

Proposed Study Plan for BS (Information Technology) 2023 onward

4-Year Program (8 Regular Semesters)

BS(IT) -1 st Semester			
S. No.	Code	Course Title	Cr. Hr.
1	GE-301	Application of ICT	3 (2-3)
2	CC-301	Programming Fundamentals	4 (3-3)
3	GE-302	Applied Physics	3 (2-3)
4	GE-304	Calculus & Analytical Geometry	3 (3-0)
5	GE-303	Functional English	3 (3-0)
6	GE-305	Ideology and Constitution of Pakistan	2 (2-0)
	Total		18 (15-9)
2 nd Semester			
S. No.	Code	Course Title	Cr. Hr.
1	CC-311	Object Oriented Programming-1	4 (3-3)
2	CC-312	Digital Logic Design	3 (2-3)
3	MT-311	Linear Algebra	3 (3-0)
4	GE-311	Expository Writing	3 (3-0)
5	GE-312	Discrete Structures	3 (3-0)
6	GE-313	Islamic Studies/ Ethics	3 (3-0)
	Total		19 (17-6)
3 rd Semester			
S. No.	Code	Course Title	Cr. Hr.
1	CC-401	Data Structures & Algorithms	4 (3-3)
2	CC-402	Software Engineering-I	3 (3-0)
3	CC-403	Operating Systems	3 (2-3)
4	CC-404	Comp Organization & Assembly Lang.	3 (2-3)
5	CC-405	Artificial Intelligence	3 (2-3)
6	MT-401	Probability & Statistics	3 (3-0)
	Total		19 (15-12)
4 th Semester			
S. No.	Code	Course Title	Cr. Hr.
1	CC-411	Database Systems	4 (3-3)
2	CC-412	Information Security	3 (2-3)
3	CC-413	Computer Networks	3 (2-3)
4	GE-411	Introduction to Management	2 (2-0)
5	MT-411	Multivariate Calculus	3 (3-0)
6	IT-412	Web Technologies	3 (2-3)
	Total		18 (14-12)

5 th Semester			
S. No.	Code	Course Title	Cr. Hr.
1	IT-501	Database Administration and Management	3 (2-3)
2	IT-502	Theory of Automata	3 (2-3)
3	SS-501	Financial Accounting	3 (3-0)
4	IT-503	Virtual System and Services	3 (2-3)
5	CC-501	Analysis of Algorithms	3 (3-0)
6	IT-504	Parallel & Distributed Computing	3 (2-3)
	Total		18 (14-12)
6 th Semester			
S. No.	Code	Course Title	Cr. Hr.
1	EW-511	Technical & Business Writing	3 (3-0)
2	IT-511	Cloud Computing	3 (3-0)
3	IT-512	Information Technology Infrastructure	3 (2-3)
4	IT-513	Web Engineering	3 (2-3)
5	IT-514	System & Network Administration	3 (2-3)
6	IT-515	Mobile Application Development	3 (2-3)
	Total		18 (14-12)
7 th Semester			
S. No.	Code	Course Title	Cr. Hr.
1	CC-601	Final Year Project – I	2 (0-6)
2	IT-601	Cyber Security	3 (2-3)
3	IT-602	Enterprise Systems	3+0
5	GE-601	Professional Practices	2 (2-0)
	Total		12+4
8 th Semester			
S. No.	Code	Course Title	Cr. Hr.
1	CC-611	Final Year Project – II	4 (0-12)
2	IT-611	HCI & Computer Graphics	3 (2-3)
3	GE-611	Civics and Community Engagement	2 (2-0)
	GE-612	Entrepreneurship	2 (2-0)
	Total		11 (6-15)