

# University of Pretoria Yearbook 2022

## Financial mathematics 211 (IAS 211)

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|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Qualification</b>          | Undergraduate                                                                                                                                                    |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a>                                                                                                     |
| <b>Module credits</b>         | 12.00                                                                                                                                                            |
| <b>NQF Level</b>              | 06                                                                                                                                                               |
| <b>Programmes</b>             | <a href="#">BCom (Statistics and Data Science)</a><br><a href="#">BSc (Actuarial and Financial Mathematics)</a><br><a href="#">BSc (Mathematical Statistics)</a> |
| <b>Service modules</b>        | Faculty of Economic and Management Sciences                                                                                                                      |
| <b>Prerequisites</b>          | IAS 111, IAS 121, WTW 114, WTW 123, WTW 124, WTW 152, WST 111, WST 121                                                                                           |
| <b>Contact time</b>           | 1 practical per week, 3 lectures per week                                                                                                                        |
| <b>Language of tuition</b>    | Module is presented in English                                                                                                                                   |
| <b>Department</b>             | Actuarial Science                                                                                                                                                |
| <b>Period of presentation</b> | Semester 1                                                                                                                                                       |

### Module content

Principles of actuarial modelling, cash-flow models, the time value of money, interest rates, discounting and accumulating, level annuities, deferred and increasing annuities, equations of value.

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