

Advanced Statistical Methods (BDA2221)

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1. **Estimation**
Unbiasedness, Consistency, UMVUE, MLEs
2. **Test of Hypothesis**
Two types of errors, Test statistic, Parametric tests for equality of means and variances.
3. **Linear Model**
Gauss Markov Model, Least squares estimators, ANOVA.
4. **Regression**
Multiple linear regressions, forward, backward and stepwise regression, Logistic Regression.
5. **Bootstrap**
Sampling, Non-parametric bootstrap, Applications.