

Center for Data Science
JIS Institute of Advanced Studies and Research Kolkata
Syllabus for 2 Year M.Tech in Comp. Vision and Machine Intelligence

First Semester					
Theory					
Course Code	Course Name	L	T	P	Credit
PGCVMI101	Probability and Statistics	2	1	0	3
PGCVMI102	Programming Languages (Python, R and Java)	2	0	0	2
PGCVMI103	AI and Machine Learning	3	0	0	3
PGCVMI104	Algorithm and Data Structure	3	0	0	3
PGCVMI105	Digital Signal Processing	3	0	0	3
PGCVMI106	Image Processing	3	0	0	3
Laboratory					
PGCVMI191	MATLAB and Image Processing Lab	0	0	3	3
PGCVMI192	Python and Java Lab (Data Structure)	0	0	3	3
PGCVMI193	Machine Learning Lab	0	0	3	3
Total		16	1	9	26

Second Semester					
Theory					
Course Code	Course Name	L	T	P	Credit
PGCVMI201	Machine Vision	3	0	0	3
PGCVMI202	Computer Graphics and Visualization	3	0	0	3
PGCVMI203	Advanced Machine Learning	3	0	0	3
PGCVMI204	Robotics	3	0	0	3
PGCVMI205	Elective 1	3	0	0	3
PGCVMI206	Elective 2	3	0	0	3
Laboratory					
PGCVMI291	Advanced Machine Learning Lab	0	0	3	3
PGCVMI292	Computer Vision Lab	0	0	3	3
PGCVMI293	Seminar - Term Paper Leading to Project				2
Total		18	0	6	26

Third Semester					
Course Code	Course Name	L	T	P	Credit
PGCVMI391	Industrial Project				8
PGCVMI392	Thesis Part I				12
Total					20

Fourth Semester

Course Code	Course Name	L	T	P	Credit
PGCVMI491	Thesis Part II				20
PGCVMI492	Comprehensive Viva Voice				4
Total					24