives hesis	6 9	BITS F4	12 Prac	tice School - II	20

			Semester-wise pattern fo	r con	posite [Dual De	gree Programmes	
	П		(M.Sc. Ch		try with	B.E. Civ		1
Year		-	irst Semester	U			Second Semester	U
ı	Sam		rst degree Programme		;	Same a	s First degree Programme	
			irst Semester	U			Second Semester	U
	MATH		Mathematics III	3	ECON	F211	Principles of Economics	3
	CHEM		Physical Chemistry I	3			or	
	CHEM	F212	Organic Chemistry I	3	MGTS	F211	Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM	F241	Inorganic Chemistry II	3
Ш	CHEM	F214	Inorganic Chemistry I	3	CHEM	F242	Chemical Experimentation I	3
	PHY	F212	Electromagnetic Theory I	3	CHEM	F243	Organic Chemistry II	3
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
							Humanities Electives	5
					BITS	F225	Environmental Studies	3
				21				23
Sumn	ner		BITS F221 Pra	ctice	School	-1(for P	S Option Only)	
		Fi	irst Semester	U			Second Semester	U
	CHEM	F313	Instrumental Methods of Analysis	4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
III	CE	F211	Mechanics of Solids	3	CE	F241	Analysis of structures	3
	CE	F212	Transport Phenomena	3	CE	F242	Construction Planning & Technology	3
	CE	F214	Construction Materials	3	CE	F243	Soil Mechanics	4
	CE	F213	Surveying	4	CE	F244	Highway Engineering	4
				23				24
	First Se	emeste	r	U	Second	Semes	ster	U
	CE	F311	Design of Concrete Structures	4	CE	F342	Water & Waste Water Treatment	4
	CE	F312	Hydraulic Engineering	4	CE	F341	Hydrology & Water Resources	
IV	CE	F313	Foundation Engineering	3			Engineering	3
			First Discipline Electives	6	CE	F343	Design of Steel Structures	3
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	6
				20			·	22
		Fi	irst Semester	U			Second Semester	U
V	Second BTS F42		oline Electives hesis	3 9	BITS F4	12 Prac	tice School - II	20

		:	Semester-wise pattern for co	ompo	site Du	al Degr	ee Programmes	
.,	ı		(M.Sc. Chemistry wi		E. Com		•	
Year	0		First Semester	U			Second Semester	U
I	Sai		First degree Programme	U	5		S First degree Programme	U
	MATH	F211	First Semester Mathematics III	3	ECON		Second Semester	3
				_	ECON	ГИП	Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3	MOTO	F044	Or	
	CHEM	F212	Organic Chemistry I	3	MGTS		Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM		Inorganic Chemistry II	3
II	CHEM	F214	Inorganic Chemistry I	3	CHEM		Chemical Experimentation I	3
	PHY	F212	Electromagnetic Theory I	3	CHEM	_	Organic Chemistry II	3
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
							Humanities Electives	5
					BITS	F225	Environmental Studies	3
				21				23
Summ	er		BITS F221 Praction		hool -1	•	• • • • • • • • • • • • • • • • • • • •	
		F	First Semester	U			Second Semester	U
	CHEM	F313	Instrumental Methods of Analysis	4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
Ш	cs	F215	Digital Design	4	cs	F241	Microprocessors & Interfacing	4
	cs	F214	Logic in Computer Science	3	cs	F212	Database Systems	4
	cs	F222	Discrete Structures For Computer Science	3	cs	F211	Data Structures & Algorithms	4
	cs	F213	Object Oriented Programming	4				
				24				22
		F	First Semester	U			Second Semester	U
	CS	F351	Theory of Computation	3	CS	F363	Compiler Construction	3
	cs	F372	Operating Systems	3	cs	F364	Design and Analysis of	
	cs	F342	Computer Architecture	4			Algorithms	3
IV	cs	F301	Principles of		cs	F303	Computer Networks	4
			Programming Languages	2			First Discipline Electives	6
			First Discipline Electives	6			Second Discipline Electives	3
			Second Discipline Electives	3				
				21				19
		F	First Semester	U			Second Semester	U
V	Second BTS F42		line Electives hesis	6 9	BITS F4	412 Pra	ctice School - II	20

		5	Semester-wise pattern for					
Year	<u> </u>		(M.Sc. Chemistry wi	th B.E.	Electric		ctronics) cond Semester	U
I	Sam		rst Semester rst degree Programme	U	6.		irst degree Programme	U
-	Saiii		rst Semester	U	- 36		cond Semester	U
	MATH	F211	Mathematics III	 	ECON	F211	Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3	20011	1211	or	
	CHEM	F212	Organic Chemistry I		MGTS	F211	Principles of Management	3
	CHEM	F213	Physical Chemistry II		CHEM	F241	Inorganic Chemistry II	3
11	CHEM	F214	Inorganic Chemistry I		CHEM	F242	Chemical Experimentation I	3
"	PHY	F214	Electromagnetic Theory I	3	CITLIVI	F243	•	3
	FILL	FZ 1Z	Humanities Elective		СНЕМ	F243	Organic Chemistry II	3
			numanilies Elective		_	F244	Physical Chemistry III	-
					CHEM	F005	Humanities Electives	5
					BITS	F225	Environmental Studies	3
0			DITO FOOA Buratina	1	4 // 5	0.0-4	. 01. 3	23
Summ						U		
	СНЕМ	F313	Instrumental Methods of	4	CHEM			4
			Analysis				·	
	CHEM	F311	Organic Chemistry III	3	CHEM	_	,	3
	CHEM	F312	Physical Chemistry IV	3	CHEM		,	3
III	EEE	F211	Electrical Machines	4	EEE		•	3
	EEE	F214	Electronic Devices	3	EEE	F244	Microelectronic Circuits	3
	EEE	F215	Digital Design	4	EEE	F241	Microprocessors & Interfacing	4
					EEE	F242	Control Systems	3
				21				23
		Fi	rst Semester	U		Se	econd Semester	U
	EEE	F311	Communication	4	EEE	F341	Analog Electronics	4
			Systems		EEE	F342	Power Electronics	4
	MATH	F212	Optimization	3	EEE	F312	Power Systems	3
			or				First Discipline Elective	6
IV	ME	F344	Engineering Optimization	2			Second Discipline Elective	4
	EEE	F313	Analog & Digital VLSI Design	3				
			First Discipline Electives	6				
			Second Discipline Electives	5				
				20/21	1			21
		Fi	rst Semester	U		Se	econd Semester	U
V		Discipli	ne Electives	3	BITS F4	F341 Chemical Experimentation II F342 Organic Chemistry IV F343 Inorganic Chemistry III F243 Signals and Systems F244 Microelectronic Circuits Microprocessors & Interfacing F242 Control Systems Second Semester F341 Analog Electronics F342 Power Electronics F312 Power Systems First Discipline Elective		20
	BTS F42	231 Ir	esis	9				1

