

Department of Computer Science and Engineering
National Institute of Technology Calicut

Tentative Course Details: Monsoon 2012

ZZ1004 Computer Programming

(The instructor reserves the right to adjust the syllabus when required)

Course:

No: ZZ1004

Title: COMPUTER PROGRAMMING

Lecture Hours: Tue 11:15am-12:15am, Wed 1pm-2pm, Thu 8am-9am,

Lecture Room: MB 110

Instructors:

Name: Sarang Sukumar A, Anoop Jacob

Office: MB 209 Faculty Room, Main Block.

Office Hours: By appointment

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Course Objective:

- To introduce the students to fundamentals of C programming language.

References:

- B. W. Kernighan and D. M. Ritchie, The C Programming Language (2/e), Prentice Hall, 1988.
- B.S. GottFried, Schaum's Outline of Programming with C(2/e), McGraw-Hill, 1996.
- C. L. Tondo and S. E. Gimpel, The C Answer Book (2/e), Prentice Hall, 1988.
- B. W. Kernighan, The Practice of Programming, Addison-Wesley, 1999

Evaluations:

Mid-Term Exam I : 20%

Mid-Term Exam II : 20%

Assignments/Quizzes : 10%

Final Exam : 50%

Course Schedule:

Week 1	Introduction to basic C programming; Data Types, Operators and Expressions: Variables and constants - declarations -
Week 2	Arithmetic, relational and logical operators – Assignment operator and expressions – conditional expressions – precedence and order of evaluation.
Week 3	Control Flow: Statements and blocks – if-else, switch
Week 4	while, for and do-while statements – break and continue statements, goto and labels.
Week 5	TEST1
Week 6	Functions and Program structure: Basics of functions, Parameter passing.
Week 7	Scope rules - recursion.
Week 8	Pointers and Arrays: Single and multidimensional arrays.
Week 9	Pointers and arrays – address arithmetic - Passing pointers to functions.
Week 10	TEST2
Week 11	Structures and Unions: Basics of structures, Structures and functions – Arrays of Structures.
Week 12	Pointers to structures – self referential structures – Type definitions – Unions.
Week 13	Input and Output: Standard input and output
Week 14	Formatted output – variable length argument list – file access.

Grading Policy:

- Grading will be relative.
- Even though the grading will be relative here is a tentative marks to grade conversion formula:
90-100: S; 80-89: A; 70-79: B; 60-69: C; 50-59: D; 40-49: E; <40: F.
- Absence without prior written permission from the instructor will be equivalent to zero marks in the corresponding exam.
- There will be no makeup exams except in case of genuine reasons. In the event of such exceptional cases, the student must discuss the matter with the instructor and must get written permission before the date of exam. Normally the corresponding weightage of the exam will be added to other exams.
- All issues regarding valuation of exams and assignments must be resolved within one week after the marks are announced.

Standard of Conduct:

Each student is expected to adhere to high standards of ethical conduct, especially those related to cheating and plagiarism. Any submitted work MUST BE an individual effort. Any academic dishonesty will result in zero marks in the corresponding exam or assignment and will be reported to the department council for further action. (Refer to department policy on academic integrity: http://cse.nitc.ac.in/sites/default/_les/Academic-Integrity.pdf)