

 **Course Description**

**Statistics 1**

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| **Faculty of Business Administration** |  |
| Course | **Statistics 1** | Prerequisite:  | Business MathematicsCBFC205 |
| Credit Hours:3 | Theoretical:2  | Practical:2 | Course Code:  | CBFC205 |

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| **Description** |
| The course introduces the science of statistics, its importance, the topics it covers, samples and methods of sampling. It also deals with data tabulation and representation, analyzing mean value and standard deviation and skewness in detail. It also deals with correlation and regression relationships. The course further deals with probability theory and probable distribution, both dependent and independent. It also deals with analyzing two-way variance and Poisson distribution.   |
| **Content** |
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| **Week** | Topic |
| 1 | **Introducing Statistics, Sampling and Sampling and Sample Selection** |
| 2 |  **Frequencies (Tables and Histograms)** |
| 3 | **Frequency Distribution (Charts)** |
| 4 | **Central Tendencies: Mean and Median** |
| 5 | **Scatterplots** |
| 6 | **Linear Correlation and Regression** |
|  7 |  **First Test** |
| 8 | **Introducing Probability Theory** |
| 9 | **Conditioned Probability** |
| 10 | **Probability distributions** |
|  11 | **Independent Probability Distribution (Mathematical expectations and variance)**  |
| 12 | **Second Test** |
| 13 | **Poisson Distribution and Two-way Distribution** |
| 14 | **Natural Distribution and Standard Distribution** |
| 15 | **Measurement of Natural Distribution** |
| 16 | **Review** |

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| **References** |
| **son, R., & Farber, B. (2015). *Elementary statistics: Picturing the world* (6th ed.). Boston, MA:** |