		;	Semester-wise pattern for co	ompo	site Dua	al Degr	ee Programmes	
			M.Sc. Chemistry with B.E	. Ele	ctronics	& Con	nmunication	
Year		ı	First Semester	U		(Second Semester	U
I	Saı	me as F	First degree Programme		S	ame as	First degree Programme	
		ı	First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3			or	
	CHEM	F212	Organic Chemistry I	3	MGTS	F211	Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM	F241	Inorganic Chemistry II	3
Ш	CHEM	F214	Inorganic Chemistry I	3	CHEM	F242	Chemical Experimentation I	3
	PHY	F212	Electromagnetic Theory I	3	CHEM	F243	Organic Chemistry II	3
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
							Humanities Electives	5
					BITS	F225	Environmental Studies	3
				21				23
Summ	ner		BITS F221 Praction	e Sc	hool -1	(for PS	Option Only)	
		ı	First Semester	U			Second Semester	U
	СНЕМ	F313	Instrumental Methods of Analysis	4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
Ш	ECE	F215	Digital Design	4	ECE	F241	Microprocessors &	
	ECE	F211	Electrical Machines	4			Interfacing	4
	ECE	F214	Electronic Devices	3	ECE	F242	Control Systems	3
					ECE	F243	Signals and Systems	3
					ECE	F244	Microelectronic Circuits	3
				21				23
		ı	First Semester	U		5	Second Semester	U
	ECE	F311	Communication Systems	4	ECE	F341	Analog Electronics	4
	ECE	F315	Digital Signal Processing	4	ECE	F344	Information Theory & Coding	3
IV	ECE	F314	Electromagnetic Fields & Microwave Engineering	3	ECE	F343	Communication Networks	3
			First Discipline Electives	6			First Discipline Electives	6
			Second Discipline Electives	4			Second Discipline Electives	5
				21				21
		ı	First Semester	U			Second Semester	U
V	Second BTS F42		ine Electives nesis	3 9	BITS F4	112 Pra	ctice School - II	20

			Semester-wise pattern for con	-		_	_	
Veer	l			1	ronics 8		•	U
	6.	.mo.oc		U	6-			U
-	36	ame as			Sa			U
	III INSTR F215 Digital Design 4 INSTR F241 Microprocessors Interfacing INSTR F211 Electrical Machines 4 INSTR F242 Control Systems				3			
								3
	_		•	_	IVIG 13	FZ I I		3
	_		,		CHEM	F244		3
	_		•	_	_		3,	3
11	_	. –	,	_	_		·	_
	PHY	F212	•	_			- ·	3
			Humanities Elective	3	СНЕМ	F244		3
								5
					BITS	F225	Environmental Studies	3
					<u> </u>			23
Sumn	ner				ichool -1			
				U		S	econd Semester	U
	CHEM	F313		4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
III	INSTR	F215	Digital Design	4	INSTR	F241	Microprocessors & Interfacing	4
	INSTR	F211	Electrical Machines	4	INSTR	F242	Control Systems	3
	INSTR	F214	Electronic Devices	3	INSTR	F243	Signals & Systems	3
					INSTR	F244	Microelectronic Circuits	3
				21				23
			First Semester	U		S	econd Semester	U
	INSTR	F311	Electronic Instruments &		INSTR	F341	Analog Electronics	4
			Instrumentation Technology	4	INSTR	F342	Power Electronics	4
IV	INSTR	F312	Transducers and Measurement Systems	3	INSTR	F343	Industrial Instrumentation & Control	3
	INSTR	F313	Analog & Digital VLSI Design	3			First Discipline Electives	6
			First Discipline Electives	6			Second Discipline Electives	4
			Second Discipline Electives	5				
				21				21
			First Semester	U		S	econd Semester	U
V	Second BTS F42		ine Electives nesis	3 9	BITS F4	12 Pra	ctice School - II	20

		s	emester-wise pattern for co			_	•	
Year			(M.Sc. Chemistry		B.E. Ma			U
rear I	Cor		First Semester	U			Second Semester	U
'	Sai		irst degree Programme irst Semester	U	3		First degree Programme Second Semester	U
	MATH	F211	Mathematics III	3	ECON		Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3	LCON	1211	or	3
	CHEM	F212	Organic Chemistry I	3	MGTS	E211	Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM		Inorganic Chemistry II	3
Ш	CHEM	_	Inorganic Chemistry I	3	CHEM		Chemical Experimentation I	3
II	PHY	. –	,	3	-		·	3
	PHY	F212	Electromagnetic Theory I	_	CHEM		Organic Chemistry II	_
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
					D	=	Humanities Electives	5
					BITS	F225	Environmental Studies	3
_				21	L			23
Summe	er		BITS F221 Practice S	_	ol -1 (Option Only)	
			First Semester	U		-	Second Semester	U
	CHEM	F313	Instrumental Methods of Analysis	4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
	MF	F212	Fluid Mechanics	3	MF	F243	Manufacturing Processes	3
III	MF	F214	Applied Thermodynamics	3	MF	F241	Machine Design & Drawing	4
	MF	F215	Mechanical Engineering Laboratory	2	MF	F244	Kinematics & Dynamics of Machinery	3
	MF	F211	Mechanics of Solids	3	MF	F242	Manufacturing Management	2
	MF	F213	Materials Science & Engineering	2				
				23				22
		F	irst Semester	U		;	Second Semester	U
	MF	F313	Metal Forming & Machining	4	MF	F341	Design of Machine Tools	3
					MF	F343	Casting & Welding	4
15.7	MF	F312	Tool & Fixture Design	3	MF	F342	Computer Aided Design	4
IV	MF	F311	Mechatronics & Automation	3	MF	F344	Engineering Optimization	2
			First Discipline Electives	6			First Discipline Electives	6
			Second Discipline Elective	6			Second Discipline Elective	3
			,	22	1		·	22
		F	First Semester	U			Second Semester	U
V	First Semester Second Discipline Electives BTS F423T Thesis		line Electives	3	BITS F	412 Pra	ctice School - II	20

			Semester-wise pattern for co					
Year			First Semester	U			econd Semester	U
I	Sa	me as	First degree Programme		Sa	ame as	First degree Programme	
			First Semester	U		S	econd Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	CHEM	F211	Physical Chemistry I	3			or	
	CHEM	F212	Organic Chemistry I	3	MGTS	F211	Principles of Management	3
	CHEM	F213	Physical Chemistry II	3	CHEM	F241	Inorganic Chemistry II	3
П	CHEM	F214	Inorganic Chemistry I	3	CHEM	F242	Chemical Experimentation I	3
	PHY	F212	Electromagnetic Theory I	3	CHEM	F243	Organic Chemistry II	3
			Humanities Elective	3	CHEM	F244	Physical Chemistry III	3
							Humanities Electives	5
					BITS	F225	Environmental Studies	3
				21				23
Sumn	mer BITS F221 Practi				ool -1(fo	r PS O	otion Only)	
			First Semester	U		S	econd Semester	U
	CHEM	F313	Instrumental Methods of Analysis	4	CHEM	F341	Chemical Experimentation II	4
	CHEM	F311	Organic Chemistry III	3	CHEM	F342	Organic Chemistry IV	3
	CHEM	F312	Physical Chemistry IV	3	CHEM	F343	Inorganic Chemistry III	3
Ш	ME	F212	Fluid Mechanics	3	ME	F242	IC Engines	2
1111	ME	F214	Applied Thermodynamics	3	ME	F241	Machine Design & Drawing	4
	ME	F215	Mechanical Engineering Lab	2	ME	F244	Kinematics & Dynamics of Machinery	3
	ME	F211	Mechanics of Solids	3	ME	F243	Production Techniques I	3
	ME	F213	Materials Science & Engineering	2				
				23	1			22
			First Semester	U		S	econd Semester	U
	ME	F311	Heat Transfer	4	ME	F341	Prime Movers and Fluid	
	ME	F312	Advanced Mechanics of Solids	3			Machines	3
	ME	F313	Production Techniques-II	4	ME	F343	Mechanical Vibrations	3
IV			First Discipline Electives	6	ME	F342	Computer Aided Design	4
			Second Discipline Electives	3	ME	F344	Engineering Optimization	2
							First Discipline Electives	6
							Second Discipline Electives	3
				20	1			21
			First Semester	U		S	econd Semester	U
V	Second BTS F4		line Electives hesis	3 9	BITS F4	112 Prac	ctice School - II	20

