

# University of Pretoria Yearbook 2016

## Statistics 210 (STK 210)

**Qualification** Undergraduate

**Faculty** [Faculty of Economic and Management Sciences](#)

**Module credits** 20.00

**Programmes** [BCom Agribusiness Management](#)

[BCom Economic and Management Sc](#)

[BCom Economics](#)

[BCom Informatics: Information Systems](#)

[BCom Investment Management](#)

[BCom Law](#)

[BCom Statistics](#)

[BSocSci Option: Philosophy, Politics and Economics](#)

[BScAgric Agricultural Economics: 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** Double Medium

**Academic organisation** 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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