

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 Campus

UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

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