
University of Pretoria Yearbook 2016

Applications of integration 162 (MAT 162)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
Prerequisites	MAT 161
Contact time	3 lectures per week, 2 discussion classes per week
Language of tuition	English
Academic organisation	Mathematics and Applied Maths
Period of presentation	Quarter 4

Module content

Applications of integration: Areas between curves, volumes, volumes by cylindrical shells, work, average value of a function. Further applications of integration: Arc length, area of a surface of revolution. Differential equations: Modelling with differential equations, direction fields and Euler's method, separable equations, linear equations. Vector functions and multivariable functions.

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