Introduction to Computing (CS 101) and Computing Laboratory (CS 110)

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Outline

• Course, Attendance, Reference Book
  – CS101 : Theory (Introduction to computing)
  – CS110 : Laboratory work
• Administrative stuffs
• What do we study in this course?
• Why should this be studied?
• How is the course structured?
CS 101 : Introduction to Computing

• Theory Part

• Instructors
  – S. V. Rao & A. Sahu (Before Mid Sem)
  – D. Kesh & V. Malhotra (After Mid Sem)

• Two exams
  – Mid semester 40%, End semester : 60%

• Pass marks : 30%
CS 101 : Introduction to Computing

• We may conduct a makeup exam
  – To pass some students
  – After [the End Semester Exam] & Before [Grade Submission]
  – Makeup exam is not for grade change
  – 75% attendance is mandatory to appear for the makeup examination
CS101: Course Structure

- Introduction: OS, compiler, text editors, flowchart and system; Linux commands and directory structure
- C Programming: basic features and advanced features
- Data Structures: array, stack, queue, lists
- Searching and sorting, OOP
CS101 Course Objectives

To learn -

• Basic principle of computer system and programming

• Use of computer for many real life problem
  – Physics, Chemistry, Electrical, Mechanical

• Programming remove : Many manual calculation
CS101: Course Flow

Computer System and Linux Command, Flow Charts

Basic C Programming

Advanced C Programming

Data Structure & Sorting /Searching
CS101: Text & References
CS101: Text & References

• Text Book
  – A M Tenenbaum and all, *Data Structures Using C*, Prentice Hall India, 1996..

• References

• You many refer/read any book/source you like
Web Portal, Timing & Venue


• Class Timing & Venue
  – Division I (CE, ME): Timing E1, Venue L2
  – Division II (BT, EEE, ECE): Timing E1, Venue L3
  – Division IV (CL, CT, DD): Timing E, Venue L3

• Instructors
  – A. Sahu & V. Malhotra, Division I and III, Venue L2
  – S. V. Rao & D. Kesh, Division II and IV, Venue L3
Course Website: Web portal

- Lecture notes/slides
- Announcements and Information
- Examination information
- Group Information
- Marks, Questions and Answer
- Practice Problems and Any many more...
CS110 (Lab Part)

• Web Portal http://172.16.113.215/
• Instructor : V. Saradhi
• Venue : Computer Center
• There will be 6 to 8 TAs per session to supervise/guide you in Laboratory
• Marks
  – Practice Problem (Every week): 25%
  – Mid semester Lab exam : 35%
  – End semester Lab exam : 40%
  – Pass marks : 30%
CS110 (Lab): Practice Class

• Assume **Every lab class as an Examination**
• Every week one practice problem per session
• Every practice problem carries marks : 2.5 Marks
• Practice problem: Serve as attendance
• A Set of Similar Practice Problems will be announced before Lab session start
• Practice problems are based on CS101 lectures of the previous week
CS110 (Lab): Exam dates

• Mid Semester Lab Exam
  – 06-Mar-2017 to 11-Mar-2017
  – Venue: CC, same as practice lab, Lab hours of the week

• End Semester Lab Examination
  – 24-April-2014 to 28-April-2017
  – Venue: CC, same as practice lab, Lab hours of the week
CS110 : Lab Rules

• Attendance: 75% in the lab is mandatory
• Designated Cube: Students sit in the assigned computer cubical
• No mobile phones in lab sessions
• No make up class
  – If you miss regular lab class, no make up session will be arranged
  – make up class allowed: only on medical ground
• Unfair means: Students should stay away from adopting unfair mean (copying..)
CS110 : Announcement

• Lab session will start from 09-Jan-2017
  – A notice is pasted in the Computer Center in this regards

• Password for the portal will be send to your IIT Guwahati email account
  – CS110/CS101 Web Portal
    http://172.16.113.215/
Announcement

• All news, announcements and updates will be announce in three modes
  – In classes (You are suppose to attend classes)
  – Though email (Please check your email regularly)
  – In course web portal http://172.16.113.215/ (Please check this portal regularly)

• Please attend all the class

• Please don’t excuse your self for not getting the information
Thanks