



الجمهورية اليمنية  
وزارة التعليم العالي والبحث العلمي  
جامعة صنعاء  
كلية الطب البيطري

## Course Specification of Fish Breeding and Diseases

I. Course Identification and General Information:					
1	Course Title:	Fish Breeding and Diseases			
2	Course Number & Code:	PA575			
3	Credit hours:	C.H			Total
		Theoretical	Practical	Training	
		2	1		3
4	Study level/ semester at which this course is offered:	fifth year / first semester			
5	Pre –requisite (if any):	MI351, MI353, MI355, MI357			
6	Co –requisite (if any):	Non			
7	Program (s) in which the course is offered:	Bachelor of Veterinary medicine			
8	Language of teaching the course:	English / Arabic			
9	Location of teaching the course:	Faculty of Veterinary medicine			
10	Prepared by:	Professor. Dr. Fawzi Elsaqheer			
11	Date of approval:				

## II. Course description:

This course aims to provide the student with basic knowledge, concepts and information about infectious and non-infectious diseases in fish and the different and

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modern methods and their diagnosis, as well as identifying the natural composition of the fish body and the external characteristics and internal anatomy of fish species and identifying ways to care for fish in fish farming systems in ponds as well as the development and care of fish Decorations

### III. Intended learning outcomes (ILOs) of the course:

#### (A) Knowledge and Understanding:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.

Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding		Course Intended Learning Outcomes (CILOs) in: Knowledge and Understanding	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A3-	Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and life-threatening diseases of animals, poultry and fish.	a1	Explain the stress factors that cause infection in fish , understanding of different symptoms of fish and learn about fish diseases diagnosis and how to treat it.
A4	Describes the foundations and procedural steps for treating all diseases that affect different animals, highlighting the medical conditions that need surgical interventions.	a2	Discusses the principles and systems of fish culture and fish the care of aquarium

#### Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding	Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		▪ Written exam

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a1-	Explain the stress factors that cause infection in fish , understanding of different symptoms of fish and learn about fish diseases diagnosis and how to treat it.	<ul style="list-style-type: none"> <li>▪ Lectures using board, data shows and multimedia aids</li> <li>▪ Dialogue</li> <li>▪ Discussion</li> <li>▪ Brainstorming</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quizzes</li> <li>▪ Practical exam</li> <li>▪ Report Assignment</li> </ul>
a2-	Discusses the principles and systems of fish culture and fish the care of aquarium		

### (B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Intellectual Skills**

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) in Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>B1-</b>	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations that is related to sciences.	b1-	Competently practices analytical and compares similar diseases in fish.
<b>B2-</b>	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick animal.	b2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick fish

### Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:			
b1-	Competently practices analytical and compares similar diseases in fish.	<ul style="list-style-type: none"> <li>▪ Multimedia aids</li> <li>▪ Costs</li> <li>▪ Solving problems</li> <li>▪ Clinical and small group sessions</li> <li>▪ Brainstorm</li> </ul>	-Written exam
b2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick fish		- Practical exam
			-Oral exam
			- Quizzes
			- Report assignment
			- Performance evaluation

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			-Discussion
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### (C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Professional and Practical Skills**

Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-	Determines the pathogens on fish and It collects infected fish samples from ponds
C4-	Treat animal patients safely and effectively considering the evaluation of the results, the appropriate modification of the treatment plan and the accurate description of the appropriate medications.	c2-	Choose the right treatment type, and it measures the quality of water for fish farming

### Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Practical training on examples Field visits - Projects, tasks and costs	-Written exam - Practical exam -Oral exam - Quizzes - Report assignment - Performance evaluation -Discussion
c1-	Determines the pathogens on fish and It collects infected fish samples from ponds		
c2-	Choose the right treatment type, and it measures the quality of water for fish farming		

### (D) General / Transferable Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **General Transferable skills**

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Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.
D2-	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	d2	Works in normal conditions, crises and epidemics, alone and effectively within a medical team

### Teaching And Assessment Methods For Achieving Learning Outcomes

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods			
Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Self learning by preparing essay and presentations (computer and faculty library) -Scientific visits -Discussions -Assignments	- Achievement test -Evaluating student presentation -Practical examination - Report assignment - Discussion - note performance -
d1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.		
d2-	Works in normal conditions, crises and epidemics, alone and effectively within a medical team		

IV. Course Content:					
1 – Course Topics/Items:					
a – Theoretical Aspect					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction to diseases	a1,a2,b1,b2,c1,,c2	Definition of diseases and pathogens and definition of stress	1	2
2	Bacterial diseases	a1,a2,b1,b2,c1,,c2	Flexibacter columnaris,	1	2

