

KARACHI UNIVERSITY BUSINESS SCHOOL

UNIVERSITY OF KARACHI

Affiliated Colleges

MBA – II		
Course Title	:	Business Statistics
Course Number	:	BA (M) – 552
Credit Hours	:	03

- Definition of word statistics in singular sense as well as in plural sense
- Kinds of data and methods of its collection
- Primary and Secondary data. Grouping of data, graphic and diagrammatic representation
- Central tendency of data and its measures, their merits and demerit Quartiles
- Dispersion and it's measure, absolute and relative both
- Symmetry and skewness, measure of skewness
- Permutation and Combination. Sets operation
- Introduction to probability theory, Basic concepts of mutually exclusive and not mutually exclusive events.
- Dependent and Independent events
- Additional and multiplication laws of probability
- Concept of variables and random variable
- Mathematical expectation of a random variable
- Finding mean, variance, standard deviation and coefficient of variation of probability distribution.
- Discrete probability distribution such as binomial, hyper geometric and Poisson distribution and their properties.
- Application of these distributions in solving business problem
- Concept of regression and co-relation when X and Y are linearly related variables and their measures
- Scatter diagram and fitting curve to the observed data by principle of least square
- Index number and its types
- Weighted index number and its measures
- Consumer Price Index number and its applications

Recommended Books:

1. Ronald E. Walpole "Introduction to statistics" , 3rd Edition 1989
2. Shaums outline series 1992
3. Authoen "Statistics " Cambridge university Press 1997
4. "Elementary Probability " Cambridge university press 1996
5. J.Kazmeir "Theory and problems of business statistics" Shaums outline series

