

Workshop: Lectures on Mathematical Modeling

Wednesday, 28 May 2014 - Tuesday, 10 June 2014

KNUST

Scientific Programme

Week 1

Introduction to Mathematical Biology

Introduction to Mathematical Modeling

Single Species Modeling

Two Species Modeling

Week 2

Discrete Nonlinear Models

Nondimensionalization of models and model Analysis

Behaviour of Solutions - steady state and stability analysis

Week 3

Phase Plane Analysis

Limit cycle solutions of the models

Turning Instability of models

Travelling wave solution of the models