		•	Semester-wise pattern for co					
Year			First Semester	U		5	Second Semester	U
I	Sa	me as	First degree Programme		Sa	me as	First degree Programme	
			First Semester	U		9	Second Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Elective	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Summ	ner		BITS F221 Practice		ool -1(fo			•
			First Semester	U		S	Second Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
			First Discipline Elective	3			First Discipline Elective	3
III	CHE	F211	Chemical Process Calculations	3	CHE	F241	Heat Transfer	3
	CHE	F212	Fluid Mechanics	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F214	Engineering Chemistry	3	CHE	F243	Material Science & Engineering	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F244	Separation Processes I	3
				24				24
			First Semester	U		S	Second Semester	U
	CHE	F311	Kinetics & Reactor Design	3	CHE	F341	Chemical Engineering Laboratory II	3
IV	CHE	F312	Chemical Engineering Laboratory I	3	CHE	F342	Process Dynamics & Control	3
ıV	CHE	F313	Separation Processes II	3	CHE	F343	Process Design Principles II	3
	CHE	F314	Process Design Principles I	3			First Discipline Electives	6
			First Discipline Electives	6			Second Discipline Electives	6
			Second Discipline Electives	3				
				21				21
			First Semester	U		5	Second Semester	U
V	Second BTS F4		line Electives hesis	6 9	BITS F4	412 Pra	actice School - II	20

		:	Semester-wise pattern for co	•		_	•	
Year		ı	First Semester	U			Second Semester	U
- 1	Sa	me as F	First degree Programme		S	ame as	s First degree Programme	
		I	First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Electives	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Sumn	ner		BITS F221 Practice S		ol -1(for	PS Op	otion Only)	1
		l	First Semester	U			Second Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
III	CE	F211	Mechanics of Solids	3	CE	F241	Analysis of structures	3
	CE	F212	Transport Phenomena	3	CE	F242	Construction Planning & Technology	3
	CE	F214	Construction Materials	3	CE	F243	Soil Mechanics	4
	CE	F213	Surveying	4	CE	F244	Highway Engineering	4
				22				23
		ı	First Semester	U			Second Semester	U
	CE	F311	Design of Concrete Structures	4	CE	F342	Water & Waste Water Treatment	4
IV	CE	F312	Hydraulic Engineering	4	CE	F341	Hydrology & Water Resources Engineering	3
	CE	F313	Foundation Engineering	3	CE	F343	Design of Steel Structures	3
			First Discipline Electives	9			First Discipline Electives	9
			Second Discipline Electives	3			Second Discipline Electives	3
				23				22
		Ī	First Semester	U			Second Semester	U
V	Second BTS F4		ine Electives nesis	6 9	BITS F4	112 Pra	actice School - II	20

			Semester-wise pattern for com	posit	e Dual I	Degree	Programmes	
	1		(M.Sc. Economics with	B.E.		ter Sci	ence)	
Year			First Semester	U			econd Semester	U
ı	Sa	ame as	First degree Programme		Sa		First degree Programme	
		5 044	First Semester	U	MOTO		econd Semester	U
	MATH	F211		3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Elective	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Summ	er		BITS F221 Practice	Scho	ol -1 (fo	r PS O	ption Only)	l
			First Semester	U		S	econd Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
III	cs	F215	Digital Design	4	cs	F241	Microprocessors & Interfacing	4
	cs	F214	Logic in Computer Science	3	cs	F212	Database Systems	4
	cs	F222	Discrete Structures for Computer Science	3	cs	F211	Data Structures & Algorithms	4
	cs	F213	Object Oriented Programming	4				
				23				21
			First Semester	U		S	econd Semester	U
	CS	F351	Theory of Computation	3	CS	F363	Compiler Construction	3
	cs	F372	Operating Systems	3	cs	F364	Design and Analysis of Algorithms	3
	cs	F342	Computer Architecture	4	cs	F303	Computer Networks	4
IV	cs	F301	Principles of Programming Languages	2			First Discipline Electives	6
			First Discipline Electives	6			Second Discipline Electives	6
			Second Discipline Electives	6			,	
				24	1			22
			First Semester	U		S	econd Semester	U
V		•	Electives	6	BITS F		ctice School - II	20
	BTS F4	23T T	hesis	9	5012	<u>.</u> a	0.000 0011001 11	20

			Semester-wise pattern for o	•		_	•	
Year			First Semester	U			econd Semester	U
ı	Sa	me as	First degree Programme		Sa	me as	First degree Programme	
			First Semester	U		S	econd Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Electives	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Sumn	ner		BITS F221 Prac	tice Sch	nool -1	(for PS	Option Only)	
			First Semester	U		S	econd Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
III	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
	EEE	F212	Electromagnetic Theory	3	EEE	F243	Signals and Systems	3
	EEE	F211	Electrical Machines	4	EEE	F244	Microelectronic Circuits	3
	EEE	F214	Electronic Devices	3	EEE	F241	Microprocessors & Interfacing	4
	EEE	F215	Digital Design	4	EEE	F242	Control Systems	3
				23				22
			First Semester	U		S	econd Semester	U
	EEE	F311	Communication Systems	4	EEE	F341	Analog Electronics	4
	MATH	F212	Optimization	3	EEE	F342	Power Electronics	4
			or		EEE	F312	Power Systems	3
IV	ME	F344	Engineering Optimization	2			First Discipline Electives	6
.,	EEE	F313	Analog & Digital VLSI Design	3			Second Discipline Elective	4
			First Discipline Electives	6				
			Second Discipline Electives	8				
				23/24				21
			First Semester	U		S	econd Semester	U
V	First Di BTS F4	•	e Electives Thesis	6 9	BITS F	412 Pra	actice School - II	20

		,	Semester-wise pattern for comp (M.Sc. Economics with B.E. E					
Year			First Semester	U			econd Semester	U
ı	S	ame as	First degree Programme		Sai	me as F	First degree Programme	
			First Semester	U		Se	econd Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
П	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Elective	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Sumn	ner		BITS F221 Practice	Sch	ool -1 (f	or PS (Option Only)	
			First Semester	U		Se	econd Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
III	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
	ECE	F212	Electromagnetic Theory	3	ECE	F241	Microprocessors & Interfacing	4
	ECE	F215	Digital Design	4	ECE	F242	Control Systems	3
	ECE	F211	Electrical Machines	4	ECE	F243	Signals and Systems	3
	ECE	F214	Electronic Devices	3	ECE	F244	Microelectronic Circuits	3
				23				22
			First Semester	U		Se	econd Semester	U
	ECE	F311	Communication Systems	4	ECE	F341	Analog Electronics	4
	ECE	F315	Digital Signal Processing	4	ECE	F344	Information Theory & Coding	3
11.7	ECE	F314	Electromagnetic Fields &		ECE	F343	Communication Networks	3
IV			Microwave Engineering	3			First Discipline Electives	6
			First Discipline Electives	6			Second Discipline Electives	5
			Second Discipline Electives	7				L
				24]			21
			First Semester	U		Se	econd Semester	U
V	First Dis		Electives hesis	6 9	BITS F	412 Pra	ctice School - II	20

