Date:	Examination No.:	Version:2022-2023	Start: 1/9/2022			
Module Name -	Digital Signal Processing - 21208					
Code						
Module	English					
Language:						
Responsible:	Maha George Zia					
Lecture (s):	Maha George Zia					
College:	College of Engineering – Salahaddin University-Erbil					
Duration:	15 week – 1 semester					
Course	The course deals with the methods and algorithms concerning Digital Signal					
outcomes:	Processing. 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					
C	applying these principles to practical problem solving.					
Course	Introduction to digital signal processing					
Content:	Impulse response, linear and circular convolutions					
	Steady state response					
	Z. Transform applied to digital signal processing system					
	Spectral estimation using window functions and FFT Divide the first statement of the statement of					
Literature:	Digital filter design Digital filter design					
Literature:	Jone G. Proakis: Digital Signal Processing, Principles algorithms and					
	 applications, 4th edition, Pearson, 2007 ➤ Dick Blandford: <i>Introduction to Digital Signal Processing</i>, 1st edition, 					
	Pearson, 2012					
	Richard G. Lyons: <i>Understanding Digital Signal Processing</i> , 3rd Edition,					
	Prentice Hall, 2010.					
Type of	3 hrs. in lectures + 2 hou	rs practical				
Teaching:						
Pre-requisites:	E 11 C					
Frequency:	Fall Semester					
Requirements for credit	For the award of credit points, it is necessary to pass the final exams of the theoretical and practical (Lab) exams. Also, it contains quizzes, and assignments					
points:	during the academic semester.					
points.	Student's attendance is required in all classes.					
Credit point:	6	required in an etasses.				
Grade	1-The Theoretical part is based on the following (total mark= 75%):					
Distribution:	a) Two quizzes during the academic semester = 20%.					
	b) Two assignments (homework) = 15%.					
	c) Final theoretical exam = 40%					
	2- The practical (Lab) part is based on the following (total mark= 25%):					
	a) Reports, and quizzes and = 15%					
	b) Final practical exar					
Work load:		It is the result of 45 hrs. theor	-			
	attendance, both concern	ing(Assignments, preparation t	for exam and applications).			