JIS Institute of Advanced Studies and Research Kolkata
M. Tech in Computer Science and Engineering (splz. in Data Science)
Session 2020-2021

1st Semester

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PGCSDS101	Probability and Statistics	3	1	0	4
2		PGCSDS102	Pattern Recognition and Machine Learning	3	1	0	4
3		PGCSDS103	DBMS	3	0	0	3
4	CBCS	Offered by other centres / departments		3	1	0	4
5	Labs	PGCSDS191	Programming Lab (Python & R)	0	0	6	3
6		PGCSDS192	DBMS Lab	0	0	3	2
7		PGCSDS193	Machine Learning Lab	0	0	3	2
			Mini Project				2
			Total Credits				24
			Seminar / Skill-Ex				2

CBCS Course Offered by the Centre / Department

1. Probability and Statistics

2nd Semester

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PGCSDS201	Big Data Analytics	3	0	0	3
2		PGCSDS202	Advanced Machine Learning	3	1	0	4
3		PGCSDS203	IoT and Cloud Computing	2	0	3	4
4		PGCSDS204	Elective	3	0	0	3
5	CBCS	Offered by other centres / departments		3	1	0	4
6	Labs	PGCSDS291	Big Data Analytics Lab	0	0	3	2
7		PGCSDS292	Advanced Machine Learning Lab	0	0	3	2
			Mini Project				2
			Total Credits				24
			Seminar / Skill-Ex				2

CBCS Course Offered by the Centre / Department

1. DBMS

Internship for 2 months (Semester Break: May 15 – July 15) in Industry / Academia.

3rd Semester

Sl. No.	Subject Code	Subject Name	Class Load/Week			Credit
			L	T	P	
1.	PGCSDS301	Thesis (Interim) with Seminar and Viva-Voce	-	-	-	16
2.	PGCSDS302	Industrial Training				8
		Total Credits				**24**
		Seminar / Skill-Ex				**2**

4th Semester

Sl. No.	Subject Code	Subject Name	Class Load/Week			Credit
			L	T	P	
1.	PGCSDS401	Project Final Thesis with Seminar and Viva-Voce	-	-	-	24
		Total Credits				**24**
		Seminar / Skill-Ex				**2**

Elective 1
Applied Statistics
Advanced Web Technology
Optimization Techniques
Natural Language Processing

Total Credits = [24+24+24+24] = **96**

Total Credits for Seminars / Skill-Ex = [2+2+2+2] = **8**