2018

Week 20
137-228

MAY

17

4.8.2020

Thursday

CSE415 — PRINCIPLES OF PROGRAMMING LANGUAGES

TAUGHT BY

- prof. venkatesh chopella

COURSE TOPICS

- the role of programming languages.
- Syntactic structure – grammars
- imperative programming
- values
- types and expressions
- semantic methods
- inductive datatypes & recursive programming
- functional programming
  - list manipulation
  - high order functions and currying
- data abstraction and abstract data types

- arithmetic & algebraic interpreters
- block structure & lexical environments
- scope & binding
- procedures & closures
- recursion
- implementing recursion
- dynamic scope
- stores
- computational effects
- explicit & implicit references
- implementing mutation
- expressible and denotable values
- parameter passing
  - call by value
  - call by reference

MAY 2018

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2018

Week 20
139-226

4.8.2020
3 MAY
Saturday
19

- call by name

• lazy evaluation

• introduction to lambda calculus

• tail recursion

• iterative systems

• continuation passing style (CPS)

• converting to CPS

• continuation-passing interpreters

• trampolining

• debugging

• single stepping and breakpoints

• making control context explicit

Sunday 20

• imperative form

• modeling exceptions & threads

• other programming paradigms like logic and object oriented programming.

JUN
2018

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MAY

21

Monday

4.8.2020

2018

Week 21
141-224

- comparative study of languages

9

10 **TEXTBOOKS**

11 1. essentials of programming languages ; friedman.

12 2. programming languages - concepts and constructs ; sethi.

11 3. simply scheme: introducing computer science ; harvey.

2 2

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MAY
2018

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