

Assist. Lecturer Marwa Hassan Ibrahim Al-Bayati



Department of Petroleum

Master in chemical engineering

Email: marwa.hussein@alfarabiuc.edu.iq

Education:

MSc, University of Al-Nahrain , Year: 2016

BSc, University of Al-Nahrain , Year: 2013

Profile:

Master in chemical engineering / electrochemical reactors

Teaching

Static and dynamic / 1. To develop an understanding of the fundamentals and principles of engineering mechanics: statics and dynamics of particles and rigid bodies in two and three dimensions including: kinematics and kinetics of particles and rigid bodies in 2D and 3D motion, rotations, translations, oscillations.

2. Learn to solve equilibrium of rigid bodies including the calculations of moment of force, inertia moments of solid bodies, and basic structural analysis, and be able to determine the requirement for the equilibrium of particles and solid bodies.

3. To develop the ability to apply Newtonian mechanics to model and predict the responses of simple dynamical system (particle and rigid body) subjected to applied forces, and To develop problem solving skills in engineering mechanics through the application of concepts in statics and dynamics to complex problems

Petroleum properties / Evaluation of crude oil and its derivatives for the purposes of use and export, determining the percentage of impurities and the best conditions for storing and transporting oil, and determining the quality of the oil derivative by checking standard tests through which the most important characteristics of oil are identified.

Research Focus

Electrochemical reactors and mass transfer which are useful in the purification process of water

Publications

- Determination of Mass Transfer Coefficient for Copper Electrodeposition by Limiting Current Technique

<https://www.semanticscholar.org/paper/Determination-of-Mass-Transfer-Coefficient-for-by-Ibrahim-Najim/1f60ca479e1b31f4fd173c1a68c8e588290faa95>

- Experimental Investigation of Mass Transfer for Copper Reduction by Weight Difference Technique

<https://ijcpe.uobaghdad.edu.iq/index.php/ijcpe/article/view/237>