Event Title: Expert Lecture on DBMS.

Event Scheduled: 3rd-10th August 2024 (12:00 PM- 4:30 PM)

Timing: 12:00 pm onwards.

Event Venue: TE Classroom, SIEM, Sandip Foundation, Nashik

Resource Person: Prof. Piyush Kulkarni, Guru Gobind Singh College of Engg. College, Nashik

Participants: Student of TE, E&TC department

Name of Faculty coordinator: Prof. Y. R. Risodkar, E&TC department.

Objectives:

The lecture aims to provide a comprehensive understanding of DBMS, equipping attendees with both theoretical knowledge and practical insights to manage and optimize databases effectively. The expert lecture session on Database Management Systems (DBMS) aim to:

Introduction to DBMS Concepts:

- Understanding the basics of databases, data models, and DBMS.
- Differentiating between DBMS, RDBMS, and NoSQL databases.

Database Design Principles:

- Discussing the importance of proper database design.
- Covering topics such as normalization, ER diagrams, and schema design.

SQL and Query Optimization:

- Teaching how to write efficient SQL queries.
- Exploring query optimization techniques and performance tuning.

Data Integrity and Security:

- Addressing issues related to data integrity, constraints, and ACID properties.
- Exploring database security measures, including access control and encryption.

Transactions and Concurrency Control:

- Understanding transaction management and isolation levels.
- Discussing concurrency control mechanisms like locking and deadlock resolution.

Backup and Recovery:

- Exploring strategies for database backup, disaster recovery, and data restoration.
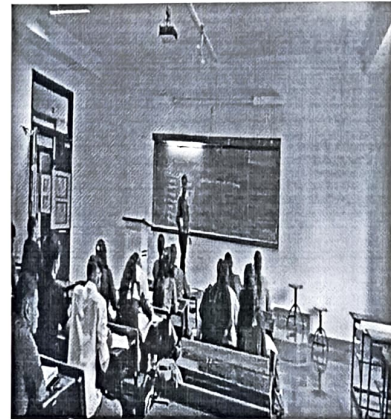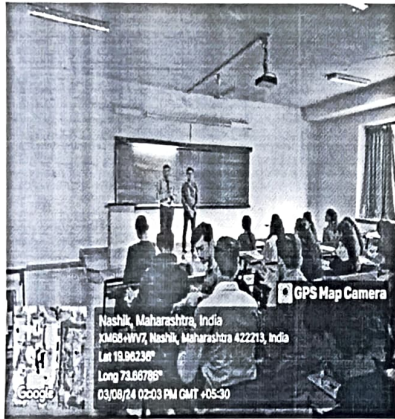
Emerging Trends in DBMS:

- Discussing new developments like distributed databases, cloud-based DBMS, and Big Data technologies.

Practical Applications:

- Demonstrating real-world applications of DBMS.

- Case studies and hands-on exercises to solidify understanding.

Photo

Photos of the Event

Event Coordinator   SIEM   H.O.D, E&TC