



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Systems & Applications		Module Delivery
Module Type	Core	☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	CYS104		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1		
Semester of Delivery	1		
Administering Department	Dept. of Cybersecurity	College	College of Information Technology
Module Leader	Asst. Prof. Dr. Ahmad AlSabhany	e-mail	Ahmad.alsabhany@uofallujah.edu.iq
Module Leader's Acad. Title	Asst. Prof.	Module Leader's Qualification	PhD
Module Tutor	Lect. Basem Mohd. Saleh	e-mail	bassim.m.s1977@uofallujah.edu.iq
Peer Reviewer Name	Asst. Prof. Dr. Omar Salah Shareef	e-mail	omar.alshareef@uofallujah.edu.iq
Scientific Committee Approval Date	25-5-2026	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. Understand the fundamental concepts of computer systems, including computer hardware, software, and operating system components. 2. Develop practical skills in managing files, folders, and system resources within modern operating systems. 3. Use common productivity applications to create professional documents, spreadsheets, presentations, and simple databases. 4. Apply Internet, email, and cloud-based communication tools effectively for academic and professional purposes. 5. Perform fundamental command-line operations using both Windows Command Prompt and the Linux terminal. 6. Develop the practical computing skills required for subsequent courses in programming, networking, databases, and cybersecurity.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Describe the fundamental components of computer systems, including hardware, software, operating systems, and storage devices. 2. Manage files, folders, and system resources using Windows and Linux operating systems. 3. Produce professional documents, spreadsheets, presentations, and simple databases using standard office productivity software. 4. Use Internet services, email, and cloud-based applications for communication, collaboration, and information management. 5. Execute basic command-line operations using Windows Command Prompt and the Linux terminal. 6. Demonstrate practical computer skills that support further study in programming, networking, databases, and cybersecurity.
Indicative Contents المحتويات الإرشادية	• Introduction to Computer Systems and Information Technology • Computer Hardware Components and Peripheral Devices • Computer Software, Operating Systems, and System Utilities • Windows Operating System Fundamentals and File Management • Linux Operating System Fundamentals and Basic Terminal Commands • Internet Technologies, Web Browsers, and Search Techniques • Email Services and Cloud Computing Applications • Microsoft Word for Document Creation and Formatting • Microsoft Excel for Data Organization, Formulas, Charts, and Analysis • Microsoft PowerPoint for Professional Presentations • Microsoft Access Fundamentals and Database Applications • File Compression, Backup, and Data Storage Technologies

	• Introduction to Windows Command Prompt (CMD) • Basic Linux Shell Commands and File System Navigation • Practical Integration of Computer Applications for Academic and Professional Work
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies الاستراتيجيات	This module is delivered through a combination of interactive lectures and practical laboratory sessions to develop both theoretical understanding and hands-on computer skills. Students learn by performing guided exercises using Windows and Linux operating systems, Microsoft Office applications, and command-line tools. Practical activities, demonstrations, individual assignments, and problem-solving exercises are used to reinforce learning and encourage the effective use of computer systems and applications in academic and professional environments.
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Student Workload (SWL)

الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	62	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	38	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	50		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quiz	1	10% (10)	5	LO #1, #2, #3
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Quiz	1	10% (10)	12	LO #8, #9, #10
	Report	1	10% (10)	13	LO #5, #11 and #12
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to Computer Systems, Information Technology, and Computer Applications
Week 2	Computer Hardware Components, Peripheral Devices, and Storage Technologies
Week 3	Computer Software, Operating Systems, and System Utilities
Week 4	Windows Operating System Architecture, File Systems, and Resource Management
Week 5	Linux Operating System Fundamentals, File Systems, and Open-Source Software
Week 6	Internet Technologies, Web Browsers, Search Techniques, Email, and Cloud Services
Week 7	Microsoft Office Applications: Features, Uses, and Best Practices
Week 8	Midterm Exam
Week 9	Microsoft Word: Document Design, Formatting Principles, and Professional Documentation
Week 10	Microsoft Excel: Spreadsheets, Data Organization, Formulas, and Charts
Week 11	Microsoft PowerPoint: Presentation Design and Communication Principles
Week 12	Microsoft Access: Database Concepts, Tables, Queries, Forms, and Reports
Week 13	Windows Command Prompt (CMD): Command-Line Interface Concepts and Administration
Week 14	Linux Shell Fundamentals, Basic Commands, and Terminal Environment
Week 15	Integration of Computer Systems and Applications, Review, and Course Summary

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Introduction to the Computer Laboratory, Windows Environment, User Accounts, and Basic Computer Operations
Week 2	Exploring Computer Hardware, Peripheral Devices, Storage Media, and System Information
Week 3	Windows File Management: Creating, Organizing, Searching, Compressing, and Managing Files and Folders
Week 4	Microsoft Word I: Creating, Editing, Formatting, and Printing Documents
Week 5	Microsoft Word II: Tables, Images, Headers, Footers, Styles, and Page Layout
Week 6	Microsoft Excel I: Worksheets, Cell Formatting, Basic Formulas, and Functions
Week 7	Microsoft Excel II: Charts, Sorting, Filtering, Conditional Formatting, and Data Analysis
Week 8	Midterm Practical Exam
Week 9	Microsoft PowerPoint: Creating Professional Presentations, Themes, Multimedia, and Slide Transitions
Week 10	Microsoft Access: Creating Databases, Tables, Relationships, Queries, Forms, and Reports
Week 11	Internet and Cloud Applications: Web Browsing, Search Techniques, Email, OneDrive/Google Drive, and Online Collaboration
Week 12	Windows Command Prompt (CMD): File System Navigation, File Management, Network Utilities, and Batch Commands
Week 13	Linux I: Installation/Virtual Machine, Terminal Navigation, Files, Directories, and Permissions
Week 14	Linux II: Shell Commands, Text Editors, File Management, Package Management, and Basic Bash Commands
Week 15	Practical Integration Exercise: Using Windows, Linux, Office Applications, and Command-Line Tools in a Comprehensive Lab Project

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1. Peter Norton, <i>Introduction to Computers</i> , 8th Edition, McGraw-Hill Education. 2. Joan Lambert, <i>Microsoft Office 365 & Office 2021 Step by Step</i> , Microsoft Press, 2022.	Yes
Recommended Texts	3. Andrew S. Tanenbaum and Herbert Bos, <i>Modern Operating Systems</i> , 5th Edition, Pearson, 2022. 4. William E. Shotts Jr., <i>The Linux Command Line: A Complete Introduction</i> , 2nd Edition, No Starch Press, 2019.	No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				