Instructor: Md. Ashiqur Rahman (AR)
Assistant Professor,
Department of Computer Science & Engineering,
Southeast University.

E-mail: ashiqur.rahman.cse@gmail.com

Room # 1203 (AR)

Schedule:

Day / Time	08:30 09:50	10:00 11:20	11:30 12:50	01:00 02:20	02:30 03:50	04:00 05:20	05:30 06:50	06:00 07:20	07:30 08:50
Sat						CSE2016.21 [R#(AR)Lab2]			
Sun				CH	CH	CH			
Mon							CSE2016.1 [R#(AR)Lab6]		
Tue									
Wed									
Thu			CH	CH	CH				
Fri									

*CH = Consulting/ Counseling Hour

Course Code and Title:

CSE2016
Programming Language II Lab (Object Oriented Programming Language – Java)

Credits : 1

Prerequisite Course(s) Code and Title:

CSE 111/ CSE 1011 Programming Language – I (C)
CSE 1012 Programming Language – I Lab (C)

Course Description:

Introduction to OOP, Introduction to Java, Object, Classes, Methods, Inheritance, Polymorphism, Encapsulation, Package, Interface, Exceptions, String Operations, Threads, I/O Operations, Collections, AWT, Swing, Events, Applets, JDBC, Socket Programming, RMI.

Course Objectives:

Introduce the Java programming language to develop software applications to solve real life problems.

Learning Outcomes:

Students will learn how to program in Java, be able to understand user requirements, develop applications with Graphical User Interface (GUI), test their programs and document their code properly.

Text Book: Java: The Complete Reference - Herbert Schildt

Reference Book: Java: How to Program - Deitel and Deitel

Course Outline:

	Topic	
Lecture 1	Net Beans/ Eclipse, Procedural Vs Object Oriented Programming, Java Development Kit (JDK), Java Documentation (Javadoc Tool)	
Lecture 2	Inheritance, Multi-level Inheritance, Instantiation Vs Inheritance	
Lecture 3	Polymorphism	
Lecture 4	Expressions, Control Flow Statements, Arrays, Strings	
Lecture 5	Encapsulation	
Lecture 6	Package, Interface	
Lecture 7	Exception Handling	
Lecture 8	String, I/O Operation	
Lecture 9	Thread	
Lecture 10	GUI, AWT, Swing, Event, Layout	
Lecture 11	Java FX	
Lecture 12	JDBC	
Lecture 13	Java Socket Programming, RMI	
Lecture 14		Term Final

Grade Policy and Assessment:

CSE 2016	
Attendance	10%
Lab Report	20%
Lab Performance	10%
Term Final	40%
Viva Voce	20%

Attendance:

You will not lose any marks for missing at most 1 class. For any subsequent misses you will lose 1 mark per class. Attendance for lab classes will be separately recorded. You can come and go anytime during the class for any reason whatever it may be, you do not need to ask for my permission - just do not bother the class in anyway. At least 80% (EIGHTY) attendance is required to be eligible to sit for the final examination. This rule will be very strictly followed.

Lab Performance:

For each lab class you will be individually graded (or be given the same marks as everyone else in your group if you need to share computer) based on your performance on the assigned task.

Term Final for Lab:

We will have a lab based term final exam where you would be asked to write code for a given problem. Your term final score will be based on that exam.

Viva-Voce:

There will be a separate Viva-Voce exam where I will ask several questions related to materials covered in lab classes throughout the semester.