

Course code	Course Name	L-T-P-Credits	Year of Introduction
IT431	Web Application Development Lab	0-0-3-1	2016
Prerequisite: IT409 Web application development			
Course Objectives <ul style="list-style-type: none"> • To develop the skill in Creating dynamic web pages with servlets • To provide knowledge in connecting java programs with database using JDBC. • To develop the skill in server side programming using JSP. • To provide knowledge about MVC Design. • Testing the application on an Application Server. • Debugging Web applications locally and remotely. • Developing applications in a team environment. 			
List of Exercises / Experiments (Minimum 8 are mandatory) <ol style="list-style-type: none"> 1. Authentication using Java Servlet 2. Authentication using JSP 3. Authentication using MVC Architecture 4. Design and development of Online Book Shop 5. Design and development of Online Examination 6. Design and development of online ticket reservation system 7. Design and development of online library 8. Design and development of online banking 9. Design and development of online job portal 10. Design and development of Online Auction 			
Class Project (Individual) (Mandatory) Students are encouraged to propose innovative ideas in the field of E-commerce as projects.			
Expected Outcome By the end of the course, the student will be able to: <ol style="list-style-type: none"> i. Write programs in java to access database. ii. Write programmes in servlet to create dynamic web pages which access databases and track user sessions iii. Develop server side programmes in JSP. iv. Design and develop web applications using MVC architecture. v. Test and debug a web application. vi. Develop web application in a team environment. 			
References <ol style="list-style-type: none"> 1. Jason Hunter, William Crawford , Java Servlet Programming, Second Edition, ,O'Reilly Media 2. Hans Bergsten, Java Server Pages, O'Reilly 3. http://www.oracle.com/technetwork/java/index-jsp-135475.html 4. http://www.oracle.com/technetwork/java/javaee/jsp/index.html 			