

Assist. Lecturer Reem Mudar Hussien Ali

Department of Civil Engineering

Email: reem.mudher@alfarabiuc.edu.iq

Education: Msc, University of Baghdad, 2016.

Bsc, University of Baghdad, 2013.



Profile:

In 2016, I was one of the faculty members at the University of Baghdad / College of Science / Department of Mathematics ; then in 2017 until now I'm one of the faculty members at Al-Farabi University College/ Civil Engineering Department , and during these years I taught different subjects :

- **Mathematics I (Calculus)**
- **Mathematics II (Advanced engineering Mathematics)**
- **Topology**
- **Engineering analysis and differential equations**
- **Engineering Statistic**
- **Application of Computer**

Teaching

- **Mathematics I (Calculus)**
- **Mathematics II (Advanced engineering Mathematics)**

Research Focus

- **Mathematical Modeling.**
- **Mathematical Epidemiology and Ecology.**
- **Modeling and Analysis of Dynamical System.**
- **Stability Theory.**
- **Bifurcation Theory.**

Publications

- 1- **R. K. Naji and R. M. Hussien, The Dynamics of Epidemic Model with Two Types of Infectious Diseases and Vertical Transmission, Journal of Applied Mathematics, Vol. 2016, No. 4907964, (2016).**

- 2- Al-Jubouri, Karrar Q., Hussien, Reem M., and Nadia MG Al-Saidi. "The effect of harvesting policy on an eco- epidemiological model." AIP Conference Proceedings. Vol. 2183. No. 1. AIP Publishing LLC, (2019).
- 3- Al-Jubouri, Karrar Q., Hussien, Reem. M., and Al-Saidi, N. M. "Modeling of an Eco-Epidemiological system Involving Various Epidemic Diseases with Optimal Harvesting". Eurasian Journal of Mathematical and Computer Applications, 8(2),(2020).
- 4- Hussien, Reem. M, Al-Jubouri, Karrar Q., and Al-Saidi, N. M. "Global Stability Analysis and Persistence for an Ecological Food Web- Model". Italian Journal of Pure and Applied Mathematics. N. 45,(2021).
- 5- Hussien, Reem M., Karrar Q. Al-Jubouri, and Mohaimen Al Gburi. "Computer Vision and Image Processing the Challenges and Opportunities for new technologies approach: A paper review." Journal of Physics: Conference Series. Vol. 1973. No. 1. IOP Publishing, 2021.