



THE BEGUM NUSRAT BHUTTO WOMEN UNIVERSITY, SUKKUR

Scheme of Studies

BS Artificial Intelligence

1st Semester (First Year)			
Course Code	Course Title	Domain	Cr. Hr.
CSC101	Programming Fundamentals	Core	4 (3-3)
ICT101	Application of Information & Communication Technologies	GER	3 (2-3)
CSC104	QR 1 (Discrete Structures)	GER	3 (3-0)
MTH101	QR 2 (Calculus and Analytic Geometry)	GER	3 (3-0)
ENG110	Functional English	GER	3 (3-0)
Total Credit Hours			16 (14-6)
2nd Semester (First Year)			
Course Code	Course Title	Domain	Cr. Hr.
CSC102	Object Oriented Programming	Core	4 (3-3)
CSC205	Database Systems	Core	4 (3-3)
CSC103	Digital Logic Design	Core	3 (2-3)
MTH303	Multivariable Calculus	Maths	3 (3-0)
MTH102	Linear Algebra	Maths	3 (3-0)
Total Credit Hours			17 (14-9)
3rd Semester (Second Year)			
Course Code	Course Title	Domain	Cr. Hr.
CSC202	Data Structures	Core	4 (3-3)
CSC305	Information Security	Core	3 (2-3)
CSC401	Artificial Intelligence	Core	3 (2-3)



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CSC303	Computer Networks	Core	3 (2-3)
CSC203	Software Engineering	Core	3 (3-0)
MTH202	Probability & Statistics	Maths	3 (3-0)
Total Credit Hours			19 (15-12)
4th Semester (Second Year)			
CSC201	Computer Organization & Assembly Language	Core	3 (2-3)
	Domain Core 1 (Programming for AI)	Domain Core	3 (2-3)
CSE401	Domain Core 2 (Machine Learning)	Domain Core	3 (2-3)
PHY103	Natural Science (Applied Physics)	GER	3 (2-3)
	Expository Writing	GER	3 (3-0)
ISL101/ETH101	Islamic Studies/ Ethics	GER	2 (2-0)
Total Credit Hours			17 (13-12)
5th Semester (Third Year)			
CSC304	Operating Systems	Core	3 (2-3)
CSC401	Domain Core 3 (Artificial Neural Networks & Deep Learning)	Domain Core	3 (2-3)
	Domain Core 4 (Knowledge Representation & Reasoning)	Domain Core	3 (2-3)
	Domain Elective 1	Domain Elective	3 (2-3)
	Domain Elective 2	Domain Elective	3 (2-3)
	Social Science (Example: Introduction to Management)	GER	2 (2-0)
Total Credit Hours			17 (12-15)
6th Semester (Third Year)			
CSE409	Domain Core 5 (Computer Vision)	Domain Core	3 (2-3)
CSC402	Domain Core 6 (Parallel & Distributed Computing)	Domain Core	3 (2-3)
	Domain Elective 3	Domain Elective	3 (2-3)



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	Domain Elective 4	Domain Elective	3 (2-3)
	Domain Elective 5	Domain Elective	3 (2-3)
	Domain Elective 6	Domain Elective	3 (2-3)
Total Credit Hours			18 (12-18)
7th Semester (Final Year)			
	Final Year Project - I	Core	2 (0-6)
CSC301	Analysis of Algorithms	Core	3 (3-0)
	Domain Elective 7	Domain Elective	3 (2-3)
MKT302	Elective Supporting Course (Example: Introduction to Marketing)	SS	3 (3-0)
TWP202	Technical & Business Writing	EN	3 (3-0)
MGT401	Entrepreneurship	GER	2 (2-0)
Total Credit Hours			16 (13-9)
8th Semester (Final Year)			
	Final Year Project - II	Core	4 (0-12)
PST201	Ideology and Constitution of Pakistan	GER	2 (2-0)
PRP101	Arts & Humanities (Professional Practices)	GER	2 (2-0)
CCE202	Civics and Community Engagement	GER	2 (2-0)
Total Credit Hours			10 (6-12)