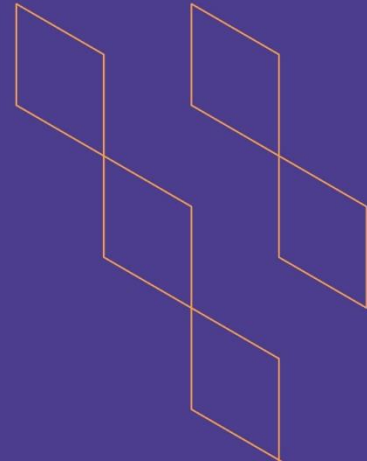




T-104
2022

Course Specification



Course Title:	Invertebrates
Course Code:	ZooL251-3
Program:	B.Sc. Biology
Department:	Biology
College:	Science
Institution:	Faculty of Science, Jazan University
Version:	<i>Course Specification Version Number</i>
Last Revision Date:	<i>Pick Revision Date.</i>



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A. General information about the course:

Course Identification	
1. Credit hours:	3
2. Course type TEACHING	
a. University <input checked="" type="checkbox"/>	College <input type="checkbox"/> Department <input type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 5 th level/ 2 nd year	
4. Course general Description	
5. Pre-requirements for this course (if any): None	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s)	

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	20/h	90.9%
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 	2h	9.1%
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	22
2.	Laboratory/Studio	22
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	44



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	Define all principals, concepts, theories and aspects concerning with invertebrate	K1.1	LECTURE	
1.2	Compare between different mechanisms, functions, practices and aspects related to invertebrate	K2.1	LECTURE	
...	Draw all systems, organs, cells and its contents diagrams and figures of invertebrate	K2.3	LECTURE	
2.0	Skills			
2.1	Examine theoretically or practically the sides, photos, diagrams or statements of invertebrate	S1.3	LECTURE	
2.2	Write a report about any practical or theoretical tasks related to invertebrate	S3.3	LECTURE	REASERCH
...				
3.0	Values, autonomy, and responsibility			
3.1	Illustrate awareness of risk assessment and safety observation when dealing with various equipment at various fields.	V2.1	LECTURE	LAB BOOK
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Terms and bases of classification of animal kingdom	1
2.	Subkingdom: Protozoa	3
3	Subkingdom Parazoa: Phylum Porifera	2
4	Subkingdom Metazoa: Phylum Cnidaria	2
5	Bilateria: Acoelomates: Phylum Platyhelminthes	2
6	Coelomates: Pseudocoelomates: Phylum Nematoda	2
7	Eucoelomates: Phylum Annelida	2
8	Eucoelomates: Phylum Arthropoda	4
9	Eucoelomates: Phylum Mollusca	2
10	Eucoelomates: Phylum Echinodermata	2
Total		22

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework assignment	2	5
2.	Practical quizzes	4	5
3.	Lecture Quizzes	6	5
4	Mid-term exam	8	10
5	Practical web-based assignment	9	5
6	Final practical exam	11	20
7	Final Exam	12	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	-Brusca, C.R., Brusca, G.J. and Haver, N.J. (2018) Invertebrates. Sinauer Associates; 2nd edition. 936 pages. -Hickman, C.P., C.P., Larson, A., Helen I'Anson, H., Keen, S.L., Roberts, L.S. (2014) Integrated Principles of Zoology. 16 th edition, McGraw Hill. London, New York
Supportive References	Wallace, R.L., Beck, D.E., Braithwaite, Water, K.T. (1996). Invertebrate Zoology: A Laboratory Manual. -Rupert, E.E. & Barnes, R.D. (1994) Invertebrate Zoology. Saunders College Pub.
Electronic Materials	Zoological record
Other Learning Materials	Media softwares



2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	2 Lecture rooms for a group of 30 students. 1 laboratory for a group of 15 students
Technology equipment (projector, smart board, software)	One computer laboratory for a group of 15 students.
Other equipment (depending on the nature of the specialty)	Light microscopes, slides, photomicrographs of the different phyla of invertebrates

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching		
Effectiveness of students assessment		
Quality of learning resources		
The extent to which CLOs have been achieved		
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Biology Department Board
REFERENCE NO.	BIO2214
DATE	20/9/2022AD

