**Objectives**

**Unit I**

* To understand foundations of Distributed Systems.

**Unit II**

* To understand in detail network virtualization and remote invocations required for distributed system.

**Unit III**

* To introduce the idea of peer to peer services and file system.

**Unit IV**

###### To understand clock synchronization techniques, transactions and concurrency control mechanisms.

###### Unit V

###### To understand the issues involved in studying process and resource management.

**Outcomes**

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| Unit 1: Challenges and Approaches in Distributed Systems. |
| Unit 2: Apply network virtualization.  Apply remote method invocation and objects. |
| Unit 3: Design of distributed file systems.  Understand the naming convention in distributed systems. |
| Unit 4: Know more about the synchronization of distributed systems.  Apply locks and concurrency control in distributed systems. |
| Unit 5: Knowledge about process migration and resource management systems. |