



Kafrelsheikh University
Faculty of science
Mathematics Department

2019 - 2020
Second Level "Chemistry"
Subject: Biomathematics

Suggested research topics

- 1- Using Data to Formulate Mathematical Model for Population Growth**
- 2- The Logistic Model**
- 3- Analyzing Equilibrium States**
- 4- The Verhulst Model for Discrete Population Growth**
- 5- Modeling Physiological Mechanisms of Drug Elimination**
- 6- Infectious Disease**
- 7- The Spread of an Epidemic**
- 8- Phase Plane Analysis**
- 9- Predator-Prey Interactions**
- 10- Limit cycles, Oscillations and Excitable systems**

Dr.Mohamed Khalifa