



THE BEGUM NUSRAT BHUTTO WOMEN UNIVERSITY, SUKKUR

Scheme of Studies

BS Computer Science (4 Years)

1st Semester (First Year)

S.No	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	ECC101	English Composition & Comprehension	3+0	-
2.	PST201	Pakistan Studies & Global Perspective	3+0	-
3.	FAM201	Financial Accounting & Financial Management	3+0	-
4.	PHY101	Physics I	3+0	-
5.	MTH101	Calculus & Analytical Geometry	3+0	-
Total Cr. Hr.			15 (15+0)	

2nd Semester (First Year)

S.No	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	CSK102	Communication & Presentation skills	3+0	ECC101
2.	ISL101/ETH101	Islamic Studies / Ethics	3+0	-
3.	ECO105	Economics	2+0	-
4.	PHY102	Physics II	3+0	PHY101
5.	MTH202	Probability & Statistics	3+0	-
6.	MTH102	Linear Algebra	3+0	MTH101
Total Cr. Hr.			17(17+0)	

3rd Semester (Second Year)

S.No	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	TPW202	Technical & Business Writing	3+0	-
2.	MGT306	Organizational Behaviors	3+0	-
3.	MKT201	Principles of Marketing	3+0	-
4.	ICT101	Introduction to Information & Communication Technologies	2+1	-
5.	CSC101	Programming Fundamentals	3+1	-
6.	CSE101	Management Information System	3+0	-
Total Cr. Hr.			19(17+2)	



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4th Semester (Second Year)

S.No.	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	CSC102	Object Oriented Programming	3+1	CSC101
2.	CSC104	Discrete Structures	3+0	-
3.	CSE302	Web Engineering & Technologies	3+1	-
4.	CSC203	Software Engineering	3+0	-
5.	CSE201	e-Commerce	3+0	-
Total Cr. Hr.			17(15+2)	

5th Semester (Third Year)

S.No	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	CSC204	Theory of Automata	3+0	-
2.	CSC202	Data Structures & Algorithm	3+1	CSC102
3.	CSC103	Digital Logic Design	3+1	PHY102
4.	MTH203	Differential Equation	3+0	-
5.	MTH302	Numerical Computing	3+0	-
Total Cr. Hr.			17(15+2)	

6th Semester (Third Year)

S.No.	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	CSC201	Computer Organization & Assembly Language	3+1	-
2.	CSC304	Operating System	3+1	CSC202
3.	CSC205	Database Systems	3+1	CSC202
4.	CSC301	Design & Analysis Algorithm	3+0	CSC202
5.	CSC302	Compiler Construction	3+0	CSC204
Total Cr. Hr.			18(15+3)	

7th Semester (Final Year)

S.No.	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	MTH301	Graph Theory	3+0	-
2.	CSC303	Computer Networks	3+1	-
3.	MGT409	Entrepreneurship	2+0	-
4.	CSC401	Artificial Intelligence	3+1	CSC104
5.	CSC305	Information Security	3+0	-
6.	CSC498	Final Year Project I	0+3	-
Total Cr. Hr.			19(14+5)	



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8th Semester (Final Year)

S.No.	Course Code	Course Title	Cr. Hr.	Pre-Req
1.	CSC402	Parallel & Distributed Computing	3+0	CSC304
2.	PRP101	Professional Practices	3+0	-
3.	CSE401	Wireless Sensor Network	3+0	-
4.	CSE301	Digital Image Processing	2+1	-
5.	CSC499	Final Year Project II	0+3	CSC498
Total Cr. Hr.			15(11+4)	

Grand Total Credit Hours: 15+17+19+17+17+18+19+15 = 137

Computer Science (Electives)

S.No.	Course Code	Course Name	Cr. Hr.
1.	CSE101	Management Information Systems	3+0
2.	CSE201	e-Commerce	3+0
3.	CSE202	Computer Architecture	3+0
4.	CSE301	Python for Data Science	2+1
5.	CSE302	Web Engineering & Technologies	2+1
6.	CSE401	Machine Learning	3+0
7.	CSE402	Mobile Application Development	2+1
8.	CSE403	Digital Image Processing	2+1
9.	CSE404	Wireless Sensor Networks	3+0
10.	CSE404	Speech Processing	3+0
11.	CSE405	Network Security and Forensics	3+0
12.	CSE303	Computer Graphics	3+0
13.	CSE304	Data Mining	3+0
14.	CSE406	Blockchain Technology	3+0
15.	CSE407	Internet of Things	3+0
16.	CSE408	Web Security & Forensics	3+0
17.	CSE305	Introduction to Data Science	3+0
18.	CSE306	Computer Game Programming	3+0
19.	CSE409	Information Visualization	3+0
20.	CSE307	Computer & Internet Security	3+0
21.	CSE308	Data Analytics	2+1

Computer Lab

The BNBWU is equipped with modern computer lab facility for students with updated software required for the undergraduate level studies.

NB: For eligibility criteria, program duration, and degree completion requirements, please check out the admission policies and procedures given at the end of this document.