

# **Course: Water Quality**

*for pre-master students*

*Environmental Sciences Department*

*Program of Environmental Quality Monitoring*

*2<sup>nd</sup>. Semester 2019-2020*

*Introduced by: Associate Prof. Dr. Khaled H. El-Ezaby*

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## **Course Contents:**

- 1) Drinking Water Standards, Regulations, and Goals.
- 2) Health and Aesthetic Aspects of Drinking Water.
- 3) Chemical Principles, Source Water Composition, and Watershed Protection.
- 4) Stages of Conventional and Modified Drinking Water treatment.
- 5) Physical & Chemical Treatment Methods of Water.
- 6) Water Desalination.
- 7) Case studies and Assignments.

## **Text Book and References:**

- 1) WATER QUALITY & TREATMENT, A Handbook on Drinking Water, James K. Edzwald, American Water Works Association, Mc Graw Hill Publication, Sixth Edition.
- 2) Hand Book of Water and Wastewater Treatment Technologies, Nicholas P. Cheremisinoff, Butterworth-Heinemann Publications, 1<sup>st</sup>. Edition.
- 3) Introduction to desalination technologies, Summary Report, Agricultural, Fishires and Forestry, Australia, 2012.
- 4) In addition, the students have given some case studies and examples regarding to control of water quality and drinking water treatment.

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