

Specification for Biology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Biology Department, faculty of Science

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	General botany and zoology
2.	Course code	112(B) I
3.	Level	1 st year
4.	Semester	2 nd semester
5.	Total hours	3
6.	Lecture hours	1
7.	Practical hours	2

C-Professional Information

1- Course learning objectives

The objective of this course is to enable the students to know systematic position of prokaryotic and eukaryotic plants, prokaryotic –cell structure and function, groups of microorganisms and groups of eukaryotic plants.

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

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a1- Identify the plant and animal kingdom.
- a2- Identify the basic knowledge about viruses
- a3- Identify the basic knowledge about bacteria.
- a4- Describe fungi and Algae.
- a5- Describe gymnosperms and angiosperms.

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Interpret prokaryotic and eukaryotic plants.
- b2- Interpret benefits of microorganisms, fungi and algae
- b3- Distinguish between microorganisms

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Examine prokaryote and eukaryote.

c2- Examine different prokariotic microorganisms.

c.3- Investigate microorganisms.

d- General and transferable skills

After successful completion of the course the students should have the following skills

d1- Research skill.

d2- Team working skill.

d3- Ethical behavior, community linked thinking.

3- Course contribution in the program ILOs:

Course ILOS		Program ILOS
A	Knowledge and understanding	a ¹
B	Intellectual skills	-
C	Professional and practical skills	c ¹
D	General and transferable skills	d ^{1,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Introduction and plant and animal kingdom	1	2
Properties and structure of viruses	1	2
Types and life cycles of viruses	1	2
Properties and structure of bacteria	1	2
Reproduction of bacteria	2	4
Properties and structure of cyanophyta	1	2
Properties and structure of fungi	1	2
Reproduction of some fungal species	2	4
Properties and structure of algae	1	2
Reproduction of some algal species	2	4
Characters of archegoniata	1	2
Reproduction of archegoniata	1	2
Total	15	30

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) 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,d3
Types and life	a2	b2,b3	c2,c3	d1,d2,d3

cycles of viruses				
Properties and structure of bacteria	a3	b2,b3	c2,c3	d1,d2,d3
Reproduction of bacteria	a3	b2,b3	c2,c3	d1,d2,d3
Properties and structure of cyanophyta	a4	b1,b2	c1,c2	d1,d2,d3
Properties and structure of fungi	a4	b1,b2	c1,c2	d1,d2,d3
Reproduction of some fungal species	a4	b1,b2	c1,c2	d1,d2,d3
Properties and structure of algae	a4	b1,b2	c1,c2	d1,d2,d3
Reproduction of some algal species	a4	b1,b2	c1,c2	d1,d2,d3
Characters of archegoniata	a5	b1,b2	c1,c2	d1,d2,d3
Reproduction of archegoniata	a5	b1,b2	c1,c2	d1,d2,d3

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods								assessment method			
	L	P&M	D&S	P	Ps	Bs	R&R	midterm	practical	oral	written	
K and U skills	a1	x	x	x	x	x	0	x	x	x	x	
	a2	x	x	x	x	x	0	x	x	x	x	
	a3	x	x	x	x	x	0	x	0	x	x	
	a4	x	x	x	x	x	0	x	0	x	x	
	a5	x	x	x	x	x	0	x	0	x	x	
I skills	b1	x	x	x	x	x	0	x	0	x	x	
	b2	x	x	x	x	x	x	x	0	x	x	
	b3	x	x	x	0	0	0	x	0	x	x	
P and I skills	c1	x	x	0	x	x	x	0	0	x	0	
	c2	x	x	0	x	x	x	0	0	x	0	
	c3	x	x	0	x	x	x	0	x	x	0	
G skills	d1	x	x	x	x	x	x	0	0	x	x	
	d2	0	0	0	x	x	x	0	0	0	0	
	d3	x	x	0	x		x	0	0	x	0	

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

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes: Notes approved by department of biology

6.2- Essential books (text books)

- Bharati Bhattacharya (2005) Systematic Botany.

6.3- Recommended books

- Bharati Bhattacharya (2005) Systematic Botany

6.4- Periodicals, Web sites, . . . etc

- Canadian Journal of botany.
- www.sciencedirect.com.
- www.ekb.eg

7- Facilities required for teaching and learning

- Data show.
- Slide and paper projector.
- Laboratory
- White board

Course coordinator: Prof. Dr. NASR ALLAH HASSAN.

Head of department Prof. Dr. NASR ALLAH HASSAN

Date 1/10/2019