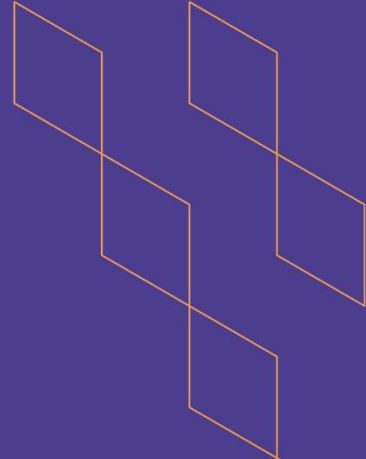




T-104  
2022

## Course Specification



Course Title: <b>IT Audit and Controls</b>
Course Code: IT10802
Program: Information Technology
Department: Information Technology
College: Computer science and Information Technology
Institution: AL-Baha University
Version: <b>2022</b>
Last Revision Date: 29/3/2023





## Table of Contents:

Content	Page
A. General Information about the course	3
1. Teaching mode (mark all that apply)	3
2. Contact Hours (based on the academic semester)	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and <b>Assessment Methods</b>	5
C. Course Content	6
D. Student Assessment Activities	6
E. Learning Resources and Facilities	8
1. References and Learning Resources	8
2. Required Facilities and Equipment	8
F. Assessment of Course Quality	8
G. Specification Approval Data	9



## A. General information about the course:

Course Identification	
1. Credit hours:	3
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 type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 8th/3rd Year	
4. Course general Description	
<p>This course introduces the fundamental concepts of the information technology audit and control function. The main focus of this course is on understanding information controls, the types of controls and their impact on the organization, and how to manage and audit them. The concepts and techniques used in information technology audits will be presented. Students will learn the process of creating a control structure with goals and objectives, audit an information technology infrastructure against it, and establish a systematic remediation procedure for any inadequacies. The challenge of dealing with best practices, standards, and regulatory requirements governing information and controls is addressed.</p>	
5. Pre-requirements for this course (if any):	
6. Co- requirements for this course (if any):	
7. Course Main Objective(s)	
<p>The main objective for this course is to understanding of and competency in the following topics:</p> <ul style="list-style-type: none"> <li>• Establish an understanding of the IT environment and the role of the IT auditor,</li> <li>• Recognize how corporate and IT governance practices impact the IT audit process,</li> <li>• Develop an understanding of the IT audit process i.e., risk assessment, planning, standards, • guidelines and best practices, and</li> <li>• Survey IT audit approaches to: <ul style="list-style-type: none"> <li>o Systems development and maintenance,</li> <li>o IT security,</li> <li>o IT service delivery and support,</li> <li>o Business continuity and disaster recovery, and</li> <li>o Data analytics and fraud detection.</li> </ul> </li> </ul>	

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

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	33	100%
2.	E-learning		
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	33
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	33



## 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	Illustrate an understanding of the IT environment and the role of the IT auditor	K1	Lectures Class discussions	Midterm Exam
1.2	Recognize how corporate and IT governance practices impact the IT audit process.	K1	Lectures Class discussions	Midterm Exam
...				
2.0	Skills			
2.1	Develop an understanding of the IT audit process i.e., risk assessment, planning, standards, guidelines and best practices	S2	Lectures Assignments	Midterm Exam Report Final Exam
2.2	Evaluate the organization's IT strategies, policies, standards, procedures, and practices (including risk management and monitoring and assurance) to ensure that IT supports the organization's strategies and objectives	S3	Lectures Assignments	Homework Quiz Final Exam
2.3	Evaluate the design, implementation and monitoring of various security controls to ensure that information assets	S4	Lectures Assignments	Homework Quiz Final Exam



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	are adequately safeguarded			
3.0	Values, autonomy, and responsibility			
3.1	Communicate effectively and collaborate with peers on IT Audit and Control topics.	V1	<ul style="list-style-type: none"> <li>• Assignments</li> <li>• Oral Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Reports</li> <li>• Presentations</li> <li>• Class Discussions</li> </ul>
3.2				
...				

## C. Course Content

No	List of Topics	Contact Hours
1.	IT environment and controls	3
2.	The Legal Environment and Its Impact on Information Technology	3
3	Audit and Review: Their role in Information Technology	3
4	Audit Process in an Information Technology environment	3
5	Auditing IT using computer-assisted tools	3
6	Managing and IT audit	3
7	IT Auditing trends	3
8	Auditing IT planning and the IT organization	3
9	Strategy and Standards and Risk Management	3
10	Process and Quality Management and Financial Management	3
11	Application controls and maintenance	3
Total		33

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework	Week 2 till Week 9	15%
2.	Report, presentation, and Class discussions	Week 10	15%
3.	Midterm exam	Week 6	20%
4.	Final Exam	Week 12	50%

\*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	Information Technology Control and Audit, Fourth Edition Published: July 18, 2012 by Auerbach Publications - 776 Pages, ISBN: 978-1- 4398-9320-3 Author(s): Sandra Senft, Frederick Gallegos, California State Polytechnic University, Pomona, USA; Aleksandra Davis, Glendora, California, USA
Supportive References	None
Electronic Materials	<ul style="list-style-type: none"> <li>• Access to the Saudi Digital Library (SDL).</li> <li>• Using the learning management system of the university – Rafid System (<a href="https://lms.bu.edu.sa/">https://lms.bu.edu.sa/</a>).</li> </ul> <p>IEEE/ACM Transactions on Networking <a href="https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=90">https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=90</a></p>
Other Learning Materials	None

### 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> <li>• A classroom or lecture hall with whiteboard for 25 students.</li> </ul>
Technology equipment (projector, smart board, software)	
Other equipment (depending on the nature of the specialty)	

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> <li>• Students</li> <li>• Peer Reviewer</li> <li>• Program Leaders</li> </ul>	<ul style="list-style-type: none"> <li>• Survey (indirect)</li> <li>• Peer review (direct)</li> <li>Class visit (direct)</li> </ul>
Effectiveness of students assessment	<ul style="list-style-type: none"> <li>• Students</li> <li>• Exam Evaluation Committee</li> <li>• Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Survey (indirect)</li> <li>• Exam Review (direct) review of course file (direct)</li> </ul>
Quality of learning resources	Faculty Students	<ul style="list-style-type: none"> <li>• Survey (indirect)</li> </ul>







Assessment Areas/Issues	Assessor	Assessment Methods
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> <li>• Faculty</li> <li>• Program Leaders or Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Exams (direct)</li> <li>Exit Exams (direct)</li> </ul>
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

