



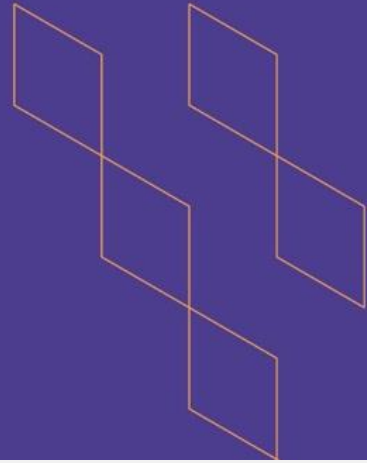
T-104  
2022

# Course Specification



T-104  
2022

# Course Specification



Course Title:	Information Security
Course Code:	190 CIS- 2
Program:	<b>Technical support</b>
Department:	<b>Computer Department</b>
College:	<b>Applied College</b>
Institution:	Najran University
Version:	<b>T -104 2022</b>
Last Revision Date:	<b>18-8-2023</b>





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## A. General information about the course:

Course Identification	
1. Credit hours:	<b>2 hours</b>
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: <b>3<sup>rd</sup> Second year</b>	
4. Course general Description This course is to make students familiar with the basic concepts of information systems security. The course aims to the security goals, security functions, and security mechanisms. The content is: Introduction to information security, information security and risk management, access control, security architecture and design, physical environmental security, telecommunications and network security, business continuity and disaster recovery, application security and operation security. The choice of appropriate encryption/decryption is the key in the development of efficient secure information system..	
5. Pre-requirements for this course (if any): No	
6. Co- requirements for this course (if any): No	
7. Course Main Objective(s)  By the end of this course students should be able to:	
<ul style="list-style-type: none"> <li>• Explain the objectives of information security.</li> <li>• Discuss the importance and applications of each of confidentiality, integrity, and availability.</li> <li>• Analyze issues for creating security policy for a large organization.</li> <li>• Evaluate vulnerability of an information system and establish a plan for risk management.</li> <li>• Present issues and solutions in Information System security backgrounds.</li> <li>• Apply contemporary theories, processes, and tools in the development of information security.</li> </ul> Analyze the local and global impact of information security on individuals, organizations, and society	

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

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	2 hours per week	95%
2.	E-learning		5%
3.	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>		
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)	
	<b>Total</b>	<b>45</b>

## 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	Define major components of Information Security.	K1	Lecture Individual and group discussion	Exams Assignments
1.2	Memorize the key Information Security terms	K2	Lecture Individual and group discussions	Exams Assignments
...				
2.0	Skills			
2.1	Explain Security Systems Development Life Cycle	S1	Lecture Brainstorming Lecture Small group work	Exams Group reports Exams Assignment
2.2	Analyze different kind of threats.	S2	Lecture Brainstorming Lecture Small group work	Exams Group reports Exams Assignment
...				
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate projects and assignments in team work for	V2	Small group work Group	Group report

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	designing and implementing system security concepts and protecting information system		Presentation Projects	
3.2				
...				

### C. Course Content

No	List of Topics	Contact Hours
1.	Basic concepts of information systems security, security goals, security functions, and security mechanisms	4
2.	Information security and risk management, access control	4
3	Security architecture and design, physical environmental security	4
4	Telecommunications and network security	5
5	Business continuity and disaster recovery, application security and operation security	4
6	Encryption/decryption, Cryptographic Tools, Examples.	6
7	Information Security Models.	6
8	Security Evaluation	6
9	Web Security	6
10		
<b>Total</b>		<b>45</b>

### D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Monthly Exam	8	20%
2.	Home works	From 2 to 12	10%
3.	Practical exam	16	20%
4.	Final exam	17	50%
5.			
...			

\*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	Michael E. Whitman, Herbert J. Mattord, Principles of information security, Cengage Learning, 2013. W. Stallings, Cryptography and Network Security: Principles and Practice, Prentice Hall, Six Edition. 2013.
Supportive References	Security Policies and Implementation Issues by Robert Johnson and Mark Merkow. Jones and Bartlett
Electronic Materials	Blackboard
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
Effectiveness of teaching	<b>Student</b>	<b>Questioners</b>
Effectiveness of students assessment	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
Other		

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

**Assessment Methods** (Direct, Indirect)





## G. Specification Approval Data

COUNCIL  
/COMMITTEE

REFERENCE NO.

DATE

