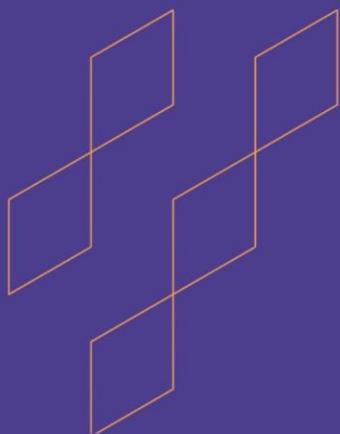




2024

TP-153



Course Specification — (Bachelor)

Course Title: Information Security

Course Code: ٢٧٩ CIS-٣

Program: Applied Information Systems

Department: Computer

College: Applied College

Institution: Najran University

Version: ٤

Last Revision Date: ١٠/١٠/٢٠٢٤



Table of Contents

A. General information about the course:	٣
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	٤
C. Course Content	٥
D. Students Assessment Activities	٦
E. Learning Resources and Facilities	٦
F. Assessment of Course Quality	٧
G. Specification Approval	٧





A. General information about the course:

١. Course Identification

١. Credit hours: (٢ (٢+٢))

٢. Course type

A.	<input type="checkbox"/> University	<input type="checkbox"/> College	<input checked="" type="checkbox"/> Department	<input type="checkbox"/> Track	<input type="checkbox"/> Others
B.	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective		

٣. Level/year at which this course is offered: (Level 4)

٤. Course General Description:

٥. Pre-requirements for this course (if any): ١٦٨ CIS-٣

٦. Co-requisites for this course (if any):

٧. Course Main Objective(s):

- Understand and contextualize the principles of information security in complex systems and organizations
- Understand, implement, and develop cyber security controls, security policies, procedures, and programs
- Perform threat, vulnerability, and risk assessments
- Plan a security awareness, training, and education activity

٨. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
١	Traditional classroom	٥٦	٩٥%
٢	E-learning		٥%
٣	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
٤	Distance learning		





٢. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
١.	Lectures	٢٨ Hours
٢.	Laboratory/Studio	٢٨ Hours
٣.	Field	-
٤.	Tutorial	-
٥.	Others (specify)	
Total		٥٦ Hours

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

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
١,١	Knowledge and understanding			
١,١	List and discuss the key characteristics of information security	K١=p	<ul style="list-style-type: none"> • Lectures, labs • Brainstorming, Class Discussion 	<ul style="list-style-type: none"> • Class work • assignments • Quizzes • Midterm • Exams <p>Final Exam</p>
١,٢	understand information security policy role in a successful information security program	K٢=I	<ul style="list-style-type: none"> • Lectures, labs • Brainstorming, Class Discussion 	<ul style="list-style-type: none"> • Class work • assignments • Quizzes • Midterm • Exams <p>Final Exam</p>
...				
٢,١	Skills			
٢,١	analysis the principal components of information security (InfoSec) system implementation planning in the	S٢=I	<ul style="list-style-type: none"> • Class • Discussion • Related Computer Software and websites 	<ul style="list-style-type: none"> • Class work • assignments • Quizzes • Midterm • Exams





Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	organizational planning scheme			Final Exam
٢,٢				
...				
٣,٣	Values, autonomy, and responsibility			
٣,١	The student is committed to work ethics in the work environment	V1=I	<ul style="list-style-type: none"> • Brainstorming, • Class Discussion 	<ul style="list-style-type: none"> • Assignment • Class work
٣,٢				
...				

C. Course Content

No	List of Topics	Contact Hours
١.	Course Overview and Logistics Information Security Environment Lab:password security using keepass	٢ ٢
٢.	INTRODUCTION TO INFORMATION SECURITY Lab: defined viruses and antivirus and firewall	٢ ٢
٣	PLANNING FOR SECURITY Lab : Performing Reconnaissance and Probing using Common Tools	٤ ٤
٤	PLANNING FOR CONTINGENCIES Lab:Performing a Vulnerability Assessment	٢ ٢
٥	INFORMATION SECURITY POLICY (Security Education, Training and Awareness) Lab: Performing a Web Site and Database Attack by Exploiting Identified Vulnerabilities	٢ ٢
٦	Mid Exam	٢
٧	DEVELOPING THE SECURITY PROGRAM Lab: Implementing an Information Systems Security Policy	٢ ٢
٨	SECURITY MANAGEMENT MODELS	٢





٩	Lab :Implementing an Information Systems Security Policy SECURITY MANAGEMENT PRACTICES	٢
١٠	Lab: Implementing an Information Systems Security Policy PERSONNEL AND SECURITY	٢
١١	Lab: Implementing a Business Continuity Plan RISK MANAGEMENT: IDENTIFYING AND ASSESSING RISK	٢
١٢	Lab :Enabling Windows Active Directory and User Management: A Modern Fairy Tale” Access Control RISK MANAGEMENT: CONTROLLING RISK	٢
١٣	Lab: Enabling Windows Active Directory and User Management: A Modern Fairy Tale” Access Control Economics of Cyber security: Economic Aspects of Information Security	٢
١٤	LAW AND ETHICS	٢
١٥	Practice exam	٢
Total		

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
١.	assignment	٢-١٣	١٠%
٢.	Mid exam	٨	٢٠%
٣.	Practical exam	١٤	٢٠%
...	Final exam	End of the semster	٥٠%

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

E. Learning Resources and Facilities

١. References and Learning Resources

Essential References	Michael E. Whitman, Herbert J. Mattord, Management of Information Security, Latest Edition. Course Technology, Cengage Learning, ISBN-٩٧٨-١-٢٨٥-٦٢٢٩-٧.
Supportive References	Computer Security: Art and Science, Matt Bishop (ISBN: ٠-٢٠١-٤٤٠٩٩-٩), Addison-Wesley ٢٠٠٣ Security Engineering: A Guide to Building Dependable Distributed Systems, Ross Anderson, Wiley, John & Sons, Incorporated, ٢٠٠١





Electronic Materials

Other Learning Materials

Guide to Disaster Recovery, M. Erbschilde

E. 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)	Data Show
Other equipment (depending on the nature of the specialty)	Wireshark software

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	End term Questionnaire
Effectiveness of Students assessment	Head of the department and Departmental Council discussions	Directly
Quality of learning resources		
The extent to which CLOs have been achieved		
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL / COMMITTEE	
REFERENCE NO.	
DATE	

