LEBANESE INTERNATIONAL UNIVERSITY

Major Title: Master of Science in Applied Mathematics
Major Code: MMTH
Level: graduate
Number Of Credits: 36
Date: 30-09-2026

Master of Science in Applied Mathematics (MMTH)

Program Objectives

Objective	Description
PO-1	Provide students with advanced and specialized knowledge in mathematics.
PO-2	Develop students' capacity for rigorous mathematical reasoning, critical thinking, and advanced problem solving.
PO-3	Prepare students to address theoretical and applied problems through mathematical, numerical, and computational approaches.
PO-4	Prepare students for independent research, doctoral studies, and professional development in mathematics and related fields.
PO-5	Develop students' capacity to communicate mathematical knowledge and research effectively.

Program Learning Outcomes

Outcome	Description
PLO-1	Analyze mathematical concepts, structures, and relationships in fundamental and specialized areas.
PLO-2	Construct rigorous mathematical arguments and proofs using advanced reasoning.
PLO-3	Solve theoretical and applied mathematical problems using appropriate methods and models.
PLO-4	Evaluate mathematical, numerical, and computational methods for solving problems.
PLO-5	Design innovative mathematical approaches and models for advanced theoretical and applied problems.
PLO-6	Conduct mathematical research using appropriate methodologies and scholarly resources.
PLO-7	Communicate mathematical concepts, methods, and research findings effectively in written and oral forms.