

University of Pretoria Yearbook 2022

Statistics 310 (STK 310)

Qualification Undergraduate

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

Module credits 25.00

NQF Level 07

Programmes [BCom \(Informatics\) Information Systems](#)

[BCom \(Law\)](#)

[BCom \(Statistics and Data Science\)](#)

[BCom](#)

[BCom \(Economics\)](#)

[BCom \(Investment Management\)](#)

[BIT \(Information Systems\)](#)

[BSc \(Meteorology\)](#)

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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of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.