

COURSE DETAIL

PROGRAMMING LANGUAGE CONCEPTS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

127

UCEAP Course Suffix**UCEAP Official Title**

PROGRAMMING LANGUAGE CONCEPTS

UCEAP Transcript Title

PROGRAMMING LANG

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the concepts that serve as a basis for hundreds of programming languages. It provides a basic understanding and appreciation of the various essential programming-languages constructs, programming paradigms, evaluation criteria and language implementation issues. The course covers concepts from imperative, object-oriented, functional, logic, constraints, and concurrent programming. These concepts are illustrated by examples from varieties of languages such as Pascal, C, Java, Smalltalk, Scheme, Haskell, and Prolog. The course also introduces various implementation issues, such as pseudo-code interpretation, static and dynamic semantics, abstract machine, type inferencing, etc.

Language(s) of Instruction

English

Host Institution Course Number

CS2104

Host Institution Course Title

PROGRAMMING LANGUAGE CONCEPTS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

Course Last Reviewed

2022-2023

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