

## Fundamental of Mathematics Course Specification

<b>Course title:</b> Fundamental of Mathematics	<b>Level:</b> 1 <sup>st</sup>		
<b>Course code:</b> 100-2804	<b>Pre-requisites:</b> NA		
<b>Credit hours:</b> 3	<b>Contact hours:</b> 3		
<b>Department:</b> Administrative and Financial Programs	<b>Program:</b> Human Resource		
<b>Course content:</b>			
<p>This course provides students with the opportunity to learn and apply essential mathematics skills in a business context. Through relevant business applications, students will develop problem solving skills, skill with technology in a mathematics context, flexible thinking, and an appreciation of the role mathematics plays in the world of business, including further studies in accounting, business mathematics, probability, statistics, and microeconomics. The course aims to provide a sound foundation in basic mathematical skills and an introduction to their application to problem solving. It aims at understanding the applications of mathematics in the practical life by introducing some mathematical software and training students to use in calculations, solving equations, calculus and operations on matrices, as well as providing an overview of the editing program, learning presentation skills and writing equations.</p> <p><b>The course may include the following topics:</b> sets theory, equations of all kinds, linear equations, functions and curves, endings and communication, differentiation and integration, probability theory, determinants and matrices.</p>			
<b>Course objectives:</b>			
<p>By the end of course, students should be able to:</p> <ul style="list-style-type: none"> <li>▪ Recognize theory of sets</li> <li>▪ Recognize functions and their graphs and properties.</li> <li>▪ Sketch the graph of different functions.</li> <li>▪ Understand the Exponential Functions and their natural.</li> <li>▪ Understand the Logarithmic Functions and their properties.</li> <li>▪ Introduce Matrix with its operations.</li> <li>▪ Find limits of functions and know their applications in economics.</li> <li>▪ Know derivative of a function of a real variable and measure the sensitivity to change of quantity.</li> <li>▪ Find the integral of a function.</li> </ul>			
<b>Methods of teaching</b>			
Electronic Education	Tutorial	Practical	Lecture
<b>Assessment task</b>			
Final Exam	Quiz's	Practical exams	Mid Exams
50	10	10	30
<b>References:</b>			
<ul style="list-style-type: none"> <li>▪ طعمة، حسين طه (2014)، الرياضيات للاقتصاد والعلوم الإدارية والمالية، عما، دار صفا للطباعة والنشر.</li> <li>▪ دهبي، نورة (2012)، الرياضيات، دار صفا للنشر والطباعة والتوزيع.</li> <li>▪ هـو، عادل احمد (2009) الرياضيات للاقتصاد والعلوم الإدارية، عمان، دار المسيرة للطباعة والنشر.</li> </ul>			