COURSE DETAIL

DATA MINING
Country Ireland
Host Institution University College Dublin
Program(s) University College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 118
UCEAP Course Suffix
UCEAP Official Title DATA MINING
UCEAP Transcript Title DATA MINING
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
This course presents important concepts of data mining and how these concepts are implemented and used in real-world applications. The course integrates the theory and practice of data mining with many references to real-world problems and cases to illustrate the concepts and the implementation issues throughout the lectures. The first chapter is devoted to a brief introduction to background information needed to understand the material. This is followed by data warehouse topics and how they differ from database concepts. The notion of data mining process is explained and how it relates to the complete KDD process, as it is very important to understand that data mining is not an isolated subject. The course reviews techniques used to implement data mining algorithms. The course then explores some core topics of data mining: classification, clustering, and association rules. Other concepts, such as prediction, regression, and pattern matching, are also covered, but viewed as special cases of the three core topics.

Language(s) of Instruction
English

Host Institution Course Number
COMP40370

Host Institution Course Title
DATA MINING

Host Institution Course Details
https://sisweb.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP40370

Host Institution Campus
UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed
2019-2020

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