## Introduction to Programming - 2011 Syllabus

## Syllabus

- Introduction (variables, data types, if statement, stdio.h, float.h, MAX/ MIN sizes)
- Operators, expressions, if-else condition
- for loop, while loop, do while loop
- 1-d arrays, strings
- 2-d arrays (matrices, array of strings, etc.)
- Functions, header files (math.h, time.h, custom headers), external functions
- Pointers
- Pointer to pointers, pointer to functions
- Bitwise operators, struct, union
- File handling, binary files
- Macros, pre-processor directives
- Linked lists

## Books

- Programming in ANSI C (Ed 5) by Balagurusamy, McGraw-Hill Education
- **C Programming Language** (Ed 2) by *Brian W. Kernighan* and *Dennis M. Ritchie*, Prentice Hall
- Expert C Programming by Peter van der Linden, Prentice Hall
- The C Puzzle Book by Alan R. Feuer, Addison-Wesley Professional
- C Traps and Pitfalls by Andrew Koenig, Addison-Wesley Professional