

**Advanced Java
Advanced Java
[CORE COURSE]**

Semester: VI	Credits: 3	Subject Code: BC62203	Lectures: 48
---------------------	-------------------	------------------------------	---------------------

Course Outcomes:

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

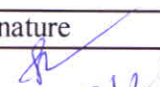
- Relate and gain knowledge of JDBC architecture.
- Analyze servlet and JSP to solve the complete problems.
- Illustrate concepts of Multithreading and Socket programming.
- Develop applications in Spring and hibernate.

Unit 1: JDBC	8
<ul style="list-style-type: none"> • Introduction • JDBC Architecture. • JDBC Process • Working with ResultSet Interface. 	

Unit 2: Multithreading and Networking	17
<ul style="list-style-type: none"> • 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	12
<ul style="list-style-type: none"> • 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 	



Board Of Studies	Name	Signature
Head of the Department	Ms Smita Borkar	

Unit 4: Spring & Hibernate	11
<ul style="list-style-type: none"> • Spring: • Introduction • Applications and Benefits of spring • Architecture and Environment Setup • Hello World Example • Lifecycle • Hibernate • Architecture and Environment 	

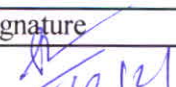
#12 hours for Library work, assignments, practical or field work

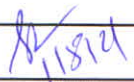
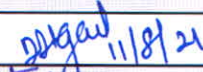


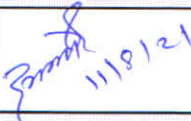
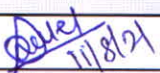

Recommended Text Books:
<ul style="list-style-type: none"> • Ebalgurusamy ,<i>Programming with JAVA</i> . • Eric Pugh, Joseph D. Gradecki by Wiley Publishing, Inc., <i>Professional Hibernate</i>, ISBN: 0- 7645-7677-1 • JAVA Herbert Schildt ,<i>The Complete Reference</i>.

Reference Books:
<ul style="list-style-type: none"> • Craig Walls, Ryan Breidenbach, <i>Spring In Action</i>, Manning Publishing Co., ISBN: 1-932394-35-4 • Eric Pugh, Joseph D. Gradecki by Wiley Publishing, Inc., <i>Professional Hibernate</i> ISBN: 0- 7645-7677-1 • JAVA Herbert Schildt ,<i>The Complete Reference</i>. • Passing the Sun Certified Web Component Developer, <i>Head First Servlets and JSP</i>, Exam -2nd Edition-Bryan Basham, Kathy Sierra, Bert Bates- O'REILLY.

Websites:
<ul style="list-style-type: none"> • www.w3school.com



Board Of Studies	Name	Signature
Head of the Department	Ms Smita Borkar	

Board Of Studies	Name	Signature
Head of the Department	Ms Smita Borkar	
Faculty*	Asst Prof. Deepali Gupta	
Faculty*	Asst Prof Jyoti Amate	
Subject Expert (Outside SPPU)	Prof Sachin Bohite	
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar	
VC Nominee	Prof Anjum Patel	
Industry Expert	Ms Shrutika Wayal	
One Alumni***	Ms. VidhiThakkar	



Board Of Studies	Name	Signature
Head of the Department	Ms Smita Borkar	