Date:	Examination No.:	Version:1/9/2022	Start: 1/9/2022
Module Name - Code	Mathematics III - 0109		
Module Language:	English		
Responsible:	Lecturer Sanaa Ismael Khaleel		
Lecture (s):			
College:	College of Engineering – Salahaddin University		
Duration:	15 week – 1 semester		
Course outcomes:	At the end of the semester, students would be able to recognize different type of coordinates systems and problem-solving principles. The student will get familiar to vectors problems . They will get to find solution of differential equations and solve the problems of multiple integrals at the end of the semester.		
Course Content:	polar coordinates system-Vectors(representation, operation& product)-position, velocity , acceleration and speed - function of more than one variables(partial derivatives, chain rule, higher order derivatives)- differential equations-multiple integrals		
Literature:	1-Thomas_ Calculus" Eleventh Edition" 2- George B. Thomas, Jr, Maurice D. Weir, Joel Hass, Christopher Hell <<THOMAS CALCULUS 13/E >> Pub, Pearson, 2010 3- George B. Thomas, Jr, Maurice D. Weir, Joel Hass, Frank R. Gird <<THOMAS CALCULUS 11/E >> Pub, Pearson, 2005,		
Type of Teaching:	3 hrs. theory per week 1 hr. tutorial per week		
Pre-requisites:	Math. II		
Frequency:	Yearly in fall semester		
Requirements for credit points:	For the award of credit points it is necessary to pass the module exam. The module exam (theoretical) contains: classroom activates ,Quizzes, H.W, Mid term exam and final exam **Student's attendance is required in all classes**.		
Credit point:	5		
Grade Distribution:	The Grade is generated from the examination result(s) with the following 15% activity, H.w and quizzes 25% mid-term exam 60% final Exam		
Work load:	The workload is 120h. It is the result of 60h attendance and 60h self studies.		