



# University of Pretoria Yearbook 2020

## Mathematical statistics 121 (WST 121)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Economic and Management Sciences</a>
<b>Module credits</b>	16.00
<b>Programmes</b>	<a href="#">BCom</a> <a href="#">BCom Econometrics</a> <a href="#">BCom Statistics</a> <a href="#">BCom Statistics and Data Science</a> <a href="#">BSc Computer Science</a> <a href="#">BSc Information and Knowledge Systems</a> <a href="#">BSc Actuarial and Financial Mathematics</a> <a href="#">BSc Applied Mathematics</a> <a href="#">BSc Extended programme - Mathematical Sciences</a> <a href="#">BSc Mathematical Statistics</a> <a href="#">BSc Mathematics</a> <a href="#">BSc Meteorology</a> <a href="#">BSc Physics</a>
<b>Service modules</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a> <a href="#">Faculty of Economic and Management Sciences</a> <a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Prerequisites</b>	WST 111 GS or WST 133, 143 and 153
<b>Contact time</b>	1 practical per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Statistics
<b>Period of presentation</b>	Semester 2

### Module content

Sampling distributions and the central limit theorem. Statistical inference: Point and interval estimation. Hypothesis testing with applications in one and two-sample cases. Introductory methods for: Linear regression and correlation, analysis of variance, categorical data analysis and non-parametric statistics. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.



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