

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



" عراقة وجودة" "Tradition and Quality"

Study Plan for Bachelor program - Study Plan Development and Updating Procedures/ Mathematics Department QF01/0407-4.0E

Course Plan for Mathematics (Bachelor Program) No.: (2021-2022)								
Approved by Deans Council by decision (09/19/2020-2021) dated (28/7/2021)								
( <b>133</b> ) Cro	edit Hours	Study system / hybrid program						
Type of specialty	Humanitarian	✓ Scientific /	Medical					
		technical	Sciences					

Teaching style	Percentage of study plan hours / number	Model used (synchronous: asynchronous)		
Complete e-learning courses	10% - 20% Maximum / number( ) C h	2:1 (For SUN. TUE. THER) or 1:1 (for MON. WED.)		
Blended Learning courses (For Humanity)	40% - 60% Maximum / number( ) C h	2:1 (For SUN. TUE. THER) or 1:1 (for MON. WED.)		
Blended learning courses (for scientific and medical)	30% -50% Maximum / number () C h	2:1 (For SUN. TUE. THER) or 1:1 (for MON. WED.)		
Traditional learning courses (for humanity)	20% Minimum / number () C h	3:0 For all academic divisions		
Traditional learning courses (for scientific and medical)	30% Minimum / number () C h	3:0 For all academic divisions		

Important note: (The teaching patterns of the subjects are distributed at all academic levels in the program)

**Program vision** Providing students with the necessary knowledge, skills and competencies in various fields of mathematics through the use of modern teaching and learning strategies and the use of various means of technology.

## Program mission and objectives:

- 1. Provides students with the basic concepts in mathematics.
- 2. Provides students with knowledge in the various mathematical fields.
- 3. Provides students with sufficient proficiency in technology.
- 4. Enhances the student's teaching skills for their school teaching careers.
- 5. Preparing graduates with various skills needed for scientific research and for competency in different fields of work.

Program learning outcomes ((MK= Main Knowledge, MS= Main Skills, MC= Main Competences)

	Main knowledge							
MK1	0							
MK2								
MK3								
MK4								
	Basic skills							
MS1	Making use of mathematical logic in practical life.							
MS2	2 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	Capability of teaching according to modern educational techniques.							
MS6	Develop creative and innovative methods of teaching mathematics.							
	General competencies							
MC1	Showing the ablity to work under ethical and professional standards within teams.							
MC2	Gaining critical thinking and scientific research skills.							



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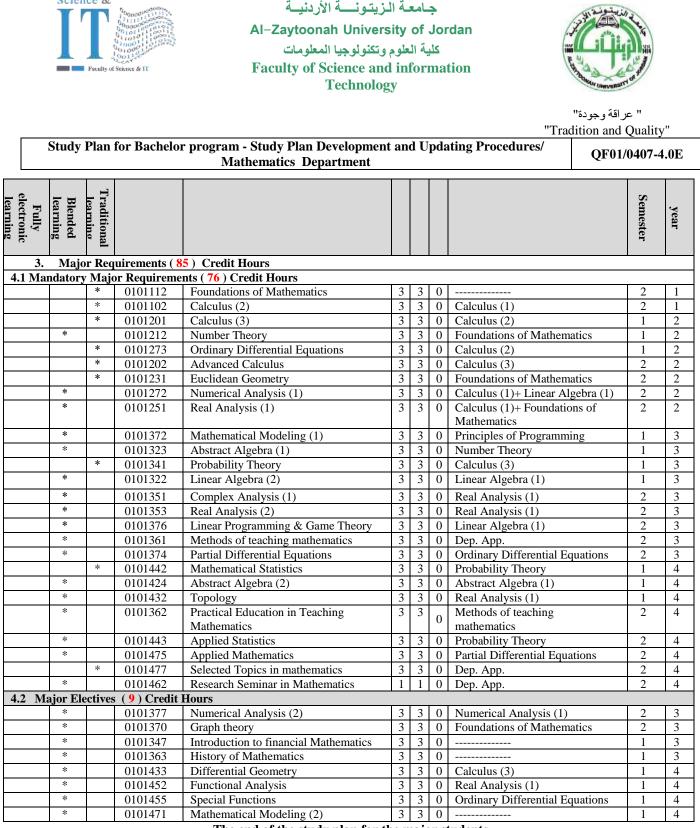


