Mathematical statistics 143 (WST 143)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	8.00
NQF Level	05
Programmes	BCom extended programme
	BSc extended programme - Mathematical Sciences
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	BSc students: WST 133 and WTW 135. BCom Extended proramme students who wish to transfer to BCom (Econometrics): WST 133 and WTW 135. BCom students who wish to transfer to BCom (Economics): WST 133 and WTW 133.
Contact time	1 practical per week, 2 tutorials per week, 4 lectures per week, Foundation Course
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 2

Module content

Probability and inference:
Probability theory and theoretical distributions for continuous random variables (Uniform, Normal and t).
Sampling distributions (means and proportions). Estimation theory and hypothesis testing of sampling averages and proportions (one- and two-sample cases).
Optimisation techniques with economic applications:
Applications of differentiation in statistic and economic related problems. Integration. Applications of integration in statistic and economic related problems. Systems of equations in equilibrium. The area under a curve and applications of definite integrals in Statistics and Economics. Report writing and presentation. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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