		,	Semester-wise pattern for compo (M.Sc. Economics with B.E. El					
Year			First Semester	U		Se	econd Semester	U
ı		Same as	s First degree Programme		Sar	ne as F	First degree Programme	
			First Semester	U		Se	econd Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance & Accounts	3	ECON	F242	Microeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
	ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
			Humanities Elective	3			Humanities Electives	5
	BITS	F225	Environmental Studies	3				
				21				20
Sumn	ner		BITS F221 Practice	Sch	ool -1 (for PS	Option Only)	
			First Semester	U		Se	econd Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
III	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
	INSTR	F212	Electromagnetic Theory	3	INSTR	F241	Microprocessors & Interfacing	4
	INSTR	F215	Digital Design	4	INSTR	F242	Control Systems	3
	INSTR	F211	Electrical Machines	4	INSTR	F243	Signals & Systems	3
	INSTR	F214	Electronic Devices	3	INSTR	F244	Microelectronic Circuits	3
				23				22
			First Semester	U		Se	econd Semester	U
	INSTR	F311	Electronic Instruments & Instrumentation Technology	4	INSTR	F341	Analog Electronics	4
	INSTR	F312	Transducers and Measurement Systems	3	INSTR	F342	Power Electronics	4
IV	INSTR	F313	Analog & Digital VLSI Design	3	INSTR	F343	Industrial Instrumentation & Control	3
			First Discipline Electives	6			First Discipline Electives	6
			Second Discipline Electives	8			Second Discipline Electives	4
				24				21
			First Semester	U		Se	econd Semester	U
V	First Dis		Electives hesis	6 9	BITS F	412 Pra	actice School - II	20

	S						
		-	1	D.E. IVIAI			U
Sar			0	9			-
Jai			- 11	3.			U
МАТН				MGTS			3
			_			,	3
ECON	ГДІІ	·	3	ECON	F24 I	Econometric Metriods	3
ECON	F212	Accounts	3	ECON	F242	Microeconomics	3
ECON	F213	Mathematical & Statistical Methods	3	ECON	F243	Macroeconomics	3
ECON	F214	Economic Environment of Business	3	ECON	F244	Economics of Growth & Development	3
		Humanities Elective	3			Humanities Electives	5
BITS	F225	Environmental Studies	3				
			21	1			20
r		BITS F221 Praction	e Sc	hool -1	for PS	Option Only)	
	F	First Semester	U		S	Second Semester	U
ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
MF	F212	Fluid Mechanics	3	MF	F243	Manufacturing Processes	3
MF	F214	Applied Thermodynamics	3	MF	F241	Machine Design & Drawing	4
MF	F215	Mechanical Engineering Laboratory	2	MF	F244	Kinetics & Dynamics of Machinery	3
MF	F211	Mechanics of Solids	3	MF	F242	Manufacturing Management	2
MF	F213	Materials Science & Engineering	2			First Discipline Elective	3
			22	1			24
	F	First Semester	U		5	Second Semester	U
MF	F313	Metal Forming & Machining	4	MF	F341	Design of Machine Tools	3
MF	F312	Tool & Fixture Design	3	MF	F343	Casting & Welding	4
MF	F311	Mechatronics & Automation	3	MF	F342	Computer Aided Design	4
		First Discipline Electives	6	MF	F344	Engineering Optimization	2
		Second Discipline Electives	6			First Discipline Elective	3
						Second Discipline Electives	6
			22				22
	F	First Semester	U		S	Second Semester	U
			6 9	BITS F4	112 Prac	ctice School - II	20
	MATH ECON ECON ECON BITS Fr ECON ECON MF	First Discipline Fasame as F Fasame as F	First Semester Same as First degree Programme First Semester MATH F211 Mathematics III ECON F211 Principles of Economics ECON F212 Fundamentals of Finance & Accounts Mathematical & Statistical Methods ECON F214 Economic Environment of Business Humanities Elective BITS F225 Environmental Studies FIRST Semester ECON F311 International Economics ECON F312 Money Banking & Financial Markets ECON F313 Issues in Economic Development MF F212 Fluid Mechanics MF F214 Applied Thermodynamics MF F215 Mechanical Engineering Laboratory MF F211 Mechanics of Solids MF F213 Materials Science & Engineering First Semester MF F313 Metal Forming & Machining MF F311 Mechatronics & Automation First Discipline Electives First Semester First Semester First Discipline Electives	First Semester	Content	Company	Same as First degree Programme First Semester

			Gemester-wise pattern for com (M.Sc. Economics	•		-	•	
Year			First Semester	U	J.L. WICC		econd Semester	U
ı	S	ame as	First degree Programme		Sa	ame as	First degree Programme	
			First Semester	U			econd Semester	U
	MATH	F211	Mathematics III	3	MGTS	F211	Principles of Management	3
	ECON	F211	Principles of Economics	3	ECON	F241	Econometric Methods	3
	ECON	F212	Fundamentals of Finance &	3	ECON	F242	Microeconomics	3
			Accounts		ECON	F243	Macroeconomics	3
II	ECON	F213	Mathematical & Statistical Methods	3	ECON	F244	Economics of Growth & Development	3
	ECON	F214	Economic Environment of Business	3			Humanities Electives	5
			Humanities Electives	3				
	BITS	F225	Environmental Studies	3				
				21				20
Summe	er		BITS F221 Practice Sc	chool	-1 (for I			ı
			First Semester	U		S	econd Semester	U
	ECON	F311	International Economics	3	ECON	F341	Public Finance Theory & Policy	3
	ECON	F312	Money Banking & Financial Markets	3	ECON	F342	Applied Econometrics	3
	ECON	F313	Issues in Economic Development	3	ECON	F343	Economic Analysis of Public Policy	3
III	ME	F212	Fluid Mechanics	3	ME	F242	IC Engines	2
	ME	F214	Applied Thermodynamics	3	ME	F241	Machine Design & Drawing	4
	ME	F215	Mechanical Engineering Lab	2	ME	F244	Kinematics & Dynamics of Machinery	3
	ME	F211	Mechanics of Solids	3	ME	F243	Production Techniques I	3
	ME	F213	Materials Science & Engineering	2				
				22				21
			First Semester	U		S	econd Semester	U
	ME	F311	Heat Transfer	4	ME	F341	Prime Movers and Fluid Machines	3
D.7	ME	F312	Advanced Mechanics of Solids	3	ME	F343	Mechanical Vibrations	3
IV	ME	F313	Production Techniques- II	4	ME	F342	Computer Aided Design	4
			First Discipline Electives	6	ME	F344	Engineering Optimization	2
			Second Discipline Electives	6			First Discipline Electives	6
							Second Discipline Electives	6
				23				24
			First Semester	U		S	econd Semester	U
V	First Dis		Electives Thesis	6 9	BITS F4	412 F	Practice School - II	20

