Effective from 1st July 2026

Department of CS&E and IT, JIIT Noida

2026 onwards Curriculum for M. Tech. in Artificial Intelligence and Data Science

Category – **OEC:** Open Subjects–Electives, **OMC:** Mandatory Courses, **PCC:** Professional Core Courses, **PEC:** Professional Elective Courses Relevant to Chosen Specialization/Branch, **PRC:** Project Work, Seminar & Internship

First Semester

S. No	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PCC	25M81CS111	Fundamental of Artificial Intelligence	3	0	0	3	3
2	PCC	25M81CS112	Fundamental of Data Science	3	0	0	3	3
3	PCC	XXXXXXX	Advanced Data Structures and Programming	3	0	0	3	3
4	PCC	25M85CS111	Artificial Intelligence Lab	0	0	2	2	1
5	PCC	25M85CS112	Data Science Lab	0	0	2	2	1
6	PCC	25M85CS113	Advanced Data Structures and Programming Lab	0	0	2	2	1
7	PEC	XXXXXXX	Elective – I	3	0	0	3	3
8	PEC	XXXXXXX	Elective – II	3	0	0	3	3
9	OMC	18M11GE111	Research Methodology and Intellectual Property Rights	2	0	0	2	2
			Total				**23**	**20**

Second Semester

S. No	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PCC	25M81CS121	Soft Computing	3	0	0	3	3
2	PCC	25M81CS122	Big Data Analytics	3	0	0	3	3
3	PCC	XXXXXXX	Generative and Agentic AI	3	0	0	3	3
4	PCC	25M85CS121	Soft Computing Lab	0	0	2	2	1
5	PCC	XXXXXXX	Generative and Agentic AI Lab	0	0	2	2	1
6	PCC	25M85CS122	Big Data using Hadoop Lab	0	0	2	2	1
7	PEC	XXXXXXX	Elective – III	3	0	0	3	3
8	PEC	XXXXXXX	Elective – IV	3	0	0	3	3
9	PRC	17M17CS111	Project Based Learning-I (Open Source Software Development)	0	0	4	4	2
10	OMC	XXXXXXX	Audit-I (To be offered by HSS Dept)	2	0	0	2	Qualifying
			Total				**27**	**20**

Third Semester

S. No	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PEC	XXXXXXX	Elective – V	3	0	0	3	3
2	OEC	XXXXXXX	Open Elective – 1	3	0	0	3	3
3	PRC	XXXXXXX	Project Based Learning-II (Software Development Automation)	0	0	10	10	5
4	PRC	XXXXXXX	Seminar & Term Paper **OR** Earn credits by transfer (MOOCs, Course Work at another Institute, Supervised Study)	0	0	0	6	6
5	PRC	25M87CS213/ 25M87CS214/ 25M87CS215	Dissertation / Industrial Project / Entrepreneurial Project	0	0	0	8	4
6	OMC	XXXXXXX	Audit-II (To be offered by HSS Dept)	2	0	0	2	Qualifying
			Total				**32**	**21**

Fourth Semester

S. No	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	OEC	XXXXXXX	M. Tech. Open Elective	3	0	0	3	3
2	PRC	17M17CS223/ 17M17CS224/ 17M17CS225	Dissertation / Industrial Project / Entrepreneurial Project	0	0	0	32	16
			Total				**35**	**19**

Total Credits = 20 (1st Semester) + 20 (2nd Semester) + 21 (3rd Semester) + 19 (4th Semester) = 80

General Statistics

Semester	Subject Count; Total Hours; and Total Credits
First	Subject Count = 9; Total Weekly Hours = 23; and Total Credits = 20
Second	Subject Count = 10; Total Weekly Hours = 27; and Total Credits = 20
Third	Subject Count = 6; Total Weekly Hours = 32; and Total Credits = 21
Fourth	Subject Count = 2; Total Weekly Hours = 35; and Total Credits = 19
Total	**Subject Count = 27; Total Weekly Hours = 117; and Total Credits = 80**

Category	Subject Count; Total Hours; and Total Credits
OEC	Subject Count = 2; Total Weekly Hours = 6; and Total Credits = 6
OMC	Subject Count = 3; Total Weekly Hours = 6; and Total Credits = 2
PCC	Subject Count = 12; Total Weekly Hours = 30; and Total Credits = 24
PEC	Subject Count = 5; Total Weekly Hours = 15; and Total Credits = 15
PRC	Subject Count = 5; Total Weekly Hours = 60; and Total Credits = 33