CS251 - Computing Laboratory (I)

Mon 10am to 11am

Course and instructors

\$whereis cs251

https://www.cse.iitk.ac.in/users/deba/cs251

Moodle: https://moodle.cse.iitk.ac.in/

\$whereis deba

KD 212, deba@cse.iitk.ac.in, Extn: 2004

\$find TAs

Ashish, Dhanajit, Sandipan, Brojo Kishor, Subhadip, Akanksha, Akshay, Somya, Fenil, Arshalaan, Sunder, Santhosh

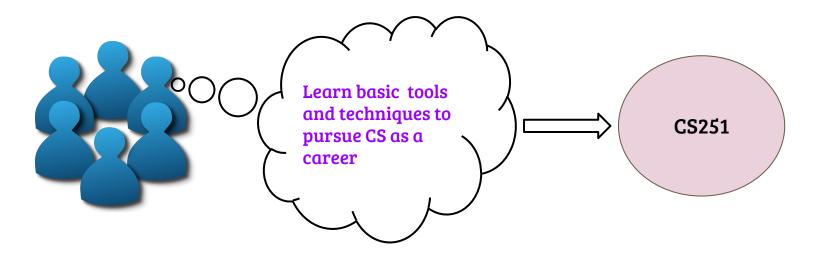
https://docs.google.com/spreadsheets/d/10nnqPKb8Li-MYgs7-LKA78CbYkm77iRUZL8wHAChoN8/edit?usp=sharing

Evaluation

- 1. Lab exercises (70%)
- 2. Final Examination (lab) (30%)

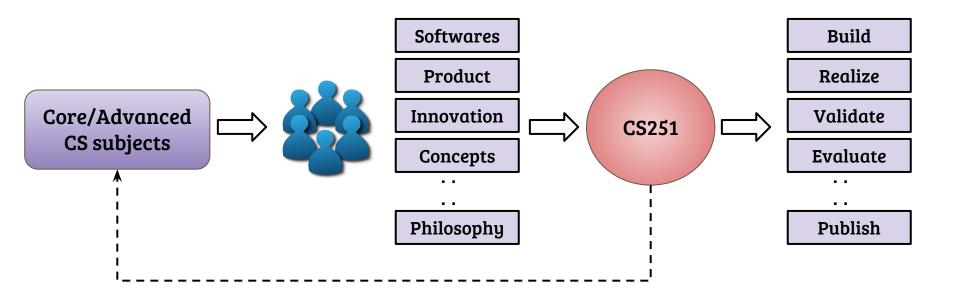
References : Will be uploaded in course page

Course objectives

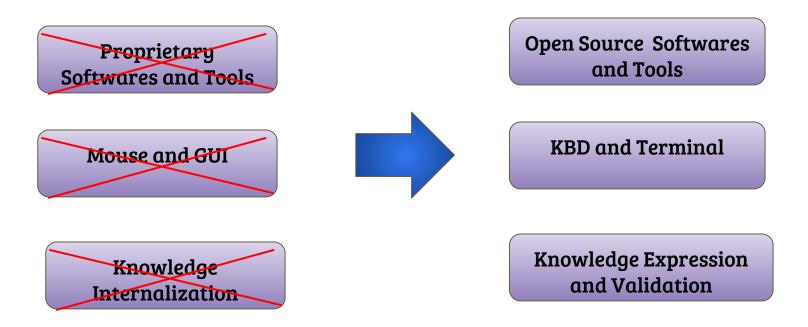


- → Builds background for other subjects
 - Automation, self sufficiency etc.

Course objectives



CS251: Change of outlook



- → Linux operating system: Ubuntu, Fedora, CentOS ...
- → GNU utilities: Bash, sed, awk, python, gnuplot ...

Course components

Lecture on Monday

Lab on Mon, Wed and Th - 2 to 5PM

Class lecture

- → High-level overview of the topic
- → System interaction, best practices, how to get help
- More of an illustration session

Course components

Lecture on Monday

Lab on Mon, Wed and Th (2pm to 5pm)

CS251 Lab

- → Every week there will be practice examples and assignments
- → Assignments will be released at the end of lecture
 - ◆ To be submitted in moodle by 9.59 AM on Monday
 - Will be evaluated during lab hours
- → You are free to use your laptop
- → Ask for a virtual machine if you don't have a laptop

- → This week
 - Getting ready with a linux setup
 - Bash command line interface

CS251 cycle Upload assignment on Moodle Class on Monday (Due before class on Mon 10AM) Practice exercises, Assignment Evaluation (Prev week) Practice and assignment Lab (Mon, Wed, Th)

Course components

Lecture on Monday

Lab on Mon, Wed and Th (2pm to 5pm)

- → Lab examination
- → Will test your skills on individual components that you have learnt during the course
- → Internet access will be allowed, friends (machine and human) will be disconnected

Honor Code

"Take pride in honest hard work"

"Cheating implies accepting defeat"

"If you are here to learn, never defeat the purpose by cheating"

https://www.cse.iitk.ac.in/pages/AntiCheatingPolicy.html

Cheating of any kind will result in "F" grade

Bash (Bourne Again) Shell



- Extremely popular command line interface
- → Rich with a set of features
 - Environment
 - ◆ Variables
 - History
 - **♦** Commands
 - **♦** Jobs
- → Manpages and Info