

University of Pretoria Yearbook 2016

Complex analysis 320 (WTW 320)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 18.00

Programmes BSc Actuarial and Financial Mathematics

BSc Applied Mathematics

BSc Chemistry

BSc Environmental and Engineering Geology

BSc Environmental Sciences

BSc Geography

BSc Geoinformatics

BSc Geology

BSc Mathematical Statistics

BSc Mathematics

BSc Meteorology

BSc Physics

Service modules Faculty of Education

Prerequisites WTW 218 and WTW 220

Contact time 2 lectures per week, 1 tutorial per week

Language of tuition Double Medium

Academic organisation Mathematics and Applied Maths

Period of presentation 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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