

Learning objectives

Week 1

Week 2

Week 3

Week 4

Week 5

Myplace quiz on previous material

Lecture 1: Risk analysis introduction

LO 1 & 6

Lecture 2: Simulation of random variables

LO 4

Lecture 3: Simulation cont.

LO4 & 5

Lecture 4: Uncertainty & Variability

LO 2

Feedback/catch up lecture

Lecture 5: Bayesian

LO3

Lecture 6: Bayesian

LO 3

Lecture 7: Bootstrap

LO 3

Feedback/catch up Lecture

LO 1: understand what is meant by risk and why we want to quantify it

LO 2: appreciate the difference between uncertainty and variability

LO 3: use bootstrapping and Bayesian inference to quantify uncertainty

LO 4: fit appropriate probability distributions to data

LO 5: build risk analysis models, by writing functions in R

LO 6: appreciate the importance of, and problems with, good communication of results

Tutor feedback on practical 1

Tutor feedback on practical 2

Tutor feedback on practical 3

Tutor feedback on practical 4

Tutor feedback on practical 5

Problem based practical 1
LO 1, 4, 5

Problem based practical 1
LO 1, 4, 5

Problem based practical 2
LO 1,2,4,5, 6

Problem based practical 3
LO 1,2,4,5

Project Practical

Project Practical

Problem based practical 4
LO 1,3,4,5

Problem based practical 5
LO 1,3,4,5

Practice group assignment based on practical 2
LO 1,2,4,5,6

Group assignment
LO 1,2,4,5,6

Lab based Class test
LO 1-5

Formative peer feedback on practice assignment

Formative tutor Feedback on group assignment

Anonymous student questionnaire and free text feedback on course