

SCHEME OF STUDIES B.SC. (HONS.) INFORMATION TECHNOLOGY

w.e.f. WINTER SEMESTER 2024-2025			
Course No.	Title of Course	Credit Hours	Type
FIRST SEMESTER			
SSH-303	Ideology And Constitution Of Pakistan	2(2-0)	
CS-305	Applications Of Information And Communication Technologies	3(2-1)	
ECON-305	Introduction To Economics	2(2-0)	
PY-305	Basic Electronics	3(2-1)	
FA-310	Introduction To Arts And Humanities	2(2-0)	
SOC-311	Introduction To Sociology	2(2-0)	
ENG-313	Functional English	3(3-0)	
MATH-408	Quantitative Reasoning (I)	3(3-0)	
TGM-301	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		20(18-2)	
SECOND SEMESTER			
CS-306	Digital Logic Design	3(2-1)	
PY-307	Fundamentals Of Natural Sciences	3(2-1)	
CS-308	Programming Fundamentals	3(2-1)	
ENG-314	Expository Writing	3(3-0)	
IS-401 / SSH-306	Islamic Studies / Ethics	2(2-0)	
MATH-404	Linear Algebra	3(3-0)	
STAT-408	Quantitative Reasoning (Ii)	3(3-0)	
TGM-302	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		20(17-3)	
THIRD SEMESTER			
EDU-306	CIVICS AND COMMUNITY ENGAGEMENT	2(2-0)	
SE-401	SOFTWARE ENGINEERING	3(2-1)	
IS-403	روحانیت	Non-Credit	
CS-407	OPERATING SYSTEMS	3(2-1)	
MATH-407	MULTIVARIABLE CALCULUS	3(3-0)	

CS-409	OBJECT ORIENTED PROGRAMMING	3(2-1)	
BBA-412	FINANCIAL MANAGEMENT-I	3(3-0)	
TGM-401	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit	
Total Credit Hours		17(14-3)	

FOURTH SEMESTER			
BMS-402	Entrepreneurship	2(2-0)	
IS-402	ترجمہ قرآن	Non-Credit	
STAT-402	Statistics And Probability	3(2-1)	
CS-406	Data Communications And Networks	3(2-1)	
CS-408	Database Systems	3(2-1)	
CS-410	Data Structures And Algorithms	3(2-1)	
CS-412	Visual Programming	3(2-1)	
TGM-402	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		17(12-5)	
FIFTH SEMESTER			
CS-503	Design And Analysis Of Algorithm	3(2-1)	
IT-503	Information Technology Infrastructure	3(2-1)	
CS-507	Computer Organization And Assembly Language	3(2-1)	
IT-507	Database Administration And Management	3(2-1)	
CS-511	Artificial Intelligence	3(2-1)	
CS-513	Web Programming	3(2-1)	
CS-517	Introduction To Cyber Security	3(2-1)	
TGM-501	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		21(14-7)	
SIXTH SEMESTER			
CS-502	Data Encryption And Security	3(2-1)	
IT-502	System And Network Administration	3(2-1)	
CS-506	Big Data Analytics	3(2-1)	
CS-508	Cloud Computing	3(2-1)	
IT-510	Internet Of Things	3(2-1)	

CS-512	Mobile Application Development	3(2-1)	
TGM-502	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		18(12-6)	

SEVENTH SEMESTER			
IT-601	Human Computer Interaction	3(2-1)	
CS-605	Theory Of Automata	3(2-1)	
IT-605	Information Technology Project Management	3(2-1)	
BINFO-607	Scientific Writing	3(0-3)	
IT-607	Next Generation Networks	3(2-1)	
CS-611	Parallel And Distributed Computing	3(2-1)	
CS-621	Final Year Project-I	2(0-2)	
TGM-601	Tutorial Group Meeting For Soft Skills	Non-Credit	
Total Credit Hours		20(10-10)	
EIGHTH SEMESTER			
CS-618	Internship	2(0-2)	
CS-620	Seminar	1(1-0)	
CS-622	Final Year Project-Ii	4(0-4)	
Total Credit Hours		7(1-6)	