		S	Gemester-wise pattern for cor	•		_	•	
Year			(M.Sc. Mathematic	S WI	th B.E. (cal) Second Semester	U
1	Sa		First degree Programme	_	Sa		First degree Programme	Ť
-	"		First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON		Principles of Economics	3
	MATH	F212	Optimization	3			or	
	MATH	F213	Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH	F214	Elementary Real Analysis	3	MATH		Mathematical Methods	3
II	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
			Humanities Elective	3	MATH		Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH		Measure & Integration	3
	Biio	1 220	Environmental etaales		1417 (1111	1277	Humanities Electives	5
				21	-		Transaction Electives	20
Summ	er		BITS F221 Practice S		l -1 (for	PS Ont	tion Only)	20
Oumin			First Semester	U	1-1 (101		Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH		Introduction to Functional Analysis	3
	MATH	F312	Ordinary Differential Equations	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
III	CHE	F211	Chemical Process Calculations	3	CHE	F241	Heat Transfer	3
	CHE	F212	Fluid Mechanics	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F214	Engineering Chemistry	3	CHE	F243	Material Science & Engineering	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F244	Separation Processes I	3
			,	21				21
			First Semester	U			Second Semester	U
	CHE	F311	Kinetics & Reactor Design	3	CHE	F341	Chemical Engineering Laboratory II	3
	CHE	F312	Chemical Engineering Laboratory I	3	CHE	F342	Process Dynamics & Control	3
IV	CHE	F313	Separation Processes II	3	CHE	F343	Process Design Principles II	3
	CHE	F314	Process Design Principles I	3			First Discipline Electives	9
			First Discipline Electives	6			Second Discipline Electives	6
			Second Discipline Electives	3			,	
			,	21	1			24
			First Semester	U			Second Semester	U
V	Second BTS F4	Discip	line Electives hesis	6	BITS F		ctice School - II	20

			Semester-wise pattern for	com	posite [Dual De	gree Programmes	
			(M.Sc. Mathemati	cs wit	th B.E.	Civil En	ngineering)	
Year		F	First Semester	U			Second Semester	U
I	San	ne as F	irst degree Programme			Same	as First degree Programme	
Same as First degree Programme					Second Semester	U		
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	MATH	F212	Optimization	3			or	
	MATH	F213	Discrete Mathematics	3	MGTS	F211	Principles of Management	3
п	MATH	F214	Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
"	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
			Humanities Elective	3	MATH	F243	Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH	F244	Measure & Integration	3
							Humanities Electives	5
				21				20
Summe	er		BITS F221 Practice S	Schoo	ol -1 (for	PS Op	otion Only)	
		F	First Semester	U			Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	3
	MATH	F312	•	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
	CE	F211	Mechanics of Solids	3	CE	F241	Analysis of structures	3
III	CE	F212	Transport Phenomena	3	CE	F242	Construction Planning & Technology	3
	CE	F214	Construction Materials	3	CE	F243	Soil Mechanics	4
	CE	F213	Surveying	4	CE	F244	Highway Engineering	4
				22				23
		F	First Semester	U			Second Semester	U
	CE	F311	Design of Concrete Structures	4	CE	F342	Water & Waste Water Treatment	4
	CE	F312	Hydraulic Engineering	4	CE	F341	Hydrology & Water Resources Engineering	3
IV	CE	F313	Foundation Engineering	3	CE	F343	Design of Steel Structures	3
			First Discipline Electives	6			First Discipline Electives	9
			Second Discipline Electives	3			Second Discipline Electives	3
				20				22
•		F	First Semester	U			Second Semester	U
V	Second BTS F4		oline Electives Thesis	6 9	BITS F	412 Pra	ctice School - II	20

			Semester-wise pattern for co	•		_	•	
Year	I		(M.Sc. Mathematics v	with I	B.E. Cor		Science) Second Semester	U
I	Sa		First degree Programme	0	9		First degree Programme	0
•	Sal		First Semester	U	3		Second Semester	U
	MATH		Mathematics III	3	ECON	F211	Principles of Economics	3
	MATH		Optimization	3	LOON	1211	or	
	MATH		Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH		Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
II	MATH		Algebra I	3	MATH		Operations Research	3
	IVIZITI	1210	Humanities Elective	3	MATH	F243	Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH	_	Measure & Integration	3
	ыю	F223	Environmental Studies	3	IVIATO	FZ44	Humanities Electives	5
				21	_		numanilies Electives	20
Cumm	<u> </u>		DITC F224 Dreation (al 4 /fa	* DC O	etion Only)	20
Summe	er 		BITS F221 Practice S	U	01 -1 (10		Second Semester	U
	MATH			3	MATH		Introduction to Functional	U
	IVIATH	гэн	Introduction to Topology	3	IVIATO	F341	introduction to Functional	
	MATH	F312	Ordinary Differential Equations	3			Analysis	3
					MATH	F342	Differential Geometry	3
Ш	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
	CS	F215	Digital Design	4	CS	F241	Microprocessors & Interfacing	4
	CS	F214	Logic in Computer Science	3	cs	F212	Database Systems	4
	cs	F213	Object Oriented Programming	4	cs	F211	Data Structures & Algorithms	4
				20				21
			First Semester	U		;	Second Semester	U
	CS	F351	Theory of Computation	3	CS	F363	Compiler Construction	3
	cs	F372	Operating Systems	3	cs	F364	Design and Analysis of Algorithms	3
	CS	F342	Computer Architecture	4	CS	F303	Computer Networks	4
IV	cs	F301	Principles of Programming Languages	2			Fist Discipline Elective	6
			First Discipline Electives	3			Second Discipline Electives	6
			Second Discipline Electives	6			·	
				21				22
			First Semester	U			Second Semester	U
V	First Di	scipline	e Electives Thesis	6	BITS F4		ctice School - II	20

V	1		(M.Sc. Mathematics wi	1	. Electri		·	
Year	C		First Semester	U	- C-		Second Semester	U
<u> </u>	Sai		First degree Programme First Semester	U	36		First degree Programme Second Semester	U
	MATH		Mathematics III	3	ECON		Principles of Economics	3
	MATH		Optimization	3	LCON	1211	or	3
	MATH		Discrete Mathematics	3	MGTS	E211	Principles of Management	3
	MATH	_	Elementary Real Analysis	3	MATH		Mathematical Methods	3
Ш	MATH		Algebra I	3	MATH		Operations Research	3
11	IVIATO	F2 15	Algebra i	3			•	3
			Humanitias Elective	_	MATH	_	Graphs & Networks	
	DITO	5005	Humanities Elective	3	MATH	F244	Measure & Integration	3
	BITS	F225	Environmental Studies	3				_
					4		Humanities Electives	5
			DITO FOOA Bee etter O	21	4 (6 5	0.0-4	01-1	20
umm	er		BITS F221 Practice S		-1 (for P		• • • • • • • • • • • • • • • • • • • •	
	NAATU		First Semester	U	NAATI I		Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional	
	MATH	F312	Ordinary Differential Equations	3			Analysis	3
	MATH	F313	Numerical Analysis	3	MATH	F342	Differential Geometry	3
	EEE	F212	Electromagnetic Theory	3	MATH	F343	Partial Differential Equations	3
III	EEE	F211	Electrical Machines	4	EEE	F243	Signals and Systems	3
	EEE	F214	Electronic Devices	3	EEE	F244	Microelectronic Circuits	3
	EEE	F215	Digital Design	4	EEE	F241	Microprocessors &	
							Interfacing	4
					EEE	F242	Control Systems	3
				23	1		•	22
		F	First Semester	U		5	Second Semester	U
	EEE	F311	Communication Systems	4	EEE	F341	Analog Electronics	4
	EEE	F313	Analog & Digital VLSI Design	3	EEE	F342	Power Electronics	4
					EEE	F312	Power Systems	3
IV			First Discipline Electives	6			Fist Discipline Elective	6
			Second Discipline Electives	8			Second Discipline Elective	4
				21	1			21
		F	First Semester	U			Second Semester	U
V	First D	iscipline	e Electives	3	RITS F	112 Dra	ctice School - II	20
	BTS F4	123T	Thesis	9	1511011	712 I Ia	otioo oorioor - ii	~

