

Matrix of Learning Outcomes for the Study Program with Subjects – Procedures for preparing and updating the study plan/ Department of Mathematics – Master Program	QF01/0414-3.0
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<b>Faculty</b>	Faculty of Science and Information Technology	<b>Department</b>	Mathematics	<b>Specialization</b>	Mathematics
<b>Study Plan No.</b>	2023–2022	<b>Accreditation date</b>	2022/6/9	<b>The number of program courses</b>	16

Note: This form is for specialty courses only.

The objectives and learning outcomes of the program as stated in the study plan model.

### Knowledge

MK1	Knowledge of the main concepts in pure mathematics.
MK2	Knowledge of the main concepts in applied mathematics.
MK3	Explain concepts, principles and theories in the fields of probability and statistics.
MK4	Possession of technological culture related to the fields of mathematics and its applications.

### Skills

MS1	Making use of mathematical logic in practical life.
MS2	Engaging scientific methodology as a way of thinking and as a tool in facing problems.
MS3	Applying mathematical software packages in problem solving.
MS4	Being capable of data analysis.
MS5	Develop creative and innovative methods of teaching mathematics.

### Competences

MC1	Showing the ability to work under ethical and professional standards within teams.
MC2	Gaining critical thinking and scientific research skills.

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Notes: The learning output number is defined by two digits, the first indicates the target number, and the second number indicates the learning output sequence for each objective.

This form is used exclusively for subjects bearing the specialization number.

Program learning outcomes											Course name	Course No.
MC2	MC1	MS5	MS4	MS3	MS2	MS1	MK4	MK3	MK2	MK1		
	✓		✓	✓	✓	✓	✓	✓	✓	✓	Real Analysis	0101711
✓					✓	✓	✓		✓		Abstract Algebra (1)	0101721
✓					✓	✓	✓		✓		Topology (1)	0101731
✓	✓			✓	✓	✓		✓	✓	✓	Applied Mathematics (1)	0101741
✓	✓			✓	✓	✓		✓	✓	✓	Mathematical Statistics	0101751
✓	✓				✓	✓		✓	✓	✓	Scientific Research Methodology	0101772
✓	✓				✓				✓	✓	Functional Analysis	0101341
✓	✓				✓	✓		✓	✓	✓	Complex Analysis	0101442
	✓		✓	✓					✓	✓	Mathematical Optimization	0101273
✓					✓	✓	✓		✓		Abstract Algebra (2)	0101231
✓				✓		✓				✓	Selected Topics in Mathematics	0101212
✓					✓	✓	✓		✓		Topology (2)	0101322
✓	✓			✓	✓	✓		✓	✓	✓	Applied Mathematics (2)	0101323
✓	✓			✓	✓	✓		✓	✓	✓	Probability Theory	0101424



جامعة الزيتونة الأردنية  
Al-Zaytoonah University of Jordan  
كلية العلوم وتكنولوجيا المعلومات  
Faculty of Science and IT



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"Tradition and Quality"

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✓	✓		✓	✓				✓	✓	✓	Advanced Numerical Analysis	0101370
✓	✓				✓	✓		✓	✓	✓	Research Project	0101791

Approved by the Study Plan Committee	2022-11-13	Committee meeting No.	2
Approved in the department meeting No		Meeting date	
Department head signature		College Dean's signature	