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	Study Plan for Bachelor program - Study Plan Development and Updating Procedures/ Mathematics Department QF01/0407-4.0											
Teacl Fully learning	hing styl Blended learning	e learning	Course No.	Course name	Credit hour	Theory Hours	Practical Hours	Prerequisite Co-requisite	-	Indic Semester	year.	
1.			v Requirements (2									
	1.1 Ma	andate	ory requirement (2									
*			0420101	Military Sciences	3	3	0			1	1	
*			0420151	National Education	3	3	0			2	1	
*			0420271	Life skills	3	3	0			1	2	
*			0420115	Communication skills in Arabic	3	3	0	Remedial Arabic Langua	ge	1	1	
*			0420123	Communication skills in English	3	3	0	Remedial English Language		2	1	
*			0420261	Entrepreneurship and innovation	3	3	0			2	2	
*			0420241	Leadership and social responsibility	3	3	0			1	2	
	1.2 Univ	versity	elective requirem	nents(06 credit hour)								
*			0420142	Human Civilization	3	3	0			1	1	
*			0420253	Development and environment	3	3	0			1	2	
*			0420172	Digital skills	3	3	0	Remedial computer skills	5	2	1	
*			0420201	first aid	3	3	0	· ·		2	2	
*			0420134	Sports and health	3	3	0			1	1	
*			0420212	Islamic culture	3	3	0			1	2	
•			0420392	Principals of Psychology	3	3	0			1	3	
•			0420341	Principals of German Language	3	3	0			2	3	

Teac	hing sty	/le				Т	Prac		Indic	ative
Fully electronic learning	Blended learning	Traditional learning	Course No.	Course name	Credit hour	Theory Hours	Practical Hours	Prerequisite Co-requisite	Semester	year
2. Faculty Requirements (21) Credit Hours										
	*		0115130	Introduction to Information Technology	3	3	0	Synchronized with remedial computer skills	1	1
		*	0101101	Calculus (1)	3	3	0		1	1
		*	0101140	Statistics and Probability	3	3	0		1	1
	*		0114150	Professional Skills for Scientific Faculties	3	3	0	Introduction to Information Technology		
	*		0112120	Principles of Programming	3	3	0	Introduction to Information Technology	2	1
			0150111	General Physics (1)	3	3	0		2	1
		*	0101221	Linear Algebra (1)	3	3	0		1	2

Topphing style	Course	Course nome	Prerequisite	Indicati
Teaching style	No.	Course name	Co-requisite	ve



The end of the study plan for the major students

Subjects taught in the major for students of other majors (university requirements, college requirements, major family requirements, support requirements)

Teach Fully learning	ing sty Blended learning	de learning	Course No.	Course name		Theory Hours	Practical Hours	The type of requirement and the recipient
		*	0101104	Calculus (2) for Engineering	3	3	0	<b>support requirement.</b> Faculty of Engineering & Technology - for the Departments: Mechanical Engineering, Computer & Communication Engineering and Civil & Infrastructure Engineering. Faculty of Science

Science &



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5	Study	velopment and Updating Procedures/ rtment QF01/0407-4.0E						
				Students				& Information Technology-Department of physics
		*	0101205	Calculus (3) for Engineering Students	3	3	0	<b>support requirement.</b> Faculty of Engineering & Technology- for the Departments: Mechanical Engineering, Computer & Communication Engineering and Civil & Infrastructure Engineering. Faculty of Science & Information Technology-Department of physics
		*	0101273	Ordinary Differential Equations	3	3	0	<b>support requirement.</b> Faculty of Engineering & Technology- for the Departments: Mechanical engineering, Computer & Communication Engineering, Civil & infrastructure Engineering. Faculty of Science & Information Technology-Department of physics
		*	0101105	General Mathematics	3	3	0	support requirement. Architecture and Design
		*	0101221	Linear Algebra (1)	3	3	0	<b>support requirement.</b> Faculty of Science & Information Technology- for the IT Departments.
	*		0101272	Numerical Analysis (1)	3	3	0	<b>support requirement.</b> Faculty of Science & Information Technology- for the IT Departments.
		*	0101101	Calculus (1)	3	3	0	<b>college requirements.</b> Faculty of Science & Information Technology. Faculty of Engineering & Technology
		*	0101140	Statistics and Probability	3	3	0	college requirements. Faculty of Science & Information Technology.