



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Vocation (B.Voc)

Semester: III

Branch: Software Development

Subject Name: Advance Java Lab

Subject Code: 21130206

Type of course: Core

Prerequisite: Java programming language

Rationale: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical		
			ESE (E)	PA(M)	ESE (V)	PA (I)		
-	-	2	2	-	-	30	20	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Contents:

Sr. No.	Practical / Hands on Exercise	Hrs.
1	Implement TCP Server for transferring files using Socket and ServerSocket	02
2	Implement cookies to store firstname and lastname using Java server pages.	02
3	Implement the shopping cart for users for the online shopping. Apply the concept of session.	04
4	Implement student registration form with enrollment number, first name, last name, semester, contact number. Store the details in database. Also implement search, delete and modify facility for student records.	04
5	Write a Servlet program to print system date and time.	04
6	Design a web page that takes the Username from user and if it is a valid username prints "Welcome Username". Use JSF to implement.	04
7	Write Hibernate application to store customer records and retrieve the customer record including name, contact number, address.	04
8	Write an application to keep record and retrieve record of student. The record includes student id, enrollment number, semester, SPI. Use MVC architecture.	04
Total		28

Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	Implement Networking and Data base connectivity in Java for given application.	30
CO-2	Implement webpage with dynamic content and server side web application using Servlet and JSP.	40
CO-3	Use web application framework JSF to build user interfaces.	10
CO-4	Use Object Relation Mapping using Hibernate to build database dependent applications.	10

List of Open Source Software/learning website:

1. <https://www.tutorialspoint.com/>
2. <https://www.geeksforgeeks.org/introduction-java-servlets/>