

Master of Science – MSc Data Science			
Foundations of IT		I Semester	
FIT 1	Fundamentals of Programming	PH 901.1	Statistics for Data Science
FIT 2	Object-Oriented Programming	PH 902.1	Big Data and Data Management
FIT 3	Basic Unix Programming	PH 903.1	Mathematics for Data Science
FIT 4	Introduction to Relational DBMS	PH 904.1	Algorithms for Advanced Data Analytics
		PH 905.1 P	Data Science and Statistical Analysis Lab
		PS 906.1	Data Warehouse and Data Mining
		PS 906.1 P	Advanced Algorithms and Data Mining using R Lab
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II Semester		III Semester	
PH 901.2	Multivariate Techniques for Data Science	PH 901.3	Computational Intelligence and Deep Learning
PH 902.2	Machine Learning Algorithms	PH 902.3	Data Science and Internet of Things
PH 903.2 P	Machine Learning and Data Analytics Lab	PH 903.3 P	Computational Intelligence & Internet of Things Lab
Advance data science stream		Advance data science stream	
PS 904.2	Probability and Stochastic Process Models	PS 904.3	Modeling, Simulation and Data Science
PS 905.2	Predictive Modeling and Financial Analytics	PS 905.3	Time Series Analysis and Forecasting
Data Science Application Stream		Data Science Application Stream	
PS 904.2	Data Science & Health Analytics	PS 904.3	Real Time Data Analytics with Streaming Data
PS 905.2	Marketing Analytics and Operations Research	PS 905.3	Social Media & Network Analytics
Data Science – Technology Stream		Data Science – Technology Stream	
PS 904.2	Python for Data Science	PS 904.3	Big Data Analytics with Scala and Spark
PS 905.2	NoSQL, MapReduce with Hadoop	PS 905.3	Data Visualization using Tableau
PS 906.2 P	Data Science / Applications / Big Data Technology Lab	PS 906.3 P	Data Science / Application / Big Data Technology Lab
Open Elective – Offered to other depts		Open Elective – Offered to other depts	
OE 907.2	Statistical Data Analysis using R	OE 907.2	Data Science & Systems Thinking
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IV Semester			
PS 801.4	Domain Knowledge Project		
PS 802.4	Project Work / Industry Internship / Research work at R&D Labs		