

Date:	Examination No.: 15367	Version:1/9/2023	Start: 18/1/2024
Module Name - Code	Engineering Statistics		
Module Language:	English		
Responsible:	Dr.Ashty Othman Khorsheed		
Lecture (s):	Dr.Ashty Othman Khorsheed		
College:	College of Engineering – Salahaddin University		
Duration:	15 week – 1 semester		
Course outcomes:	<p>By the end of this course students are expected to be able:</p> <p>This course would provide student with both descriptive and analytical methods for dealing with the variability in observed data.</p> <p>Engineering students should take at least one course in statistics, so they can be able to apply statistics in their future everyday work.</p>		
Course Content:	<p>Introduction, Descriptive & inferential statistics, Population parameters and sample statistics, Cumulative frequency distribution, Graphic representation of simple frequency table, Graphic representation of simple frequency table, Histogram. Frequency Polygon. Frequency curve, Measures of central tendency, Scientific methods and experimental design including randomization and blocking. Inference for regression, Probabilities of simple and compound events, combinations, Binomial Distribution, T- Distribution, F- Distribution, Analysis of linear regression, Chi – Square Distribution, Curve fitting by least squares Regression, Inference for regression.</p>		
Literature:	<ul style="list-style-type: none"> -Statistics – Informed Decisions Using Data Michael Sullivan , -Applied statistics and Probability for Engineering Douglas C. Montgomery and George C. Runger -Probability and Statistics for Engineering Miller and Friends Richard A. Johnson - Magazines and (internet) 		
Type of Teaching:	4 hrs in lectures		
Pre-requisites:	ability to organize, summarize, analyze and present the collected data and information from their samples		
Frequency:	Yearly in fall semester		
Requirements for credit points:	<p>For the award of credit points it is necessary to pass the module exam.</p> <p>The module exam contains:</p> <p>Oral/Written (written if 3 students or more) [Oral minimum 30 min / Written 120 min]</p>		

	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 weights (w): Oral/Written [w: 1]
	First course quiz& class activity: 20
	Semester exam: 20
	Final exam: 60
	Total: 100
Work load:	The workload is 60h. It is the result of 45h Teaching, and 15h self studies.