



Program Structure

**Bachelor of Science (Artificial
Intelligence)**

Duration: 04 Years

Batch: 2026-30

School of Artificial Intelligence

NP
28/5/2026
RTH

**Proposed Outline of Course Curriculum and Credit Framework for UG Programmes
in-line with NEP 2020 & NCrF/NHEQF/FYUP etc with Multiple Entry and Multiple
Exit (MEME) options**

Semester-I

S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	CORE	Mathematics for AI-I	2026MATH121	3	0	0	0	3
2	CORE	Logic Design	2026COMP121	2	0	2	0	3
3	CORE	Programming Concepts in C	2026PROG121	2	0	2	0	3
4	CORE	Evolution of AI & ML	2026AINT121	2	0	0	0	2
5	DSE	Entropy & Information / Digital Signal Processing	2026AINT121/ 2026AINT122	3	1	0	0	4
6	MDC	Biology for Engineers	2026BIOT121	2	0	0	3	3
7	SEC	Exploration & Seminars in AI	2026AINT123	0	0	2	3	2
8	VAC	Source Code Management using GitHub	2026AINT124	1	0	2	0	2
Total				15	1	8	6	22

Semester-II

S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	AEC	Environment & Sustainability-I	2026BIOT171	2	0	0	0	2
2	CORE	Probability & Statistics	2026MATH171	3	0	0	0	3
3	CORE	Mathematics for AI-II	2026MATH172	3	0	0	0	3
4	CORE	Python for AI & ML	2026PROG171	2	0	2	0	3
5	CORE	Object-Oriented Programming (OOPs)	2026PROG172	2	0	2	0	3
6	DSE	Data Science / Data Analytics & Visualizaton	2026AINT171/ 2026AINT172	2	0	2	0	3
7	MDC	Physics	2026PHYS171	3	0	0	0	3
8	VAC	Advanced Prompt Engineering	2026AINT178	0	0	2	3	2
Total				17	0	8	3	22

Students exiting the programme after securing 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 4 credits in work based /vocational courses (internship also) offered during summer term or internship / Apprenticeship. These students are allowed to re-enter the degree programme within THREE years and complete the degree programme within the stipulated maximum period of SEVEN years.

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Semester-III								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	CORE	Machine Learning	2026AINT221	3	0	2	0	4
2	CORE	Data Structures	2026COMP221	3	0	2	0	4
3	CORE	Numerical Methods & Optimisation Techniques	2026AINT211	3	0	0	0	3
4	CORE	Discrete Mathematics & Set Theory	2026MATH221	3	0	0	0	3
5	DSE	Theory of Computation / Microprocessor & Computer Architecture	2026COMP221/ 2026COMP222	2	0	2	0	3
6	Audit	Communication skills 1	2026COMM221	1	0	0	0	0
7	SEC	ML Ops	2026AINT223	1	0	2	0	2
8	VAC	Enterprenaurship & IP	2026ENIP221	2	0	0	0	2
Total				18	0	8	0	21

Semester-IV								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	AEC	Environment & Sustainability-II	2026BIOT271	1	0	0	0	1
2	CORE	Deep Learning	2026AINT271	2	0	2	0	3
3	CORE	Data Management & AI Integration	2026AINT272	2	0	2	0	3
4	CORE	Image Processing	2026AINT273	2	0	2	0	3
5	CORE	Design & Analysis of Algorithms	2026COMP275	3	0	2	0	4
6	CORE	Operating and Embedded Systems	2026AINT274	3	0	0	0	3
7	DSE	Physics Inspired ML / Compiler Design / Scientific Computing / Computational Geometry & Topology	2026AINT275 / 2026COMP276/ 2026COMP278/ 2026AINT278	2	0	2	0	3
8	GE	Leadership and Management	2026ENIP271	2	0	0	0	2
9	VAC	Innovation & Entrepreneurship	2026ENIP272	0	0	0	3	1
Total				15	0	10	0	23

Students exiting the programme after securing 80 credits will be awarded UG Diploma in the relevant Discipline /Subject provided they secure additional 4 credit in skill based/vocational courses (internship also) offered during first year or second year summer term. These students are allowed to re-enter the degree programme within THREE years and complete the degree programme within the stipulated maximum period of SEVEN years.

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Semester-V								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	AEC	Soft Skills and Personality Development		2	0	0	0	2
2	CORE	Internet of Things	2026AINT321	3	0	0	0	3
3	CORE	Generative AI	2026AINT321	2	0	2	0	3
4	CORE	Computer Networks	2026CSET321	2	0	2	0	3
5	CORE	Computer Vision	2026AINT322	2	0	2	0	3
6	DSE	Specialization Elective I	2026CBOT321/ 2026INCS321/ 2026PSAI321/ 2026HEAI321	3	0	2	0	4
7	Internship	Internship Evaluation	2026AINT323	0	0	0	3	1
8	SEC	Competitive Coding-1	2026COMP321	0	0	2	0	1
9	VAC	Indian Knowledge System	2026PSIR321	2	0	0	0	2
Total				14	0	8	3	22

Semester-VI								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	AEC	Research Writing	2026AINT376	2	0	0	0	2
2	CORE	Cloud Computing	2026AINT371	2	0	2	0	3
3	CORE	Natural language Processing	2026AINT372	2	0	2	0	3
4	CORE	Agentic AI	2026AINT373	2	0	2	0	3
5	CORE	Cyber Security	2026CSET374	2	0	2	0	3
6	DSE	Specialization Elective II	2026CBOT371/ 2026INCS371/ 2026PSAI371/ 2026HEAI371	3	0	0	0	3
7	DSE	Specialization Elective III	2026CBOT372/ 2026INCS372/ 2026PSAI372/ 2026HEAI372	3	0	0	0	3
8	GE	AI Design & Innovation I	2026AINT375	0	0	0	6	2
9	SEC	Competitive Coding I	2026COMP371	0	0	4	0	2
Total				16	0	8	0	24

Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline /Subject upon securing 120 credits.

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Semester-VII								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	AEC	Foreign Language	2026ENIP421	0	0	0	3	1
2	CORE	Quantum Computing	2026AINT421	3	0	2	0	4
3	DSE	Specialization Elective IV	2026CBOT421/ 2026INCS421/ 2026PSAI421/ 2026HEAI421	2	0	0	0	2
4	DSE	Specialization Elective V	2026CBOT421/ 2026INCS421/ 2026PSAI421/ 2026HEAI421	2	0	0	0	2
5	SEC	Scientific Writing Skill	2026AINT422	2	0	0	0	2
6	VAC	AI Governance risk and compliance (GRC)	2026AINT423	0	0	0	3	1
Total				7	0	2	6	12

Semester-VIII								
S.No	Type of Course	Subject	Course Offered By	L	T	P	E	Credits
1	DSE	Specialization Elective VI	2026CBOT471/ 2026INCS471/ 2026PSAI471/ 2026HEAI471	2	0	2	0	3
2	AEC	Scientific Presentation & Communication Skill	2026AINT471	2	0	0	0	2
3	Dissertation	Major Project	2026AINT472	0	0	0	36	12
Total				4	0	2	36	17

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