

**STUDY SCHEME
FOR
B.SC Artificial Intelligence &
Machine Learning
BATCH-2026**

B.SC Artificial Intelligence & Machine Learning

First Semester		
Course Code	Course Type	Course Title
26C2AIU-101	Core Theory	Mathematics
26C2AIU-102	Core Theory	Fundamentals of Information Technology
26C2AIU-103	Core Theory	Programming in Python
26C2AIU-111	Core Practical/Laboratory	Workshop on Multimedia Tools
26C2AIU-113	Core Practical/Laboratory	Programming in Python Laboratory
26C2AIU-112	Core Practical/Laboratory	Fundamentals of Information Technology Laboratory
26C2AIU-104	Ability Enhancement Compulsory Course (AECC)-I	English
26C2AIU-114	Ability Enhancement Compulsory Course (AECC)	English Practical/Laboratory
26C2CCU-103	Value Added Course	Human Values, De-addiction and Traffic Rules
26C2AIU-116	Skill Enhancement Course	Career and Placement Planning - 1
26C2AIU-117	Value Added Course (NCC)	*MOOC

B.SC Artificial Intelligence & Machine Learning

Second Semester		
Course Code	Course Type	Course Title
26C2AIU-201	Core Theory	Fundamentals of Statistics
26C2AIU-202	Core Theory	Operating Systems
26C2AIU-203	Core Theory	Data Structures
26C2AIU-213	Core Practical/Laboratory	Data Structures Laboratory
26C2AIU-212	Core Practical/Laboratory	Operating Systems Laboratory
26C2AIU-211	Core Practical/Laboratory	Fundamentals of Statistics Laboratory
26C2CCU-203	Multidisciplinary	Environmental Science and Sustainability
26C2AIU-214	Ability Enhancement	Design Thinking
26C2AIU-215	Skill Enhancement Course	Career and Placement Planning - 2
26C2AIU-216	Value Added Course (NCC)	*MOOC

B.SC Artificial Intelligence & Machine Learning

Third Semester		
Course Code	Course Type	Course Title
26C2AIU-301	Core Theory	Artificial Intelligence
26C2AIU-302	Core Theory	Design and Analysis of Algorithms
26C2AIU-303	Core Theory	Database Management Systems
26C2AIU-312	Core Practical/Laboratory	Design and Analysis of Algorithms Lab
26C2AIU-313	Core Practical/Laboratory	Database Management Systems Lab
26C2AIU-311	Core Practical/Laboratory	Artificial Intelligence Lab
26C2AIU-304	Skill Enhancement Course-I	Internet Tools and Applications
26C2AIU-314	Skill Enhancement Course- Laboratory	Internet Tools and Application Lab
26C2AIU-315	Skill Enhancement Course	Career and Placement Planning - 3
26C2AIU-316	Value Added Course (NCC)	*MOOC

B.SC Artificial Intelligence & Machine Learning

Fourth Semester		
Course Code	Course Type	Course Title
26C2AIU-401	Core Theory	Data Science & Machine Learning
26C2AIU-402	Core Theory	Software Engineering
26C2AIU-403	Core Theory	Cloud Computing
26C2AIU-411	Core Practical/Laboratory	Data Science & Machine Learning Lab
26C2AIU-412	Core Practical/Laboratory	Cloud Computing Lab
26C2AIU-404	Skill Enhancement Course-II	Advance Python Programming
26C2AIU-413	Skill Enhancement Course- Laboratory	Advance Python Programming Lab
26C2AIU-414	Skill Enhancement Course	Career and Placement Planning - 4
26C2AIU-415	Value Added Course (NCC)	*MOOC

Students will undergo 45 days Industrial Training after 4th semester. Examination will be conducted along with 5th semester practical.

B.SC Artificial Intelligence & Machine Learning

Fifth Semester		
Course Code	Course Type	Course Title
26C2AIU-501	Skill Enhancement Course-III	R Programming
26C2AIU-511	Skill Enhancement Course- Laboratory	R Programming Laboratory
	Open Elective-I	
	Elective-I	
	Elective-II	
	Elective-I Laboratory	
	Elective-II Laboratory	
26C2AIU-512	Project	Project 1
26C2AIU-513	Industrial Training	Industrial Training
26C2AIU-514	Skill Enhancement Course	Career and Placement Planning - 5
26C2AIU-515	Value Added Course (NCC)	*MOOC

Elective – I		Elective-II	
Course Code	Course Title	Course Code	Course Title
26C2AIU-PE1-01	Natural Language Processing	26C2AIU-PE2-01	Modelling and Simulation
26C2AIU-PE1-02	Image Processing	26C2AIU-PE2-02	Neural Network
26C2AIU-PE1-03	Web Mining & Recommender System	26C2AIU-PE1-03	IOT & Blockchain Technology

Elective – I Laboratory		Elective-II Laboratory	
Course Code	Course Title	Course Code	Course Title
26C2AIU-PE1-11	Natural Language Processing Lab	26C2AIU-PE2-11	Modelling and Simulation Lab
26C2AIU-PE1-12	Image Processing Lab	26C2AIU-PE2-12	Neural Network Lab
26C2AIU-PE1-13	Web Mining & Recommender System Lab	26C2AIU-PE1-13	IOT & Blockchain Technology Lab

B.SC Artificial Intelligence & Machine Learning

Sixth Semester		
Course Code	Course Type	Course Title
26C2AIU-601	Skill Enhancement Course-III	Weka- Open Source Software Tool
26C2AIU-611	Skill Enhancement Course- Laboratory Open Elective-II Elective-III	Weka- Open Source Software Tool Lab
	Elective-IV	
	Elective-I II Laboratory	
	Elective-IV Laboratory	
26C2AIU-602	Project	Project 2
26C2AIU-612	Skill Enhancement Course	Career and Placement Planning - 6
26C2AIU-613	Value Added Course (NCC)	*MOOC

Elective – III	
Course Code	Course Title
26C2AIU-PE3-01	Business Intelligence
26C2AIU-PE3-02	Intelligent Systems
26C2AIU-PE3-03	Geographic Information Systems
26C2AIU-PE3-04	Data Mining & Warehousing

Elective – III Laboratory	
Course Code	Course Title
26C2AIU-PE3-11	Business Intelligence Lab
26C2AIU-PE3-12	Intelligent Systems Lab
26C2AIU-PE3-13	Geographic Information Systems Lab
26C2AIU-PE3-14	Data Mining & Warehousing Lab

Elective – IV	
Course Code	Course Title
26C2AIU-PE4-01	Social Network Analysis
26C2AIU-PE4-02	Big Data Analytics
26C2AIU-PE4-03	Computer Vision
26C2AIU-PE4-04	Deep Learning

Elective – IV Laboratory	
Course Code	Course Title
26C2AIU-PE4-11	Social Network Analysis Lab
26C2AIU-PE4-12	Big Data Analytics Lab
26C2AIU-PE4-13	Computer Vision Lab
26C2AIU-PE4-14	Deep Learning Lab