| http://10.10.10.2:8080/GIS/image/logo.gif | **G H Patel of College of Engineering and Technology**  **Department of Computer Engineering** |
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| **Vision**   * To produce globally competitive computer engineers, who are prepared to accept the challenges at professional level, while maintaining the core values. | |
| **Mission**   * To create an excellent teaching learning environment. * To mold engineers with a strong foundation of scientific knowledge and engineering concepts. * To enhance the acquired concepts and develop new technology through excellence in research. * To assist nation building and elevating the quality of life of the people through leadership in professionalism, education, research and public services. | |
| **Programme Educational Objectives (PEO)**   * To educate young aspirants with the fundamentals of engineering and knowledge of latest technologies. * To encourage the students to remain updated by pursuing higher degree or certification programs. * To assume management and leadership roles to contribute in socio-economic development of the nation. | |

|  | **G H Patel of College of Engineering & Technology**  **Computer Engineering** |
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| **Academic year: 2023\_24**  **Semester : 5**  **Subject Name: Advanced Java Programming**  **Subject Code: 102045605** | |

| **Sr.No.** | **Name of Experiment** |
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| 1 | Write a JDBC desktop program to perform the following CRUD and Search operation. Create an appropriate table in the database to store objects of Student class. 1. Add Student. (Create)  2. View Students. (Display all students)  3. Edit Student. (Update)  4. Delete Student. (Delete)  5. Search Student (Find student based on enrolment No) |
| 2 | Write a servlet which gets data from html form and displays all data into the servlet. |
| 3 | Convert following servlets in MVC architecture. Write different servlets which get data from html form and perform following database operations.  1. Add Student. (Create)  2. Edit Student. (Update)  3. Delete Student. (Delete)  4. Search Student (Find student based on enrolment No)  5. View All Students |
| 4 | Create and maintain HttpSession in all servlets written in previous labs. |
| 5 | Write a simple web application in which display email address from servlet init parameter and context init parameter. Write a Servlet which displays no of hits of 1. Particular servlet  2. Your web application. |
| 6 | Write a small web application with at least 2 servlets which share the common object of Student class. Student class has instance variable roll no, assign the five rollnos and display all in both servlets. |
| 7 | Develop User registration module using JSP  1. Create a User  2. Update a User  3. Delete a User  4. Retrieve a User  5. List of all Users |
| 8 | Reuse Student class as bean. Write a JSP page to set and display all properties. |
| 9 | Rewrite all .jsp pages of previous labs using EL and JSTL. |
| 10 | Write a Hibernate application to store student records and retrieve the student record including name, enrollment no, sem, div, dept, sgpa, cgpa, etc. |
| 11 | Write an application to keep, update and retrieve records of students. The record includes student name, enrollment no, semester, dept, percentage, etc. Use SPRING MVC architecture |
| 12 | Mini Project to create web applications by using Advance Java Programming course. |