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**Faculty of Technology and Engineering**

**Chandubhai S. Patel Institute of Technology (CSPIT)**

**Department of Computer Science & Engineering**

Date: 04/03/2025

**Laboratory Manual**

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| Academic Year | : | 2024-25 | Semester | : | 4 |
| Course code | : | CSE206 | Course name | : | DATABASE MANAGEMENT SYSTEM |

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| **Practical - 12** |
| **Aim: Your task is to design and implement database functionalities for managing product information in an e-commerce system. The system should allow users to create, retrieve, update, and delete product data, compute discounts on products using a function, and maintain an audit trail for product updates using a trigger.** |
| 1. **Create a stored procedure to insert a new product into the Product table.** |
| 1. **Create a stored procedure to retrieve product details by product\_id.** |
| 1. **Create a stored procedure to update the stock of a product.** |
| 1. **Create a stored procedure to delete a product by product\_id.** |
| 1. **Create a function to calculate the discounted price of a product.** |
| 1. **Implement a trigger to maintain an audit trail of updates made to the Product table. Before any update, the trigger should insert a record into an AuditTrail table, storing the old product details along with the update timestamp.** |