

Advanced Java
Advanced Java
[CORE COURSE]

Semester: VI	Credits: 3	Subject Code: BC62203	Lectures: 48
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Course Outcomes:

At the end of this course the learner will be able to,

- Relate and gain knowledge of JDBC architecture.
- Analyze servlet and JSP to solve the complete problems.
- Illustrate concepts of Multithreading and Socket programming.
- Develop applications in Spring and hibernate.

Unit 1: JDBC

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- Introduction
- JDBC Architecture.
- JDBC Process
- Working with ResultSet Interface.

Unit 2: Multithreading and Networking

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- Introduction to Multithreading.
- Thread creation: Thread Class, Runnable Interface.
- Life cycle of Thread.
- Thread Priority.
- Execution of Thread Application.
- Synchronization and Interthread communication.
- Overview of Networking.
- Networking Basics: Port Number, Protocols and classes.
- Sockets, Reading from and Writing to a Socket

Unit 3: Servlet and JSP

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- Introduction to Servlet
- Types of Servlet: Generic Servlet and Http Servlet
- Life cycle of servlet
- Session Tracking.
- Servlet with database.
- JSP
- Introduction to JSP.
- JSP Life Cycle.
- Components of JSP.
- JSP with Database



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Unit 4: Spring & Hibernate

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- Spring:
- Introduction
- Applications and Benefits of spring
- Architecture and Environment Setup
- Hello World Example
- Lifecycle
- Hibernate
- Architecture and Environment

#12 hours for Library work, assignments, practical or field work

Recommended Text Books:

- Ebalgurusamy ,*Programming with JAVA* .
- Eric Pugh, Joseph D. Gradecki by Wiley Publishing, Inc., *Professional Hibernate*, ISBN: 0- 7645-7677-1
- JAVA Herbert Schildt ,*The Complete Reference*.

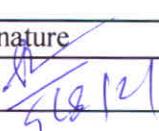
Reference Books:

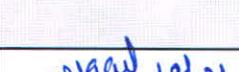
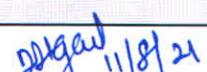
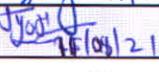
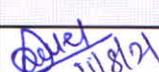
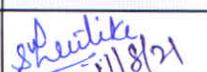
- Craig Walls, Ryan Breidenbach, *Spring In Action*, Manning Publishing Co., ISBN: 1-932394- 35-4
- Eric Pugh, Joseph D. Gradecki by Wiley Publishing, Inc., *Professional Hibernate* ISBN: 0- 7645-7677-1
- JAVA Herbert Schildt ,*The Complete Reference*.
- Passing the Sun Certified Web Component Developer, *Head First Servlets and JSP*, Exam -2nd Edition-Bryan Basham, Kathy Sierra, Bert Bates- O'REILLY.

Websites:

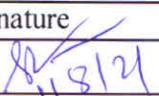
- www.w3cschool.com



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Head of the Department	Ms Smita Borkar	 11/8/21
Faculty*	Asst Prof. Deepali Gupta	 11/8/21
Faculty*	Asst Prof Jyoti Amate	 11/8/21
Subject Expert (Outside SPPU)	Prof Sachin Bohite	 11/8/21
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar	 11/8/21
VC Nominee	Prof Anjum Patel	 11/8/21
Industry Expert	Ms Shrutika Wayal	 11/8/21
One Alumni***	Ms. Vidhi Thakkar	



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