

University of Pretoria Yearbook 2021

Statistics 310 (STK 310)

Qualification Undergraduate

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

Module credits 25.00

NQF Level 07

Programmes [BCom](#)

[BCom Economics](#)

[BCom Informatics Information Systems](#)

[BCom Investment Management](#)

[BCom Law](#)

[BCom Statistics and Data Science](#)

[BIT Information Systems](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

Prerequisites STK 210, STK 220

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

Supervised learning. Linear and non-linear regression. Ordinary least squares and maximum likelihood estimation. Violations of the assumptions, residual analysis. Cross validation. Statistical inference. Bootstrap inference. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

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