

# BSC (HONS) MATHEMATICAL SCIENCES AND PHYSICS

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## Programme Learning Outcomes

Programme Learning Outcomes for BSc (Hons) Mathematical Sciences and Physics (NFQ Level 8, Major Award)

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

- Apply their knowledge and understanding of the basic concepts, theories, principles and methods of mathematical sciences to analyse and solve problems of a mathematical nature;
- Demonstrate mastery of the core concepts of several areas of mathematical sciences and recognise the interdependency of different areas;
- Communicate with researchers of diverse scientific backgrounds and disciplines, contributing to formulation, testing and verification of mathematical models and solution of science problems by methods of mathematics;
- Identify, formulate, analyse and solve physics problems;
- Design an experiment to test a hypothesis or theory in physics;
- Prepare written laboratory reports that provide a description of the experiment, explain the experiment and reasoning clearly, and provide an appropriate conclusion.