University of Technology

Computer Engineering Department

Academic Year 2023 - 2024

Second Year – Second Semester - Information Technology Branch

CE-IT233	Operating System II	2 Hours/Week	2 Units

Contents of Syllabus	Hours
1- Deadlocks • System Model • Deadlock Characterization • Methods for Handling Deadlocks • Deadlock Prevention • Deadlock Avoidance • Deadlock Detection • Recovery from Deadlock	6
2-Memory-Management Strategies • Background • Swapping • Contiguous Memory Allocation • Paging • Segmentation	8
3- File Systems • File-System Structure • File-System Implementation • Directory Implementation • Allocation Methods • Free-Space Management • Efficiency and Performance • Recovery • NFS	8
4- Secondary-Storage Structure • Overview of Mass-Storage Structure • Disk Structure • Disk Attachment • Disk Scheduling • Disk Man.agement • Swap-Space Management	8

References

1- Avi Silberschatz, Peter Baer Galvin, Greg Gagne,"operating system concepts" 8th edition

2- Andrew S. Tanenbaum "Operating Systems Design and implementation," Third Edition

اسم التدريسي: Dr. Muna Mohammed Al-Nayar