هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

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Course Title:	smart operating systems
Course Code:	256 CIS- 2
Program:	Technical support
Department:	**Computer Department**
College:	Applied College
Institution:	Najran University
Version:	**T -104 2022**
Last Revision Date:	**20/08/2023**

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	2(1+1)				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered:		3rd semester Second year			
4. Course general Description This course provided a detailed description about the objectives of smart device operating systems, the basic functions, and concepts. Types of security and their stages of development in smart operating systems and distinguish between smart operating systems.					
5. Pre-requirements for this course (if any): 167 CIS- 3					
6. Co- requirements for this course (if any):					
7. Course Main Objective(s) Identify the services provided by the smart operating system Illustrate the structural design of a smart operating system. Identifies and describes the major and common components of a smart operating system Acquire basic knowledge of smart Operating System.					

1. Teaching mode **(mark all that apply)**

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	2 hours per week	100%
2.	E-learning		
3.	Hybrid • Traditional classroom • E-learning		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	15
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Recognize the basic concepts related to smart operating system	K3	• Lectures, • Class Discussion	• Class work • assignments • Quizzes • Midterm Exams • Final Exam
1.2	Identifies the functional elements of smart operating systems	K1	• Lecture • Small Group Work • Brainstorming	• assignments • Quizzes • Midterm Exams • Final Exam
2.0	Skills			
2.1	The ability to improve how operating systems work	S1	• Lecture • Small Group Work • Lab Demonstration	• Exam • Lab Reports
2.2	The ability to find operating systems malfunctions and ways to solve them.	S2	• Lecture • Small Group Work	• Reports
3.0	Values, autonomy, and responsibility			
3.1	Work in a group to solve the problems of intelligent operating systems	V2	• Small Group Work	• Lab Reports

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to smart operating system	4
2	Smart OS Components	6
3	Intelligent Operating Systems Functions	4
4	Types of Operating Systems Smart Devices	6
5	Install and update smart operating systems	6
6	Types of security and their development stages in smart operating systems	6
7	Distinguish between smart operating systems. (iPhone - Palm - Android – Blackberry…….)	7
8	Other types of operating systems	6
Total		45

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	8	20%
2.	Homework and Quizzes	Due semester	10%
3.	Practical exam	16	20%
4.	Final exam	End of semester	50%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	IT Essentials Companion Guide v6, 6th Edition by Cisco Networking Academy, Cisco Press (page 73 - 102).
Supportive References	Modern Operating Systems", Andrew S. Tanenbaum., Third Edition , Prentice Hall.
Electronic Materials	http://lms.nu.edu.sa/webapps/portal/frameset.jsp المكـتبة الرقمية http://lib.nu.edu.sa/DigitalLibbrary.aspx
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture rooms should be large enough to accommodate the number of registered students
Technology equipment (projector, smart board, software)	Black Board/Data Show
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Teaching strategy, staff performance, exam	Student	Questioners
Exam paper , course results	Staff committee	Cross checking
Quality of learning resources	Faculty Administration	Review and check the results
The extent to which CLOs have been achieved	Quality management in the department	A review of the measurement of learning outcomes

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE		
REFERENCE NO.		
DATE