COURSE DETAIL

DATA STRUCTURES AND ALGORITHMS
Country United Kingdom - England
Host Institution University of Sussex
Program(s) University of Sussex
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 120
UCEAP Course Suffix
UCEAP Official Title DATA STRUCTURES AND ALGORITHMS
UCEAP Transcript Title DATA STRUCT&ALGOR
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course introduces data structures and algorithms for computer scientists. The course explores a number of fundamental data structures, including arrays linked lists, stacks, queues, trees, hash tables, and graphs. These are presented both abstractly, via the notion abstract data types, and concretely in terms of their implementation in an object-oriented framework. The data structures are discussed and analyzed in terms of efficiency of the basic operations they support and their application to program design problems. Consideration is given to important, fundamental algorithms for searching and sorting data.

Language(s) of Instruction
English

Host Institution Course Number
G5117

Host Institution Course Title
DATA STRUCTURES & ALGORITHMS

Host Institution Course Details
http://www.sussex.ac.uk/students/handbook/joints/2015/G42F0U/46316

Host Institution Campus
University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department
Informatics

Course Last Reviewed
2019-2020

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