CS3300: Compiler Design

Instructor: Rupesh Nasre (rupesh@cse)
TAs: TBD

Web: ~rupesh/teaching/compiler/aug20/
Moodle: ?id=6281

August 2020

Prerequisites

- CS2200 LMC
- CS2610 CO Lab
- CS2700 PDS
- CS2710 PDS Lab
- CS2800 DAA
- CS2810 OOAIA

Requirements

- Attendance
  - 100% expected
  - ~~85% compulsory~~
- No copying

In This Course

- Introduction
- Lexing, Parsing
- Syntax directed translation, Analysis
- Runtime
- IR, Code generation
- Optimizations, Others

Book: *Compilers: Principles, Techniques and Tools*, 2ed,
Aho + Lam + Sethi + Ullman, Pearson.

Logistics

- Moodle for submissions, announcements, discussions
(it is your responsibility to get subscribed to the course)

- Tentative evaluation:

  - Theory 60% + Lab 40%

  - Programming assignments (7 + 10 + 13 + 10%)

  - Quizzes (20 + 20%)
  - EndSem (20%)

- B + Q slots (Mon 9, Tue 8 and 14, Wed 12, Fri 1100)

  - Please do not schedule anything in Q slots.

  - The course credits are 3-0-0-6-6-15.

Assignments

- Four programming assignments.

- You should work individually.

- It would help you in quizzes if you do assignments sincerely.

- Do not discuss assignments.

Course Schedule

Month	Lectures	Evaluations
AUG	Lexing, Parsing	A1
SEP	SDT, Analysis, Runtime	A2, Q1
OCT	IR, CodeGen, Opti	A3, A4, Q2, EndSem

Exam	Tentative Date
A1	Sep 5
A2	Sep 27
A3	Oct 11
A4	Oct 25
Q1	Sep 7
Q2	Oct 6
EndSem	Oct 20