# CSBS:19CB401 LessonPlan1 22-23

- **Prerequisite(s):** Operating System
- **Topic :** Concept of Operating Systems (OS), Generations of OS, Types of OS.
- **General Objective (GO):**):

  - Students will be able to understand the generation of operating systems and types of operating system.

- **Specific Objectives (SO):**

  - SO1: Illustrate the generation of the computer based on its Operations, Storage and I/O systems. (U/C)
  - SO2: Classify the operating systems under Batch processing, Multiprogramming, Real-time systems and Distributed systems. (U/P)
  - SO3: Classify the four types of computer systems based on the number of processors. (U/C)

Department	Computer Science and Business Systems'*Bold text'*
Degree & Semester:	B.TECH & IV
Course code & Title:	19CB401 & Operating Systems
Unit Title:	OPERATING SYSTEMS INTRODUCTION
CO / Lesson No (GO):	1/1

- **Mapping Table**

SO	PO	PO/PSO Competency	PO/PSO Indicator
SO1	1,2	1.3	1.3 1
SO2	1,2,3	1.2,1.3	1.2.1,1.3.1
SO3	1,2,3	1.2,1.3	1.2.1,1.3.1

- **Mind map and Summary**
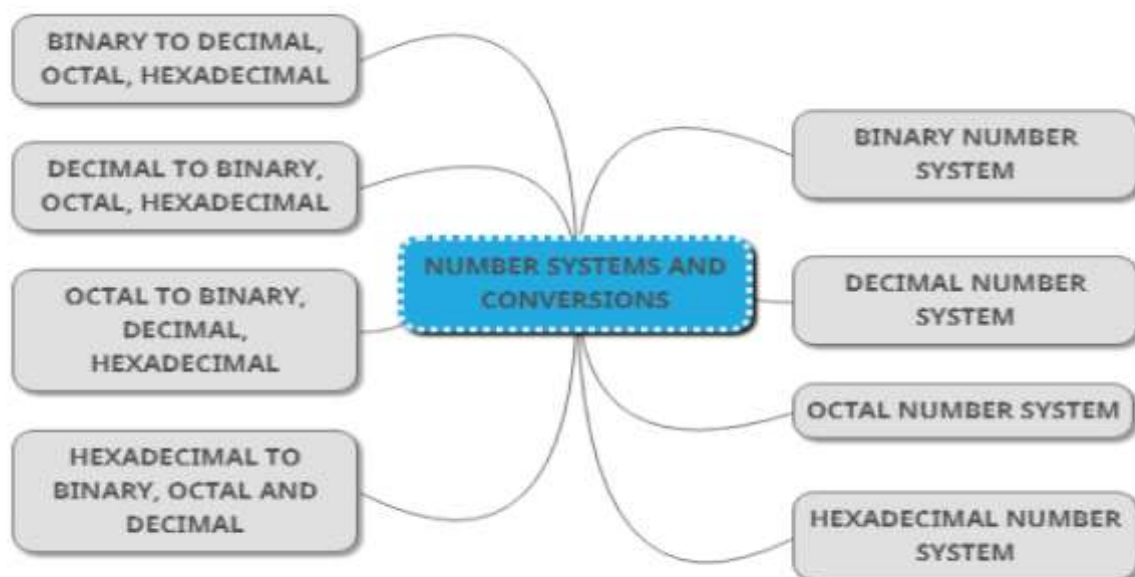
- **Summary**

Operating system have been developed for 2 main purposes

- To schedule computational activities, in such a way that to get good performance
- To provide convenient environment for the execution of program

Functions of an OS

- Convenience
- Efficiency
- Ability to evolve
- Resource allocator
- Control programs

Components

- Process management
- Main-memory management
- File management
- Secondary-Storage management

Types:

- Batch systems - CPU utilization low
- Multiprogramming - Increased CPU utilization, Decreased Total time
- Time sharing systems - It allows many users to use a computer system interactively at the same time
- Desktop systems - Micro computers, Smaller
- **References (Books/Videos/Journals/Web references)**

  - Operating System Concepts Essentials. Abraham Silberschatz, Peter Baer Galvin and Greg Gagne.
  - https://www.youtube.com/watch?v=vBURTt97EkA&list=PLBlnK6fEyqRiVhbXDGLXDk_OQAeuVcp2O
  - Operating Systems: Internals and Design Principles. William Stallings.
  - Foundations of Databases. Serge Abiteboul, Richard Hull, VictorVianu.

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