



# University of Pretoria Yearbook 2021

## Mathematical statistics 121 (WST 121)

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| <b>Qualification</b>          | Undergraduate   |
| <b>Faculty</b>                | <a href="#">Faculty of Economic and Management Sciences</a>   |
| <b>Module credits</b>         | 16.00   |
| <b>NQF Level</b>              | 05  |
| <b>Programmes</b>             | <a href="#">BCom</a><br><a href="#">BCom Econometrics</a><br><a href="#">BCom Statistics and Data Science</a><br><a href="#">BSc Computer Science</a><br><a href="#">BSc Information and Knowledge Systems</a><br><a href="#">BSc Actuarial and Financial Mathematics</a><br><a href="#">BSc Applied Mathematics</a><br><a href="#">BSc Chemistry</a><br><a href="#">BSc extended programme - Mathematical Sciences</a><br><a href="#">BSc Mathematical Statistics</a><br><a href="#">BSc Mathematics</a><br><a href="#">BSc Meteorology</a><br><a href="#">BSc Physics</a> |
| <b>Service modules</b>        | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a><br><a href="#">Faculty of Economic and Management Sciences</a><br><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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