

Sanjeevan Group of Institutions, Panhala

M. Tech. Artificial Intelligence & Data Science - Curriculum (NEP 2020): Curriculum Draft

Syllabus Structure A.Y.2026-27

Semester I Scheme

Course Category	Course Code	Course Title	L	T	P	MSE	CA	ESE	Total Marks	Credits
PCC		Mathematics for AI	3	1	0	20	20	60	100	4
PCC		Advanced Machine Learning	3	1	0	20	20	60	100	4
PCC		Deep Learning	3	1	0	20	20	60	100	4
PEC		Program Elective - I 1. Quantum Computing 2. Industrial IoT 3. Cloud Computing	3	1	0	20	20	60	100	4
PEC		Program Elective - II 1. High Performance Computing 2. Cryptography and Network Security 3. Reinforcement Learning	3	1	0	20	20	60	100	4
Lab		Advanced Machine Learning and Deep Learning Lab	0	0	4	0	60	40	100	2
CC		YOGA for Stress Management	0	0	2	0	0	0	0	Audit
		Total	15	5	6	100	160	340	600	22

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Semester II Scheme

Course Category	Course Code	Course Title	L	T	P	MSE	CA	ESE	Total Marks	Credits
PCC		Full stack Development	3	1	0	20	20	60	100	4
PCC		Data Engineering	3	1	0	20	20	60	100	4
PEC		Program Elective - III 1. DevOps 2. Natural Language Processing 3. Advanced Data Analytics	3	1	0	20	20	60	100	4
OE		Open Elective - I	3	0	0	20	20	60	100	3
PEC		Full stack Development Data Engineering Lab	0	0	2	0	60	40	100	1
PEC		Disaster Management	0	0	2	0	0	0	0	Audit
IKS		IKS Bucket	3	0	0	20	20	60	100	3
ELC		Mini Project with seminar - I	0	0	4	0	60	40	100	2
		Total	15	3	8	120	280	380	700	21

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Semester III Scheme

Course Category	Course Code	Course Title	L	T	P	MSE	CA	ESE	Total Marks	Credits
OE		Open Elective II	3	0	0	20	20	60	100	3
MDM		Multidisciplinary Minor	3	0	0	20	20	60	100	3
ELC		Seminar II	0	0	4	0	60	40	100	2
ELC		Project I	0	0	4	0	60	40	100	10
		Total Semester III	6	0	8	40	160	200	400	18

Semester IV Scheme

Course Category	Course Code	Course Title	L	T	P	CA	MSE / DSD	Total Marks	Credits
PCC		Project Part II / OJT	0	0	24	100	100	200	12
		Total Semester IV			24	100	100	200	12