



Course Specification (Bachelor)

Course Title: Introduction to Computing	
Course Code: IT101	
Program: Information Technology	
Department: Information Technology	
College: Faculty of Computing and Information Technology	
Institution: Northern Border University	
Version: 3	
Last Revision Date: October 14, 2024	



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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

- A.
 □ University
 ⊠ College
 □ Department
 □ Track
 □ Others

 B.
 ⊠ Required
 □ Elective
- 3. Level/year at which this course is offered: (Level 2 / Year 1)
- 4. Course general Description:

This course, using both lecture and laboratory practice, introduces students to basic computer concepts in hardware, software, networking, programming, database, artificial intelligence, application development, data science and management, cloud computing, and cybersecurity. Additional lectures examine social, legal, ethical issues including privacy, intellectual property, and accessibility. Hands-on lab includes spreadsheets, databases, presentation, word processing and editing, and basic programing.

5. Pre-requirements for this course (if any):

6. Pre-requirements for this course (if any):

Nil

7. Course Main Objective(s):

This course provides students with the fundamental concepts of computing including computer hardware, software, networking, programming, database, artificial intelligence, application development, data science and management, cloud computing, privacy, ethical issues, office processing applications, and cybersecurity

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4	100%
2	E-learning		
3	Hybrid		A Rep 10200 March 1000
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No	Mode of Instruction	Contact Hours	Percentage
	Traditional classroom		
	• E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		60

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 under	standing		
1.1	Identify and understand the principles of computing.	К1	Class / Group discussion, Observation	Oral exams, Objective exams, Written exams (essay)
1.2	Understand the fundamental principles of computer hardware and software.	К1	Class / Group discussion, Observation	Oral exams, Objective exams, Written exams (essay)
1.3	Demonstrate knowledge at the core of computer science fields.	К2	Class / Group discussion, Observation	Oral exams, Objective exams, Written exams (essay)
2.0	Skills			
2.1	Practice skills of spreadsheets,	S3	Problem-based learning,	Objective
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Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	databases, presentations, and word processing tools.		Lab-based learning	Structured Practical Examination (OSPE), Oral exams, Problem-based Assessment
3.0	Values, autonomy, and	d responsibility		
3.1	awareness of related ethical and security issues related to computing.	V1	Problem-based learning, Collaborative learning	Objective Structured Practical Examination (OSPE), Problem-based Assessment

C. Course Content

No	List of Topics	Contact Hours
1.	Information Systems, WWW, and internet	3
2.	Computer hardware	2
3	Computer Software	3
4	Computer networks	3
5	System analysis	3
6	Computer programming	7
7	Database and SQL	7
8	Mobile and cloud computing	2
9	Security, ethics, and privacy	3
10	AI, data science, and data management	3
11	Impact of computing on society	3
12	Spreadsheet	7
13	Word processing and editing	7
14	presentations	7
	Total	60







No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	2-15	5
2.	Assignments	2-15	10
3.	Participation	1-15	5
4.	Labs	1-16	20
5.	Midterm Exam	6-12	20
6.	Final Exam	17-18	40

D. Students Assessment Activities

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

	Sanghera, K. (2007). Fundamentals of Computing.
Essential References	Kendall/Hunt Publishing Co
Supportive References	Steinberg, G., & Sanghera, K. (2007). Introduction to computer
Supportive References	information systems. Kendall/Hunt Publishing Co
	. Blackboard System: https://lms.nbu.edu.sa/ 2. Northern
Electronic Materials	Border University Electronic Library:
	https://www.nbu.edu.sa/AR/Deanships/Library_Issues 3. Saudi
	Digital Library (SDL): https://portal.sdl.edu.sa/english/
Other Learning Materials	ТВА

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	ClassroomLaboratory
Technology equipment (projector, smart board, software)	 Data Show (Projectors) in Classroom. Desktop computers · OS: Windows 10 Software: Microsoft Office, Oracle, Python
Other equipment (depending on the nature of the specialty)	ТВА
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F. Assessment of Course Quality			
Assessment Areas/Issues	Assessor	Assessment Methods	
Effectiveness of teaching	Students	Indirect	
Effectiveness of Students assessment	Students	Indirect	
Quality of learning resources	Faculty	Direct	
The extent to which CLOs have been achieved	Students	Indirect	
Other			
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Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	



