Date:	Examination No.:	Version:01/09/2022		Start: 11/09/2022		
Module Name - Code	Mathematics II- 1109					
Module Language:						
Responsible:	English					
-	Barzan OMAR					
Lecture (s):	Mr. Barzan OMAR/ MSc					
College:	Civil Department-College of Engineering – Salahaddin University					
Duration:	15 week – Fall Semester					
Course outcomes:	 At the end of the semester, students would be able to Interpret a function from an algebraic, numerical, graphical and verbal perspective and extract information relevant to the phenomenon modeled by the function. Ability to evaluate the integrals of complex functions. Ability to find the integral value of complex function by approximate method. Ability to evaluate the integral of function with infinite domain and fine the values of integrals. 					
Course Content:	Transcendental Functions: Logarithmic, exponential, trigonometric, & hyperbolic functions; Techniques of Integration: Integration by Part, Integration of Rational Function by Partial Fraction, Trigonometric Substitution, Numerical Integration, and Improper Integrals.					
Literature:	 George B. Thomas, Jr, Maurice D. Weir, Joel Hass, Christopher Heil <<thomas' 13="" calculus="" e="">> Pub, Pearson, 2010.</thomas'> George B. Thomas, Jr, Maurice D. Weir, Joel Hass, Frank R. Gird <<thomas' 11="" calculus="" e="">> Pub, Pearson, 2005.</thomas'> Salas Hile <<calculus 9th="" edition="" one="" variable="">> pub, John Wiley and sons, 2003.</calculus> Howard Anton <<calculus 3ed="" analytic="" edition="" geometry;="" with="">> pub, John Wiley, 1983.</calculus> James Swart <<calculus 5th="" edition="">> pub, Thomson, 2003.</calculus> R. Finney and G. Thomas <<calculus 10th="" analytic="" and="" edition="" geometry="">> pub, Addison Wesley, 2003.</calculus> 					
Type of Teaching:	3 hrs. theory per week 1 hr. tutorial per week					
Pre-requisites:	1102					
Frequency:	Yearly in Fall semester					
Requirements for credit points:	For the award of credit points, it is necessary to pass the final module exam if: 1. The minimum annual effort is 20%. 2. Student's attendance is required in all classes.					
Credit point:	5					
Grade Distribution:	For the award of credit points, it is necessary to pass the module exam. The module exam contains: A mid-term exam, class room activities, quizzes, home works and final exam on June. So, the final grade will be based upon the following criteria: Mid-term exam 20%					
			20%			

		Activities and Quizzes	20%		
		Final exam	60%		
		Total	100%		
Work load:	The workload is 120h. It is the result of 60h attendance and 60h self-studies.				