

Minor change to the DPT of the Data Science MSc programme

Paolo Guagliardo

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The current DPT of the full-time MSc programme in Data Science (**PTMSCDATSC1F**) asks students to choose, in Group B, **exactly** 20 credits of Level 10 and 11 courses in Schedules A to Q, T and W. This constraint makes course selection less flexible for no apparent reason. The present proposal seeks to relax it by merging Group A and Group B into one, and requiring the selection of exactly 100 credits from the resulting group. The proposed new DPT is given below.

Degree Programme Table: Data Science (MSc) (Full-time) (PTMSCDATSC1F)

Year 1 – Academic year: 2021/22, Starting in: September

NOTES:

Students are permitted to take a **MAXIMUM** of 30 credits of courses that are below Level 11.
Before making your course choices, make sure you have discussed them with your Personal Tutor.

Compulsory courses

You must take these courses

MSc Dissertation (Informatics)	INFR11077	60 credits	Must be passed at 50%
Informatics Research Review	INFR11136	10 credits	
Informatics Project Proposal	INFR11147	10 credits	

Course options

Group A

Select exactly 100 credits in this group.

Courses from School(s) O-P - DSCDT - MACHINE LEARNING - Level(s) 10-11

Select between 10 and 60 credits of the following courses

NOTES:

These are courses in Machine Learning, Statistics, and Optimization open to taught postgraduate students.

Reinforcement Learning	INFR11010	10 credits
Machine Learning and Pattern Recognition	INFR11130	20 credits
Machine Learning Practical	INFR11132	20 credits
Probabilistic Modelling and Reasoning	INFR11134	20 credits
Natural Computing	INFR11161	10 credits
Introductory Applied Machine Learning	INFR11182	20 credits
Machine Learning Theory	INFR11202	10 credits
Statistical Learning	MATH10094	10 credits
Statistical Methodology	MATH10095	10 credits
Applied Statistics	MATH10096	10 credits
The Analysis of Survival Data	MATH11024	10 credits
Fundamentals of Optimization	MATH11111	10 credits
Time Series	MATH11131	10 credits
Modern Optimization Methods for Big Data Problems	MATH11146	10 credits
Large Scale Optimization for Data Science	MATH11147	10 credits
Bayesian Data Analysis	MATH11175	10 credits
Statistical Programming	MATH11176	10 credits
Bayesian Theory	MATH11177	10 credits
Incomplete Data Analysis	MATH11185	10 credits
Nonparametric Regression Models	MATH11186	10 credits
Generalised Regression Models	MATH11187	10 credits
Integer and Combinatorial Optimization	MATH11192	10 credits
Topics in Applied Optimization	MATH11194	10 credits

AND

Courses from School(s) O - DSCDT - DATABASES - Level(s) 10-11

Select between 10 and 60 credits of the following courses

NOTES:

These are courses in Databases and Data Management Systems open to taught postgraduate students.

Algorithms and Data Structures	INFR10052	10 credits
Introduction to Databases	INFR10080	20 credits
Extreme Computing	INFR11088	10 credits
Fundamentals of Data Management	INFR11176	10 credits
Advanced Database Systems	INFR11199	20 credits

AND

Courses from School(s) O/I/P - DSCDT - APPS - Level(s) 11

Select between 10 and 60 credits of the following courses

NOTES:

These are courses in Unstructured Data and Applications open to taught postgraduate students.

Advanced Vision (Level 11)	INFR11031	10 credits
Automatic Speech Recognition	INFR11033	10 credits
Accelerated Natural Language Processing	INFR11125	20 credits
Image and Vision Computing	INFR11140	10 credits
Text Technologies for Data Science	INFR11145	20 credits
Natural Language Understanding, Generation, and Machine Translation	INFR11157	20 credits
Bioinformatics 1	INFR11160	10 credits
Data-driven Business and Behaviour Analytics	INFR11198	20 credits
Methods for Causal Inference	INFR11207	10 credits
Speech Synthesis	LASC11062	10 credits
Optimization Methods in Finance	MATH11158	10 credits
Biomedical Data Science	MATH11174	10 credits

AND

Level 10 and 11 courses in Schedules A to Q, T and W

Select between 0 and 20 credits from Level 10 and 11 courses in Schedules A to Q, T and W

NOTES:

These are courses in all schools other than Medicine, Veterinary Studies, or the Centre for Open Learning. Note this includes courses within the School of Informatics.

Students may not register for introductory programming courses in other parts of the University unless explicitly listed in the DPT