**Course Outline Summer 2016**

Southeast University

School of Science & Engineering/CSE Department

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| Program: CSE | Section: 4,5 & 6 |
| Course Title: Programming Language I (C) | Course code: **CSE1011/1012** |
| Faculty name: Md. Tawseef Alam | Faculty Code: TAWS |
| Email address: [tawseef1410@gmail.com](mailto:tawseef1410@gmail.com) | Contact no: 01676214009 |
| Counseling Hour: Sat, Mon 11:00 AM to 01:00 PM | Faculty Room No: 806 |

1. **Course objectives:**

To enable students to write simple programs in C. Before that students will come to know why programming is needed, what are the strengths and weaknesses of computers. In lab courses we will try to write some programs related to this course.

1. **Learning outcomes:**

After completion of the course students will be able to write simple programs in C.

1. **Course contents(in brief):**

Computer and C Fundamentals, C Datatypes, Operators and Expressions, Basic I/O functions, if-elsestatement, loops – forloop, whileloop, do whileloop, functions, global, local, static and register variable, arrays, bubblesort, selectionsort.

1. **Text and Reference Book:**

A. Programming with C (Schaum’s outline series) by Byron Gottfried (2nd or 3rd Edition preferable).

B. C – The Complete Reference by Herbert Schildt (Osborne)

1. **Teaching methodology:**

The course is quite hard. Unlike many other universities in Southeast we do not encourage memorizing codes to pass in exams. So in class the policy will be to make you understand how to program and memorizing will not help you to get good grades. The assignments will be easy but the questions of exam1, exam 2 and exam3 will be quite hard. But you will be given sample questions so that you can get an idea. In general, 5% or fewer students get A+ and 10% or more students get F.

1. **Tentative Plan of course:**

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| --- | --- | --- |
| Lecture no | Brief course content & chapter no | Topic Covered From |
| Lecture 1 | Why Learn Computer Programming? | Class Notes |
| Lecture 2 | C Fundamentals | Book A |
| Lecture 3 | C Fundamentals | Book A |
| Lecture 4 | Operators and Expressions 1 | Book A |
| Lecture 5 | Operators and Expressions 2 | Book A |
| Lecture 6 | Operators and Expressions 3 | Book A |
| Lecture 7 | Data Input and Output 1 | Book A |
| Lecture 8 | Data Input and Output 2 | Book A |
| Lecture 9 | Data Input and Output 3 | Book A |
| Lecture 10 | Data Input and Output 4 | Book A |
|  | Exam 1 |  |
| Lecture 11 | Loop 1 – While Loop | Class Lecture |
| Lecture 12 | Loop 2 – Do While Loop | Class Lecture |
| Lecture 13 | Loop 3 – For Loop 1 | Class Lecture |
| Lecture 14 | Loop 4 – For Loop 2 | Class Lecture |
| Lecture 15 | Loop 5 – For Loop 3 | Class Lecture |
| Lecture 16 | Loop 6 – For Loop 4 | Class Lecture |
| Lecture 17 | Loop 7 – Nested Loop 1 | Class Lecture |
| Lecture 18 | Loop 8 – Nested Loop 2 | Class Lecture |
| Lecture 19 | Discussion |  |
|  | Exam 2 |  |
| Lecture 20 | Function 1 | Book A |
| Lecture 21 | Function 2 | Book A |
| Lecture 22 | Function 3 | Book A |
| Lecture 23 | Program Structure – Global, Local Variable, Register Variable | Class Lecture |
| Lecture 24 | Program Structure – Static Variable | Class Lecture |
| Lecture 25 | Program Structure – Static Variable (Part 2) | Class Lecture |
| Labtest 26 |  |  |
| Lecture 27 | Array 1 | Book A & Book B |
| Lecture 28 | Array 2 | Book A & Book B |
| Lecture 29 | Array 3 | Book A & Book B |
| Lecture 30 | Array 4 | Book A & Book B |
|  | Lab test |  |
|  | Exam 3 |  |

1. **Course performance evaluation basis and Exam Format:**

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| --- | --- | --- | --- |
| **Performance Evaluation Basis** | | **Sample mark distribution for Exam** | |
| Attendance | 5% | MCQ | 5 Marks |
| Assignment | 20% |
| Exam 1 | 25% | Short Questions | 5 x 2 = 10 Marks |
| Exam 2 | 25% | Broad Questions | 10 Marks |
| Exam 3 (Final Exam) | 25% |
| **Total** | **100%** | **Total** | **25** |

1. **Grading Policy**

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| --- | --- | --- | --- | --- | --- |
| New Grading Policy (Applicable for students admitted after Summer 2007) | | | | | |
| Range | Grade point | Letter Grade | Range | Grade point | Letter Grade |
| 80-100 | 4.00 | A+ | 55-59 | 2.75 | B- |
| 75-79 | 3.75 | A | 50-54 | 2.50 | C+ |
| 70-74 | 3.5 | A- | 45-49 | 2.25 | C |
| 65-69 | 3.25 | B+ | 40-44 | 2.00 | D |
| 60-64 | 3.00 | B | < 40 | 0.00 | F |

1. **Instructor’s special note/ instructions:**

80% attendance is required for attending exam 3. Integrity is very important in all my courses. Students with lack of integrity will be penalized.