

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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