# Statistics & Data Analyses

Study plan for BS Education 7th Semester Fall 2020 Course Leader: Dr. Muhammad Sarwar

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| Week 1 | Statistics : Basic concepts, definitions  Scope or applications of statistics in education |
| Week 2 | Types and branches of statistics  (Parametric, non-parametric and inferential) |
| Week 3 | Scales of Measurement and their use in Statistics |
| Week 4 | The frequency distribution |
| Week 5 | Measures of central tendency: mean, median, mode |
| Week 6 | Measures of variability Range, the quartile deviation, the average deviation, standard deviation  Uses of various measures of variability |
| Week 7 | The normal distribution: Meaning importance, properties and applications of the normal probability curve /normal distribution curve |
| Week 8 | Correlation  Basic concepts  Correlation coefficients; Pearson Product /Moment Correlation Rho; Partial correlation and bi-serial correlation. |
| Week 9 | Regression |
| Week 10 | Analysis of variance and application of *t*- Test; ANOVA and ANCOVA. |
| Week 11 | The chi-square test and the null hypothesis |
| Week 12 | Data: Meaning & Types :  Parametric and Non Parametric data |
| Week 13 | Data Analysis  Qualitative  Quantitative |
| Week 14 | Data analyses through SPSS & NVIVO |
| Week 15 |  |
| Week 16 |  |