

Bachelor of Science (AI and Data Analytics) - Course Structure (2026 to 2030) under NEP

Semester	Major		Minor	Open Elective (Any 2)	VSC/SEC	AEC	VAC	IKS (Any 1)	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
I	Computational Thinking (3) Fundamentals of Artificial Intelligence & Data Analytics (3)	NIL	--	Economic Data Analysis (2) Digital Marketing (2) Environmental Informatics (2)	AI and Python LAB (2) Discrete Mathematics (2)	Communication Skills I (2)	Environmental Studies (2)	Chanakya Neeti (2) Indian Knowledge Systems (2)	NSS Level I OR YOGA Level I OR CULTURAL - Dance Level I/ CULTURAL - Drama Level I/ CULTURAL - Music Level I OR SPORTS Level I (2)	22
II	Data Structures (3) Database Management Systems (3)	NIL	Analytics with Excel (2)	Intellectual Property Rights (2) AI-Enabled Human Computer Interaction (2) Organisational Behaviour(2)	SQL and Data Handling LAB (2) Statistics (2)	Communication Skills II (2)	Global Environment Management (2) OR Understanding India (2)	NIL	NSS Level II OR YOGA Level II OR CULTURAL - Dance Level II/ CULTURAL - Drama Level II/ CULTURAL - Music Level II OR SPORTS Level II (2)	22
Total	12	0	2	8	8	4	4	2	4	44
Exit option with Certificate (44 credits + 4 skill credits)										
Semester	Major		Minor	Open Elective (Any 1)	VSC/SEC (Any 1)	AEC (Any 1)*	VEC	IKS (Any 1)	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
III	Machine Learning Fundamentals (3+1) Data Mining (3 + 1)	NIL	Decision Intelligence (3+1)	Design Thinking (2) Geopolitics (2)	Linear Algebra(2) Introductory Course on SAP Applications I (2) Professional And Management Skills (2)	Hindi I (2) Marathi I(2) Gujarati I I (2) Sanskrit I (2)	NIL	ML Techniques for Indic Scriptology	COMMUNITY ENGAGEMENT PROJECT (2) AND NSS Level III OR YOGA Level III OR CULTURAL - Dance Level III/ CULTURAL - Drama Level III/ CULTURAL - Music Level III OR SPORTS Level III (2)	22
IV	Neural Networks (3 + 1) Natural Language Processing (3+ 1)	NIL	Predictive Analytics (3+1)	Project Management (2) Financial Management (2)	Calculus (2) Introductory Course on SAP Applications II (2) Universal Values And Skills (2)	Hindi II (2) OR Marathi II (2) OR Gujarati II (2) OR Sanskrit II (2)	NIL	NIL	COMMUNITY ENGAGEMENT PROJECT (2) AND NSS Level IV OR YOGA Level IV OR CULTURAL - Dance Level IV/ CULTURAL - Drama Level IV/ CULTURAL - Music Level IV OR SPORTS Level IV (2)	22
Total	16//28	0	8//12	4//12	4//12	4//8	0//4	0//2	8//10	44//88
V	AI for Business Decision-Making (2) Computer Vision (3 + 1) Financial Analytics (3+1)	No-Code AI & Predictive Analytics Tools (3+1)	IoT & Sensor Devices (3+1)	NIL	AI LAB (2)	NIL	NIL	NIL	-	22

VI	Ethics and Bias in AI (2) Cloud Computing (3+1) Entrepreneurship & Innovation in Analytics (3+1)	Deep Learning (3+1)	Web Analytics (2+1) Project (1)	NIL	NIL	NIL	NIL	NIL	OJT (4)	22
Total	20//48	8//8	6//20	0//12	2//14	0//8	0//4	0//2	8//16	88//132
Exit option with Degree (132 credits)										
Semester	Major		Minor (Any 1)	Open Elective	VSC/SEC	AEC	VEC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives (Any 1)								
VII	Foundation of Blockchain (3+1) Big Data Technologies (3+1) Reinforcement Learning (3+1) Project Implementation I (2)	Business Analytics & Strategy (3+1) OR Healthcare Analytics (3+1)	RESEARCH METHODOLOGY (4)	NIL	NIL	NIL	NIL	NIL	NIL	22
VIII	Advanced AI for IoT and Data Analytics (3+1) Optimization Techniques for AI(3+1) Advanced Machine Learning (3+1) Project Implementation II (2)	Edge Computing & TinyML (3+1) OR Cybersecurity Analytics (3+1)	NIL	NIL	NIL	NIL	NIL	NIL	INTERNSHIP, OJT (4)	22
Total	28//76	8//16	4//24	0//12	0//14	0//8	0//4	0//2	4//20	176
Degree with honours (176 credits)										