

CS104: Software Systems Lab

Course Overview & Logistics

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(Course website: mayur.bodhi.cse.iitb.ac.in)

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

Textbook

- No one book, will provide web references

CS 104

- Lab course: Practical implementation
- Lecture: 1.5hrs, Lab: 3 hrs (first 45 min will be tutorial)
 - Slot 5 for Lecture (Wed 9.30am mostly)
 - Lab: Wed 2.45 - 5pm
 - Lab to be done individually, but can discuss with anyone
 - Tutorial: Wed: 2 to 2.45pm
 - In small batches of 50-60 students per TA
 - no tutorial this week

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

Evaluation Plan

SAFE quizzes (Objective ,2)	20%
Proctored Lab Exams (Hands-on, 2)	60%
Participation (lab submissions, 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!!!
- Attendance enforced!!!
 - 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
- First Lab: Today (1.5 hrs starting 2pm)
 - Install cLab App
 - Open terminal and type a few commands
- Friday Class (only this week)