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			Pseudomonas fluorescens ,Pseudmonas spp		
3	Bacterial diseases	a1,a2,b1,b2,c1,,c2	Entrwarsiella trade ,Vibrio anguillarum ,Aeromonas hydrophila ,Aeromonas salmonicida	1	2
٤	Viral diseases	a1,a2,b1,b2,c1,,c2	Infecious Pancreatic Necrosis(IPN), Spring Viraemia of carp, Channel catfish virus diseases	1	2
5	Parasitic diseases	a1,a2,b1,b2,c1,,c2	Protozoan diseases, Fish warms, Crustacean parasites	1	2
6	Fungal diseases	a1,a2,b1,b2,c1,,c2	Piscine mycoses, Saprolegnia, Aspergillomycosis	1	2
7	Non- infectious diseases	a1,a2,b1,b2,c1,,c2	Definition non-infectious diseases	1	2
8	Nutrition diseases	a1,a2,b1,b2,c1,,c2	Protein deficiency,Amino acid deficiency, fat deficiency	1	2
9	Nutrition diseases	a1,a2,b1,b2,c1,,c2	Vitamins deficiencies	1	2
10	Environmental diseases	a1,a2,b1,b2,c1,,c2	Water quality, Dissolved oxygen ,Ammonia toxicity	1	2
11	Pollution Diseases	a1,a2,b1,b2,c1,,c2	Degrdatable wastes, non-degrdatable wastes, Recovery zone	1	2
12	Prophylaxis and Therapy	a1,a2,b1,b2,c1,,c2	Exclusion, principles of Prophylaxis	1	2

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13	System of Fish culture in Arab Countries	a1,a2,b1,b2,c1,,c2	Extensive fish culture,semi---intensive fish culture, Intensive fish culture	1	2
14	Fish classification	a1,a2,b1,b2,c1,,c2	Types of fish culture in pond	1	2
<b>Number of Weeks /and Units Per Semester</b>				<b>14</b>	<b>28</b>

Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Fish Anatomy	a1,a2,b1,b2,c1,,c2	1	2
2	Fish Classification	a1,a2,b1,b2,c1,,c2	2	4
3	Methods of taking and storing fish samples	a1,a2,b1,b2,c1,,c2	1	2
4	Apparent examination of fish	a1,a2,b1,b2,c1,,c2	1	2
5	Diagnosis of injuries to fish	a1,a2,b1,b2,c1,,c2	1	2
6	Medicines and common compounds for fish treatment and methods of use	a1,a2,b1,b2,c1,,c2	1	2
7	Fish culture	a1,a2,b1,b2,c1,,c2	2	4
8	Water analysis in fish ponds	a1,a2,b1,b2,c1,,c2	1	2
9	visit to a fish farm	a1,a2,b1,b2,c1,,c2	2	4
10	Visit to the fish port	a1,a2,b1,b2,c1,,c2	1	2
11	Aquariums ornamental fish	a1,a2,b1,b2,c1,,c2	1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>14</b>	<b>28</b>

## V. Teaching strategies of the course:

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Lectures  
discussion  
Brainstorming  
Problem solving  
Simulation Method Practical presentations &  
(Lab works) Practical in computer Lab  
projects  
Self-learning  
Cooperative Learning  
Share experiences between colleagues

### 3-Assessment Methods:

## VI. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Participation and quizzes	1-12	10	10%	a1,a2,b1,b2,c1,,c2
2	Assignments	4-12	10	10%	a1,a2,b1,b2,c1,,c2
3	Mid-semester exam	8	20	20%	a1,a2,b1,b2,c1,,c2
4	Final Exam	16	60	60%	a1,a2,b1,b2,c1,,c2
	<b>Total</b>		<b>100</b>	<b>100%</b>	

## VII. Learning Resource (MLA style or APA style)S:

### Required Textbook(s) ( maximum two )

- دكتور عبد الحميد محمد عبد الحميد (١٩٩٤) الاسس العلمية لانتاج الاسماك ورعايتها - دار النشر للجامعات المصرية - مكتبة الوفاء - المنصورة - مصر

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	• Stephen.A.Smith (2019) Fish Diseases and Medicine . CRC Press
<b>Recommended Readings and Reference Materials</b>	
	الاستزراع المائي ٢٠٠٤ تأليف د.جيمس دايليو افولت ترجمة د. فيصل بخاري طبع في امريكا شركة ايه في ايه للطباعة والنشر
<b>Essential References</b>	
<b>Electronic Materials and Web Sites etc.</b>	
<b>Other Learning Material:</b>	
	-

<b>X. Course Policies:</b>	
1	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
2	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
4	<b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
5	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program
6	<b>Plagiarism:</b> Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	<b>Other policies:</b> 1.All devices must be on silent or at least on vibration during lectures/labs.

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2. Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room.
3. Any of type/ form of cheating is not allowed no matter what.
4. Maintain silence during lectures and disturbance is not allowed.

