

CS104: Software Systems Lab

Course Overview & Logistics

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(Course website: flamingo.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: Scripting
 - Bash, sed, awk
- Module3: Managing Codebase
 - IDE, git, debugger, make
- Module4: Languages
 - HTML/CSS/Javascript; Python; Java; Spreadsheets
- Module5: Documentation
 - Latex, pyplot, doxygen

Textbook

- No one book, will provide web references

CS 104

- Lab course: Practical implementation
- Tutorial: 1.5hrs, Lab: 3 hrs
- Slot 4 for theory: Will mostly stick to Mon 11.30 to 12.30/12.45
 - But do keep Tue/Thu also free for extra classes/quizzes!
- Mon/Thu 2-5pm Lab in two batches
 - Lab to be done individually, but can discuss with anyone

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 104: Evaluation Plan

SAFE quizzes (Objective ,2)	20%
Proctored Lab Exams (Hands-on, 2)	60%
Project (documentation, code quality, demo, viva)	20%
Total	100%

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

- Weekly Labs have no weight towards grade !!!
 - Released Mon, submission closed on Sun
 - You will receive marks, but this is 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
- Week1: Mon and Thu class i.e. 6th and 9th March; no LAB
- First Lab: 13th for batch1 and 16th for batch 2
 - Install bLab App, Install SAFE
 - Unix command-line quiz on SAFE between 4-5pm for 30 min (not graded!!!)