

# University of Pretoria Yearbook 2022

## Mathematical statistics 121 (WST 121)

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