## Course Plan of Fish Breeding and Diseases.

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X. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Fawzi Hamood Mohammed Elsagheer	Office Hours					
Location & Telephone No.	Sanaa, 00967770665323	SAT	SUN	MON	TUE	WED	THU
E-mail	<a href="mailto:Fawzielsagheer@gmail.com">Fawzielsagheer@gmail.com</a>			10-11			

XI. Course Identification and General Information:						
1	Course Title:	Fish Breeding and Diseases				
2	Course Number & Code:	PA575				
3	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2	-	-	1	3
4	Study level/year at which this course is offered:	Level 5 / first semester				
5	Pre –requisite (if any):	MI351, MI353, MI355, MI357				
6	Co –requisite (if any):	Non				
7	Program (s) in which the course is offered	Veterinary medicine				
8	Language of teaching the course:	English / Arabic				
9	System of Study:	Two semesters / Year				
10	Mode of delivery:	Professor. Phd. Fawzi Elsagheer				
11	Location of teaching the course:					

II. Course Description:	

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This course aims to provide the student with basic knowledge, concepts and information about infectious and non-infectious diseases in fish and the different and modern methods and their diagnosis, as well as identifying the natural composition of the fish body and the external characteristics and internal anatomy of fish species and identifying ways to care for fish in fish farming systems in ponds as well as the development and care of fish Decorations

## II. Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

- a1- Explain the stress factors that cause infection in fish , understanding of different symptoms of fish and learn about fish diseases diagnosis and how to treat it.
- a2- Discusses the principles and systems of fish culture and fish the care of aquarium
- b1- Competently practices analytical and compares similar diseases in fish.
- b2- Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick fish
- c1- Determines the pathogens on fish and It collects infected fish samples from ponds
- c2- Choose the right treatment type, and it measures the quality of water for fish farming
- d1- Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.
- d2- Works in normal conditions, crises and epidemics, alone and effectively within a medical team

## V. Course Content:

### A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Introduction to diseases	1	2

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2	Bacterial diseases	2	2
3	Bacterial diseases	3	2
4	Viral diseases	4	2
5	Parasitic diseases	5	2
6	Fungal diseases	6	2
7	Non- infectious diseases	7	2
8	Mid-term exam	8	2
9	Nutrition diseases	9	2
10	Nutrition diseases	10	2
11	Environmental diseases	11	2
12	Pollution Diseases	12	2
13	Prophylaxis and Therapy	13	2
14	System of Fish culture in Arab Countries	14	2
15	Fish classification	15	2
16	Final exam	16	2
Number of Weeks /and Units Per Semester		16	32

b- Training Aspect:			
Order	Training Tasks	Week Due	Contact hours
1	Fish Anatomy	1	2
2	Fish Classification	2,3	4
3	Methods of taking and storing fish samples	4	2
4	Apparent examination of fish	5	2
5	Diagnosis of injuries to fish	6	2
6	Medicines and common compounds for fish treatment and methods of use	7	2
7	Mid-Term Exam	8	2

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8	Fish culture	9,10	2
9	Water analysis in fish ponds	11	2
10	visit to a fish farm	12,13	2
11	Visit to the fish port	14	2
12	Aquariums ornamental fish	15	2
13	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

#### V. Teaching strategies of the course:

Lectures  
discussion  
Brainstorming  
Problem solving  
Simulation Method Practical presentations &  
(Lab works) Practical in computer Lab  
projects  
Self-learning  
Cooperative Learning  
Share experiences between colleagues

#### VI. Assessment Methods:

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Present/Absent	All	10	10%
2	Class activities	All	10	10%
3	Midterm written Exam	7 <sup>th</sup>	20	20%

عميد مركز التطوير

وضمن الجودة  
أ.د. هدى العماد

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نائب العميد لشئون الجودة

د. عبدالرقيب الشامي

الموصف

رئيس الجامعة  
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أ.د. القاسم محمد عباس



الجمهورية اليمنية  
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4	Final Exam (theoretical)	16 <sup>th</sup>	60	60%
5	Total		100	100%

<b>II. Learning Resources:</b>	
1.	
<b>1- Required Textbook(s) ( maximum two ).</b>	
	<ul style="list-style-type: none"><li>دكتور عبد الحميد محمد عبد الحميد (١٩٩٤) الاسس العلمية لانتاج الاسماك ورعايتها - دار النشر للجامعات المصرية - مكتبة الوفاء - المنصورة - مصر</li></ul> <p>Stephen.A.Smith (2019) Fish Diseases and Medicine . CRC Press</p>
<b>2- Essential References.</b>	
	الاستزراع المائي ٢٠٠٤ تأليف د.جيمس دايليو افولت ترجمة د. فيصل بخاري طبع في امريكا شركة ايه في ايه للطباعة والنشر
<b>3- Electronic Materials and Web Sites etc.</b>	

<b>I. Course Policies:</b>	
1	<b>Class Attendance:</b> MANDATORY TO ATTEND ALL COURSE LECTURES
2	<b>Tardy:</b> Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures.
3	<b>Exam Attendance/Punctuality:</b> Attendance is mandatory; absence is accepted with valid excuse.
4	<b>Assignments &amp; Projects:</b> All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.
5	<b>Cheating:</b> Not tolerated and may lead to EXPELLING the student from the program
6	<b>Plagiarism:</b>

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	Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	<b>Other policies:</b> 1.All devices must be on silent or at least on vibration during lectures/labs. 2.Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. 3.Any of type/ form of cheating is not allowed no matter what. 4.Maintain silence during lectures and disturbance is not allowed.

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