



Module (Course Syllabus) Catalogue

2020-2021

College/ Institute	Administration		
Department	I.L.M		
Module Name	Principle of statistic		
Module Code			
Semester			
Credits			
Module type	Prerequisite Core	e Assist.	
Weekly hours	Three		
Weekly hours (Theory)	(two)hr Class	()hr Workload	
Weekly hours (Practical)	(one)hr Class	()hr Workload	
Lecturer (Theory)	Azhy Akram		
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Lecturer (Practical)			
E-Mail & Mobile NO.			

Course Book

Course Description	Statistics is a branch of mathematics dealing with the collection, analysis, interpretation and presentation of masses of numerical data.
Course objectives	To give the students an operational understanding of Statistics and statistical analysis
Student's obligation	Students should actively participate in lectures and must be involved in solving exercises, as well as encouragement to express an opinion and proposals and providing reports and seminars.
Required Learning Materials	All lectures are shown by data show with power point file, where it's exist for students and must using whiteboard in all lectures to give student more explanations to the subjects.
Assessment scheme	 16% Mid Term (Theory and practical) 4% Quiz 40% Assignment (report, paper, homework, seminar) 25% final practical 15% final theory
Course References:	 John E. Freund , "Statistics, a First Course", 1981 Petruccelli, Nandram and Chen, "Applied Statistics", 1999 Hogg and Craig, "Introduction to Mathematical Statistics", 1978

Course topics (Theory)	Week	Learning Outcome
History of the notion of statistics.	1	Statistic history
Introduction to statistics and its basic definition.	2-3	Same definition
Basic concepts and definitions of frequency distributions.	4-5	Haw to create frequency table
Graph of frequency distributions.	6	Draw pie chart histogram
Sample and population.	7	Why using sample
Some sample measures like (mean, median, mode and standard deviation).	8-9	Describe data using measure
Relative Variation	10	Describe data using measure
Correlation Analysis	11	Analysing data
simple Linear Correlation Coefficient	12	Finding relation between variables
Regression	13	Finding the regression model
Practical Topics	Week	Learning Outcome
Collecting data from organization	4-5	Haw to collect data
Describe data using freq. table	6-7	Haw to create frequency table

Questions Example Design			
Q.1) Find the following for the table			(3+6 Marks)
1- Median2- Mean & Variance (with coding)	Classes	Frequencies	
	2 - 10	17	
	11 - 19	0	
	20 - 28	1	
	29 - 37	2	
	38 - 46	20	
	47 - 55	7	

- **1** Find all elements of the set A, which is the set of standard units of A is equal $\{-2/3, -1, -4/3, 2/3, 1/3, 2/3, 4/3\}$
- **2** Find the median and the mode of the set A.

(7+4 Marks)

Extra notes:

External Evaluator