



Programming Language Concepts
21:198:280 (3 credits)

COURSE DESCRIPTION:

Conceptual study of programming language syntax, semantics and implementation. Course covers language definition structure, data types and structures, control structures and data flow, run-time consideration, and interpretative languages.

PREREQUISITE:

21:198:335 (Data Structure & Algorithm Design)

TEXTBOOK:

Robert Sebesta, Concepts of Programming Languages, 11th Edition. Pearson. ISBN 978-0-13-394302-3

DEPARTMENT WEB SITE: <http://www.ncas.rutgers.edu/math>

THIS COURSE COVERS THE FOLLOWING TOPICS:

- Common features of programming languages
- Lexical Syntax
- Grammars
- Names
- Types
- Semantics
- Expressions
- Control Flow
- Subprograms
- Encapsulation
- Memory Management
- Event Handling
- Concurrency

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