**المدرس الدكتور هالة نصير عبد الكريم علي الطويل**

A person wearing a pink scarf

Description automatically generated

**قســـم هندسة الهندسة البيئية جامعة بغداد**

**دكتوراه هندسة بيئية**

**الايميل: halaaltaweel06@gmail.com**

**الشهادات العلمية**

**الدكتوراه ، جامعة بغداد ، السنة 2019**

**الماجستير، جامعة بغداد ، السنة 2013**

**البكلوريوس، جامعة بغداد ، السنة 2010**

**التاريخ الوظيفي**

**-التدريس بكلية الفارابي الجامعة عام 2020 وحتى عام 2023 في قسم هندسة تكرير النفط والغاز.**

**-التدريس في قسم الهندسة البيئية جامعة بغداد من 2023 وحتى الوقت الحاضر**

**بعد دراسة الماجستير في الهندسة البيئية، اتجهت الى دراسة كتب الخاصه بلمعالجت المياه والتخلص من التأثيرات البيئية الخطيرة للملوثات. ثم قررت دراسة الدكتوراه في جامعة بغداد الهندسة البيئية.**

**كذلك عملت مشروع عن تصميم محطة معالجة للمياه الملوثة لمصفى الدورة.**

**التدريـــس**

* **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.
* **Physics**
* Introduction to mechanics (statics and dynamics). Systems of forces. Equilibrium of forces. Vector quantities. moment of forces. linear motion. Force and motion. Work and energy. momentum. Rotational motion . Temperature and heat. change in phase. Heat transfer.

**الاهتمام البحثــي**

**معالجة ملوثات ودراسة استخدام مواد جديدة لازالة التلوث وتطويرها**

**المنشــورات العلميــة**

* 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](https://scholar.google.com/scholar?oi=bibs&cluster=7135858881079784193&btnI=1&hl=en)"**.** *Journal of Engineering*Dece. 201319**.**
* Alwared, A.I. Abdulkareem, H.N. "[Immobilizaton Dried Mix of Algae for Copper Removal](https://www.researchgate.net/profile/Abeer-Alwared/publication/336669188_IMMOBILIZATION_DRIED_MIX_OF_ALGAE_FOR_COPPER_REMOVAL/links/5dab0aa24585155e27f6e6f0/IMMOBILIZATION-DRIED-MIX-OF-ALGAE-FOR-COPPER-REMOVAL.pdf)". *Iraqi Journal of Agricultural Sciences* 2019. 50-3 p 800-808.
* Abdelkareem,H., Alwared, A., Al-Musawi, TJ., 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](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=fbqi5VoAAAAJ&citation_for_view=fbqi5VoAAAAJ:ULOm3_A8WrAC)". 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](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=fbqi5VoAAAAJ&cstart=20&pagesize=80&citation_for_view=fbqi5VoAAAAJ:qxL8FJ1GzNcC)" Iraqi Journal of Chemical and Petroleum Engineering 20 (3), 1-6**.**
* Arwa R. Ibrahim; Zainab H. Razooki; Hala N. Abdelkareem “Hydrodynamic of liquid circulation in closed airlift reactor photobioreactor: Optimization of draft tube geometry”

AIP Conference Proceeding 2787,090051 (2023). July 14 2023.