Academic Year: 2023-2024		Semester: Fall	Starting Date: 15-10-2023	
Course Name	Engineering Statistics			
Module Language	English			
Instructor	Dr. Zrar Sedeeq Othman			
Teaching				
Assistance(s)				
College/University	College of Engineering – Salahaddin University-Erbil			
Department	Civil Engineering			
Semester Duration	15 weeks			
Course Overview	This course covers the role of statistics in engineering, probability, discrete random variables, and probability distributions, continuous random variables and probability distributions, joint probability distributions. In addition, correlation and simple linear regression analysis are covered in this course.			
Course Objectives	Students understand basic concepts of statistics and probability, comprehend methods needed to analyze and critically evaluate statistical arguments, and recognize the importance of statistical ideas. The main objective of this course is to teach students how to apply statistical analysis in civil engineering applications.			
Course Contents	2ndDescription3rdDescription4thProba5thProba6thProba7thDiscreption8thDiscreption9thMidter10thContint11thCorrelt12thSampl13thEstimation	uction to Statistics ptive Statistics-part1 ptive Statistics-part2 bility-part1 bility-part-2 bility Distributions te probability distributions-Binom te probability distributions-Poisso rm Exam nuous Distribution-Normal Distribut ation and Regression Analysis e size and Sampling Distributions ation and Hypothesis Testing ar Presentation	n	
Textbooks and References	Sheldon M. 2- Applied Stat Montgomer 3- Probability 2004.	tistics and Probability for Engineer y and George C. Runger, 2014. and Statistics for Engineering and t	s, 6th Edition, by Douglas C.	
<b>Teaching Style</b>	3 hrs. in Class	5		

Requirements for credit points	For the award of credit points, it is necessary to pass the module exam. It contains: An examination during the academic semester, Quizzes, Assignments, and Final examination. Student's attendance is required in all classes.		
Credit ECTS	6		
Grade Distribution	The following grade system is used for the evaluation of the module exam: The module exam is based on the summation of two categories of evaluations: <b>First:</b> (50%) of the mark is based on the academic semester effort which includes - Midterm Exam = 20%. - Quizzes = 10% - Seminar = 10% - Report = 10% <b>Second:</b> (50%) of the mark is based on the final examination that is comprehensive for the whole of the study materials reviewed during the		
	academic semester.		
Workload	Workload 10hrs/w (150hrs/s): Contact face-to-face 3hrs/w (45hrs/s) and Non- Contact Self learning 7hrs/w (105hrs/s)		