CS 101 Introduction to Computing

Semester – 2014 -15 / II Semester
Units – 2 – 0 – 2 – 3
Pre-requisite – None
Instructors – Sanjay Dhande, Arya Bhattacharyya, Lilian Besson, Vipin K
Tutors – Arya, Lilian, Vipin, Vivek, Kondiah
Course Organization

- Time Table: Lectures – Mondays, Tuesdays
- Time Table: Lab Sessions – Mondays, Tuesdays
- Lab Assignments – 12, Lab Sessions - 15
- One Term Paper
- Homework Assignments – 10, Lectures - 30
- Two Mid-semester Tests, End-semester Exam
- Attendance – Absolutely compulsory
- Honors Code applies in the course
For A Section:
- Monday 10:35 – 11:30 LT - 2
- Tuesday 08:25 – 09:20 LT - 2

For B Section:
- Monday 08:25 – 09:20 LT - 4
- Tuesday 11:35 – 12:30 LT - 2

Special Schedule To be announced as needed
Time Table – Lab Sessions

• For A Section:
  • Sub-section A-1  Tue  13:35 – 15:30
  • Sub-section A-2  Fri  15:35 – 17:30
  • Sub-section A-3  Mon  14:35 – 16:30
  • Sub-section A-4  Wed  10:35 – 12:30

• For B Section:
  • Sub-section B-1  Mon  10:35 – 12:30
  • Sub-section B-2  Fri  13:35 – 15:30
  • Sub-section B-3  Wed  08:25 – 10:20
  • Sub-section B-4  Thu  08:25 – 10:20
Lab Assignments

- There shall be 12 lab assignments
- Lab assignments will be announced in advance
- Students are required to work on the lab assignments before coming to the lab
- Students are required to finish the program during the lab hours with good points
- Those who will not; will be given one extra day with penalty
- Each lab will carry 2 points
- Honors code is strictly applicable for lab work
Term Paper

- Students will be required to submit one term paper
- This will be towards the end of the semester
- The term paper will be submitted and presented by each group
- Each group will consist of two students
- The term paper will involve writing of a large program in Python language
- Each group will submit the title of the term paper in advance
- Honors Code applies in the term paper
Homework Assignments

- The course will have a total of 10 homework assignments
- Questions of homework will reflect the nature of questions in the mid-sem tests and end-sem exam
- Approximately one week time will be given for completing the homework assignment
- Each assignment will carry 1 point
- Homework has to be submitted at the time of lab
- Honors Code applies for the homework assignments
Two Mid-semester Tests

- There shall be two mid-semester tests
- Each test will be of 90 minute duration
- Each test will cover about 5 – 6 weeks of course material
- Each test will carry 15 points
- Attendance – Absolutely compulsory
- Honors Code applies in the tests
The End-semester Examination

- There shall be one end-sem examination at the end of the semester
- It shall be of duration 180 minutes
- It shall be a closed-book, closed-notes examination
- The exam will be based on the
  Two Mid-semester Tests, End-semester Exam
- Attendance – Absolutely compulsory
- Honors Code applies in the course
The Weights

• First Mid-sem Test – 15%
• Second Mid-sem Test – 15%
• End-sem Examination – 30%
• Lab Work (12 x 2) - 24%
• Term Paper - 6%
• Homework (10 x 1) – 10%
• Total - 100%
• Honors Code applies in the course
Text Book & Reference Books

- Time Table: Lab Sessions – Mondays, Tuesdays
- Lab Assignments – 15, Lab Sessions - 15
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- Honors Code applies in the course
The Honor’s Code

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Attendance Policy

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Thank You!

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Historical Machines of Computing

- Historical Machines of Computing
- Analytical Engine
- Difference Engine
- Jacquard Loom, Knitting Machine
- Slide Rule, Logarithmic Tables
- Calculators
- Unit Record Machines
- ELIAC, UNIVAC computers
Abacus and other Devices
Jacquard Loom, Knitting Machine, Music
Organ, Doll
Difference Engine
Analytical Engine
Slide Rule, Log Tables
Calculators
Unit Record Machines
ELIAC, UNIVAC Computers