



Program Structure

Master of Computer Applications (Artificial Intelligence)

Duration: 02 Years

Batch: 2026-28

School of Artificial Intelligence

R. P. B.

**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	2026MATH611	2	0	0	0	2
2	Core	Signal Transformation	2026AINT611	2	0	0	0	2
3	Core	Programming for Artificial Intelligence	2026PROG602	1	0	4	0	3
4	Core	Machine Learning and Pattern Recognition	2026AINT612	2	0	2	0	3
5	Core	Data Science and Analytics	2026AINT613	1	0	1	0	2
6	DSE	Advanced Data Structures & Algorithms/OOPS	2026COMP611/ 2026PROG603	3	0	1	0	4
7	AEC	Environment & Sustainability-I	2026BIOT611	2	0	0	0	2
8	VAC	Version Control using Github	2026AINT614	1	0	1	0	2
Total				14	0	9	0	20

Semester-II

S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	Core	Essentials of Neural Networks and Deep Learning	2026AINT661	2	0	2	0	3
2	Core	Image Processing & Computer Vision	2026AINT662	2	0	2	0	3
3	Core	Advanced Database Management System	2026AINT663	2	0	2	0	3
4	DSE	Full Stack Web Development/Soft Computing/NLP and LLMs	2026AINT664/ 2026AINT665/ 2026AINT666	3	0	2	0	4
5	SEC	ML Ops/UNIX Shell Programming	2026AINT667/ 2026AINT668	1	0	2	0	2
6	VAC	Advanced Prompt Engineering	2026AINT154	1	0	2	0	2
7	Project	AI Design & Innovation-I	2026AINT669	0	1	4	0	3
Total				11	1	16	0	20

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.

Semester-III								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	Core	Generative AI	2026AINT711	2	0	2	0	3
2	DSE	Specialisation Electives-1 Web Technologies/Game Theory using AI	2026CSET700/ 2026AINT712	2	0	2	0	3
3	DSE	Specialisation Electives-II Embedded & IoT/Software Engineering and Agile Practices	2026AINT713/ 2026CSET701	2	0	2	0	3
4	MDC	Entrepreneurship & IP	2026EINP700	1	0	0	0	1
5	SEC	Agentic AI	2026AINT714	1	0	2	0	2
6	AEC	Scientific Presentation & Communication Skills	2026AINT715	2	0	0	0	2
7	Project	AI Design & Innovation-II	2026AINT716	0	1	6	0	4
Total				10	1	14	0	18

Semester-IV								
S.No	Type of Course	Subject	Course Code	L	T	P	E	Credits
1	Core	NLP and LLMs	2026AINT761	2	0	1	0	3
2	Project	Research Project/Industry Internship with Thesis	2026AINT762	0	0	0	60	20
Total				2	0	1	60	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.