MSc Advanced Technology for Financial Computing: Proposed DPT

Overview

The DPT includes:

- 60 credits of compulsory taught courses in Informatics (30 in each semester)
- 30 credits of option courses from the Business School (see attached agreement with HoS).
- 30 credits of option courses from Informatics or Maths.

There is one new course, Data-driven Business and Behaviour Analytics, compulsory in S1. This will help build a cohort as well as necessary knowledge and skills for the degree. See course proposal.

Students must take IAML in Semester 2, which will place them in the same class with the FinTech MSc students and will prevent further overburdening of the Semester 1 offering.

Proposed DPT

Compulsory courses:

- Data-driven Business and Behaviour Analytics: 20 credits, S1
- Informatics Research Review (INFR11136): 10 credits, S1
- Introductory Applied Machine Learning (INFR11182): 20 credits, S2. *Note: must be taken in Semester 2*
- Informatics Project Proposal (INFR11147): 10 credits, S2
- MSc Dissertation (Informatics) (INFR11077): 60 credits. *Note: must be passed at 50%*

Course options:

Informatics MSc Financial Computing Business School courses

Select exactly 30 credits from the following courses.
Note: Not all option courses will run in a particular year and are subject to change, timetabling, and/or demand.

- Introduction to Risk Management in Banks (CMSE11167): 15 credits, S1
- Credit Risk Management (CMSE11122): 15 credits, S2
- Digital Business (BUST10144): 15 credits, S2

Informatics MSc Financial Computing CS and Maths courses

Select exactly 30 credits from the following courses.
Note: Not all option courses will run in a particular year and are subject to change, timetabling, and/or demand.

- Text Technologies for Data Science (INFR11145): 20 credits, full year
- Blockchains and Distributed Ledgers (INFR11144): 10 credits, S1
- Natural Computing (INFR11161): 10 credits, S1
- Fundamentals of Optimization (MATH11111): 10 credits, S1
- Algorithmic Game Theory and its Applications (INFR11020): 10 credits, S2
- Distributed Systems (INFR11022): 10 credits, S2
- Artificial Intelligence, Present and Future (INFR11180): 10 credits, S2
- Large Scale Optimization for Data Science (MATH11147): 10 credits, S2