

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

Course Definition File

1- Basic Information:

Course Name	Introduction to Operating System
Course ID	IOS101
Contact Hours (Registered Sessions)	36
Contact Hours (Synchronized Sessions)	18
Mid Term Exam	NO
Exam	2
Registered Sessions Work Load	36
Synchronized Session Work Load	18
Credit Hours	6

2- Pre-Requisites:

Course	ID
NO	

3- Course General Objectives:

At the end of this course, the learner should:

- Understand what is an operating system and the role it plays.
- Understand the structure of operating systems, applications, and the relationship between them.
- Recognize the services provided by operating systems.
- Recognize some details of major OS concepts.

4- Intended Learning Outcomes (ILO):

Learning Outcomes codes	Learning Outcomes
LO1:	<ul style="list-style-type: none"> • Understand what is an operating system and the role it plays, and the different policy used to implement operating system.
LO2:	<ul style="list-style-type: none"> • Recognizing Interruptions, Caching, Main Memory, Cache Memory, Process, File System, Boot loaders, Threads
LO3:	<ul style="list-style-type: none"> • Recognizing Memory Management, Hardware Management, Process Management, File Management, Scheduling.
LO4:	<ul style="list-style-type: none"> • Process Synchronization, Process Lock, Mutual Exclusion
LO5:	<ul style="list-style-type: none"> • Windows Operating System

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5- Course Content

LO	Course Syllabus	Recorded Sessions	Synchronized Sessions	Type	Additional Notes
LO1	Understand what is an operating system and the role it plays, and the different policy used to implement operating system.	1	1	<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input type="checkbox"/> Practices <input checked="" type="checkbox"/> Discussions	
LO2	Recognizing Interruptions, Caching, Main Memory, Cache Memory, Process, File System, Boot loaders, Threads	3	3	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Discussions	
LO3	Recognizing Memory Management, Hardware Management, Process Management, File Management, Scheduling.	4	4	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input checked="" type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Discussions	
LO4	Process Synchronization, Process Lock, Mutual Exclusion	3	3	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input checked="" type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Discussions	
LO5	Windows Operating System	1	1	<input type="checkbox"/> Exercises <input type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Discussions	

6- Assessment Criteria (Related to ILOs)

LO	LO	Assessment Type
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Code		Interactive Synchronized Collaboration	Practice	Exams	Presentations And Face-to-Face Assessments	Reports
LO1	Understand what is an operating system and the role it plays, and the different policy used to implement operating system.	X		X		
LO2	Recognizing Interruptions, Caching, Main Memory, Cache Memory, Process, File System, Boot loaders, Threads	X	X	X	X	X
LO3	Recognizing Memory Management, Hardware Management, Process Management, File Management, Scheduling.	X	X	X	X	X
LO4	Process Synchronization, Process Lock, Mutual Exclusion	X	X	X	X	X
LO5	Windows Operating System	X	X	X		

7- Course Syllabus (18 hours of total synchronized sessions)

LO	Chapter No	Chapter
LO1	1	Introduction
LO2	2	OS Structure

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LO2	3	OS of Personal Computers
LO2	4	Threads
LO3	5	Hardware Management
LO3	6	scheduling
LO3	7	Process Management
LO3	8	File Systems
LO3	9	Memory Management
LO4	10	Synchronization
LO4	11	Mutual Lock
LO5	12	Windows OS

8- Practice Tools:

Tool Name	Description
Operating Systems	Linux, Windows