04102017_BoS_02_Update - Changes made to Text Technologies for Data Science (INFR11145)

Changes made to TTDS as per DoT and CO's request – 11/07/2017

"Entry Requirements"

Maths requirements:

1. Linear algebra: Strong knowledge of vectors and matrices with all related mathematical operations (addition, multiplication, inverse, projections ... etc).

2. Probability theory: Discrete and continuous univariate random variables. Bayes rule. Expectation, variance. Univariate Gaussian distribution.

3. Calculus: Functions of several variables. Partial differentiation. Multivariate maxima and minima.

4. Special functions: Log, Exp, Ln.

Programming requirements:

1. Pyhton and/or Perl, and good knowledge in regular expressions

2. Shell commands (cat, sort, grep, sed, ...)

3. Additional programming language could be useful for course project.

Team-work requirement:

Final course project would be in groups of 4-6 students. Working in a team for the project is a requirement.