

COURSE – PLAN

Course Title:	Introduction to Computing (CP-111)
Instructor:	Engr. Mohammad Haroon Yousaf
Teaching Assistant:	Engr. Romana Shahzadi
Class:	1 st Semester Computer Engineering (Entry-2009)

Objectives:

This course fulfills the university core requirement in computing. As such, there are multiple objectives of this course, which primarily include the following:

- To give everyone a flavor of the kinds of things studied in Computer Engineering.
- To give every student a set of productivity tools that they will be able to use for the rest of their lives.
- To encourage students to enroll in Computer Engineering majors.
- To provide Computer Engineering students with a useful start.

Course Description:

The course aims to convert students into sophisticated power-users, who can comfortably use their computers. However, we aim to do so without burdening students with useless details that have little utility from a user's perspective. The course will provide a general overview of the computer engineering discipline, as well as an introduction to basic programming.

By the end of this course, we aim to impart the following skill-set to the students:

- A thorough understanding of a user-level view of computers, and their role in the society.
- The ability to use computers to enhance productivity, regardless of the type of discipline in which they are being used, including effective use of MS Word, Power point and Excel.
- An overall understanding of the area of computer engineering, including interesting research areas like computer architecture, signal processing, computer networks and computer vision.
- An introduction to programming, using C++, and the ability to write short programs.
- The ability to create simple web pages.
- A basic level introduction to Matlab and matrix manipulations in Matlab.
- The ability to install downloaded or purchased software, and understand issues like privacy and computer viruses.
- An introduction to the Internet/intranet, including a users' view idea of things like client/server, WWW, firewall.
- An understanding of enough basic specs and components of computers to make reasonable purchase decisions, along with working knowledge of hardware components, for example an understanding of how to add a video or a sound card to a computer.

Text Books:

The text used in support of the lecture contents is "*Introduction to Computers*" by Peter Norton, 6th Edition, McGraw-Hill SiE, ISBN 0-07-059374-4. In addition, handouts will be given to help with the programming aspects of the course.

Web Page:

<http://web.uettaxila.edu.pk/CMS/coelCbsAut09/index.asp>

Schedule:

Week #	Theory Lecture	Lab Session
Week-1	Course outline, Introducing Computer Systems - I	Lab – I on Familiarization with Computer Hardware, Internal Structure
Week-2	Introducing Computer Systems – II	Lab – II on Familiarization with Computer Hardware, Internal Structure
Week-3	Input Devices	Introduction to Windows Operating System and built in facilities provided by windows
Week-4	Output Devices – I	Introduction to Internet
Week-5	Output Devices – II	Microsoft Office Word
Week-6	Data Processing – I Transferring data into information	Microsoft Office PowerPoint
Week-7	Data Processing – II CPUs used in Personal Computers	Microsoft Office Excel
Week-8	Storage Devices – I Types of storage devices	Microsoft Office Excel
Week-9	Storage Devices – II Measuring and improving drive performance	Web Page Designing using HTML
Week-10	Computer Software & Operating Systems - I	Web Page Designing
Week-11	Computer Programming and Software Development	Computer Programming using C++ - I
Week-12	Computer Software & Operating Systems – II	Computer Programming using C++ - II
Week-13	Application Softwares	Computer Programming using C++ - III
Week-14	Computer Networks and Internet Technology - I	Computer Programming using C++ - IV
Week-15	Computer Networks and Internet Technology – II	Introduction to Matlab
Week-16	Database Management	Matlab Built-in-Functions

Grading Criteria :

Quizzes	10 Marks
Assignments	10 Marks
Lab Work	20 Marks
Mid Semester	20 Marks
End Semester	40 Marks

Quizzes: Surprise quizzes will be conducted throughout the course and total 4-5 quizzes will be taken. It will evaluate the students on the topics discussed in the course so far. No two consecutive quizzes will be conducted in a span of three weeks.

Mid Semester Exam: Midterm exam will be conducted in ninth week and it will cover the entire course covered in first eight weeks.

Assignments: To further enhance learning 4-5 assignments will be given to the students.

Class Participation: To evaluate the lecture wise performance of students, Random viva-voce type questions can be asked during the lecture. For each right answer 0.25 marks will be awarded and for wrong answer 0.25 marks will be deducted as negative marking.

Office Hours :

Wednesday 11.00 AM → 1.30 PM

Contacts :

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