

# POSTGRADUATE DIPLOMA IN MATHEMATICAL MODELLING AND MACHINE LEARNING

---

## Programme Learning Outcomes

Programme Learning Outcomes for Postgraduate Diploma in  
Mathematical Modelling and Machine Learning (NFQ Level 9, Major  
Award)

On successful completion of this programme, students should be able to:

- Apply the basic concepts, theories, principles and practical methods of mathematical modelling and machine learning to analyse and solve theoretical and practical problems;
- Give clear and organized written and verbal explanations of ideas in the areas of mathematical modelling and machine learning;
- Critically discuss and evaluate the concepts and examples in several areas of mathematical modelling and machine learning;
- Use the given course materials and computer code to solve problems;
- Contribute effectively as members of project teams dealing with mathematical models and their computer implementation, including the delivery of oral presentations and written reports.