

**CSE-306B          ADVANCED JAVA PROGRAMMING**

L      T      P      Credits  
 3      1      -      04

Sessional Marks: 25  
 Theory Marks:75  
 Duration of Exams: 3 Hours

**OBJECTIVES:**

1. To review the features of Java.
2. To develop an intuitive understanding the Java Programming environment.
3. To identify applications in which Java can be utilized.
4. To develop Java applications for
  - A. Client end
  - B. Users Interfaces
  - C. Data base
  - D. Server end

**OUTCOME:**

1. Able to know the core concepts of Java.
2. Able to know the application programming environment for Java.
3. Able to know the importance of Java for the software development.
4. Able to develop applications for the different fields of the day to day activities of society.

**Books :**

1. Philip Hanna, JSP: The Complete Reference, McGraw-Hill.
2. Herbert Schildt, Java: The Complete Reference, McGraw-Hill.

**LECTUREWISE PROGRAMME:** (from 08.01.18 to 27.04.18)

Introduction of the subject (08.01.18)	1
<b>UNIT- I</b>	
<b>Introduction and Design of User Interfaces (09.01.18 to 21.02.18)</b>	
Features of Java	1
Concept of Classes and Objects	1
Constructors, Inheritance	1
Function Overloading, Polymorphism	1
Packages and Interfaces	1
Exception Handling	1
File Streams and their manipulations	4
AWT and Applet Programming	1
Swings Introduction	1
Japplets, Icons , Labels	1
Text fields, Buttons, JButton Class, Check, Radio Box	1
Compo box, Tabbed Panes, Custom Rendering of Jlist Cells	1
<b>UNIT-II</b>	
<b>JDBC and Java Beans (22.02.18 to 07.03.18)</b>	
JDBC Fundamentals	1
Establishing Connectivity and working with connection Interfaces	2
Working With Result Set Objects and Result Set Mata Data	2
Java Beans and its installation	2
<b>UNIT- III</b>	
<b>Servlets (12.03.18 to 28.03.18)</b>	
Introduction and life cycle of Servlets	2
Creating, compiling and running of Servlets	1
Servlets Request and Response, cookies and session tracking	3
<b>UNIT – IV</b>	
<b>JSP (02.04.18 to 27.04.18)</b>	
JSP Architecture	2
JSP Access Mode	1
JSP Syntax Basic	5
JSP Implicit Objects	2

**Home Assignments:** 4 –5 assignments are given during the semester.

**Evaluation Procedure**

1.	Surprise Quiz/ Tutorial Test	5 Marks
2.	Assignment / Project / Performance in the Class	5 Marks
3.	Minor Tests (Two tests having equal weightage) Minor Test I : 14-16 Feb, 2018 Minor Test II : 4 -6 April, 2018	15 Marks
4.	Major test (University Examination)	75 Marks

**Award of Grades Based on Absolute Marks:** The University is following the system of grading based on absolute marks (after applying moderation if any). Following grading will be done based on the % of marks obtained in all the components of evaluation part of the subject. A+ (90% - 100 %), A (80% - 89%), B+ (70% - 79%) , B(62% - 69%), C+ (55% - 61%),C (46% - 54%), D (40% - 45), F (Less than 40 %)

For F grade, a candidate shall be required to appear in the major test of concerned course only in the subsequent examination(s) to obtain the requisite marks/grade.

**Attendance Record** – Candidate should attend at least 75% attendance of the total classes held of the subject

**Chamber consultation hour:** Any vacant period.

**Note:**

1. In the semester examination, the examiner will set 08 questions in all selecting two from each unit (1 & 2 from unit I, 3 & 4 from unit II, 5 & 6 from unit III and 7 & 8 from unit IV). The students will be required to attempt only 5 questions selecting at least one question from each unit. All questions will carry equal marks.
2. The use of scientific calculator will be allowed in the examination. However, programmable calculator and cellular phone will not be allowed.
3. The use of properties (water, air, steam etc) tables, heat transfer tables, charts is permitted

(Jitender Kumar)