			mester-wise pattern for cor					
Year			M.Sc. Mathematics with B.E	U	ctronics		munication) econd Semester	U
ı	Sai		irst degree Programme	Ť	Sa		First degree Programme	
-			First Semester	U			econd Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	MATH	F212	Optimization	3			or	
	MATH	F213	Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH	F214	Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
Ш	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
					MATH	F243	Graphs & Networks	3
			Humanities Elective	3	MATH	F244	Measure & Integration	3
	BITS	F225	Environmental Studies	3			Humanities Electives	5
_				21				20
Summe	r		BITS F221 Practice Sch	1	1 (for PS			
			First Semester	U		Se	econd Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	3
	MATH	F312	Ordinary Differential Equations	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
III	ECE	F212	Electromagnetic Theory	3	ECE	F241	Microprocessors & Interfacing	4
	ECE	F215	Digital Design	4	ECE	F242	Control Systems	3
	ECE	F211	Electrical Machines	4	ECE	F243	Signals and Systems	3
	ECE	F214	Electronic Devices	3	ECE	F244	Microelectronic Circuits	3
				23				22
			First Semester	U			econd Semester	U
	ECE	F311	Communication Systems	4	ECE	F341	Analog Electronics	4
	ECE	F315	Digital Signal Processing	4	ECE	F344	Information Theory & Coding	3
V	ECE	F314	Electromagnetic Fields & Microwave Engineering	3	ECE	F343	Communication Networks	3
			First Discipline Electives	3			First Discipline Electives	6
			Second Discipline Electives	7			Second Discipline Electives	5
				21				21
	First Semester			U		Se	econd Semester	U
V	First Dis		Electives nesis	6 9	BITS F4	12 Prac	etice School - II	20

		S	Semester-wise pattern for com					
Year			(M.Sc. Mathematics with B.E. First Semester	Llec	tronics		rumentation) Second Semester	U
1	Sa	me as	First degree Programme	<u> </u>	Sa		First degree Programme	<u> </u>
-			First Semester	U	-		Second Semester	U
	MATH	F211	Mathematics III	3	ECON		Principles of Economics	3
	MATH	F212	Optimization	3			or	
	MATH	F213	Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH	F214	Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
II	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
			Humanities Elective	3	MATH	F243	Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH	F244	Measure & Integration	3
							Humanities Electives	5
				21				20
Summe	er		BITS F221 Practice S	choc	l -1 (for	PS O	otion Only)	L
			First Semester	U		,	Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	3
	MATH	F312	Ordinary Differential Equations	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
III	INSTR	F212	Electromagnetic Theory	3	INSTR	F241	Microprocessors & Interfacing	4
	INSTR	F215	Digital Design	4	INSTR	F242	Control Systems	3
	INSTR	F211	Electrical Machines	4	INSTR	F243	Signals & Systems	3
	INSTR	F214	Electronic Devices	3	INSTR	F244	Microelectronic Circuits	3
				23				22
			First Semester	U			Second Semester	U
	INSTR	F311	Electronic Instruments & Instrumentation Technology	4	INSTR	F341	Analog Electronics	4
	INSTR	F312	Transducers and Measurement Systems	3	INSTR	F342	Power Electronics	4
IV	INSTR	F313	Analog & Digital VLSI Design	3	INSTR	F343	Industrial Instrumentation & Control	3
			First Discipline Electives	3			Fist Discipline Elective	6
			Second Discipline Electives	8			Second Discipline Electives	4
				21				21
			First Semester	U		(Second Semester	U
V		First Semester First Discipline Electives BTS F423T Thesis			BITS F	412 Pra	actice School - II	20

			Semester-wise pattern for c	•				
Year			(M.Sc. Mathematics First Semester	s wit	h B.E. N	/lanufa	Second Semester	U
l	Sai		First degree Programme	U		Samo	as First degree Programme	-
	Jai		First Semester	U	<u> </u>	Janie a	Second Semester	U
	MATH		Mathematics III	3	ECON	F211	Principles of Economics	3
	MATH		Optimization	3	LOON	1211	or	
	MATH		Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH		Elementary Real Analysis	3	MATH		Mathematical Methods	3
Ш	MATH		Algebra I	3	MATH		Operations Research	3
		12.0	Humanities Elective	3	MATH		Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH	_	Measure & Integration	3
	5110	1 220	Livilorimontal otdatoo				Humanities Electives	5
							Turnariilos Electivos	
				21	_			20
Summ	er		BITS F221 Pract		School -	-1 (for	PS Option Only)	1
	First Semester					(Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	3
	MATH	F312	Ordinary Differential Equations	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
	MF	F212	Fluid Mechanics	3	MF	F243	Manufacturing Processes	3
Ш	MF	F214	Applied Thermodynamics	3	MF	F241	Machine Design & Drawing	4
	MF	F215	Mechanical Engineering Laboratory	2	MF	F244	Kinematics & Dynamics of Machinery	3
	MF	F211	Mechanics of Solids	3	MF	F242	Manufacturing Management	2
	MF	F213	Materials Science & Engineering	2				
				22				21
			First Semester	U			Second Semester	U
	MF	F313	Metal Forming & Machining	4	MF	F341	Design of Machine Tools	3
	MF	F312	Tool & Fixture Design	3	MF	F343	Casting & Welding	4
IV	MF	F311	Mechatronics & Automation	3	MF	F342	Computer Aided Design	4
			First Discipline Electives	6			First Discipline Electives	3
			Second Discipline Elective	6			Second Discipline Elective	6
				22				20
			First Semester	U			Second Semester	U
V	First D BTS F	•	e Electives Thesis	6 9	BITS F	412 Pra	actice School - II	20

