

Suggested research topics

Winter semester of the academic year 2019/2020

Course name in Arabic: **علم البيئة السلوكي**

Course name in English: **Behavioural ecology**

Dr.: **Radi Ali Mohamed**

Level: **Three**

Department: **Aquaculture**

No.	Research title	Research items
1	Behavioural ecology between practices	1- Characteristics features that suit aquatic animals to their aquatic environment 2- The major goals of Fish Behavioural Ecology 3- The evolution of social organization 4- definitions of beh. Ecology and behaviour 5- Aims of beh. Ecology and behaviour
2	Mechanism of behaviour	1- stimuli and its classifications 2- factors affecting behaviour production 3- The mechanism of behaviour production
3	Fish adaptation	1- Homeostasis 2- Heat creation and heat loss 3- Natural habitat and fish adaptation 4- Types of adaptation 5- Fish adaptations to hostile environments
4	Inherited behaviour	1- Regulation roles of inherited behaviour 2- Components of inherited behaviour 3- Maintenance behaviour 4- Reproductive behaviour
5	Acquired behaviour	1- Habituation 2- Associative learning 3- Exploratory learning 4- Imprinting 5- Insight learning
6	Special behaviour of fish and stress	1- Fish Migration 2- Fish Aggression 3- Hiding Fish 4- Symptoms of stress 5- Causes of stress
7	Behavioural changes and problems in aquarium fish	1- Loss of Appetite 2- Difficulty Swimming 3- Surface swimming 4- Rapid and erratic swimming 5- Fighting or aggression between tank fish
8	Transportation of live fish	1- Factors affecting on fish transportation 2- The open system 3- The closed system 4- Management of fry during journey and after transportation 5- Golden recommendations during fish fry transportation

Course Instructor:

Name: Radi Ali Mohamed

Signature: Radi Ali Mohamed