

AG NIAZI UNIVERSITY SARGODHA

Department of Information Technology

BS Information Technology (BSIT) — 4-Year Degree Program Outline

Program Structure Overview

Degree Duration: 4 Years (8 Semesters) | **Total Credit Hours:** 129 | **Degree Focus:** Systems & Network Admin, Web/Mobile Engineering, Cloud & Cyber Security

Semester 1

#	Course Title	Credit Hours
1	Programming Fundamentals	3 + 1
2	Introduction to ICT	3
3	Calculus & Analytical Geometry	3
4	English Composition & Comprehension	3
5	Islamic Studies / Ethics	2
6	Pakistan Studies	2
Total Credit Hours		16

Semester 2

#	Course Title	Credit Hours
1	Object-Oriented Programming	3 + 1
2	Database Systems	3 + 1
3	Discrete Structures	3
4	Web Development	3
5	Communication & Presentation Skills	3
Total Credit Hours		17

Semester 3		
#	Course Title	Credit Hours
1	Data Structures & Algorithms	3 + 1
2	Computer Organization	3
3	Operating Systems	3 + 1
4	Probability & Statistics	3
5	Technical Writing	3
Total Credit Hours		17

Semester 4		
#	Course Title	Credit Hours
1	Computer Networks	3 + 1
2	Information Security	3
3	Software Engineering	3
4	Web Engineering	3 + 1
5	IT Project Management	3
Total Credit Hours		19

Semester 5		
#	Course Title	Credit Hours
1	System Analysis & Design	3
2	Cloud Computing	3
3	Database Administration	3
4	Human Computer Interaction	3
5	IT Elective-I	3
Total Credit Hours		15

Semester 6		
#	Course Title	Credit Hours
1	Network Administration	3
2	Cyber Security	3
3	Mobile Application Development	3
4	Data Analytics	3
5	IT Elective-II	3
Total Credit Hours		15

Semester 7		
#	Course Title	Credit Hours
1	Final Year Project-I	3
2	DevOps	3
3	E-Commerce	3
4	IT Elective-III	3
5	Entrepreneurship	3
Total Credit Hours		15

Semester 8		
#	Course Title	Credit Hours
1	Final Year Project-II	3
2	Cloud & Network Security	3
3	IT Governance	3
4	IT Elective-IV	3
5	University Elective	3
Total Credit Hours		15