

Mathematical Modeling Workshop by NYU

Meeting Agenda

Date : Friday 2nd - Sunday 4th
February 2024

Location : Emirates Aviation University

Friday 2nd

9:00 am - 1:00 pm

Understanding Data Through Modelling

- Introduction to disease outbreak data
- Scientific computing introduction and review

Compartmental Models

- Infectious disease dynamics of the SIR model
- Uncovering the basic reproductive number

Fitting Models to Data

Sunday 4th

10:00 am - 2:00 pm

- Paper Writing
- Grant Writing
- Group Project Presentations

Saturday 3rd

10:00 am - 2:00 pm

Modeling Interventions

Group Projects

- Extending the SIR model to include other details
 - Other pathogens and diseases
 - Stochasticity and randomness
 - Structured populations

