Module (Course Syllabus) Catalogue

2020-2021

College/ Institute	Administration
Department	I.L.M
Module Name	Statistical management
Module Code	
Semester	
Credits	
Module type	Prerequisite [ ] Core [ ] 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:	1- *John E. Freund* , **"Statistics, a First Course"**, *1981* 2- *Petruccelli, Nandram and Chen*, **"Applied Statistics"**, *1999* **3-** *Hogg and Craig*, **"Introduction to Mathematical Statistics"**, *1978*

Course topics (Theory)	Week	Learning Outcome
sample measures mean for no grouped data and grouped data	1	Statistic history
sample measures weighted mean	2-3	Same definition
sample measures geometric mean	4-5	Haw to create frequency table
sample measures median and mod	6	Draw pie chart histogram
sample measures variance	7	Why using sample
Some sample measures mode and standard deviation mean 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- Median
2- Mean & Variance (with coding)

Classes	Frequencies
2 – 10	17
11 – 19	0
20 – 28	1
29 – 37	2
38 – 46	20
47 – 55	7

Q.2) If you know that the mean of set of data A equal 5 , and its variance equal 9 .

    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