

# University of Pretoria Yearbook 2018

## Statistics 210 (STK 210)

**Qualification** Undergraduate

**Faculty** Faculty of Economic and Management Sciences

**Module credits** 20.00

**Programmes** BCom

BCom Agribusiness Management

BCom Economics

BCom Informatics Information Systems

BCom Investment Management

BCom Law

BCom Statistics

BSc Information and Knowledge Systems

BSocSci Philosophy, Politics and Economics

BScAgric Agricultural Economics and Agribusiness Management

**Service modules** Faculty of Engineering, Built Environment and Information Technology

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

**Prerequisites** STK 110, STK 120

**Contact time** 1 practical per week, 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Statistics

**Period of presentation** Semester 1

### Module content

Counting techniques. Probability theory: Sample spaces, events, rules of probability, conditional probabilities, independent events and Bayes' theorem. Probability distributions and probability densities: cumulative distribution functions, marginal distributions, joint distributions, conditional distributions and independence. Expected values: Moments, Chebyshev's theorem, moment-generating functions, product moments, moments of linear combinations of random variables and conditional expectations. Transformation techniques of random variables. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.



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