		S	emester-wise pattern for c	-		_	_	
Year			(M.Sc. Mathemat	ics w	ith B.E.		nical) Second Semester	U
l ear	San		irst degree Programme	-			s First degree Programme	+ •
'	Sai		irst Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	MATH	F212	Optimization	3	LOON	1211	or	~
	MATH	F213	Discrete Mathematics	3	MGTS	F211	Principles of Management	3
	MATH	F214	Elementary Real Analysis	3	MATH	F241	Mathematical Methods	3
П	MATH	F215	Algebra I	3	MATH	F242	Operations Research	3
••			Humanities Elective	3	MATH	F243	Graphs & Networks	3
	BITS	F225	Environmental Studies	3	MATH	_	Measure & Integration	3
							Humanities Electives	5
				21				20
Summ	er		BITS F221 Practice S	choo	l -1 (for	PS Opt	tion Only)	
		F	irst Semester	U			Second Semester	U
	MATH	F311	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	
	MATH	F312	Ordinary Differential Equations	3	МАТН	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
Ш	ME	F212	Fluid Mechanics	3	ME	F242	IC Engines	2
111	ME	F214	Applied Thermodynamics	3	ME	F241	Machine Design & Drawing	4
	ME	F215	Mechanical Engineering Lab	2	ME	F244	Kinematics & Dynamics of Machinery	3
	ME	F211	Mechanics of Solids	3	ME	F243	Production Techniques I	3
	ME	F213	Materials Science & Engineering	2				
				22				21
	First Se	emeste	7	U	Second	d Seme	ster	U
	ME	F311	Heat Transfer	4	ME	F341	Prime Movers and Fluid Machines	3
	ME	F312	Advanced Mechanics of Solids	3	ME	F343	Mechanical Vibrations	3
IV	ME	F313	Production Techniques-II	4	ME	F342	Computer Aided Design	4
			First Discipline Electives	6			First Discipline Electives	9
			Second Discipline Electives	3			Second Discipline Electives	3
					_			
			inat Occupation	20			0	22
17	0-4		irst Semester	U			Second Semester	U
V	Second BTS F4		line Electives hesis	6 9	BITS F	412 Pra	ctice School - II	20

			Semester-wise pattern for c					
Year	I		(M.Sc. Physic	s with	n B.E. C		l) Second Semester	U
l ear	0.	ama aa	First degree Programme	U	6,		First degree Programme	U
'	3.	aille as	First Semester	U	36		Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4	LOON	1211	or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Sumn	ner		BITS F221 Practice	e Scho	ool -1(fo	r PS O	otion Only)	
			First Semester	U		S	Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
	CHE	F211	Chemical Process Calculations	3	PHY	F344	Advanced Physics Laboratory	3
III	CHE	F212	Fluid Mechanics	3	CHE	F241	Heat Transfer	3
	CHE	F214	Engineering Chemistry	3	CHE	F242	Numerical Methods for Chemical Engineers	3
	CHE	F213	Chemical Engineering Thermodynamics	3	CHE	F243	Material Science & Engineering	3
					CHE	F244	Separation Processes I	3
				21				24
			First Semester	U		S	Second Semester	U
	CHE	F311	Kinetics & Reactor Design	3	CHE	F341	Chemical Engineering Laboratory II	3
	CHE	F312	Chemical Engineering Laboratory I	3	CHE	F342	Process Dynamics & Control	3
IV	CHE	F313	Separation Processes II	3	CHE	F343	Process Design Principles II	3
	CHE	F314	Process Design Principles I	3			First Discipline Electives	9
			First Discipline Electives	6			Second Discipline Electives	6
			Second Discipline Electives	3				
				21				24
			First Semester	U		S	Second Semester	U
>	Secon BTS F		pline Electives Thesis	6 9	BITS F4	112 Pra	ctice School - II	20

			Semester-wise pattern for co (M.Sc. Phys				ee Programmes	
Year			First Semester	U			Second Semester	U
I	Sa	me as	First degree Programme		S	ame a	s First degree Programme	
			First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4			or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
Ì	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21	1			20
Summe	er		BITS F221 Pract	tice S	chool -	1(for P	S Option Only)	Į.
			First Semester	U		-	Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
	CE	F211	Mechanics of Solids	3	CE	F241	Analysis of structures	3
III	CE	F212	Transport Phenomena	3	CE	F242	Construction Planning & Technology	3
	CE	F214	Construction Materials	3	CE	F243	Soil Mechanics	4
	CE	F213	Surveying	4	CE	F244	Highway Engineering	4
				22				23
			First Semester	U			Second Semester	U
	CE	F311	Design of Concrete Structures	4	CE	F342	Water & Waste Water Treatment	4
	CE	F312	Hydraulic Engineering	4	CE	F341	Hydrology & Water	
	CE	F313	Foundation Engineering	3			Resources Engineering	3
IV			First Discipline Electives	9	CE	F343	Design of Steel Structures	3
			Second Discipline Electives	3	PHY	F344	Advanced Physics Laboratory	3
							First Discipline Electives	6
							Second Discipline Electives	3
				23				22
			First Semester	U			Second Semester	U
V	Second BTS F4		ipline Electives Thesis	6 9	BITS F	412 Pra	actice School - II	20

			Semester-wise pattern for co	•		_	•	
Year			First Semester	U	Comp	ator oc	Second Semester	U
ı	Sa	me as	First degree Programme			Same a	s First degree Programme	
			First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4			or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism &		PHY	F242	Quantum Mechanics I	3
			Optics Laboratory	2	PHY	F243	Mathematical Methods of	
			Humanities Elective	3			Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Summe	er		BITS F221 Practice Sc	hool	-1 (for	PS Opt	ion Only)	-1
	First Semester						Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
	CS	F215	Digital Design	4	PHY	F344	Advanced Physics	
Ш	CS	F214	Logic in Computer				Laboratory	3
Ш			Science	3	CS	F241	Microprocessors &	
	cs	F222	Discrete Structures For				Interfacing	4
			Computer Science	3	cs	F212	Database Systems	4
	cs	F213	Object Oriented		CS	F211	Data Structures & Algorithms	4
			Programming	4				
				23				24
			First Semester	U			Second Semester	U
	CS	F351	Theory of Computation	3	cs	F363	Compiler Construction	3
	CS	F372	Operating Systems	3	CS	F364	Design and Analysis of	
	CS	F342	Computer Architecture	4			Algorithms	3
IV	cs	F301	Principles of		cs	F303	Computer Networks	4
			Programming Languages	2			First Discipline Electives	9
			First Discipline Electives	6			Second Discipline Electives	3
			Second Discipline Electives	3				
				21				22
			First Semester	U			Second Semester	U
٧	Secon		pline Electives Thesis	6	BITS	412 Pra	actice School - II	20

			Semester-wise pattern for co (M.Sc. Physics with E	•		_	•	
Year			First Semester	U			Second Semester	U
I	Sa	me as	First degree Programme		Sa	me as	First degree Programme	
			First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4			or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Summ	er		BITS F221 Pra	ctice S	School -	-1(for	PS Option Only)	
			First Semester	U		ļ	Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
Ш	EEE	F211	Electrical Machines	4	EEE	F243	Signals and Systems	3
	EEE	F214	Electronic Devices	3	EEE	F244	Microelectronic Circuits	3
	EEE	F215	Digital Design	4	EEE	F241	Microprocessors & Interfacing	4
					EEE	F242	Control Systems	3
				20				22
			First Semester	U		;	Second Semester	U
	EEE	F311	Communication Systems	4	EEE	F341	Analog Electronics	4
	MATH	F212	Optimization	3	EEE	F342	Power Electronics	4
			or		EEE	F312	Power Systems	3
	ME	F344	Engineering Optimization	2	PHY	F344	Advanced Physics Laboratory	3
IV	EEE	F313	Analog & Digital VLSI Design	3			First Discipline Electives	6
			First Discipline Electives	9			Second Discipline Electives	4
			Second Discipline Electives	5				
				23/24				24
			First Semester	U		;	Second Semester	U
V	Second BTS F4		ipline Electives Thesis	3 9	BITS F4	412 Pr	actice School - II	20

