Date:	Examination No.:	Version:2021-2022	Start:1/9/2022
Module Name - Code	Engineering Analysis - 0111		
Module Language:	English		
Responsible:	Maha George Zia		
Lecture (s):	Maha George Zia		
College:	College of Engineering – Salahaddin University-Erbil		
Duration:	15 week – 1 semester		
Course outcomes:	The course deals with the methods and algorithms concerning Engineering analysis. This course is a mandatory requirement for the BSc in Electrical Engineering. As an introductory course, a good treatment of the basic principles is important for a proper understanding of the subject matter and for confidence in applying these principles to practical problem solving.		
Course Content:	• Fourier Series • Fourier Transform • Laplace Transform • Z- Transform		
Literature:	➢ **C. Ray Wylie, and L. C. Barrett:** *Advanced Engineering Mathematics*, McGraw- Hill, 5th edition, 1985 ➢ **Erwin Kreyszig:** *Advanced Engineering Mathematics*, Jhon Wiley & Sons INC., 10th edition, 2011. ➢ **John Bird:** *Engineering Mathematics.* Elsevier, 4th edition, 2008.		
Type of Teaching:	3 hrs. in lectures + 1 hour tutorial		
Pre-requisites:			
Preparation Modules:			
Frequency:	Spring Semester		
Requirements for credit points:	For the award of credit points, it is necessary to pass the module exam. It contains: Two examinations (quizzes) during the academic semester, two assignments (homework) and Final examination. **Student's attendance is required in all classes**.		
Credit point:	5		
Grade Distribution:	The module exam is based on the summation of two categories of evaluations: **First: (40%)** of the mark is based on the academic semester effort which includes - Two examination (quizzes) during the academic semester = 20%. - Two assignments (homework) = (20%). **Second: (60%)** of the mark is based on final examination that is comprehensive for the whole of the study materials reviewed during the academic semester.		
Work load:	The workload is 96 hrs. It is the result of 48 hrs. attendance and 48 hrs. self-studies (Assignments, preparation for exam and applications).		