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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