

KARACHI UNIVERSITY BUSINESS SCHOOL

UNIVERSITY OF KARACHI

Affiliated Colleges

MBA – III		
Course Title	:	Advance Business Statistics
Course Number	:	BA (M) – 601
Credit Hours	:	03

Continuous Probability distribution.

Normal distribution & its properties. Application of normal distribution.

Standard normal distribution & its properties.

Sampling & Sampling distribution of mean. Sampling techniques. Simple random Sampling. Stratified random Sampling. Systematic sampling. Properties of sample mean in simple random sampling, techniques & stratified both. Idea of Parameter & Statistics.

Estimation

Estimation of parameters. Difference between point estimation & interval estimation. Construction of 95% and 99% confidence interval of population mean and difference of two population means & proportion for large and small samples both. Determination of sample size for testing parameters.

Test of hypothesis.

Z-test for testing population mean, proportion & difference of two population means & proportion. χ^2 — test for population variance. Goodness of fit test, & test of independence of two attributes. F. test for testing quality of two population variance. Time series, its components, method of measuring secular trends.

Correlation

Partial and multiple correlations & their coefficient. Multiple regression equations.

Recommended Books:

1. Schaum Outline Series.
2. Ronald E Walpole. Forth Edition.
3. Marshfield. Statistics for Business and Economics, W.W. Norton & Co 1994.
4. W. Daniel James C Terrell. “Business Statistics for Management and Economics” Miffin, 6th Edition.
5. F. Hair, Rolph E. Anderson and Ronald L Tahtam, William C Black, “Multivariate Analysis. Prentice Hall, 5th Edition, 1998.