



C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Bachelor of Computer Application
(BCA)

Semester : IV

W.e.f. June-2014

Teaching & Evaluation Scheme

Sr. no	Subject Code	Subject Name	Teaching Hours/Week				Credit	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni.	
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
1	4CS04BJV2	Programming with Java-2	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives:

At the end of the syllabus student can develop security based dynamic web site using JSP,Servlet.

Pre-requisites:

Student should have the knowledge of Core java Programming.

Ch. No.	Chapter Name	Chapter Topics	Total Lectures
1	Swing	Layout managers(FlowLayout, BorderLayout, CardLayout,GridBagLayout, GridLayout with constraints, spring,box,group,no layout)	06
		What is swing, Swing Vs AWT, Container class, Swing Components (Japplet, JLabel, JButton,JCheckBox, JCheckboxgroup, JChoice, JtextField,JTextArea, JList, JScrollbar, JPanel, JFrame, JMenu, JMenuBar, JMenuItem, JPasswordField,JRadioButton)	
2.	The J2EE Platform	Introduction to J2EE Enterprise Architecture Styles: Two-TierArchitecture,Three-TierArchitecture N-Tier Architecture	04
		Introduction to J2EE Apls (Servlet, JSp, EJB, JMS, JavaMail, JSF, JNDI) Tomcat as a Web Container	
3.	RMI	RMI overview, RMI'architecture	03
		Stub and Skeleton	
		Developing and Executing RMI app	
4.	JDBC	Introduction of JDBC,Data types in JDBC	10
		Database Exception Handling Types of JDBC Drivers	
		JDBC API for Database connectivity (java.sql package) Statement, PreparedStatement, CallableStatement,ResultSetMeta Data, DatabaseMetaData,	
		Other JDBC APIs,Connecting with Databases (MySQL, Access,Oracle)	

5.	Servlet	Servlet Introduction servlet API (Javax,servlet and avax.servlet.http) Servlet Life Cycle	09
		Developing and Deploying Servlets Handling Servlet Requests and Responses Reading Initialization parameters	
		session Tracking Approaches (uRL Rewriting, Hidden Form Fields,Cookies, Session Apl)	
		Servlet Collaboration Servlet with JDBC	
6.	JSP	Introduction to JSP and JSP Basics, JSP vs. Servlet, Life cycle of JSP	11
		JSP Elements: Directive Elements, scripting Elements, Action Elements - - Directive Elements (page, include, taglib)	
		Scripting Elements(Declaration, scriptlet,expression)	
		Action Elements (Jsp:param, Jsp:include,Jsp:Forward, .Jsp:plugin) - JSP Implicit Objects	
		JSP Scope Including and Forwarding from Jsp pages -include Action -forward Action	
		Working with Session & Cookie in Jsp Error Handling and Exception Handling with JSP JDBC with Jsp	
		Total::	55

Teaching Methodology:

Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test, Programming Test

Learning Outcome:

After learning of this course students should be able to do programming in advanced topics of java.

Books Recommended:

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|----|---|--------------------------------|-------------------|
| 1. | Java 2 (Jdk 5 Ed.) Programming Black Book 6 Ed. | Dreamtech Press Steven Holzner | ISBN : 817722655X |
| 2. | Java 2:The Complete Reference | Tata McGraw-Hill Schildt | ISBN : 0070495432 |

Reference Books:

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|----|----------------------------|------------------|--------------------|----------------------|
| 1. | Advance java Technology | Dreamtech | Prof. M.T.Savaliya | ISBN : 9789350042076 |
| 2. | The CompleteReference J2EE | Tata McGraw-Hill | James Keogh | ISBN : 007222472X |
| 3. | Java Servlet Programming | “O'Reilly Media” | Janson Hunter | ISBN : 1449390676 |
| 4. | Professional JSP J2EE 1.3 | Dreamtech Press | CedricBuest | ISBN : 8181287576 |
| 5. | Beginning Java EE 7 | Apress | Antonio Goncalves | ISBN : 143024626X |