Information Technology

Vision: To Visualize the creation of skilled, proficient IT professionals to meet current challenges.

Mission:
● To encourage young minds for training & entrepreneurship.
● To convey standard education with rapidly changing environment with ethical values. ● To provide an environment where students can continuously learn, apply & communicate knowledge.

Name Of Program :- Diploma in Information Technology   **Date :-**
Course Title :- Operating System (22516)   Sem-V (2024 -25)
Course Outcome :- OSY

Chapter Name :- Overview Of Operating System.

Assignment No:-1

Q.1 What is operating system.List ant six functions of O.S.

Q.2 What are the components of Operating System/Computer.Explain with the help of Diagram.

Q.3 List and Explain different types of operating system.Explain Multiprogramming with diagram.

Q.4 Explain Batch Oprating System with help of Schematic Representation.

Q.5 Differentiate between Multiprogramming and Multitasking Operation System and explain advantages of Time Sahring O.S.

Q.6 Explain the multiprocessor systems concept.

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Course Coordinator :- Mrs. Nutan Purkar (TYIF)

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Chapter Name :- Services and components of Operating System.

Assignment No:-2

Q.1 Write short note on Protection and security.

Q.2 List any 4 system calls for device management.

Q.3 Draw and explain structure of unix operating system.

Q.4 Draw and explain microkernel operating system structure.

Q.5 Draw and explain monolithic structure of os.

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 Chapter Name :- Process management.

Assignment No:-3

Q.1 Define process management.

Q.2 What is process scheduling.

Q.3 Explain blocking and non blocking in synchronization.

Q.4 Explain users and kernel threads.

Q.5 Explain process termination in detail.

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Course Outcome :- OSY

Chapter Name :- :- CPU Scheduling and algorithms

Assignment No:-4

Q.1 Define scheduler.

Q.2 State and explain CPU scheduler.

Q.3 List scheduling algorithms.Explain any 1 with example.

Q.4 Write any 2 disadvantages of priority based scheduling.

Q.5 Explain the conditions for deadlocking.

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Course Title :- Operating System (22516)   Sem-V (2024 -25)
Course Outcome :- OSY

Chapter Name :- :- MEMORY MANAGEMENT.

Assignment No:-5

Q.1 State and describe different memory management techniques.

Q.2 Explain "Bitmap" free space management techniques.

Q.3 What is meant by page fault.

Q.4 What is virtual memory.

Q.5 Explain the concept of page replacement.

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