



University of Pretoria Yearbook 2023

Calculus 153 (WTW 153)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 8.00

NQF Level 05

Programmes [BEd \(Senior Phase and Further Education and Training Teaching\)](#)

[BSc extended programme - Mathematical Sciences](#)

[BSc extended programme - Physical Sciences](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Faculty of Education

Faculty of Economic and Management Sciences

Prerequisites WTW 143

Contact time 1 tutorial per week, 3 lectures per week, Foundation Course

Language of tuition Module is presented in English

Department Mathematics and Applied Mathematics

Period of presentation Semester 1

Module content

Differential calculus of a single variable with proofs and applications. The mean value theorem, the rule of L'Hospital. Upper and lower sums, definite and indefinite integrals, the Fundamental theorem of Calculus, the mean value theorem for integrals, integration techniques, with some proofs.

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