هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	Foundation of Information Technology
Course Code:	**IT10101**
Program:	**Bachelor of Information Technology**
Department:	**Information Technology**
College:	Computer Science and Information Technology
Institution:	**AlBaha University**
Version:	**01**
Last Revision Date:	**30 March 2023**

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	3				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered: Level 1/1st year					
4. Course general Description This foundation level unit is designed to provide students with a broad understanding of IT components. The focus of the subject is on introducing skills relating to IT basics, computer applications, programming, databases, and the Internet basics. It also covers the Information Technology architectural building blocks which include hardware, software and network facilities that are necessary to deliver seamless and ethically informed Information technology services. This includes ethical considerations such as stewardship responsibilities. The aim of this unit is to provide students with the fundamental understanding of IT capabilities and the knowledge and the skills relevant to obtaining a job in the IT industry.					
5. Pre-requirements for this course (if any):					
6. Co- requirements for this course (if any):					
7. Course Main Objective(s) 1- Have developed a conceptual and practical understanding of the computing fundamentals essential to information technology systems. 2- Identify common computer hardware and software elements and understand how they interact with each other. 3- Understand the function and role of operating systems in the management of computer processes and data. 4- Demonstrate knowledge on different systems and how they are used to exchange digital information. 5- Realize how information technology fit into organizations, and how organizations use systems to accomplish their goals. 6- Be familiar with database systems and modeling techniques. 7- Apply principles underlying social, environmental and ethical aspects in designing IT solutions for an organization.					

8- Communicate effectively and collaborate with peers on information technology and administration topics.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	33	100%
2.	E-learning		
3.	Hybrid • Traditional classroom • E-learning		
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	Have developed a conceptual and practical understanding of the computing fundamentals essential to information technology systems.	K1	• Lectures • Assignments • Discussions	• Quizzes • Midterm Exams • Final Exam
1.2	Identify common computer hardware and software elements and understand how they interact with each other.	K2	• Lectures • Assignments • Discussions	• Quizzes • Midterm Exams • Final Exam
1.3	Understand the function and role of operating systems in the management of computer processes and data.	K3	• Lectures • Assignments • Discussions	• Quizzes • Midterm Exams • Final Exam
2.0	Skills			
2.1	Demonstrate knowledge on different systems and how they are used to exchange digital information.	S1	• Demonstrations • Lectures • Group Discussion • Assignments • Practical Exercises	• Homework • Quizzes • Midterm Exams • Final Exam
2.2	Be familiar with database systems and modeling techniques.	S2	• Lectures • Group Discussion • Assignments • Practical Exercises	• Homework • Quizzes • Midterm Exams • Final Exam
2.3	Apply principles underlying social, environmental and ethical aspects in designing IT solutions for an organization	S3	• Demonstrations • Debates/Discussions • Lectures • Group Discussion • Group Projects • Case Studies	• Homework • Quizzes • Midterm Exams • Project Assessment • Final Exam
3.0	Values, autonomy, and responsibility			
3.1	Communicate effectively and collaborate with peers on information technology and administration topics.	V1	• Assignments • Oral Presentation	• Reports • Presentation • Class Discussions
3.2				

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Information technology	3
2.	Computer hardware and software	3
3.	Introduction to operating systems	3
4.	Storage fundamentals	3
5.	Computer networks	3
6.	Computer programming	3
7.	Basics of databases	3
8.	The Internet.	3
9.	Ethical Issues	3
10.	Social and environmental Impacts of IT	3
11.	Course project discussion	3
Total		33

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework and class discussion	Weekly	10%
2.	Midterm	5th week	15%
3.	Quiz	9th Week	15%
4.	Group Project	10th Week	10%
5.	Final Exam	11th Week	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	Fric, E. (2017). *Information Technology Essentials*. San Bernardino, CA, USA.
Supportive References	White, Ron, et. al. *How Computers Work*. 7th ed. Indianapolis, IN: Que Publishing. ISBN: 0789730332. Gralla, Preston, et. al. *How the Internet Works*. 7th ed. Indianapolis, IN: Que Publishing. ISBN: 0789729733.
Electronic Materials	• Access to the Saudi Digital Library (SDL). • ACM (Association for Computer Machinery) web site - http://www.acm.org/ • ACM SIGCSE (Special Interest Group on Computer Science Education) resource wesite: http://www.sigcse.org/SIGresources •• IEEE Computer Society web site: http://www.computer.org/portal/web/guest/home
Other Learning Materials	None

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	• A classroom or lecture hall with whiteboard for 25 students.
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	• Students • Peer Reviewer • Program Leaders	• Survey (indirect) • Peer review (direct) • Class visit (direct)
Effectiveness of students assessment	• Students • Exam Evaluation Committee • Course Coordinator	• Survey (indirect) • Exam Review (direct) review of course file (direct)

Assessment Areas/Issues	Assessor	Assessment Methods
Quality of learning resources	• Faculty • Students	Survey (indirect)
The extent to which CLOs have been achieved	• Faculty • Program Leaders or Course Coordinator	• Exams (direct) • Exit Exams (direct)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	30 March 2023