

PROPOSED SCHEME OF STUDIES

S.No.	Course Code	Course Title	Theory Credit Hr.	Lab Credit Hr.	Total Cd Hr. Per Semester	Symbol	Pre Req Course Code	Pre Req Course Outline
1	COM100	Foundation English*	0	0		-	-	
2	MTH011	Basic College Mathematics**	0	0		-	-	
1	COM117	Functional English	3	0		EW		
2	GSC103	Applied Physics	3	1		NS		
3	REL101	Islamic Studies	3	0		IS		
4	BTM101	Introduction to Computing	2	1		CC		
5	MTH107	Calculus & Analytical Geometry	3	0		QR		
6	EPE201	Computer Aided Engineering Design	0	1		CC		
Total - Semester 1			14.00	3.00	17.00			
1	MTH012	Intermediate College Mathematics**	0	0		-	-	
2	BTM102	Basic Electrical Circuits	2	1		CC		
3	MAN101	Principles of Management	3	0		MG		
4	MTH204	Linear Algebra	3	0		QR		
5	COM119	Communication Skills	3	0		EW	COM117	Functional English
6	PSC301	Pakistan Studies	3	0		PS		
7	BTM103	Information and Communications Technology	2	1		CC		
Total - Semester 2			16.00	2.00	18.00			
1	CME104	Computer Programming & Problem Solving	2	1		CC		
2	ELE201	Digital Logic Design	3	1		CC		
3	MTH216	Complex Variables & Transforms	3	0		CC		
4	LAN 10*	Foreign Language I	3	0		AH		
5	BTM201	Renewable Energy	3	0		NS		
6	BTM202	Operating Systems	2	1		CC	BTM104	Information and Communications Technology
Total – Semester 3			16.00	3.00	19.00			
1	CME 203	Data Structure & Algorithms	3	1		CC	BTM101	Introduction to Computing
2	TCE 205	Signals and Systems	3	1		CC	MTH216	Complex Variables & Transforms
3	LAN 20**	Foreign Language II	3	0		AH	LAN 10*	Foreign Language I
4	CME 205	Microprocessor & Microcontroller Systems	3	1		CC	ELE 201	Digital Logic Design
5	COM 208	Technical Report Writing	3	0		EW	COM 119	Communication Skills
Total – Semester 4			15.00	3.00	18.00			
1	ACC 101	Introduction to Financial Accounting	3	0		MG		
2	BTM 301	Data Communication & Networks	2	1		CC		
3	HRM 301	Human Resource Management	3	0		MG		
4	ENG 203	Engineering Economics	3	0		SS		
5	ELE 419	Linear Control System	3	1		CC	TCE205	Signals and Systems
6	BTM 302	Technology Management	2	0		MG		
Total – Semester 5			16.00	2.00	18.00			
1	BTM 303	Organizational Behavior	3	0		SS		
2	IDE 400	Introduction to Enterprise Resource Planning	3	0		MG		
3	BTM 304	Sensors and Instrumentation	2	1		CC		

4	FIN 202	Digital Financial Management	3	0		MG		
5	BTM 305	Total Quality Management	3	0		MG		
6	BTM XXX	Elective I	2	1		XX		
Total – Semester 6			15.00	3.00	18.00			
1	BTM XXX	Elective II	2	1		XX		
2	BTM XXX	Elective III	3	0		XX		
3	IDE 401	Principles of Applied Mechatronics	2	1		CC		
4	BTM 401	Big Data and Cloud Computing	2	1		CC		
5	ENT 403	Small Business & Entrepreneurship	3	0		MG		
6	BTM 450	Final Year Project I	0	3		FY		
Total – Semester 7			12.00	6.00	18.00			
1	BTM 402	Emerging Trends in Connected Systems	3	1		CC	BTM302	Technology Management
2	BTM 403	Artificial Intelligence & Machine Learning	3	1		CC		
3	BTM 451	Final Year Project II	0	3		FY		
4	BTM 404	Cyber Physical Systems	3	1		CC		
5	BTM XXX	Elective IV	3	0		XX		
Total – Semester 8			12.00	6.00	18.00			
Grand Total			116.00	28.00	144.00			

SSC 100 Community Services to be offered as Non-Credited Course.

*This non-credit course will be taken by those students who have not been able to reach the desired level of competence in the English section of admission test

**This non-credit course will be taken by those students who have not been able to reach the desired level of competence in the Mathematics section of admission test

9-week Internship as well as Community Service are to be offered as non-credit hour.