

## MSc in Data Science and Machine Learning – Modules Offered

Unit	Module Title	MCs	Subsidy Status
<b>Core Modules</b>			
	DSA5101 Introduction to Big Data for Industry	4	No Subsidy
	DSA4212 Optimisation for Large-Scale Data-Driven Inference	4	No Subsidy
	DSA5102X Foundations of Machine Learning	4	No Subsidy
	CS5224 Cloud Computing	4	No Subsidy
	DSA5201 DSML Industry Consulting and Application Project	4	No Subsidy
<b>Elective Modules from Graduate Certificate Courses and Clusters</b>			
<b>Graduate Certificate in Deep Learning for Data Scientists</b>			
	DSA5202 Advanced Topics in Machine Learning	4	SSG Subsidy
	DSA5204 Deep Learning and Applications	4	SSG Subsidy
<b>Graduate Certificate in Data Mining for Industry</b>			
	CS5228 Knowledge Discovery and Data Mining	4	No Subsidy
	ST5227 Applied Data Mining	4	SSG Subsidy
<b>Graduate Certificate in Big Data for Industry</b>			
	CS5344 Big-Data Analytics Technology	4	No Subsidy
	ST5201 Statistical Foundations of Data Science	4	SSG Subsidy
<b>Graduate Certificate in Data Science in Computer Vision</b>			
	CS4243 Computer Vision and Pattern Recognition	4	No Subsidy
	CS5240 Theoretical Foundation of Multimedia	4	No Subsidy
	DSA5203 Visual Data Processing and Interpretation	4	SSG Subsidy
<b>Graduate Certificate in Data Science for Quantitative Finance</b>			
	QF5204 Numerical Methods in Quantitative Finance	4	SSG Subsidy
	DSA5205 Data Science in Quantitative Finance	4	SSG Subsidy
	ST5202 Applied Regression Analysis	4	SSG Subsidy
<b>Graduate Certificate in Data Science for Internet of Things</b>			
	EE5022 Cyber Security for Internet of Things	4	SSG Subsidy
	EE5024 Sensor Networks	4	SSG Subsidy
	EE5025 Intellectual Property: Innovations in IoT	4	SSG Subsidy
	EE5027 Statistical Pattern Recognition	4	SSG Subsidy
	ST5225 Statistical Analysis of Networks	4	SSG Subsidy
<b>Graduate Certificate in Health Informatics</b>			
	SPH5414 Informatics for Health	4	SSG Subsidy
	SPH5104 Healthcare Analytics	4	No Subsidy
	SPH5411 Information Technology in Healthcare	4	SSG Subsidy
<b>Cluster in Mathematics</b>			
	MA4230 Matrix Computation	4	SSG Subsidy
	MA5232 Modeling and Simulations	4	SSG Subsidy
	MA5266 Optimization	4	SSG Subsidy
<b>Cluster in Statistics</b>			
	ST5207 Nonparametric Regressions	4	SSG Subsidy
	ST5210 Multivariate Data Analysis	4	SSG Subsidy
<b>Cluster in Computing</b>			
	CS4248 Natural Language Processing	4	No Subsidy
	CS5234 Algorithms at Scale	4	No Subsidy
	CS5246 Text Mining	4	No Subsidy
	CS5425 Big Data Systems for Data Science	4	No Subsidy
	IS5152 Data-driven Decision Making	4	No Subsidy