

Suggested research topics

Winter semester of the academic year 2019/2020

Course name in Arabic:	علم الأسماك
Course name in English:	Ichthyology
Professor Dr.:	Malik Mohamed Elsayed Khalafalla
Level:	First
Department:	Aquaculture and Fish processing and Biotechnology

No.	Research title	Research items
1	<i>Introduction to taxonomy</i>	1- Taxonomy definition. 2- Taxonomists. 3- Modern classification. 4- Characteristics of Chordata. 5- Classification of Chordata.
2	<i>Vertebrata</i>	1- Introduction. 2- Characteristics of Vertebrata. 3- Classification of Vertebrates.
3	<i>Ichthyology</i>	1- Definition. 2- Specialized science in the study of fish. 3- Branching Science of the study of fish.
4	<i>General characters of fishes (1)</i>	1- Fishes are aquatic, Symmetry. 2- Coelom, Segmentation, Shape. 3- Colour, Size, Exoskeleton. 4- Fins, Tail, Endoskeleton.
5	<i>General characters of fishes (2)</i>	1- Digestive system, Respiratory system. 2- Circulatory system, Nervous system 3- Sensory organs, Excretory system. 4- Reproductive system 5- Electric organs
6	<i>Fish Taxonomy</i>	1- Class : Placodermi 2- Class : Chondrichthyes 3- Class : Osteichthyes

Course Instructor:

Name: Professor Dr.: Malik Mohamed Elsayed Khalafalla

Signature: *Malik M. Khalafalla*

No.	Research title	Research items
7	<i>The most important fish species in Egypt (1)</i>	1- Division of Fish. 2- Fish farms specifications 3-Freshwater fish in Egypt.(Carp fish) 4-Freshwater fish in Egypt.(Tilapia fish)
8	<i>The most important fish species in Egypt (2)</i>	1- Brackish water fish. 2- Mullet fish 3- Marine Fish 4- Sea bream, Sea bass 5- Common sole, Marled spinefoot
9	<i>Movement in Fish</i>	1- How do fish move? 2- Types of movement. 3-Fish Speed.
10	<i>Fish Migration</i>	1-Theories explain fish migration. 2-Factors stimulate fish to emigrate 3- Reasons for migration 4-Terminology on fish migration

Course Instructor:

Name: Professor Dr.: Malik Mohamed Elsayed Khalafalla

Signature: *Malik H. Khalafalla*