CS108: Software Systems Lab

Course Overview & Logistics

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Questions ???

- Software Systems, what is it ?

- Why should I study it?

(Open ONLY for **CSE UG** students)

Course Content

- Module1: Background
  - Unix Command Line
- Module2: Web Development
  - IDE, HTML/CSS/Javascript
- Module3: Scripting
  - Bash, sed, awk
- Module4: Managing Codebase
  - git, debugger, make
- Module5: Languages
  - Python; Packages (numpy, matplotlib)
  - Spreadsheets?
- Module6: Documentation
  - Latex, doxygen

Textbook

- No one book, will provide web references

CS 108

- Lab course: Practical implementation
- Lecture: 1.5hrs, Tutorial: 1hr, Lab: 3 hrs
  - Slot 5 for Lecture (Wed 9.30am mostly)
  - Lab: Wed 2-5pm?
    - Lab to be done individually, but can discuss with anyone
  - Tutorial: Friday 9.30am or Post 5.30pm?

Pre-Requisites

- Sincere, hard-working: committed learning

- Time management: methodical learning

- Social (discussion & participation): group learning

- Straightforward, honest: ethical learning

  – Cheating will be reported to DDAC

- A bit of humor, wit will liven the classroom

CS 108: Evaluation Plan

SAFE quizzes (Objective ,2)	20%
Proctored Lab Exams (Hands-on, 2)	60%
Participation (lab submissions, Lecture/Tutorial attendance, DF, BodhiTree quizzes etc)	5%
Project (documentation, code quality, demo, viva)	15%
Total	100%

2 exams near midsem, 2 exams near final. Project evaluation: during final's window

- Weekly Labs have minimal weight towards grade !!!
  - Released Wed, submission closed after 10 days
  - You will receive marks, but this is mostly for self assessment!
  - If you goof up here, you will not do well in exams!!!
- Lab attendance enforced!!! → XX grade is on
  - Need to maintain 80% attendance
  - A student with "XX" grade in a given course is not permitted to take the semester-end examination
  - The "XX" grade is treated as "FR" for the purpose of CPI calculation, and requires re-registration for the course

Action Items

- Platforms used: BodhiTree and SAFE
  - Look out for emails from me for enrollment

- First Lab: Jan 10th

  - Install cLab App

  - Unix command-line quiz on Bodhitree!