

CS622: Advanced Computer Architecture

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Course and instructors

Course Resources

Course schedule: www.cse.iitk.ac.in/users/deba/cs622

Piazza link: <https://piazza.com/iitk.ac.in/firstsemester2027/cs622>

(All announcements related to the course)

Instructor and Meeting hours

KD 212, email: deba@cse.iitk.ac.in

12:15 PM - 1:45 PM, Monday

TAs: Binong, Anjali

Course policy

Add/Drop

Course registration:- Ideally before next class

Last date of drop:- 20-Aug-2026 (strict, no further drops allowed)

Class logistics

Classes on Mon,Thu (10:30AM - 11:55PM) in KD-102 Be on time!

Keep your mobile phones switched off!

Ask questions and interact (in class and in Piazza)

Evaluation

1. Programming assignments and quizzes (30%)
2. Midsem (30%)
3. Project (40%)

References

- John Hennessy and David Patterson, Computer Architecture: A Quantitative Approach (5th Edition)
- David Patterson and John Hennessy, Computer Organization and Design: The Hardware/Software Interface (5th Edition)
- Operating Systems: Three Easy Pieces. Remzi H. Arpaci-Dusseau and Andrea C. Arpaci-Dusseau. (online)
- Architecture manuals, white papers
- Research papers

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“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>

Getting ready for CS622

- Personal laptops/desktops with Linux OS and decent backup desirable
- Install and get comfortable using tools such as `gcc`, `g++`, `gdb`, `objdump`
- Refresh concepts learned in CS220 and CS330

Tips/Suggestions

- Attend classes regularly
 - Slides can not contain everything discussed in class
- Ask questions
 - No question is a bad question!
- Start early, avoid last minute rush
 - For assignments and projects, recall the (1 : X) principle
- Do not hesitate to contact the teaching staff
- All the best!