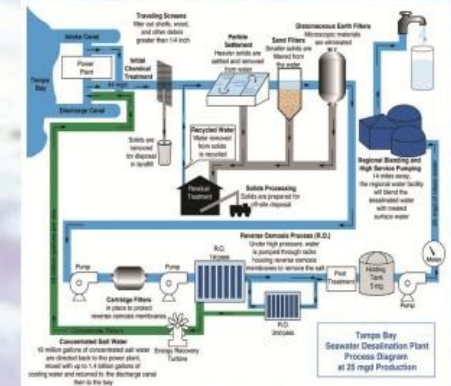
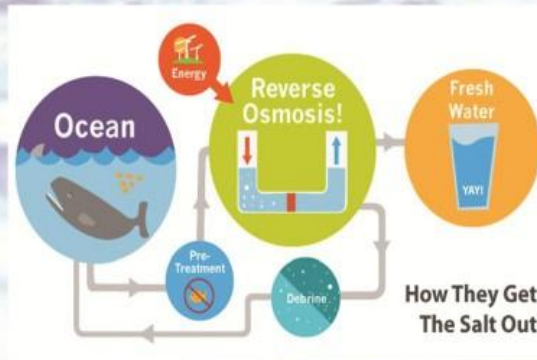
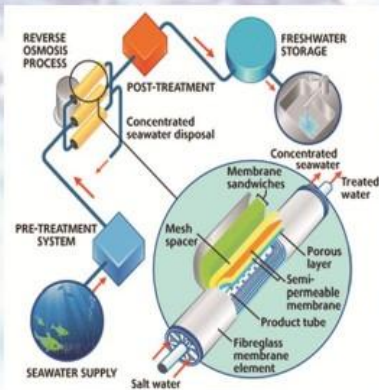


# Solar Desalination course

Under the supervision of  
**Prof. Dr. Helmi Gad**



The course period: 5 days 40 hours

Course contents ( Materials theory and practical training )



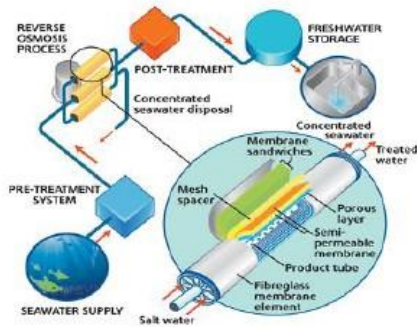
# **Solar Desalination course**

**Under the supervision of  
Prof. Dr. Magdy Abou Rayan**

**Prof. Dr. Helmy Gad**

**First session: Mansoura, Egypt**

**Second session: Sharm El-sheikh, Egypt**



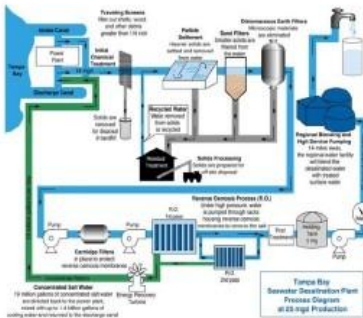
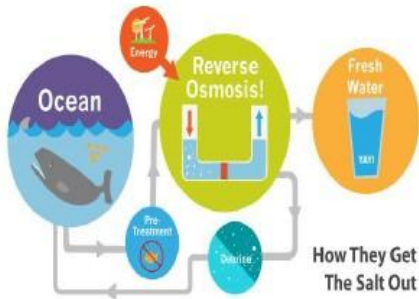
The topics include introduction to desalination technologies. The use of desalination technologies to supply fresh water in dry and arid regions.

The different thermal and membrane based systems will be presented. An over view will be presented on different thermal systems as, Multiple effect, flash desalination, and vapor compression. Also an introduction to membrane based technologies as Reverse Osmosis (RO) , will be presented. The potential of solar energy and its application in desalination will be introduced.

The courses will describe the different aspects of solar energy applications In desalination, the basic roles of selection and installation.

An approach to the economic evaluation of desalination systems selection and operation will be presented.

The objectives of the courses are to provide a theoretical basis and practical information solar desalination systems selection and operation with emphasis on the economical side of selection and operation.



➤ **Who should attend:**

- Decision makers involved in infrastructure development in arid and isolated areas.
- Engineers and technician starting their carrier in desalination.
- Engineers and technician involved in operation & maintenance of desalination plants.
- Engineers involved in desalination systems selection and bids evaluation.

## Venues:

**Mansoura University**

**Faculty of Engineering**

**Mansoura, Egypt**

**Tel/fax: +20 502202464**



**Sham El-sheikh, Sporting  
Club, Sham El-Sheikh, Egypt**

**Tel/fax: +20 69 3660450**