

PROGRAMME: B. Sc (Information technology)		Semester – V	
COURSE: ADVANCED JAVA		COURSE CODE : USIT504	
Periods per week 1 Period is 50 minutes	Lecture	5	
	Practical	3	
		Hours	Marks
Evaluation System	Theory Examination	2	60
	Theory Internal	--	40
	Practical		50

Unit-I	<p>Event Handling: The delegation event model, Events, Event classes, Event Listener Interfaces, Using the Delegation event model, Adapter classes, inner classes</p> <p>AWT : Windows fundamentals, Working with frame windows, Control fundamentals, - Labels, Buttons, CheckBox, Radio button TextField, Understanding Layout Manager</p>	10 Lectures
Unit-II	<p>Swing: JColorChooser, JComboBox, JFileChooser, JInternalFrame, JLabel, JMenuBar, JOptionPane, JLayeredPane, JDesktopPane, JPanel, JPopupMenu, JProgressBar, JRootPane, JScrollBar, JScrollPane, JSeparator, JSlider, JSplitPane, JTabbedPane, JTable, JTableHeader, JToolBar, JToolTip, JTree, JViewport, JEditorPane, JTextPane, JTextArea, JTextField, JPasswordField, JButton, JMenuItem, JCheckBox-MenuItem, JRadioButton-MenuItem JCheckBox, JRadioButton, JMenu.</p>	10 Lectures
Unit-III	<p>Introduction to servlets: Need for dynamic content, java servlet technology, why servlets?</p> <p>Servlet API and Lifecycle: servlet API, servletConfig interface, ServletRequest and ServletResponse Interfaces, GenericServlet Class. ServletInputStream And ServletOutputStream Classes, RequestDispatcher Interface,HttpServlet Class, HttpServletRequest and HttpServletResponse Interfaces, HttpSession Interface, Servlet Lifecycle.</p> <p>Working with servlets: organization of a web application, creating a web application(using netbeans) , creating a servlet, compiling and building the web application</p>	10 Lectures
Unit-IV	<p>JDBC: Design of JDBC, JDBC configuration, Executing SQL statement, Query Execution, Scrollable and updatable result sets, row sets, metadata, Transaction.</p> <p>JSP: Introduction, disadvantages, JSP v/s Servlets, Lifecycle of JSP, Comments, JSP documents, JSP elements, Action elements, implicit objects, scope, characterquoting conventions, unified expression language.</p>	10 Lectures
Unit-V	<p>Java server Faces :</p> <p>Need of MVC , what is JSF?, components of JSF, JSF as an application, JSF lifecycle, JSF configuration, JSF web applications (login form, JSF pages)</p> <p>EJB: Enterprise bean architecture, Benefits of enterprise bean, types of beans, Accessing beans , packaging beans, creating web applications, creating enterprise bean, creating web client, creating JSP file, building and running web application.</p>	10 Lectures
Unit-VI	<p>HIBERNATE: Introduction, Writing the application, application development approach, creating database and tables in MySQL, creating a web application, Adding the required library files, creating a java bean class, creating hibernate configuration and mapping file, adding a mapping resource, creating JSPs.</p> <p>STRUTS: Introduction, Struts framework core components, installing and setting up struts, getting started with struts.</p>	10 Lectures