

CS3300: Compiler Design

Instructor: Rupesh Nasre (rupesh@cse)

TAs: Ajaykrishnan, Bikash, Seshagiri Rao, Prabu,
Arun, Divyanshu, Meghana, Sai Pavan, Anshu

Web: ~rupesh/teaching/compiler/jul18/

Moodle: ?id=2673

July 2018

Prerequisites

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

Requirements

- Attendance
 - 100% expected
 - 85% compulsory
- No copying
- Absolute grading
 - S = 95
 - A = 80
 - ...

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%
 - Weekly lab practice (4% * 9)
 - Programming assignments (8 + 16 + 20 + 20%)
 - Quizzes (25 + 25%)
 - EndSem (50%)
- B + T slots (Mon 0900, Tue 0800, Wed 1300, Fri 1100 and 1400)

Assignments

- Four programming assignments.
- You should work individually.
- It would help you in quizzes if you do assignments sincerely.

Course Schedule

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

Exam	Date
A1	Aug 12
A2	Aug 26
Q1	Sep 4
A3	Sep 30
Q2	Oct 16
A4	Oct 28
EndSem	Nov 19

EndSem would contain all the topics.