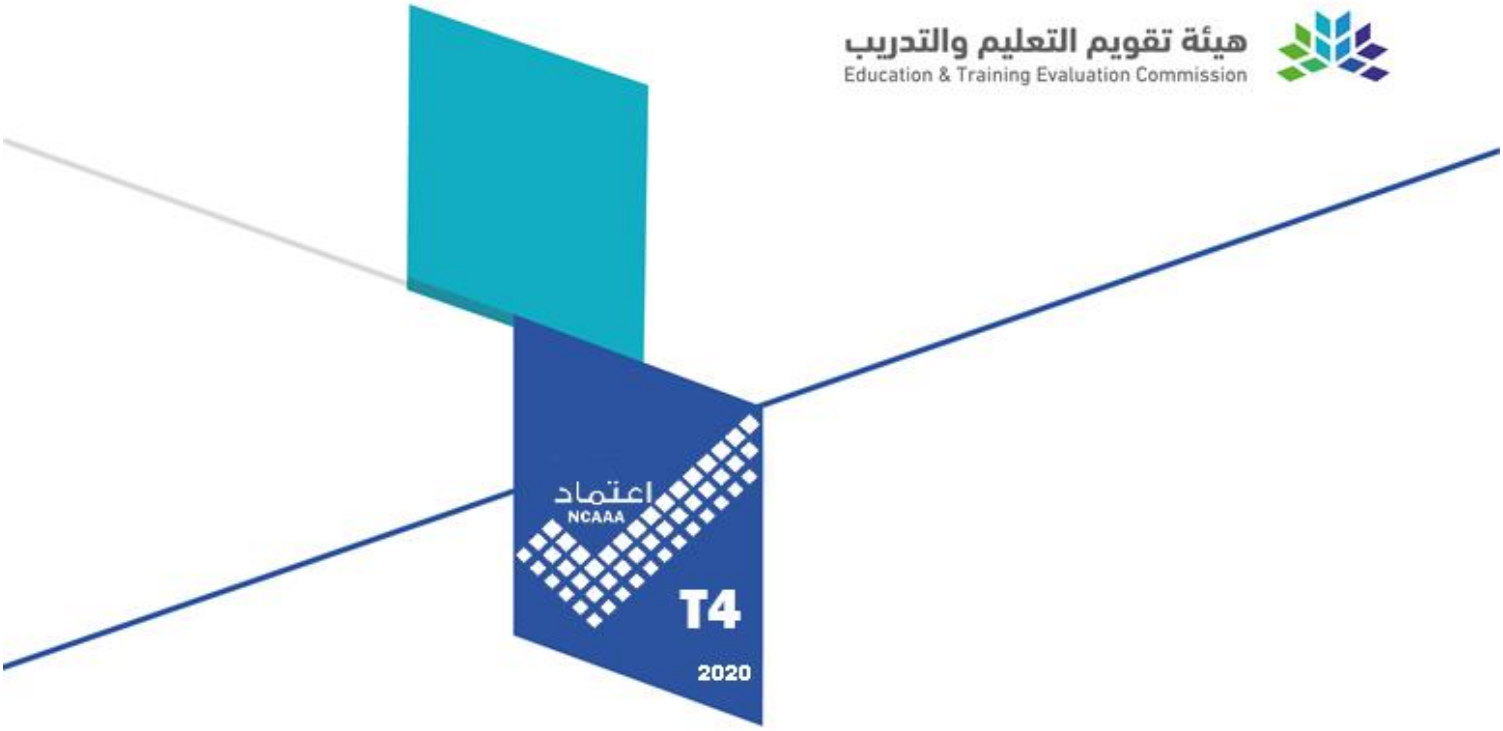
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission




# Course Specifications

| | |
|---|---|
| **Course Title:** | Cyber Threats |
| **Course Code:** | CYB 0202 |
| **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**<br>**a.** University ☐ College ☐ Department ☑ Others ☐<br>**b.** Required ☑ Elective ☐ |
| **3. Level/year at which this course is offered:** Third Semester |
| **4. Pre-requisites for this course** (if any)**:**<br>Cyber102 |
| **5. Co-requisites for this course** (if any)**:**<br>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 is designed to introduce students to the concepts of cybercrime including prevention, detection, investigation and incident management processes, policies, procedures and cybercrime governance activities. It therefore focuses on cybercrime management standards, guidelines and procedures. In addition, the course provides students with an understanding of digital investigation techniques for machines, systems and networks.

