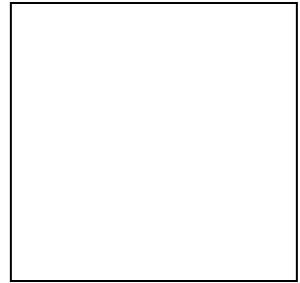


Lecturer Hala Naseer Abdulkareem Ali

Department of Petroleum and Gas refinery engineering

Doctorate in environmental engineering

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Education:

PhD, University of Baghdad Year 2019

MSc, University of Baghdad Year 2013

BSc, University of Baghdad Year 2010

Profile:

After studying for a master's degree in environmental engineering, I went to study books on water treatment and disposal of the dangerous environmental effects of pollutants. Then I decided to study for a doctorate at the University of Baghdad in environmental engineering.

I worked on design a treatment unit project for water treatment in Dora refinery.

Teaching

- **Fluid flow I**
- Define fluid properties, stresses in fluids at rest and in motion and types of fluid flows, application of Newton law of viscosity and dimensional analysis methods.
- **Fluid flow II**
- Application of Bernoulli's equation and derive the flow rate equations and explain the principles of flow measuring devices in open and closed channels.
- **Environmental pollution and safety in petroleum refineries**
- Definitions of pollutants emission from petroleum refinery. Classification of air pollutants, Sources and type of air pollution, Particulate and air born particulate. Air pollution control equipment: types of equipment, Design of settling chamber and cyclones.
- **Mechanics**
- Principles of statics, Resultant of a force system, Equilibrium of a force system, Moment of a force, Friction, Centroid and center of gravity, Moment of inertia, Analysis of internal force, Strain, Stress-strain diagram, Hook's law, Shearing deformation, Poisson's ratio, Volumetric strain, Thin-walled cylinders, Thermal stress, Shear and bending moment in beam.

Research Focus

Pollution management and improve new application for pollutant removal

Publications

- Ismail, Z.Z., AbdelKareem, H.N. "Sustainable approach for recycling waste lamb and chicken bones for fluoride removal from water followed by reusing fluoride-bearing waste in concrete". *Waste management* 2015 Nov;45:66-75.
- Ismail, Z.Z, Abdlekareem, H.N. "Uptake of fluoride from water using recycled raw beef bone as an environmentally friendly waste". *Journal of Engineering Dece.* 2013 19.
- Alwared, A.I. Abdulkareem, H.N. "Immobilizaton Dried Mix of Algae for Copper Removal". *Iraqi Journal of Agricultural Sciences* 2019. 50-3 p 800-808.
- Abdelkareem,H., Alwared, A., Al-Musawi, T.J., Brouersm F. "A comparative study for the identification of superior biomass facilitating biosorption of copper and lead ions: a single alga or a mixture of algae". *International Journal of Environmental Research* 13 (3), 533-546.
- Alwared, A.I. Abdulkareem, H.N. "Performance of Immobilized Chlorella Algae for Removing pb (II) Ions from Aqueous Solution" *Iraqi Journal of Chemical and Petroleum Engineering* 20 (3), 1-6.