

Specification for Biology course 2025/2026

1-Basic information

Biolog	Biology (Zoology)						
BIZ.11	BIZ.112						
Biology							
Lecture	1	Tutorial	0	Practic	1(2)	Total	2(3)
$\sqrt{\text{Core}}$ Elective							
First level							
Spring s	semeste	er					
Bache	olor of	Veterin	ary	medicine	e (BV	⁷ M)	
Veterin	nary me	edicine					
Benha University							
Prof. Dr. NASR ALLAH HASSAN. Faculty of science, Benha university							
Faculty council 27-8-2025							
Depart	ment co	ouncil 8/7	7/202	5			
	BIZ.11 Biolog Lecture √ Cor First lev Spring s Bache Veterir Benha Prof. Dr Faculty	BIZ.112 Biology Lecture 1 √ Core First level Spring semester Bachelor of Veterinary med Benha Univer Prof. Dr. NASR Faculty counce	BIZ.112 Biology Lecture 1 Tutorial √ Core Elective First level Spring semester Bachelor of Veterinary medicine Benha University Prof. Dr. NASR ALLAH H Faculty council 27-8-2	BIZ.112 Biology Lecture 1 Tutorial 0 √ Core Elective First level Spring semester Bachelor of Veterinary in Veterinary medicine Benha University Prof. Dr. NASR ALLAH HASSA Faculty council 27-8-2025	BIZ.112 Biology Lecture 1 Tutorial 0 Practic √ Core Elective First level Spring semester Bachelor of Veterinary medicine Veterinary medicine Benha University Prof. Dr. NASR ALLAH HASSAN. Faculty	BIZ.112 Biology Lecture 1 Tutorial 0 Practic 1(2) √ Core Elective First level Spring semester Bachelor of Veterinary medicine (BV) Veterinary medicine Benha University Prof. Dr. NASR ALLAH HASSAN. Faculty of scie Faculty council 27-8-2025	BIZ.112 Biology Lecture 1 Tutorial 0 Practic 1(2) Total √ Core Elective First level Spring semester Bachelor of Veterinary medicine (BVM) Veterinary medicine Benha University Prof. Dr. NASR ALLAH HASSAN. Faculty of science, Be Faculty council 27-8-2025

2-Course overview

• Course contents written in the program by law:

Classification of the Animal Kingdom; General Characteristics of Each Class.

3- Course Learning Outcomes CLOs

	(NAR	S) outcomes	Course outcomes		
	Code	Text	Code	Text	
Knowledge	2.1	Basic sciences of biology,	a1	Identify the plant and	
and		chemistry, biophysics, genetics,		animal kingdom.	
understanding		biostatics, computer science and	a2	Identify the basic	
		veterinary terminology.		knowledge about viruses	
			a3	Identify the basic	

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				knowledge about bacteria.
			a4	Describe fungi and Algae.
			a5	Describe gymnosperms and
				angiosperms.
Intellectual	4.2	Assess and criticize, at the	b1	Interpret prokaryotic and
skills		fundamental level, how data are		eukaryotic plants.
		derived.	b2	Interpret benefits of
				microorganisms, fungi and
				algae
			b3	Distinguish between
				microorganisms
Professional	3.1	Employ all the gained knowledge	c1	Examine prokaryote and
and practical		and understanding in clinical		eukaryote.
skills		practice in a skillful pattern.		
			c2	Examine different
				prokariotic
				microorganisms.
			c3	Investigate microorganisms.
General and	5.1	Work under pressure and / or	d1	Work under pressure during
transferable		contradictory conditions.		biology lab cession
skills	5.6	Utilize computer and internet	d2	Utilize computer and
		skills.		internet skills, read paper
				via internet about biology.

4-Teaching and learning methods						
Lectures	es $$ Discussion session $$ Practical					
Field visit		Research assignment	$\sqrt{}$	Case study		
Others	Interactive demonstration Interview or Role play					

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- Course Schedule:

***		Semester hours					
Week [W]	Topics	Lecture	tutorial	Laboratory [practical]	Others	Total	
W1	Introduction and plant and animal kingdom	1	0	1(2)	0	2(3)	
	Introduction and plant and animal kingdom	0	0		0		
W2	Properties and structure of viruses	1	0	1(2)	0	2(3)	
	Properties and structure of viruses	0	0	-	0		
W3	Types and life cycles of viruses	1	0	1(2)	0	2(3)	
	Types and life cycles of viruses	0	0	-	0		
W4	Properties and structure of bacteria	1	0	1(2)	0	2(3)	
	Properties and structure of bacteria	0	0	-	0		
W5	Reproduction of bacteria	1	0	1(2)	0	2(3)	
	Reproduction of bacteria	0	0	-	0		
W6	Properties and structure of cyanophyta	1	0	1(2)	0	2(3)	
	Properties and structure of cyanophyta	0	0	-	0		
W7	Semester work (one hour exam)						
11/0	Properties and structure of fungi	1	0	1(2)	0	2(3)	
W8	Properties and structure of fungi	0	0		0		
W9	Reproduction of some fungal species	1	0	1(2)	0	2(3)	
WY	Reproduction of some fungal species	0	0	1	0		
W10	Characters of archegoniate 1	1	0	1(2)	0	2(3)	
W 10	Characters of archegoniate 1	0	0		0		
W11	Characters of archegoniate 2	1	0	1(2)	0	2(3)	
W 11	Characters of archegoniate 2	0	0		0		
W12	Reproduction of archegoniata1	1	0	1(2)	0	2(3)	
VV 12	Reproduction of archegoniate 1	0	0		0		
W13	Reproduction of archegoniate 2	1	0	1(2)	0	2(3)	
	Reproduction of archegoniate 2	0	0		0		
W 14	Reproduction of archegoniate 3	1	0	1(2)	0	2(3)	

