

Specification for Information Technology and communications course 2025/2026

1-Basic information

1.	Course title	Information Technology and communications							
2.	Course code	GCC.003							
3.	Department offering the course	Department of Computer and communication science							
4.	Number of hours	Theoretical	1	Practical	0	Other	0	Total	1
5.	Course Type	√ Obligatory Elective							
6.	Level	3rd year							
7.	Semester	Fall semester							
8.	Academic program	Bachelor of veterinary medicine (BVM)							
9.	Faculty	Faculty of Veterinary medicine							
10.	University	Benha University							
11.	Name of course coordinator	Prof. dr.							
12.	Course Specification Approval Date	Faculty council/ 27-8-2025							
13.	Course Specification Approval (Attach the decision/minutes of the department /committee/council)	Department council/ 7/7/2025							

2-Course overview

- **Course contents written in the program bylaw:**
Artificial intelligence definition, internet, data bases, virtual society, cloud and large data.

3- Intended learning outcomes of the course (ILOs):

NARS ILOS			Course ILOS	
	Code	Text	Code	Text
Knowledge and understanding	2.1	Basic sciences of biology, chemistry, biophysics, genetics, biostatistics, computer science and veterinary terminology.	a1	Define the Artificial intelligence.
	2.15	Basics of social sciences, communication, and human rights.	a2	Recognize the internet & data bases.
			a3	Recognize the cloud and large data.
Intellectual skills	4.2	Assess and criticize, at the fundamental level, how data are derived.	b1	Understand, evaluate, and analyze the function of internet& data bases.
			b2	Evaluate the process and advantages of cloud and large data.
Practical skills	3.1	Employ all the gained knowledge and understanding in clinical practice in a skillful pattern	c1	Provide the function analysis of Artificial intelligence.
			c2	Create some applications related to the veterinary medicine.
General skills	5.1.	Work under pressure and / or contradictory conditions.	d1	Work under pressure during lab session
	5.5.	Search for new information and technology as well as adopt life-long self-learning ethics	d2	Search for new information and technology in field of computer
	5.6	Utilize computer and internet skills	d3	Utilize computer and internet skills, read paper via internet in field of computer

4- Teaching and learning methods					
Lectures	√	Discussion & seminar	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√
Others					

- Course contents:

Number of the Week	Scientific content of the course (Course Topics)	Expected number of the Learning Hours				
		Total Weekly hours	Theoretical teaching (lectures/discussion groups/)	Training (Practical/ Clinical/)	Self-learning (Tasks/ Assignments/ Projects/ ...)	Other
W1	Introduction	1	1	0		0
W2	Artificial intelligence 1	1	1	0		0
W3	Artificial intelligence 2	1	1	0		0
W4	Internet 1	1	1	0	Formative quiz	0
W5	Internet 2	1	1	0		0
W6	data bases 1	1	1	0		0
W7	Semester work (one hour exam)	-				
W8	data bases 2	1	1	0		0
W9	data bases 3	1	1	0	Formative quiz	0
W10	virtual society 1	1	1	0		0
W11	virtual society 2	1	1	0		0
W12	virtual society 3	1	1	0	Formative quiz	0
W13	cloud and large data 1	1	1	0		0
W14	cloud and large data 2	1	1	0		0
W15	Revision	1	1	0		0

5- Assessment timing and grading:

a- Assessment methods (summative and formative)

1. **Formative assessment:** including (weekly quizzes, homework assignments and surveys).
2. **Summative assessment** including (quizzes, class activities, semester work, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Timing	Grade	Percent
Semester work	7 th week	25	50%
Formative assessment	Throughout the semester	-----	-----
Written exam	End of semester	25	50%
Total		50	100.%

6- Learning resources and supportive facilities:

Learning resources	Main reference	Student handbook
	Essential books (text books)	<ul style="list-style-type: none"> • V. Rajaraman 2004, Introduction to Information Technology. • Mamta, 2022, Information and Communication Technology (ICT) Frameworks in Tele.
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> • www.ekb.eg
	Learning platform	Thinqi
Supportive facilities	Devices & instruments	<ul style="list-style-type: none"> • Equipped teaching hall. • Data show

Matrices:

A- Content and ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Introduction	a1	b2	c1	d1- d2- d3
Artificial intelligence	a1	b2	c1-c2	d1- d2- d3
Internet	a2-a3	b1-b2	c1- c2	d1- d2- d3
data bases	a2-a3	b1-b2	c2	d1- d2- d3
virtual society	a2-a3	b1-b2	c1- c2	d1- d2- d3
cloud and large data	a2-a3	b1-b2	c1- c2	d1- d2- d3

B- Teaching and learning methods and ILOs matrix:

Course ILOs		NARS ILOS	Teaching and Learning methods					
			L	P&M	D	P	Ps	Bs
Knowledge & understanding	a1	2.15	√	√	√			√
	a2		√	√	√			√
	a3		√	√	√			√
Intellectual skills	b1	4.5	√	√	√		√	√
	b2		√	√	√		√	√
Professional and practical	c1	3.1		√	√	√	√	
	c2			√	√	√	√	
General skills	d1	5.5	√		√		√	
	d2	5.3	√		√	√		
	d3	5.1			√	√		

L: Lecture, **P&M:** Presentations & Movies, **D&S:** Discussions & Seminars
PT: Practical, **Ps:** Problem solving, **Bs:** Brain storming

C- Assessment methods and ILOs matrix:

Course ILOs		NARS ILOS	assessment method				
			Formative assessment	semester	oral	Practical	Written
Knowledge & understanding	a1	2.1	√	√	√		√
	a2		√	√	√		√
	a3		√	√	√		√
Intellectual skills	b1	4.5		√	√		√
	b2			√	√		√
Social and practical	c1	3.1			√	√	
	c2				√	√	
General skills	d1	5.5			√	√	
	d2	5.3			√		
	d3	5.1			√		

Name and Signature
Course Coordinator
Prof. Dr.

Name and Signature
Program Coordinator

Prof. Dr. Mahmoud Abouelroos