Date:	Examination No.:	Version:15/1/2022	Start: 5/2/2023
Module Name - Code	Statistics - 1119		
Module Language:	English		
Responsible:			
Lecture (s):	Dr. Zrar Sedeeq Othman		
College:	College of Engineering – Salahaddin University-Erbil		
Duration:	15 week – 1 semester		
Course outcomes:	After successfully completing the course, students should be able to do the following: 1. Use statistical methodology and tools in the engineering problem-solving process. 2. Compute and interpret descriptive statistics using numerical and graphical techniques. 3. Understand the basic concepts of probability, random variables, probability distribution, and joint probability distribution. 4. Compute point estimation of parameters, explain sampling distributions, and understand the central limit theorem. 5. Construct confidence intervals on parameters for a single sample.		
Course Content:	1- Introduction. 2- Descriptive statistics. 3- Summarizing Data Sets. 4- Probability. 5- Discrete distribution & Combinations. 6- Binomial distribution. 7- Poisson distribution. 8- Normal distribution. 9- correlation and regression. 10- Curve fitting and least squares.		
Literature:	1- Probability and Statistics for Engineering and the Sciences by Jay L. Devore, 2004. 2– Probability, Statistics and decision for Civil Engineer by Dack R. Benjamin & C. Allin Corne, 1970. 3 – Applied Statistics for Engineers by William Volk, 1960.		
Type of Teaching:	2 hrs theory 1 hr tutorial		
Pre-requisites:			
Frequency:	Yearly in spring semester		
Requirements for credit points:	For the award of credit points, it is necessary to pass the module exam. The module exam is theoretical: [Written 120 min] **Student's attendance is required in all classes**.		
Credit point:	4		
Grade Distribution:	The Grade is generated from the examination result(s) with the following 10% activity 10% quizzes 20% mid-term exam 60% final Exam		
Work load:	The workload is 135 hrs. It is the result of 45 hrs. attendance and 90 hrs. self-studies.		