

University of Pretoria Yearbook 2017

Differentiation of functions of one variable 151 (MAT 151)

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| Qualification | Undergraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 8.00 |
| Prerequisites | MPR 193 and MPR 194 |
| Contact time | 2 lectures per week, 1 discussion class per week |
| Language of tuition | Module is presented in English |
| Academic organisation | Mathematics and Applied Maths |
| Period of presentation | Semester 1 |

Module content

Functions, limits and continuity. Differential calculus of single variable functions, rate of change, curve sketching, applications. The mean value theorem, the rule of L'Hospital. Elementary functions: Exponential functions and their derivatives, logarithmic functions and their derivatives, inverse trigonometric functions, hyperbolic functions, indeterminate forms.

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