



**Course Outline- Electrical Circuit**  
**Department of Computer Science & Engineering**  
**East West University**  
**Code: CSE 109 (1)**

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<b>Semester</b>	: Summer 2013
<b>Course</b>	: CSE -109
<b>Credit Title</b>	: Electrical Circuit
<b>Course Hours</b>	: 3 (Theory) + 1(Lab) = 4
<b>Theory Class Time</b>	: ST 8:30 Am - 10:00 Am (Sec 4)
<b>Theory Class Room</b>	: 403 (Computer Lab 1)
<b>Lab Class Time</b>	: R 4:50 Pm - 6:50 Pm (Sec 4)
<b>Lab Class Room</b>	: 505 (Computer Lab 3)
<b>Instructor</b>	: Md.Shamsujjoha (MSJ)
<b>Office</b>	: Room No 615
<b>Office Hours</b>	: MTW 10:10 Am - 1:20 Pm
<b>E-mail</b>	: <a href="mailto:dishacse@yahoo.com">dishacse@yahoo.com</a> and <a href="mailto:msj@ewubd.edu">msj@ewubd.edu</a>

**Objective:** The objective of the course is to develop basic programming skills using C language. After completion of the course, students will be able to analyze and solve moderately complex problems, develop algorithms for solving them, code the algorithms using C language.

**Course Contents:**

- ❖ Introduction of Computer Programming, Programming style, program design.
- ❖ Programming file structure: purpose of .h and .c files.
- ❖ Constant, variable and data types.
- ❖ Operator and expression, type conversion.
- ❖ Decision making, branching and looping.
- ❖ Arrays and strings.
- ❖ User defined functions.
- ❖ Structures and union, bit field and bit-wise operations,
- ❖ Pointer.
- ❖ File management in C.
- ❖ Command line arguments.
- ❖ Dynamic memory allocation.

**Labs:**

- ❖ Familiarizing with computer and windows operating system
- ❖ Familiarizing with C language and integrated development environment (IDE).
- ❖ Programming using Data types, expressions and variables
- ❖ Programming using Selection statements ( if and switch)
- ❖ Programming using Iterations statements (for and while)
- ❖ Programming using Arrays (1-dimentional array and 2-dimentional array)
- ❖ Programming using user defined functions
- ❖ Programming using dynamic memory allocation and pointers
- ❖ Programming using structures
- ❖ Programming using File I/O

**Lab Environment (any one):**

- ❖ Code Block 8.02 or later version, Microsoft Visual C++ 6.0 or later version, Eclipse, vi & gcc

**Text Book:**

- ❖ Deitel & Deite's *C – How to Program* Fourth or Later Edition.
- ❖ Balagurusamy's *Programming in ANSI C* Latest Edition, Tata McGraw- Hill publishing Company Ltd, India
- ❖ Herbert Schildt's *Teach Yourself C*, Third or later Edition.

**Reference Materials:**

- ❖ The C Programming Language – Brian W. Kernighan and Dennis M. Ritchie, Prentice Hall Inc, Second Edition.
- ❖ Programming with C - Byron Gottfried, Schaum's Outline Series, McGraw-Hill International Editions, the latest edition.

**Exam Dates:**

- ❖ 1<sup>st</sup> Midterm Exam – 7<sup>th</sup> October 2012, Sunday
- ❖ 2<sup>nd</sup> Midterm Exam – 11<sup>th</sup> November 2012, Sunday
- ❖ Final Exam – 17<sup>th</sup> December 2012, Monday
- ❖ Viva - 17<sup>th</sup> December 2012, Monday
- ❖ Project - 17<sup>th</sup> December 2012, Monday

**Mark Distribution:**

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|---------------------------------|-----|
| ❖ Class Participation           | 5%  |
| ❖ Viva                          | 5%  |
| ❖ Project                       | 15% |
| ❖ Assignment                    | 5%  |
| ❖ 1 <sup>st</sup> Mid Term Exam | 15% |
| ❖ 2 <sup>nd</sup> Mid Term Exam | 15% |
| ❖ Final Exam                    | 20% |
| ❖ Labs                          | 20% |

**Grading Scheme:**

- ❖ As per East West University grading policy

**Special Instructions:**

- ❖ Students are expected to attend all classes, labs and examinations.
- ❖ Students will not be allowed to enter into the classroom after 10 minutes of the starting time. If you miss more than two consecutive classes you will lose **1%** from the class participation marks. You **MUST** have at least 80% class attendance to sit for the final exam. All mobile phones **MUST** be turned to silent.
- ❖ There is zero tolerance for cheating at EWU. Students caught with cheat sheets in their possession, whether used or not used, &/or copying from cheat sheets, writing on the palm of hand, back of calculators, chairs or nearby walls, etc. would be treated as cheating in the exam hall. The only penalty for cheating is expulsion from EWU. For plagiarism, the grade will be automatically become zero for that exam/assignment.
- ❖ There will be **NO** make-up examinations for Quiz & lab Exam in any case. Make up exam can only be considered for the midterms; in case of emergency you **MUST** either inform me or the department chairperson within 24 hours of the exam time. Failure to do so will mean that you are trying to take **UNFAIR** advantage and you will be automatically disqualified.