

**JIS Institute of Advanced Studies and Research Kolkata, JIS University**  
**3 Year M. Tech in Data Science (Executive)**

Every weekend and holidays (mostly)

1<sup>st</sup> Semester

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PDA1001	Mathematical Foundation for Data Science	3	0	0	3
2		PDA1002	Database Management System	3	0	0	3
3		PDA1003	Programming and Data Structure	2	0	0	2
4	Labs	PDA1101	Programming and Data Structure Lab using Python	0	0	3	2
5		PDA1102	Database Management System Lab	0	0	3	2
<b>Total Credits</b>							<b>12</b>

2<sup>nd</sup> Semester

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PDA2001	Internet of Things (IoT) and Cloud Computing	3	1	0	4
2		PDA2002	Cybersecurity	3	1	0	4
3		PDA2003	Elective-1	3	1	0	4
4	Labs	PDA2101	IoT Lab	0	0	3	2
<b>Total Credits</b>							<b>14</b>

3<sup>rd</sup> Semester

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PDA3001	Machine Learning	3	1	0	4
2		PDA3002	Data Warehouse	3	1	0	4
3		PDA3003	Elective-2	3	1	0	4
4	Labs	PDA3101	Machine Learning Lab	0	0	3	2
<b>Total Credits</b>							<b>14</b>

**4<sup>th</sup> Semester**

Sl. No.		Subject Code	Subject Name	Class Load/Week			Credit
				L	T	P	
1	Core Courses	PDA4001	Advanced Machine Learning	3	1	0	4
2		PDA4002	Big Data Analytics	3	1	0	4
3	Labs	PDA4101	Advanced Machine Learning Lab	0	0	3	2
4		PDA4102	Big Data Analytics and Cloud Practice Lab	0	0	3	2
5	Sessional	PDA4103	Term Project				2
<b>Total Credits</b>							<b>14</b>

**5<sup>th</sup> Semester**

Sl. No.	Subject Code	Subject Name	Class Load/Week			Credit	
			L	T	P		
1	PDA5001	Thesis Part-I with Seminar	-	-	-	12	
2	PDA5002	Comprehensive Viva-voce				4	
<b>Total Credits</b>							<b>16</b>

**6<sup>th</sup> Semester**

Sl. No.	Subject Code	Subject Name	Class Load/Week			Credit	
			L	T	P		
1	PDA6001	Thesis Part-II with Seminar and Viva-Voce	-	-	-	18	
<b>Total Credits</b>							<b>18</b>

Elective 1	Elective 2
Data Visualization	Data Mining
Data Security	Social and Web Media Analytics
Mobile Computing	Natural Language Processing
Advanced Web Technology	Blockchain Technologies
Applied Statistics	Speech and Signal Processing
Selected Topics on Data Science	Optimization Techniques
Financial and Business Data Analytics	Introduction to Speech, Image and Video Processing

**Total Credits** = [12+14+14+14+16+18] = 88