

Course Title	Operating Systems
Course code	MIS231
Pre-required courses	MIS102
Course Level	Sixth
Credit Hours	3 hours
Teaching Language	Arabic
<b>Course Description</b>	
The course introduces operating systems (definition - types & characteristics). Further, students will recognize various operations and their threads. Students learn about CPU scheduling & Synchronization. Students will also learn about main memory and virtual memory management, meaning of deadlock.	
<b>Course Aims</b>	
<ul style="list-style-type: none"> <li>• Study about the basic concepts underlying operating systems.</li> <li>• How typical operating system works.</li> <li>• Description of operating systems' functions and design...</li> <li>• Analyzing the algorithms used in the virtual memory management.</li> <li>• Understanding non-distributed operating systems.</li> <li>• Discussing the algorithms used in the input and output file management.</li> <li>• Understanding Synchronization</li> <li>• Identifying the meaning and deadlock</li> <li>• Understanding the main memory and virtual memory management.</li> <li>• Learning about Device Manager and File Manager.</li> <li>• Application on Windows 7, Windows Server, Linux.</li> </ul>	
<b>Course Contents:</b>	
<ul style="list-style-type: none"> <li>• Defining operating systems</li> <li>• Structuring computer systems and operating systems</li> <li>• Concept of operations and threads.</li> <li>• Scheduling CPU methods</li> <li>• The meaning of deadlock in operating systems</li> <li>• Types of memories (main/secondary memory) and ways to handle them</li> <li>• Device Management</li> <li>• File Management</li> <li>• Distributed systems.</li> <li>• Identify the operating systems: Windows 7, Windows Server, Linux,</li> <li>• Installing and managing all of these systems</li> </ul>	