

# University of Pretoria Yearbook 2020

## Main principles of analysis in application 735 (WTW 735)

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| <b>Qualification</b>          | Postgraduate   |
| <b>Faculty</b>                | Faculty of Natural and Agricultural Sciences   |
| <b>Module credits</b>         | 15.00  |
| <b>Programmes</b>             | <a href="#">BScHons Applied Mathematics</a><br><a href="#">BScHons Financial Engineering</a><br><a href="#">BScHons Mathematics and Mathematics Education Algebra and Analysis</a><br><a href="#">BScHons Mathematics and Mathematics Education Applied Analysis</a><br><a href="#">BScHons Mathematics and Mathematics Education Differential Equations and Modelling</a> |
| <b>Prerequisites</b>          | Calculus at 2nd-year level (eg WTW 218) and one 3rd-year level module on analysis or applications of analysis (eg WTW 310, WTW 382, WTW 383 or WTW 386)  |
| <b>Contact time</b>           | 2 lectures per week  |
| <b>Language of tuition</b>    | Module is presented in English   |
| <b>Department</b>             | Mathematics and Applied Mathematics  |
| <b>Period of presentation</b> | Semester 1   |

### Module content

Study of main principles of analysis in the context of their applications to modelling, differential equations and numerical computation. Specific principles to be considered are those related to mathematical biology, continuum mechanics and mathematical physics as presented in the modules WTW 772, WTW 787 and WTW 776, respectively.

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