PG Diploma In Data Science and Intelligent Systems Curriculum (2025) - Semester I
Computer Science and Engineering

Branch Code: CSE

(SHR/AC/Auto/Acad. Council/PG.Diploma/2/Curri. /CSE)

Recommended by BoS on 11/06/2025

Approved by the Academic Council on 05/07/2025

The PG Diploma in Data Science and Intelligent Systems curriculum is meticulously drafted to cultivate industry-ready professionals endowed with creativity and innovative thinking. This comprehensive curriculum encompasses various components, including course work, miniproject, lab and dissertation work as specified for the programme. The curriculum is so drawn up that the minimum number of credits for successful completion of the PG Diploma programme is 40. The curriculum ensures a holistic education that prepares students for the dynamic field of Computer Science and Engineering. Below is a detailed overview of the curriculum:

- Core courses (Discipline core courses and Programme core courses)
- Research Methodology
- Laboratory work
- Skill Enhancement Course
- Dissertation/Research work

This curriculum is designed to seamlessly blend theoretical knowledge with practical experience and enhance employability through hands-on projects and internships, thereby preparing students for successful careers in Computer Science and Engineering.

Table 1: Distribution of credits among the Semesters

Sem	Term	Course work content	Total credits allotted	Credits allotted semester - wise
I	1 (4 months)	Core courses: 4 nos	4x4 =16	40
		Laboratory: 1 no	1x2 = 2	
		Research Methodology: 1 no	1x2 = 2	
	2 (2 months)	IntelAI Foundation Course	1x4 = 4	
		Dissertation Phase	1x16=16	
Total credits in all four semesters				**40**

TERM I

SLOT	COURSE CODE	COURSE NAME	MARKS		L-T-P	HOURS	CREDIT
			CIA	ESE			
A	25DIST11	ADVANCED ANALYTICS AND MACHINE LEARNING	50	50	4-0-0	4	4
B	25DIST12	DATA SCIENCE FOR ENGINEERS	50	50	4-0-0	4	4
C	25DIST13	CLOUD COMPUTING	50	50	4-0-0	4	4
D	25DIST14	ADVANCED DATA MINING	50	50	4-0-0	4	4
E	25DISR10	RESEARCH METHODOLOGY	50	50	2-0-0	2	2
F	25DISL10	COMPUTING LAB I	100	--	0-0-2	2	2
Total			**350**	**250**		**20**	**20**

- L-T-P: Lecture-Tutorial-Practical
- CIA: Continuous Internal Assessment, ESE: End Semester Examination

TERM II

SLOT	COURSE CODE	COURSE NAME	MARKS		L-T-P	HOURS	CREDIT
			CIA	ESE			
A	25DISSEC20	INTELAI FOUNDATION COURSE	100				4
B	25DISP20	DISSERTATION PHASE	100		0-0-16	16	16
Total			**200**			**16**	**20**