هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

اعتماد NCAAA T4 2020

Course Specifications

Course Title:	**Computer Crimes and Forensics**
Course Code:	**502554-3**
Program:	**Bachelor in Information Technology**
Department:	**Department of Information Technology**
College:	**College of Computers and Information Technology**
Institution:	**Taif University**

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A. Course Identification

1. Credit hours: 3
2. Course type **a.** University ☐ College ☐ Department ☑ Others ☐ **b.** Required ☐ Elective ☑
3. Level/year at which this course is offered: 14/5 or 15/5
4. Pre-requisites for this course (if any)**:** Computer System security 502551-3 or 502552-3 or 502553-3
5. Co-requisites for this course (if any)**:** **NAN**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	8	100%
2	**Blended**	0	0
3	**E-learning**	0	0
4	**Distance learning**	0	0
5	**Other**	0	0

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	50
2	**Laboratory/Studio**	30
3	**Tutorial**	
4	**Others** (specify)	
	Total	80

B. Course Objectives and Learning Outcomes

1. Course Description

This course introduces computer crimes and legal issues related to its investigation. In this course, the student will learn procedures on tracking, analyzing, and patching security holes after an incident has occurred. This will include seizure of equipment, analysis of confiscated materials, and follow up procedures relating to the incident.

2. Course Main Objective

The main objective of this course is to introduces computer crimes and legal issues related to its investigation, procedures on tracking, analyzing, and patching security holes after an incident has occurred and to seizure of equipment, analysis of confiscated materials, and follow up procedures relating to the incident.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Master the different aspects of computer and cyber-crime.	K1
1.2	Master the basic concepts and issues of computer forensics	K1
2	**Skills :**	
2.1	Master tools and techniques for use in computer and cyber-crime investigations	S1, S2
2.2	Master the basic computer and cyber forensic investigations	S1, S2
2.3	Master the basic computer and cyber forensic investigations	S1, S2
3	**Values:**	

C. Course Content

No	List of Topics	Contact Hours
1	Computer Forensics and Investigation as a Profession	5
2	Understanding Computing Investigations The Investigator's Office and Laboratory	5
3	Data Acquisitions	5
4	Processing Crime and Incident Scenes	10
5	Working with Windows and DOS Systems	10
6	Current Computer Forensics Tools	10
7	Computer Forensics Analysis and Validation	10
8	Recovering Graphics Files	10
9	Network Forensics	10
Total		80

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	Master the different aspects of computer and cyber-crime.	Lecture Discussion	Written Exams Assignments
1.2	Master the basic concepts and issues of computer forensics	Lecture Discussion	Written Exams Assignments
2.0	**Skills**		
2.1	Master tools and techniques for use in computer and cyber-crime investigations	Lecture Discussion Lab work	Written Exams Assignments Practical Exam Case studies
2.2	Master the documentation needed in performing forensic investigations	Lecture Discussion Lab work	Written Exams Assignments Practical Exam Case studies
2.3	Master the basic computer and cyber forensic investigations	Lecture Discussion Lab work	Written Exams Assignments Practical Exam Case studies

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.0	**Values**		
3.1	Read and present basic research papers related to the selected topics	Project presentation Writing summary of research paper	Project

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Assignments (4 assignments)	10	10%
2	Mid Exam	6	20%
3	Attendance/ class activities	11	10%
4	Labs	11	10%
5	Final Exam	12	50%

***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:

Academic advising and counseling of students is an important component of teaching; student academic advising is a mandatory requirement of College of Computers and Information Technology (CCIT). Appropriate student advising provides support needed for the student during times of difficulty. In addition, it helps the student to build a close relationship with his/her advisor and to provide student motivation and involvement with the institution.

In addition, since faculty are usually the first to recognize that a student is having difficulty, faculty members play a key role in developing solutions for the students or referring them to appropriate services. Faculty members also participate in the formal student-mentoring program.

Additional counseling is provided by course directors, who provide students with academic reinforcement and assistance and refer “at risk” students to the Vice Dean for Academic Affairs and the Vice Dean for female section.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Guide to Computer Forensics and Investigations, 4th Edition. Bill Nelson, Amelia Phillips, Christopher Steuart. ISBN-10: 1435498836, ISBN-13: 9781435498839. 720 Pages, 2010.
Essential References Materials	Digital Forensics for Network, Internet, and Cloud Computing, A Forensic Evidence Guide for Moving Targets and Data By Terrence Lillard, (Linux+, CISSP). ISBN: 978-1-59749-537-0, Syngress, 2010.

Electronic Materials	Presentations and recorded lectures
Other Learning Materials	-

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	• A Lecture room appropriate for maximum 25 students with a personal computer, a data show and a smart board. • A Lab room appropriate for maximum 15 students with a personal computer, a data show and a smart board.
Technology Resources (AV, data show, Smart Board, software, etc.)	Lab materials and required software
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of Teaching	Students	Students' surveys and Students course evaluation
Improvement of Teaching	Course Coordinator	deficiencies based on the student Evaluation, faculty input, course file, and program assessment
Verifying Standards of Student Achievement	Curriculum Committee	• Review CAF (Course assessment file) • Alumni surveys. • Periodic exchange and remarking of tests or a sample of assignments with staff at another

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	IT Department Council/ Executive program committee
Reference No.	11
Date	23/10/21443


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