INTRODUCTION AND REVIEW

Course: Object Oriented Programming (CS F213)

PROF. ANITA AGRAWAL

COURSE INFORMATION

Course ID: CS F213- Object Oriented Programming

Instructor In-charge- Prof. Anita Agrawal

- Office- A404
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Refer to General Handout appended to Time-Table

PREREQUISITES

Successful completion of "CS F111: Computer Programming"

LEARNING OUTCOMES

Upon successful completion of this course, students will have a thorough understanding of object oriented analysis and design process, and will be able to demonstrate object-oriented concepts in Java programming language.

BOOKS AND REFERENCE MATERIAL

Textbooks-

- T1: The Complete Reference Java J2SE, 5th Edition, Herbert Schildt, Tata McGraw Hill and Publishing 2005
- T2: Objects First with Java: A Practical Introduction Using BlueJ, David J. Barnes and Michael Kolling, Pearson Education, 5th Edition, 2012.

Reference Material

- State of the st
- R2: Core Java Volume I Fundamentals, Cay Horstmann, Pearson Education, 8th Edition 2008

COURSE PLAN AND MODULES

☐ Introduction and review☐ Module 1: An Overview of OOP	☐ Module 3: Introducing Classes ☐ Classes and Objects ☐ Constructors and Methods
☐ Class definition and Object ☐ Principles of OOP	☐ Garbage collection
☐Introduction to Java program syntax ☐Compiling and execution of Java program	☐ Module 4: UML, Sequence, and State diagrams
☐ Module 2: An Overview of Java ☐ Primitive data types ☐ Type conversion and casting ☐ Arrays, Operators, and Control statements ☐ Minor differences between C and Java	☐ Module 5: Deeper into Classes ☐ Method overloading ☐ Argument passing ☐ Access specifiers ☐ Static and final ☐ Nested and inner classes

☐ Module 6: String Class and Variable Length Arguments	☐ Module 9: Exception Handling
☐ Module 7: Inheritance ☐ Super and abstract classes ☐ Instance variable hiding ☐ Multilevel hierarchy	☐ Exception types ☐ Try and catch, Nested try statements ☐ Java's built-in exceptions ☐ Keywords: throw, throws, and finally
☐ Method overriding	☐ Module 10: Threads
☐ Module 8: Packages	☐ Creating new threads ☐ Thread synchronization
☐Importing and Creating packages☐Access protection☐Interfaces	☐ Module 11: File and I/O ☐ File handling in Java ☐ I/O Classes and Interfaces ☐ Stream classes
	☐ Module 12: Advanced Topics in OOP and Java

EVALUATION SCHEME

Component	Туре	Weightage Percentage (marks)out of 200	Duration	Date, day & Time
Mid-sem Exam	Closed Book	30% (60)	1.5 hours	16/03/2019, Saturday, 2 to 3:30 pm
Regular Labs	Open Book	30 % (60)	2 hours	Thursday, 10-11 hr.
Comprehensive Exam	Closed Book	40% (80)	3 hours	14/05/19, Tuesday (FN),

Best 8 out of 10 evaluated labs shall be considered for grading.

CHAMBER CONSULTATION HOUR

Monday 3rd hr.

MAKE-UP POLICY

- 1. Make-ups shall be allowed only in genuine cases, on a case-by-case basis and on proper justification. Prior permission from the IC is necessary.
- 2. No make-up for the lab sessions.
- 3. Missing of any one of the three components may be graded as NC, despite of satisfying minimum necessary criteria in other components.

MALPRACTISE

Any attempt of cheating or plagiarism in tests or labs will attract disciplinary committee action.

OTHER USEFUL DETAILS

- All notices concerning this course will be displayed on moodle course page.
- Important notices/announcements will be mailed to you directly in addition to posting on moodle.