

Curriculum (Only Scheme)

Semester I					
Course Code	Course	L	T	P	C
MAS6121	Matrix and Linear Algebra	3	0	0	3
MAS6122	Discrete Mathematics and Its Applications	3	0	0	3
MAS6123	Advanced Differential Equation	3	0	0	3
MAS6124	Applied Statistics and Probability	3	0	0	3
MAS6125	Computer Programming with C	3	0	2	4
MAS6126	Foundation of Data Science with Python	3	0	2	4
Total		18	0	4	20
Total Contact Hrs.		22			

Semester II					
Course Code	Course	L	T	P	C
MAS6221	Real and Functional Analysis	3	0	0	3
MAS6222	Optimization Theory and Applications	3	0	0	3
MAS6223	Data Structures and Algorithms	3	0	2	4
MAS6224	Relational Database Management Systems	3	0	2	4
MAS6225	Object Oriented Programming	3	0	2	4
MAS6226	Seminar and Technical writing	0	0	0	2
Total		15	0	6	20
Total Contact Hrs.		21			

Semester III					
Course Code	Course	L	T	P	C
MAS7121	Numerical Methods with MATLAB	3	0	2	4
MAS7122	Mathematical Statistics with SPSS	3	0	2	4
	Program Elective* I	4	0	0	4
	Program Elective* II	4	0	0	4
MAS7170	Industry Internship	0	0	0	4
Total		14	0	4	20
Total Contact Hrs.		18			

Semester IV					
Course Code	Course	L	T	P	C
	Program Elective* III	4	0	0	4
MAS7270	Project	0	0	0	16
Total		4	0	0	20
Total Contact Hrs.		4			

List for Program Elective* I

MAS7123	Financial Mathematics
MAS7124	Introduction to Computational Fluid Dynamics
MAS7125	Statistics in Decision Makings
MAS7126	Algebraic Coding theory
MAS7127	Time Series Analysis

List for Program Elective* II

MAS7131	Applied Machine learning
MAS7132	Data Visualization
MAS7133	Soft Computing and Fuzzy Systems
MAS7134	Computer Networks
MAS7135	Operations Research and Supply Chain Analytics

List for Program Elective* III

MAS7221	Cryptography and Network Security
MAS7222	Image Processing
MAS7223	Big Data Analytics
MAS7224	Neural Networks
MAS7225	Generative AI