

MSc in Mathematics for Educators
Program Intended Learning Outcomes (PILOs)

Program Objectives

The MSc in Mathematics for Educators (MAED) is to enrich a mathematics educator's knowledge of mathematics. It will particularly benefit teachers in secondary schools and tutorial educational institutions. The degree is meant to allow these teachers to enhance their mathematical knowledge and teaching skills with the dual benefit of: (i) Career advancement facilitation of the individual, and (ii) Better teachers for society.

PILOs

Upon successful completion of the program, students should be able to:

1. Explain fundamental notions that underline the main areas of pure and applied mathematics and statistics.
2. Explain the role of proof in mathematics.
3. Explain examples of important applications of mathematics.
4. Explain to secondary school students the connection between the basic mathematics taught in secondary schools and more advanced mathematics.
5. Use problem solving pedagogically as a way to increase student understanding and engagement in secondary schools.
6. Independently investigate additional areas of mathematics and its applications.