

Course Title	athematics for Management
Course code	Math 120
Pre-required courses	Math 110
Course Level	Second
Credit Hours	3 hours
Teaching Language	Arabic
Course Description	
This course is designed to give students expanded knowledge of mathematic applications	
for personal use and business applications	s. It also aims to deepen students' abilities to solve
problems and economic problems mathem	natically and to overcome them by learning the
concept of related topics to functions such as limits, continuity, differentiation and	
integration. Finally, the application of functions on some economic issues can help	
Students to acquire the needed skills to recruit mathematics in their field of study.	
Course Aims	
At the end of this course, the students will be able to:	
• Use some of the mathematical methods in solving various issues.	
• Understand the concept of functions and its types in order to employ them in several applications and a variety of according issues	
applications and a variety of economic issues.	
• Onderstand the meaning of simple profit and compound profit and differentiate between of them	
• Recognize the concept of limits in general and applied it to some economic functions	
• Recognize the concept of minits in general and applied it to some economic functions and applications	
• Make use of concept of differentiation and its types to apply them to some economic	
applications where students will be able to solve some of the economic problems	
• Introduce the concept of integration and its rules in order to investigate them in solving a	
various economic problems.	
Course Contents:	
Groups Cartagian axis Cartagian product on groups	
• Definition of functions and represent them graphically	
Kinds of functions	
Arithmetic operations on functions	
Types of linear equations	
Parallel and perpendicular lines	
Economic applications of functions	
Financial Mathematics:	
Simple Profit	
Compound Profit	
Limits and continuity:	
Definition of limit	
Theories of limits	
Properties of limits	
Economic application of limits	
The derivatives:	
Derivative definition	
Derivatives Rules	
• The chain rule	
Partial differentiation	



- Derivative of exponential function
- Divertive of the logarithmic function
- Higher Derivatives
- Slope of the tangent
- Economic applications of derivatives Integrations:
- The concept of indefinite integral
- Rules for integration
- Integration methods (Integration by parts & by substitution)
- Areas and volumes
- Economic application for integrals