



<b>Document code</b>	<b>Program Intended Learning Outcomes: (PILOs)</b>	<b>Approval date</b>
CC-2023-02		03-2023

<b>Program</b>	<b>Bachelor of Mathematics</b>	<b>Department</b>	<b>Mathematics</b>
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Program-intended learning outcomes classified according to JNQF		
<b>Knowledge:</b>		
K1	Foundational Knowledge	Recognize essential knowledge in all foundational areas of mathematics.
K2	Conceptual Understanding	Demonstrate an understanding of the concepts and theorems in calculus, algebra, logic, analysis, topology and geometry
K3	Problem-Solving Skills	Solve basic problems in the areas of calculus, linear algebra, probability and statistics, differential equations and all other areas of applied mathematics
K4	Conceptual Explanation	Identify and explain mathematical concepts using various methods
<b>Skills:</b>		
S1	Proof Construction	Develop mathematical thinking to construct correct mathematical proofs.
S2	Analytical Application	Apply mathematical knowledge to analyze mathematical and statistical problems to get clear and precise conclusions.
S3	Advanced Problem-Solving	Solve advance mathematical problems in all pure and applied mathematical topics.
S4	Data Analysis	Analyze data mathematically and using software.
<b>Competences</b>		
C1	Self-Learning	Self-learning specific topics in any area of mathematics.
C2	Presentations & Projects	Give presentations and write small projects.
C3	Teamwork & Leadership	Work as a team member or a team leader.
C4	Real-Life Problem-Solving	Handle real-life problems from mathematical point of view.
C5	Model/Algorithm Design	Design a mathematical model, algorithm or conclude a new mathematical knowledge.