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CIE 2 Syllabus

**5th Sem**

# Operating Systems:

**Unit-**2

**Process Scheduling**-Basic Concepts, Scheduling criteria, Scheduling algorithms, Multiple-Processor scheduling, **Process Synchronization**- Background, The critical section problem, Synchronization hardware, semaphores, Classical problems of Synchronization.

**Unit**-3

**Complete**

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# DBS:

**Unit**-3

Introduction to SQL: Overview of the SQL Query Language, SQL Data Definition, Basic structure of SQL Queries, Additional Basic Operations, Null values, Aggregate Functions, nested Subqueries, Modification of the Database, Join Expressions, Views

**Unit**-4

Database Design: Informal Design Guidelines for Relation Schemas, Functional Dependencies, Normal Forms based on Primary Keys, General Definitions of 2nd and 3rd Normal Forms, Boyce Codd Normal Forms

Textbook Elmsri Navathe 5th edition:

Unit 3: chapter 8, Unit 4 chapter 10

**AI:**

**Unit** 2: Complete

**Unit** 3:

**Planning**: Definition, Planning with State-Space Search, Planning Graphs,

Other Planning Approaches Analysis. **Uncertainty**: Acting under Uncertainty,

Basic Probability Notations, Inference using Full Joint Distributions,

Independence, Bayes’ Rule and its Use.

**EIPR:**

**Unit** 3 **and Unit** 4**:** Complete

| **ACN**:  **Unit-**2: TCP chapter 11  **Unit**-4: Complete  **Unit**-5: QoS | **RPA**:  **Unit-**3: Complete  **Unit**-4: Complete |
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