Dear Students,

Below, I have provided details for studying for CAT-1 examination.

- Kindly note that it is <u>necessary and sufficient to read the book chapters</u> (exact page numbers are provided) of the three books I have pointed to for the examination.
- I understand that you are used to reading slides for the exams. But for this course the <u>slides are just for your reference</u> and may be for your revision before the exam.
- I understand that it is of discomfort to refer to three books, but I promise for the remaining exams CAT -2 and TEE you will only *mostly* study one book, that is, [Wayne Wolf book](). Due to the content to be taught for lab and to cover some syllabus simultaneously, I had to require you to read three books for CAT-1.
- All the slides are put in one folder, and zipped for your ease for downloading.
- Feel free to ask any thing that you may require towards preparing for the CAT-1 exam.

Wish you all the best !

Thanks,
Balaji.

Books for Reading

- [Raj Kamal Book, Third Edition]()
    - Chapter 1 (1.1, 1.2, 1,3, 1.4, 1.10); Pages 1-20 and Pages 27-28.
    - If you are following a different edition just read the following topics
        - Embedded System
        - Processor Embedded into a System
        - Embedded Hardware Units and Devices in a System
        - Embedded Software in a System and an Overview of Programming Languages
        - Examples of Embedded Systems

- [Wayne Wolf, Second Edition](#)
  - Chapter Introduction (Pages 1-6),
  - and only the following topics are included (if you are following a different edition):
    - Embedding Computers
    - Characteristics of Embedded Computing Applications
    - Why use Microprocessors?
- [8051 Microcontroller, Kenneth Ayala, 3rd Edition](#)
  - Chapter 1, Microprocessors and Microcontrollers (Pages 1-6)
  - Chapter 3, 8051 Architecture, Pages 60 - 72
  - Chapter 5, Moving Data, Full (Pages 131 - 149)
  - Chapter 6, Logical Operations, Full (Pages 151 - 166)
  - Chapter 7, Arithmetic Operations, Full (Pages 169 - 188)

Slides Used in the Class

- [You can access the individual files or download the zip folder present in this link.](#)

Slides for reference (from other sources)

- Will be updated soon ...