COURSE DETAIL

CLOUD COMPUTING

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
119

UCEAP Course Suffix

UCEAP Official Title
CLOUD COMPUTING

UCEAP Transcript Title
CLOUD COMPUTING

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

Nowadays Cloud Computing is everywhere. Cloud Computing (CC) is not a revolution of Information technology (IT), but It is one of the key evolution steps of IT. It is computing as a utility, which has recently emerged as a commercial reality. The main characteristics of CC are 1) the illusion of infinite computing resources, 2) the ability to pay-as-you-go, and 3) the elimination of an up-front commitment by Cloud users. In other words, CC is a style of computing which can be scaled dynamically, and virtualized resources are provided as a service over the Network. The key idea behind this course is to provide fundamental CC topics taking into account both technology and business considerations. The course is divided into a series of lectures, each of which is accompanied by one or more hands-on exercises. Some of the topics covered are: Fundamental CC terminology and concepts; CC definition an its specific characteristics; Benefits, Challenges and Risks of CC platforms and Services; Roles of CC administrator and owners; SaaS, PaaS, and IaaS delivery models and their combinations; Various Public, Private, and hybrid CC environments; Business Cost models and Service Level Agreements for CC; Case Studies: Google Cloud, Microsoft Cloud, and Amazon Cloud.

Language(s) of Instruction
English

Host Institution Course Number
COMP30520

Host Institution Course Title
CLOUD COMPUTING

Host Institution Course Details
https://hub.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP30520&ARCH...

Host Institution Campus

Host Institution Faculty

Computer Science

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

Print