

COURSE DETAIL

SOFTWARE ENGINEERING AND ARCHITECTURE

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

SOFTWARE ENGINEERING AND ARCHITECTURE

UCEAP Transcript Title

SOFTWARE ENGR&ARCH

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

This course provides an overview of the different aspects and stages involved in the engineering of software with a special focus on architectural properties of large systems. Assuming that course participants are acquainted with basic software development principles, this course provides knowledge on and experience with the wider aspects and stages in the lifecycle of a (large) software system. It introduces the general principles of software engineering, methods for addressing software engineering problems, common tools and techniques for solving software engineering problems, and methods, tools, and techniques for designing software systems and their architecture. Topics include: project management; requirements elicitation; architectural analysis, description, synthesis, prototyping & evaluation; software design and development; software implementation; quality assurance; maintenance and evolution; software business.

Language(s) of Instruction

English

Host Institution Course Number

NDAK20001U

Host Institution Course Title

SOFTWARE ENGINEERING AND ARCHITECTURE

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Master

Host Institution Department

Computer Science

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