اعتماد
NCAAA

T4

2020

Course Specifications

Course Title:	Risk Management
Course Code:	Cyber0201
Program:	Computer Science (Cybersecurity)
Department:	Applied Sciences
College:	Applied College
Institution:	Imam Muhammad Bin Saud Islamic University

Table of Contents

A. Course Identification

1. Credit hours: 3(2 theory , 2 lab)	

2. Course type

a. University ☐   College ☐   Department ☑   Others ☐

b. Required ☑   Elective ☐

3. Level/year at which this course is offered: Third semester

4. Pre-requisites for this course (if any)**:**
Cyber102

5. Co-requisites for this course (if any)**:**
None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3hours\week	100%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	22
2	Laboratory/Studio	
3	Tutorial	22
4	Others (specify)	
	Total	44

B. Course Objectives and Learning Outcomes

1. Course Description

This course introduces students to the management of information related risks in the area of computer security. Students will learn about several techniques in risk assessment and the relationship between assets, vulnerabilities, threats, and risks. They will learn about how to implement a number of strategies that will ensure the protection of assets through threat modeling.

2. Course Main Objective

- Understand risk management fundamentals and classify information and assets
- Demonstrate an understanding of the concepts of assessment, assets, vulnerabilities, threats, and risks
- Identify and analyze risks, threats and vulnerabilities impacting an organization
- Identify and analyze risks, threats and vulnerabilities impacting an organization
- Explain the difference between Disaster Recovery, and Business Continuity

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Understand risk management fundamentals and classify information and assets	ع1،ع2
1.2	Demonstrate an understanding of the concepts of assessment, vulnerabilities, threats, and risks	ع1،ع5
2	**Skills :**	
2.1	Identify and analyze risks, threats and vulnerabilities impacting an organization	م1،م2،
2.2	Perform a risk assessment, and develop a risk management plan	م6
2.3	Explain the difference between Disaster Recovery, and Business Continuity	م7
3	**Values:**	
3.1		
3.2		
3.3		
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Risk Management Fundamentals	8
2	Managing Risk	8
3	Developing Risk Assessment Plan	8
4	Performing Risk Assessment	8
5	Identifying Assets and Activity	6
6	Disaster Recovery and Business Continuity	6
	Total	**44**

D. Teaching and Assessment
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	Understand risk management fundamentals and classify information and assets	Class Discussion Questions/Answers sessions in class Case studies and analysis. Project and students	Quizzes, Exams, Project, Presentation
1.2	Demonstrate an understanding of the concepts of assessment, vulnerabilities, threats, and risks	Class Discussion Questions/Answers sessions in class Case studies and analysis. Project and students	Quizzes, Exams, Project, Presentation
2.0	**Skills**		
2.1	Identify and analyze risks, threats and vulnerabilities impacting an organization	Class Discussion Questions/Answers sessions in class Case studies and	Quizzes, Exams, Project, Presentation

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		analysis. Project and students	
2.2	Perform a risk assessment, and develop a risk management plan	Class Discussion Questions/Answers sessions in class Case studies and analysis. Project and students	Quizzes, Exams, Project, Presentation
2.3	Explain the difference between Disaster Recovery, and Business Continuity	Class Discussion Questions/Answers sessions in class Case studies and analysis. Project and students	Quizzes, Exams, Project, Presentation
3.0	**Values**		
3.1			
3.2			
…			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	Week3,5	10%
2	Midterm1	Week 6	15%
3	Midterm2	Week8	15%
4	Lab Assignments group or individual /Class Assignments group or individual	Week4,7,9	10%
5	Lab Evaluations	All Semester	10%
6	Final	Week13	40%

Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

6 office hours per week.

3 hours of weekly meetings

Contact through the LMS

Communication/interact via e-mails with students

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Gibson, D., Igonor, A., 2020, *Managing Risk in Information Systems*, Jones & Bartlett Learning; 3rd edition
Essential References Materials	Jones, A. and Ashenden, D., 2005. *Risk management for computer security*. Oxford: Butterworth-Heinemann.

Electronic Materials	Online resources will be provided during class lectures.
Other Learning Materials	N/A

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture room with Smart board Lab with 25 Pcs
Technology Resources (AV, data show, Smart Board, software, etc.)	PC and WiFi Internet access within the class room
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	N\A

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Student	Indirect using course evaluation survey
Quality of learning resources	Student and Faculty	Indirect using course evaluation and faculty survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	