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	Revision	0	0		0		
W15	Practical exam						
	Total hours						

5- Methods of students' assessment

- 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	Assessment Timing (Week Number)	Marks/ Scores	Percent Percentage of total course Marks
Semester work including one hour exam	7 th week	10	10%
Practical exam	15 th week	30	30%
Formative assessment	Through semester		
oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Assignments / Project /Portfolio/ Logbook			
Field training			
Other (Mention)			
Total		100	100%

6- Learning resources and supportive facilities:

	Main	Department authorized book
	reference	Handout to student part by part
		Notes approved by department of biology
Learning		
resources		- Bharati Bhattacharya (2005) Systematic Botany.
	Essential	- Bharati Bhattacharya (2005) Systematic Botany
	books	
	(text	

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	books)	
		 Canadian Journal of botany.
	Periodical	www.scincedirect.com.
	s, Web	www.semeedirect.com.
	sites, etc	• <u>www.ekb.eg</u>
	Learning	Thinqi
	platform) A'
supportive facilities	Devices & instrumen	• Microscope
lacinues	ts	White board
	LS	Data show
		Laboratory
		Slide and paper projector
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Matrices:

A- Content and ILOs matrix:

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	b- Content-ILOs ma	trix					
	Course topics	Course ILOs					

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	Knowledge and understanding	Intellectual skills	Professional and practical skills	General and transferable skills
Introduction and plant and animal kingdom	a1	b1	c1	d1
Properties and structure of viruses	a2	b2,b3	c1,c2,c3	d1,d2
Types and life cycles of viruses	a2	b2,b3	c2,c3	d1,d2
Properties and structure of bacteria	a3	b2,b3	c2,c3	d1,d2
Reproduction of bacteria	a3	b2,b3	c2,c3	d1,d2
Properties and structure of cyanophyta	a4	b1,b2	c1,c2	d1,d2
Properties and structure of fungi	a4	b1,b2	c1,c2	d1,d2
Reproduction of some fungal species	a4	b1,b2	c1,c2	d1,d2
Properties and structure of algae	a4	b1,b2	c1,c2	d1,d2
Reproduction of some algal species	a4	b1,b2	c1,c2	d1,d2
Characters of archegoniata	a5	b1,b2	c1,c2	d1,d2
Reproduction of archegoniata	a5	b1,b2	c1,c2	d1,d2
Introduction and plant and animal kingdom	a1	b1	c1	d1,d2
Properties and structure of viruses	a2	b2,b3	c1,c2,c3	d1,d2
Types and life cycles of viruses	a2	b2,b3	c2,c3	d1,d2
Properties and structure of bacteria	a3	b2,b3	c2,c3	d1,d2
Reproduction of bacteria	a3	b2,b3	c2,c3	d1,d2
Properties and structure of	a4	b1,b2	c1,c2	d1,d2

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				of Calver.
cyanophyta				
Properties and structure of fungi	a4	b1,b2	c1,c2	d1,d2
Reproduction of some fungal species	a4	b1,b2	c1,c2	d1,d2
Properties and structure of algae	a4	b1,b2	c1,c2	d1,d2
Reproduction of some algal species	a4	b1,b2	c1,c2	d1,d2
Characters of archegoniata	a5	b1,b2	c1,c2	d1,d2
Reproduction of archegoniata	a5	b1,b2	c1,c2	d1,d2
Introduction and plant and animal kingdom	a1	b1	c1	d1

B- Teaching and learning methods and ILOs matrix:- Teaching and learning methods -ILOs matrix

Teaching and **ILOs** Learning methods L P&M D&S Ρ Ps Bs R&R a1 a2 а3 a4 a5 b1 b2 b3 Skills c2

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		c3	٧	٧	0	٧	٧	٧	0
,	Skills	d1	٧	٧	٧	٧	٧	٧	٧
	S	d2	0	0	0	٧	٧	٧	V

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

C- Assessment methods and ILOs matrix:

Assessment met	hods -ILO	s matrix											
ILOs			Assessment methods										
		Formative assessment	Semester work (1 hr exam)	Oral Exam	Practical Exam	Student activity	Semester Work						
Knowledge	a1	√		V									
and understanding	a2	√		V									
5	a3	V	$\sqrt{}$	V									
	a4	√	$\sqrt{}$	$\sqrt{}$									
	a5	√	$\sqrt{}$	$\sqrt{}$									
Intellectual	b1	√	$\sqrt{}$	$\sqrt{}$		V	$\sqrt{}$						
skills	b2	√	$\sqrt{}$	$\sqrt{}$		V	$\sqrt{}$						
	b3	√	$\sqrt{}$	$\sqrt{}$		V	$\sqrt{}$						
Professional	c1				V	V							
and practical skills	c2				V	V							
	c3				V	V							
General and	d1	V				V							
transferable skills	d2	√				V							

-Course coordinator:

Prof. Dr. NASR ALLAH HASSAN.

-Program coordinator: Prof. Dr. Mahmoud Abouelroos

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