



[Glossary]

Regression

Subject:	Business Economics
Course:	B. A. (Hons.), 1 st Semester, Undergraduate
Paper No. & Title:	Paper – 102 Statistics for Business Economics
Unit No. & Title:	Unit – 3 Multivariate Analysis
Lecture No. & Title:	Lecture – 2 Regression

Glossary

Regression: It is a technique used to analyze the relationship between a single dependent variable and single independent variables.

Regression Analysis: It is a statistical procedure that can be used to develop a mathematical equation showing how variables are related.

Regression Line: It is a line obtained by applying least square principle or a line of average relationship or best fitted line.

Regression Line Y on X: It is a line where variable Y is dependent variable and X is independent variable. Therefore, value of Y depends on the value of x.

$$y - \bar{y} = b_{yx}(x - \bar{x})$$

Regression Line X on Y: It is a line where variable X is dependent variable and Y is independent variable. Therefore, value of X depends on the value of Y.

$$x - \bar{x} = b_{xy}(y - \bar{y})$$

Regression coefficients: Its is a numerical measure which shows probable change in the values of dependent variable for a unit change in the value of independent variable.

Standard error: Expected distribution of an estimated regression coefficient

Standard error of the estimate: Measure of the variation in the predicted values that can be used to develop confidence intervals around any predicted value.