University of Pretoria Yearbook 2019

The science of data analytics 353 (STK 353)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	25.00
Programmes	BCom Statistics
	BSc Computer Science
	BSc Applied Mathematics
	BSc Mathematical Statistics
	BSc Mathematics
	BSc Physics
	BScAgric Agricultural Economics and Agribusiness Management
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	STK 210, STK 220 or WST 211, WST 221
Contact time	1 practical per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 2

Module content

Sampling: basic techniques in probability, non-probability, and resampling methods. Designing experiments: experimental and control groups, different data types and relationships. Big and small data: exploring popular trends used in practice. Consultation practice: ethical considerations, study design, data collection and presentation, report writing and presentation. Hands-on application of statistical software and packages to real-life datasets.