### 2. Course Main Objective

- Understand the concept of cybercrime and distinguish between the different types of cybercrimes
- Understand The Saudi Anti-Cyber Crime law to secure the safe exchange of data, protect the rights of users of the computers and the internet
- Identify and describe the challenges faced nationally and internationally at combating cybercrime
- Identify different types of attackers and describe their motivations
- Analyze the concept of digital forensics including identifying, acquiring, processing and analyzing

### 3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|---|---|---|
| 1 | **Knowledge and Understanding** | |
| 1.1 | Understand the concept of cybercrime and distinguish between the different types of cybercrimes | ع2 |
| 1.2 | Understand The Saudi Anti-Cyber Crime law to secure the safe exchange of data, protect the rights of users of the computers and the internet | ع4 |
| **2** | **Skills :** | |
| 2.1 | Identify and describe the challenges faced nationally and internationally at combating cybercrime | م1 |
| 2.2 | Identify different types of attackers and describe their motivations | م2 |
| 2.3 | Analyze the concept of digital forensics including identifying, acquiring, processing and analyzing | م7 |
| **3** | **Values:** | |
| 3.1 | | |
| 3.2 | | |
| 3.3 | | |
| 3... | | |

## C. Course Content

| No | List of Topics | Contact Hours |
|---|---|---|
| 1 | Introduction to Cybercrime | 8 |
| 2 | Hackers, Attackers and Motivations | 8 |
| 3 | Types of Cybercrime | 8 |
| 4 | Digital Forensics | 10 |
| 5 | The Saudi Anti-Cyber Crime law | 10 |
| **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 the concept of cybercrime and distinguish between the different types of cybercrimes | Class Discussion<br>Questions/Answers sessions in class<br>Case studies and analysis.<br>Project and students | Quizzes, Exams, Project, Presentation |
| 1.2 | Understand The Saudi Anti-Cyber Crime law to secure the safe exchange of data, protect the rights of users of the computers and the internet | Class Discussion<br>Questions/Answers sessions in class<br>Case studies and analysis.<br>Project and students | Quizzes, Exams, Project, Presentation |
| | | | |
| **2.0** | **Skills** | | |
| 2.1 | Identify and describe the challenges faced nationally and internationally at combating cybercrime | Class Discussion<br>Questions/Answers sessions in class | Quizzes, Exams, Project, Presentation |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|---|---|---|---|
| | | Case studies and analysis.<br>Project and students | |
| 2.2 | Identify different types of attackers and describe their motivations | Class Discussion<br>Questions/Answers sessions in class<br>Case studies and analysis.<br>Project and students | Quizzes, Exams, Project, Presentation |
| 2.3 | Analyze the concept of digital forensics including identifying, acquiring, processing and analyzing | Class Discussion<br>Questions/Answers sessions in class<br>Case studies and analysis.<br>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 :**

## F. Learning Resources and Facilities

### 1.Learning Resources

| | |
|---|---|
| **Required Textbooks** | Computer Forensics and Cyber Crime Book by Marjie T. Britz |
| **Essential References Materials** | نظـام مكـافحـة الجرائم المعلومـاتيـة، هيئـة الاتصـــالات وتقنيـة المعلومـات، https://www.citc.gov.sa/ar/mediacenter/publicationsandbrochures/Documents/PR_PRN_002A.pdf |
| **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** | |