

Course Description Form

1. Course Name:	
Fish disease	
2. Course Code:	
CVM5104	
3. Semester / Year:	
First semester / 2023-2024	
4. Description Preparation Date:	
20-2-2024	
5. Available Attendance Forms:	
5 th stage students	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60 hr. / 3	
7. Course administrator's name (mention all, if more than one name)	
Name: Assistant lecture Abbas Najm aldin Saleh Email: Abbasalbeaty@uokirkuk.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> ● Teaching the student the concept fish disease principles ● Knowledge, understanding and comprehension of the different disease ● To classify the theoretical for the development of learning and teaching the appropriate manner with the veterinary fish disease. ● Identifying the similarity and dissonance of the diseases in the different fish. ● Identify ,working& anatomic animal under different circumstances .
9. Teaching and Learning Strategies	
Strategy	<p>1- Methods of diction: a teacher who listens to the learners while they sit in front of him, they listen to him, and he must have the ability to indoctrinate and absorb information.</p> <p>2- Conversational methods: the teacher must possess a high scientific ability and the attendees have information on the topic of the discussion and dialogue.</p>

- 3- The discovery method: the teacher observes the activities of the learner conducting the experiments individually or collectively.
- 4- Active methods: the learner performs individual or group activities and teacher takes the learner's hand towards learning in practical life inside and outside the walls of the educational institution and to come into contact with vocabulary of practical life, which gives meaning to real learning.
- 5- Giving lectures using modern methods of presentation of power point top and scientific films.

10. Course Structure/ first semester

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Introduction in fish breeding diseases	Introduction Ichthyology and Pathology	Theoretical+practical	
2	4	External appearance for fish and anatomy		Theoretical+practical	
3	4	Physical and chemical property of pond water	Prevention and health control	Theoretical+practical	
4	4	Pond's designed		Theoretical+practical	
5	4	Fish feeding, breeding, and types of ponds	Infectious diseases	Theoretical+practical	
6	4	Sample taken and preservation		Theoretical+practical	
7	4	Practical tests and bacterial culture of fish		Theoretical+practical	
8	4	Mid-term exam.		Theoretical+practical	Theoretical (27) and practical (13)
9	4	Parasitic tests and diagnosis methods in fish	Parasitic diseases	Theoretical+practical	
10	4	Practical fish and field fish examination		Theoretical+practical	
11	4	Diagnostic and pathological slides show		Theoretical+practical	

12	4	Methods w practical apply		Theoretical+practical	
13	4	Practical work pathological samples diagnosis	Non infectio diseases	Theoretical+practical	
14	4	Pond's fertilization a it's methods		Theoretical+practical	
15	4	review		Theoretical+practical	
		Final exam.			Theoretical (40) and practical (20)

11. Course Evaluation

1. Semester and final theory exams by 100%
4. Learning triangle
5. Daily exams

12. Learning and Teaching Resources

Required textbooks (curricular books any)	Non
Main references (sources)	<ol style="list-style-type: none"> 1- Fish diseases and medicine , Steph A.Smith . 2- Fish disease diagnosis and treatment EDWARD J.NOGA . second edition . 3- The new illustrated guide to fish diseases ,Gerald Bassleer , third edition .
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Wikipedia

