



Suggested research topics

Winter semester of the academic year 2019/2020

Course name in Arabic: التحليل الميكروبيولوجي للمياة ومياة الصرف

Course name in English: Microbiological analysis of water and waste

water

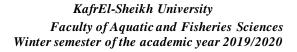
Dr.:Fatma Ali Abouelenien

Dr: Nagham Rafeek Ibrahim Elsaidy

Level: Two

Department: Department of Fish Processing and Biotechnology







No.	Research title	Research items
1	Self-purification of water bodies	1-Definition
		2-Mechanisms
		3-benifits
2	Point and non-point water pollution	1-definition
		2-sources
		3-diffrence
3	Organic and inorganic water pollution	1- definition
		2-sources
		3-diffrence
4	Eutrophication	1- definition
		2-causes
		3-effects
		4-how to treat
5	Importance of protozoa in water and wastewater treatment	1- The most important types
		2- The role of protozoa
		3-Mechanisms shared by
		protozoa
6	Bioaccumulation of water pollutants	1-defention
		2-mechanisms
		3-effect on environment and fish
7	Waste water treatment	1-difinition
		2-aim
		3-mechanism shared
		4-steps
8	Biological treatment of waste water	1definition
		2-aim
		3-mechanism shared
		4-steps

Course Instructor:

Name: Fatma Abouelenien



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



No.	Research title	Research items
9	Waste water as a water branch	1- What does wastewater mean? 2- What does wastewater contain?
		3- Where do we waste water?
		4- What are the types of waste water?
		5- What are the properties of waste water?
10	Water microbes of sanitary importance	1- Viruses
		2- Bacteria.
		3- Helminths 4- Protozoa
		5- Indicator organisms.
		1- Sources.
11	Human pathogenic viruses in the marine environment	2- Fate of viruses in marine water.
		3- Route of viruses' infection for human.
		4- Diseases caused by viruses' infection for human.
		5- Control of human pathogenic viruses .
12	Waste water as an ecological threaten	1- Ecological impacts 2- Air hygiene impacts
		3- Water hygiene impacts
		4- Soil impacts
		5- Aquaculture impacts
	Drinking water treatment plants	1- Benefits of drinking water treatment
		2- Drinking water treatment processes3- Differences between drinking water and waste
10		water treatments plants
13		4- Diagrammatic illustration of drinking water
		treatment plants
		5- Judgment on the efficiency of drinking water
		treatment processes. 1- Water sources for aquaculture
14	Water quality as a key for successful fish farming	2- Good water quality for fish
		3- Maintaining water quality for fish.
		4- Poor water quality impacts on fish
		5- Water quality guidelines for fish farming
15	Human bacterial water borne diseases	1- Types 2- Sources of bacterial infection
		3- Route of bacterial infection for human
		4- Diseases caused by bacterial infection for
		human
		5- Control of human bacterial infection via water
		pollution

Course Instructor:

Name: Nagham rafeek Ibrahim Elsaidy