

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue

2022-2023

	Keye Technical Institute					
College/ Institute	Koya Technical Institute					
Department	IT					
Module Name	Statistics					
Module Code	STA202					
Degree	Technical Diploma Bachelor					
	Diploma / Master PhD					
Semester	2 nd Semester					
Qualification	BSC (Statistics)					
	MSC (Computer & Mathematics)					
	PhD (Applied Statistics)					
Scientific Title	Lecture					
ECTS (Credits)	6					
Module type	Prerequisite Core / Assist.					
Weekly hours	6					
Weekly hours (Theory)	(2) hr Class () Total hrs Workload					
Weekly hours (Practical)	(4)hr Class ()Total hrs Workload					
Number of Weeks						
Lecturer (Theory)	Dr. Syamnd Mirza Abdullah					
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Lecturer (Practical)						
E-Mail & Mobile NO.						
Websites						

Course Book

Course Description	on the type of graph datase data su indepe	target. However, Ho f data such as quality and which graph is t by frequency and uch as mean, media	w to understand to y and quantity. On suitable for data how to tendency n, mode and rang dependent variab	he measurement another hand, collection. In a measurement u . Plus, how to k le and find the	ollect dataset which affects of of level the data and the how to explain the data by addition, how arrange the unit in group and ungroup now the relation between significant data to project.	
Course objectives	Object	tive on statistics an To define and pri To collect datase To test our data i To estimate our o To find the correl To determine the To apply SPSS pro	ncipal statistics t for any project n Tendency mea data by Regressic lation coefficient e significant data	on model t between the		
Student's obligation	require	Students must attend all lectures .they also do quick daily exams .furthermore, they are required to do their homework and duties that will be assigned to them .they must do seminars and projects .finally they must pass the final and midterm exam.				
Required Learning Materials						
		Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review					
		Homework	14%			
	As	Class Activity	2%			
	sign	Report	8%			
AssignmentsEvaluation	mer	Seminar	8%			
	ıts	Essay				
		Project	8%			
	Quiz		4%			
	Lab.		4.60/			
	Midterm Exam		16%			
	Final Tota	l Exam	40%			

Specific learning outcome:	In the end of statistics course, students have to able to 1- Collect dataset in both kinds such as quality and quantity. 2- Identify of the level measurement 3- Explain the data in graph 4- Arrange the data from ungroup to group data 5- Understand Tendency measurement level 6- Find correlation between the dataset 7- Determine the significant the dataset					
Course References:	 <u>https://www.analyzemath.com/statistics/introduction_statistics.html</u> Peck, R., C. Olsen, and J.L. Devore, <i>Introduction to statistics and data analysis</i>. 2015: Cengage Learning. Lane, D.M., et al., <i>Introduction to statistics</i>. 2017: Citeseer. Crowder, S., et al., <i>Introduction to Statistics and Probability</i>, in <i>Introduction to Statistics in Metrology</i>. 2020, Springer. p. 59-80. 					
Course topics (Theory)		Week	Learning Outcome			
Introduction of description and inferential statistics Pictorial description of data& data classification.		1.	1			
Frequency distribution & cumulative frequency Distribution		2.	1			
Histogram and frequency polygon		3.	1			
Tendency measurement level		4.	2			
Measures of variation.		5.	1			
correlation coefficient in Person type		6.	1			
analysis of linear regression		7.	1			
t-distribution & F- distribution		8.	2			
P-value		9.	2			
Computer application.		10.	9			
Practical Topics		Week	Learning Outcome			

Questions Example Design

Q suppose you want to identify the age of 30 students in the Statistic class (20 Marks) 18, 25, 23, 19, 21, 30, 18, 34, 29, 20, 22, 25, 19, 27, 31 26, 24, 32, 21, 30, 19, 23, 33, 19, 23, 25, 27, 29, 28 and 31 Find:-

1- Frequency table for 30 students, if the K=4 with the Continuous frequency table.

2- Polygan frequency chart to distribute on the graph.

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Q/ Anna is a very good master student, but at times she doesn't enough sleep. (20Marks) She

hypothesizes that when she gets more sleep she does better on tests. Find the Person Correlation coefficient with explain between hours of sleep and test score for following data.

Hours of Sleep	8	8	6	5	7	6
Test score	81	80	75	65	91	80

Extra notes:

External Evaluator