

Course Name	Mathematics-1							
Course Information	Course Code	Course No.	Course Level	Credit Hours	Weekly contact hours	Prerequisite(s)		
	2417 – 301	301	Preparatory Year	2	4	–		
Course Track	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Specialized Core <input type="checkbox"/> Electives							
Course Description:								
<p>Mathematics-1 is a course in Basic Mathematics offered by the Department of Basic Sciences. It is a 2credit-hour course conducted through 4 hours along 8 weeks. This course provides an intensive study on Basic Mathematics, which is fundamental to the study of related technical subjects. Emphasis is placed on many topics; explicitly: Decimals and Percentage, Algebra and Equations, Lines and Inequalities, Functions and Graphs, Exponential and Logarithmic Functions.</p>								
Course Outcomes:								
<ul style="list-style-type: none"> • Compute percentage and apply the operations on decimals and fractions. • Recognise the real numbers and their properties. • Apply operations on polynomials and factorise the polynomials. • Solve linear, quadratic, and absolute value equations. • Solve linear inequalities. • Find equations of, and graphing, lines and circles. • Recognize functions, including composition of functions and inverse functions, and their application as mathematical models. • Use the properties of exponential and logarithmic functions and their application to solve equations. 								
Assessment Policy	Assignment	10%	Quiz	15%	Lab	---	Project	5%
	Midterm	30%	Final	40%	Others	---		
Textbook	Fundamentals of Mathematics Pearson, 2019-Custom edition for KFU							
References	<ol style="list-style-type: none"> 1. Mathematics with Applications In the Management, Natural and Social Sciences, Thomas W. Hungerford, John P. Holcomb, Margeret L. Lial 2017 • Pearson 2. 2. College Algebra and Trigonometry, Global Edition, 6/E Margaret L. Lial, John Hornsby, David I. Schneider, Callie Daniels 2017 • Pearson 							

