

# COURSE DETAIL

## PROGRAM ANALYSIS AND TRANSFORMATION

**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**

152

**UCEAP Course Suffix****UCEAP Official Title**

PROGRAM ANALYSIS AND TRANSFORMATION

**UCEAP Transcript Title**

PROGRAM ANLYS&TRANS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course introduces students to the principles and practice of automated program processing, covering both mainstream application areas, and selected more exotic applications. It covers program transformation and analysis paradigms; applications areas of automated program analysis, such as optimisation, verification, and specialization of programs; principles of semantics-based program transformation; applications of program transformation, such as translation, synthesis, and maintenance; software systems and tools supporting analyses and transformations; selected examples of advanced analyses and/or transformations.

## Language(s) of Instruction

English

## Host Institution Course Number

NDAK16005U

## Host Institution Course Title

PROGRAM ANALYSIS AND TRANSFORMATION

## Host Institution Course Details

<https://kurser.ku.dk/course/ndak16005u/2025-2026>

## Host Institution Campus

## Host Institution Faculty

Science

## Host Institution Degree

Master

## Host Institution Department

Computer Science

## Course Last Reviewed

2025-2026

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