



Suggested research topics

Winter semester of the academic year 2019/2020

Course name in Arabic: بيولوجيا المصايد

Course name in English: Fisheries Biology

Dr.: Alaa Mahmoud El-Far

Level: Third Level

Department: Biotechnology and Fish Processing





No.	Research title	Research items
1	Fish identification	 Fish classification methods. Technical terms & measurements Fish morphometric Meristic equation How to identify new fish species
2	Fisheries Types	 Identification Industrial fisheries Artisanal fisheries Game fisheries Types of fisheries in Egypt
3	Fishing gears and Methods	 Fishing trail identification Active fishing gear Target species Static fishing gears Target species
4	Age determination in Fishes	 Mark- recapture method Length frequency method Hard structure method Time of annulus formation Back-calculation of length at age
5	Growth estimation in Fishes	 Length- weight relationship Condition factor von Beratanffy growth parameters and equation Growth performance
6	Fish reproduction	 Sex ratio variation Gonado- somatic index Hepato- somatic index Maturity stages Spawning season

Course Instructor:

Name: Alaa Mahmoud El-Far

Signature:

فللالهنك



Kafr El-Sheikh University Faculty of Aquatic and Fisheries Sciences Winter semester of the academic year 2019/2020



No.	Research title	Research items
7	Fish Fecundity	 Absolute and relative fecundity Ova maturation and diameter Fecundity- fish length relationship Fecundity- fish weight relationship Fecundity- fish age relationship
8	Fish Food and feeding habit	 Food items types Stomach fullness Gut content analysis Fish feeding habit Feeding intensity
9	Trophic level	 Aquatic food web and food chain Fish trophic levels Fishing gear catch trophic Total catch trophic Fishing impact in food web.
10	Fish population structure	 Length frequency distribution Length and age at first capture Mortalities rates Maximum and optimum length Length and age at recruitment Virtual population analysis
11	Stock assessment	 Concepts Stock biomass Dependent and in-dependent data Accuracy, precision and bias Yield and biomass per recruits
12	Fisheries management	 What is fisheries management Relation between stock assessment and resource manegment Fisheries issues identifications Fisheries management approaches Fisheries management measures

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