BS ARTIFICIAL INTELLIGENCE (BSAI)

A Bachelor's degree in Artificial Intelligence is an undergraduate program that focuses on preparing students for a career in the growing field of AI and machine learning. The program typically covers a diverse range of topics such as programming, algorithms, data structures, neural networks, natural language processing, computer vision, and robotics. Students will develop a strong foundation in how to design, implement, and evaluate intelligent systems that can perform tasks typically requiring human intelligence. Graduates with a Bachelor's degree in Artificial Intelligence are equipped with the skills and knowledge needed to work as AI specialists, machine learning engineers, data scientists, and software developers in various industries.

Duration:

8 Semesters (4 Years)

Eligibility:

The minimum requirements for admission in a Bachelor degree program in Artificial Intelligence, is at least 50% or above marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification. The candidates for BS Artificial Intelligence with at least 50% or above marks in Intermediate with Pre Medical background (without Mathematics) will be required to pass deficiency courses of Mathematics of 6 credit hours within one year of their regular studies.

Admission Criteria:

Academic Qualification 60%

Test / Interview   40%

Class Timings:

(Monday – Friday)

Scholarships:

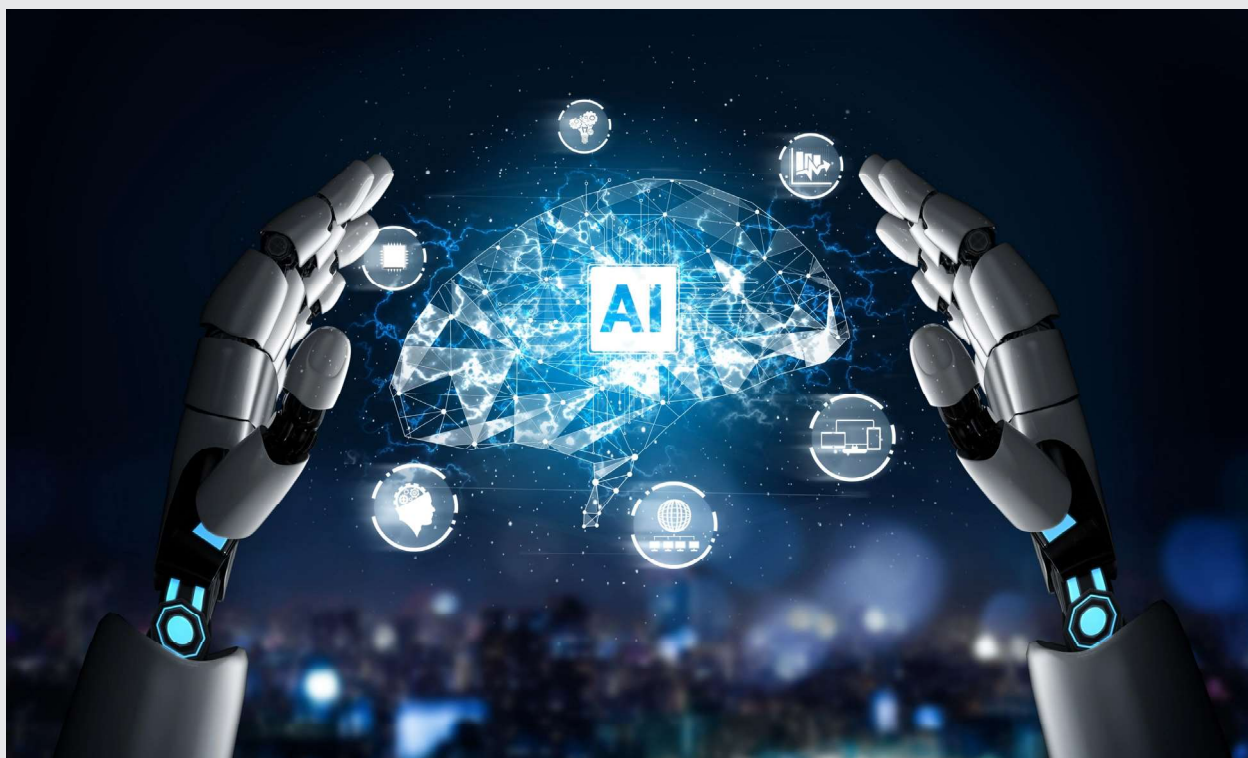Talent & need based scholarship (upto 100% on tuition fee)

Degree Completion:

For award of BS degree, a student must have:
a) Passed courses totaling at least 134 credit hours, including six credit hours of Final Year Project.
b) Obtained a CGPA of 2.0 or more.

Study Plan for BS (Data Science)

4-Year Program (8 Regular Semesters of 18 weeks each)

Study Plan for BS(Artificial Intelligence)

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
17 Credit Hrs.	18 Credit Hrs.	18 Credit Hrs.	18 Credit Hrs.2	18 Credit Hrs.	18 Credit Hrs.	14 Credit Hrs.	13 Credit Hrs.
Programming Fundamentals (3+1)	Object Oriented Programming (3+1)	Data Structures (3+1)	Analysis of Algorithms (3)	Operating Systems (2+1)	Computer Networks (2+1)	Final Year Project-I (3)	Final Year Project-II (3)
Application of Information & Communication Technologies (2+1)	Digital Logic Design (2+1)	Computer Organization and Assembly Language (2+1)	Database Systems (3+1)	Software Engineering 3	Information Security (2+1)	Parallel & Distributed Computing (2+1)	Domain Elective 6
Discrete Structure (3)	Calculus and Analytic Geometry (3)	Artificial Intelligence (2+1)	Machine Learning (2+1)	Artifical Neural Networks & Deep Learning (2+1)	Knowlegde Representation & Reasoning (2+1)	Domain Elective 4	Domain Elective 7
Functional English (3)	Expository Writing (3)	Programming for AI (2+1)	Ideology & Consitution of Pakistan (2)	Computer Vision (2+1)	Domain Elective 2	Domain Elective 5	Professional Practices (2)
Applied Physics (2+1)	Islamic Studies (2)	Introduction to Basic Teachings of Quran (2)	Introduction to Hadith & Seerah (2)	Domain Elective 1 (Web Programming)	Domain Elective 3 (3)	Social Sciences (2)	Civics & Computing Engament (Family Life in 21 Century) (2)
	Probability & Statistics (3)	Multivariable Calculs (3)	Linear Algebra (3)	Technial & Business Writing (3)	Entrepreneurship (2)		
Elective Supporting 1a [Problem Solving I] (0+1)			Elective Supporting 1b [Problem Solving II] (0+1)		Elective Supporting 1c [Problem Solving III] (0+1)		
Computing Core	Mathematics & Supporting	General Education Requirement	Elective Supporting Courses	Domain Core	Domain Elective	**134**	
46 Credit Hrs.	**12** Credit Hrs.	**34** Credit Hrs.	**3** Credit Hrs.	**18** Credit Hrs.	**21** Credit Hrs.		