



- State space analysis

### **Initial competences**

### **Final competences**

- 1 Demonstrate an understanding of the underpinnings of statistical inference.
- 2 Apply R programming skills.
- 3 Describe the theory of population dynamics.
- 4 Develop and apply advanced statistical models to population dynamics data.
- 5 Draw inference from population dynamics.
- 6 Describe Bayesian inference as applied to population dynamics.

### **Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

### **Conditions for exam contract**

This course unit cannot be taken via an exam contract

### **Teaching methods**

Seminar

### **Extra information on the teaching methods**

This module utilises a case study approach, seminal research papers are evaluated and discussed by the learners. This module also uses a role play component where learners must adopt a viewpoint supported by available evidence in debate with their peers tasked with holding opposite viewpoints

### **Learning materials and price**

none

### **References**

Journals and other module material will be placed on moodle by the module co-ordinator

### **Course content-related study coaching**

Students experiencing difficulties should engage with course staff, or academic support units within GMIT

### **Assessment moments**

continuous assessment

### **Examination methods in case of periodic assessment during the first examination period**

### **Examination methods in case of periodic assessment during the second examination period**

### **Examination methods in case of permanent assessment**

Assignment

### **Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible in modified form

### **Calculation of the examination mark**