			Semester-wise pattern for c	•		_	•	
Year			(M.Sc. Physics with B.E		tronics	& Con	<u> </u>	U
rear			First degree Bregremme	U			Second Semester	U
- 1	38	ame as	First Garage Programme	U	3	ame a	s First degree Programme	
	MATH	F244	First Semester Mathematics III	3	FCON	F244	Second Semester	U
	PHY	F211	Classical Mechanics	4	ECON	FZ I I	Principles of Economics or	3
	PHY	F211		3	MOTO	E211		3
	PHY	F212	Electromagnetic Theory I	3	PHY		Principles of Management	4
	ГПІ	F213	Optics Floatricity Magnetism 8	3	ЕПТ	F24 I	Electromagnetic Theory II	4
П	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Sumn	ner		BITS F221 Pract		hool -1	(for P	S Option Only)	
			First Semester	U			Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY		Nuclear & Particle Physics	3
Ш	ECE	F215	Digital Design	4	ECE		Microprocessors & Interfacing	4
	ECE	F211	Electrical Machines	4	ECE		Control Systems	3
	ECE	F214	Electronic Devices	3	ECE	F243	Signals and Systems	3
					ECE	F244	Microelectronic Circuits	3
				20	_			22
			First Semester	U			Second Semester	U
	ECE	F311	Communication Systems	4	ECE		Analog Electronics	4
	ECE	F315	Digital Signal Processing	4	ECE	F344	Information Theory & Coding	3
	ECE	F314	Electromagnetic Fields & Microwave Engineering	3	ECE	F343	Communication Networks	3
IV			First Discipline Electives	9	PHY	F344	Advanced Physics Laboratory	3
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	5
				23	1			24
			First Semester	U			Second Semester	U
V	Second BTS F4		ipline Electives Thesis	4 9	BITS F	412 Pra	actice School - II	20

		Se	mester-wise pattern for o					
Year		Fi	rst Semester	U	li Offics d		econd Semester	U
ı	Sam		st degree Programme		Sa		First degree Programme	
<u> </u>			rst Semester	U			econd Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4			or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of	
	BITS	F225	Environmental Studies	3			Physics	3
					PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Summe	r		BITS F221 Practice S	School	-1(for P		• • • • • • • • • • • • • • • • • • • •	
			rst Semester	U			econd Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
III	INSTR	F215	Digital Design	4	INSTR		Microprocessors & Interfacing	4
	INSTR	F211	Electrical Machines	4	INSTR	F242	Control Systems	3
	INSTR	F214	Electronic Devices	3	INSTR		Signals & Systems	3
					INSTR	F244	Microelectronic Circuits	3
				20				22
		Fi	rst Semester	U		Se	econd Semester	U
	INSTR	F311	Electronic Instruments & Instrumentation Technology	4	INSTR	F341	Analog Electronics	4
	INSTR	F312	Transducers and Measurement Systems	3	INSTR	F342	Power Electronics	4
IV	INSTR	F313	Analog & Digital VLSI Design	3	INSTR	F343	Industrial Instrumentation & Control	3
			First Discipline Electives	9	PHY	F344	Advanced Physics Laboratory	3
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	4
				22				24
		Fi	rst Semester	U		Se	econd Semester	U
V	Second BTS F4		line Electives hesis	5 9	BITS F4	112 Pract	tice School - II	20

			Semester-wise pattern for co			_	•	
	1		(M.Sc. Physics w		.E. Man			
Year			First Semester	U			Second Semester	U
ı	Sa	me as	First degree Programme		S		First degree Programme	
			First Semester	U			Second Semester	U
	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4			or	
	PHY	F212	Electromagnetic Theory I	3	MGTS	F211	Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Summe	er		BITS F221 Praction	e Sc	hool -1	(for PS	Option Only)	
			First Semester	U		;	Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
	MF	F212	Fluid Mechanics	3	PHY	F344	Advanced Physics Laboratory	3
	MF	F214	Applied Thermodynamics	3	MF	F243	Manufacturing Processes	3
III	MF	F215	Mechanical Engineering Laboratory	2	MF	F241	Machine Design & Drawing	4
	MF	F211	Mechanics of Solids	3	MF	F244	Kinetics & Dynamics of Machinery	3
	MF	F213	Materials Science & Engineering	2	MF	F242	Manufacturing Management	2
				22				24
			First Semester	U		;	Second Semester	U
	MF	F313	Metal Forming & Machining	4	MF	F341	Design of Machine Tools	3
	MF	F312	Tool & Fixture Design	3	MF	F343	Casting & Welding	4
IV	MF	F311	Mechatronics & Automation	3	MF	F342	Computer Aided Design	4
1 V			First Discipline Electives	9	MF	F344	Engineering Optimization	2
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	4
				22				23
		·	First Semester	U		,	Second Semester	U
V	Secono BTS F4		ipline Electives Thesis	5 9	BITS F	412 Pra	ctice School - II	20

			Semester-wise pattern for co	•		_	•	
	1		(M.Sc. Physics		B.E. Me			
Year	0-		First Semester	U			Second Semester	U
I	Sa	ime as	First degree Programme		3		S First degree Programme	
	N 4 A TI I	F044	First Semester	U	FOON		Second Semester	U
	MATH		Mathematics III	3	ECON	F211	Principles of Economics	3
	PHY	F211	Classical Mechanics	4	мото	E044	or Disciples of Management	
	PHY	F212	Electromagnetic Theory I	3	MGTS		Principles of Management	3
	PHY	F213	Optics	3	PHY	F241	Electromagnetic Theory II	4
II	PHY	F214	Electricity, Magnetism & Optics Laboratory	2	PHY	F242	Quantum Mechanics I	3
			Humanities Elective	3	PHY	F243	Mathematical Methods of Physics	3
	BITS	F225	Environmental Studies	3	PHY	F244	Modern Physics Laboratory	2
							Humanities Electives	5
				21				20
Summe	er		BITS F221 Pract	tice S	chool -	-1 (for I	PS Option Only)	
	First Semester						Second Semester	U
	PHY	F311	Quantum Mechanics II	3	PHY	F341	Solid State Physics	3
	PHY	F312	Statistical Mechanics	3	PHY	F342	Atomic & Molecular Physics	3
	PHY	F313	Computational Physics	3	PHY	F343	Nuclear & Particle Physics	3
	ME	F212	Fluid Mechanics	3	PHY	F344	Advanced Physics Laboratory	3
Ш	ME	F214	Applied Thermodynamics	3	ME	F242	IC Engines	2
	ME	F215	Mechanical Engineering Lab	2	ME	F241	Machine Design & Drawing	4
	ME	F211	Mechanics of Solids	3	ME	F244	Kinematics & Dynamics of Machinery	3
	ME	F213	Materials Science & Engineering	2	ME	F243	Production Techniques I	3
				22				24
			First Semester	U			Second Semester	U
	ME	F311	Heat Transfer	4	ME	F341	Prime Movers and Fluid Machines	3
	ME	F312	Advanced Mechanics of Solids	3	ME	F343	Mechanical Vibrations	3
IV	ME	F313	Production Techniques- II	4	ME	F342	Computer Aided Design	4
			First Discipline Electives	9	ME	F344	Engineering Optimization	2
			Second Discipline Electives	3			First Discipline Electives	6
							Second Discipline Electives	3
				23				21
			First Semester	U			Second Semester	U
V	Second BTS F4		ipline Electives Thesis	6 9	BITS F	412 Pra	actice School - II	20