



# University of Pretoria Yearbook 2016

## Complex analysis 320 (WTW 320)

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| <b>Qualification</b>          | Undergraduate  |
| <b>Faculty</b>                | Faculty of Natural and Agricultural Sciences   |
| <b>Module credits</b>         | 18.00  |
| <b>Programmes</b>             | BSc Actuarial and Financial Mathematics<br>BSc Applied Mathematics<br>BSc Chemistry<br>BSc Environmental and Engineering Geology<br>BSc Environmental Sciences<br>BSc Geography<br>BSc Geoinformatics<br>BSc Geology<br>BSc Mathematical Statistics<br>BSc Mathematics<br>BSc Meteorology<br>BSc Physics |
| <b>Service modules</b>        | Faculty of Education   |
| <b>Prerequisites</b>          | WTW 218 and WTW 220  |
| <b>Contact time</b>           | 2 lectures per week, 1 tutorial per week   |
| <b>Language of tuition</b>    | Double Medium  |
| <b>Academic organisation</b>  | Mathematics and Applied Maths  |
| <b>Period of presentation</b> | Semester 2   |

### Module content

Series of functions, power series and Taylor series. Complex functions, Cauchy- Riemann equations, Cauchy's theorem and integral formulas. Laurent series, residue theorem and calculation of real integrals using residues.

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