



جامعة التقنية والعلوم التطبيقية
 University of Technology and Applied Sciences
 الكليّة التقنيّة العليا
 Higher College of Technology

Math Courses					
Sl.No.	Course Code	Course Name	Prerequisite		Brief description of the Course
			Course Code	Course Name	
1	MATH1200	Calculus 1	MATH1102	Pure Math	The course goal is to make the students familiar with the knowledge of Limits and continuity, Derivatives and its applications, Mean Value Theorems, Basic Integration techniques.
2	MATH201	Mathematics for IT	MATH1200	Calculus 1	The concepts and theories that underlie in the area of Numerical Analysis and some of their applications in the field of Information Technology and foundation of computer arithmetic. The course deals with the theories and applications of numerical approximation techniques, some concepts in number theory and its applications in encoding and decoding messages in Cryptography, different operations on Matrices and determinants, use of matrices to solve linear system of equations.
3	MATH2200	Discrete Structure	MATH201/MATH1200	Mathematics for IT/Calculus 1	To extend student's logical and mathematical maturity and ability to deal with obstruction and introduce most of the basic terminologies used in computer science courses and application of ideas to solve practical problems and to provide training in formal education to help them in higher studies and research.
4	MATH311	Probability & Statistics for IT	MATH1102/MATH1103	Pure Math/Applied Math	The course goal is to deliver an understanding of the elementary concepts in probability theory and statistical analysis. Students will learn the essential theory of distribution of random variables, the basic theory and techniques of parameter estimation and tests of hypotheses. After taking this course, students will be able to use calculators and tables to perform simple statistical analyses for small samples; and to use the open-source statistical package R programming in performing analyses for small and large sample studies.
5	ASAC3120	Statistics & IT	MATH1102	Pure Math	The course description is to deliver an understanding of the elementary concepts in probability theory and statistical analysis. Students will learn the essential theory of distribution of random variables, the basic theory and techniques of parameter estimation and tests of hypotheses. After taking this course, students will be able to use calculators and tables to perform simple statistical analyses for small samples; and to use a statistical package in performing analyses for small and large samples.