

CS-601: ADVANCED JAVA

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Marks			Duration of End Semester Examination 3Hrs
L	T	P/D		Sessional	End Semester Exams	Total	
3	1	0	4	40	60	100	

COURSE OBJECTIVE:

The course should enable the students to understand the advanced java concepts, java applets, java beans, and swing programming. To learn various animation techniques and advanced networking concepts.

COURSE CONTENT:

UNIT	CONTENT	No. of Hrs.
I	Introduction to java Programming: History of java, characteristics of java, the java environment – JVM, JDK & JRE, different versions of java, OOP principles, comparison of java with C and C++. Language Fundamentals.	10
II	GUI Components (AWT & SWING) : GUI concepts in java, basic GUI components in AWT, container classes, layout managers, flow layout, border layout, card layout, box Layout. SWING: Difference between AWT and SWING, java foundation classes-javax, swing and model view controller, creating a Frame in Swing, displaying image in swing, J component class methods, creating components in swing, writing GUI programs in java (with AWT or SWING), event handling, handling keyboard events and mouse events.	10
III	SERVLETS: The life cycle of a servlet, a simple servlet, the servlet API, servlet package, reading servlet parameters, handling HTTP requests and responses, java server pages-introduction to java server pages, a simple JSP example, scripting.	10
IV	JDBC: JDBC architecture. JDBC-ODBC relationship, types of JDBC drivers, JDBC components, JDBC interfaces and classes, steps for querying the database with JDBC, creating an ODBC data source, querying and updating database tables, passing parameters to a statement.	9

Text Book:

- Schildt Herbert, “*Java: The Complete Reference*”, Tata McGraw-Hill.
- E Balagurusamy, “*Programming with java A Primer Fourth Edition*”.

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Reference Books:

- Deitel & Deitel, “*Java How to Program*”, Pearson Education Asia.
- Rao Nageswara, “*Core Java: An Integrated Approach*”, Dreamtech Press.