Government Engineering College,Sector-28, Gandhinagar

Certificate

This is to certify that Mr./Ms. **SOLANKI RUSHIK KUMAR PRATAPBHAI** Enrollment No. **210130107064** of B.E. Semester **6** Computer Engineering of this Institute (GTU Code: 013) has satisfactorily completed the Practical / Tutorial work for the subject **Advance Java Programming (3160707)** for the academic year2023-24.

Date: _____

Name and Sign of Faculty member

Head of the Department

Institute Vision/Mission

Vision:

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.

Mission:

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.

Computer Engineering Department Vision/Mission

Vision:

- To achieve excellence for providing value based education in Computer Engineering through innovation, team work and ethical practices.

Mission:

- To produce computer science and engineering graduates according to the needs of industry, government, society and scientific community.
- To develop partnership with industries, government agencies and R and D Organizations.
- To motivate students/graduates to be entrepreneurs.
- To motivate students to participate in reputed conferences, workshops, symposiums, seminars and related technical activities.

Program Educational Objectives (PEO)

- To provide students with a strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and to prepare them for graduate studies, R and D, consultancy and higher learning.
- To develop an ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient product designs.
- To provide exposure to emerging cutting edge technologies, adequate training and opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.
- To prepare the students for a successful career and work with values and social concern bridging the digital divide and meeting the requirements of Indian and multinational companies.
- To promote student awareness on the life-long learning and to introduce them to professional ethics and codes of professional practice.

Program Specific outcomes (PSO)

- Design ,develop, test and evaluate computer based systems by applying standard software engineering practices and strategies in the area of algorithms, web design, data structure, and computer network.
- Apply knowledge of ethical principles required to work in a team as well as to lead a team.

Index

(Progressive AssessmentSheet)

Sr. No.	Objective(s) of Experiment	Page No.	Date	Assessment Marks	Signature
1.	In java console application, provide the user with following options: add movie, view movie, modifymovie details, delete movie details. On entering a particular option on the console by user, perform appropriate operation and display the success/failure or any output on your console.				
2.	Make the practical 1 application as server for sending/receiving strings. Create a client application that will send a search movie string to the server application and server will replay with the matching movie name "string" back to the client application after fetching from the database.				
3.	Modify practical 1 by replacing the console based user interface to a web based user interface. Use a servlet.				
4.	Modify the practical 4 to use JSP instead of Servlet.				
5.	Use JSF framework to replace JSP and calculate the reduction in programming.				
6.	Make custom tag for a component that will be able to add/view/delete/modify Records				
7.	Use Object Relational Mapping and based on that prepare one configuration filealong with the hibernet mapping file for 1 table of the application and test its working by replacing SQL to HQL.				
8.	Use Hibernet framework to replace JDBC calls and calculate the reduction in programming efforts for the entire application				
9.	Use Spring or any other MVC architecture and implement the Interface in that architecture that supports multi-tier architecture.				
10.	Compare and analyze the JSF with the Spring/any other framework.				