

# University of Pretoria Yearbook 2017

## Differential equations 256 (WTW 256)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Natural and Agricultural Sciences
<b>Module credits</b>	8.00
<b>Programmes</b>	<p>BEng Chemical Engineering</p> <p>BEng Chemical Engineering ENGAGE</p> <p>BEng Civil Engineering</p> <p>BEng Civil Engineering ENGAGE</p> <p>BEng Computer Engineering</p> <p>BEng Computer Engineering ENGAGE</p> <p>BEng Electrical Engineering</p> <p>BEng Electrical Engineering ENGAGE</p> <p>BEng Electronic Engineering</p> <p>BEng Electronic Engineering ENGAGE</p> <p>BEng Industrial Engineering</p> <p>BEng Industrial Engineering ENGAGE</p> <p>BEng Mechanical Engineering</p> <p>BEng Mechanical Engineering ENGAGE</p> <p>BEng Metallurgical Engineering</p> <p>BEng Metallurgical Engineering ENGAGE</p> <p>BEng Mining Engineering</p> <p>BEng Mining Engineering</p> <p>BEng Mining Engineering ENGAGE</p> <p>BSc Mathematics</p> <p>BSc Physics</p>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	WTW 158 and WTW 164
<b>Contact time</b>	1 discussion class per week, 2 lectures per week
<b>Language of tuition</b>	Separate classes for Afrikaans and English

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**Academic organisation** Mathematics and Applied Maths

**Period of presentation** Semester 1

**Module content**

Theory and solution methods for linear differential equations as well as for systems of linear differential equations. Theory and solution methods for first order non-linear differential equations. The Laplace transform with application to differential equations. Application of differential equations to modelling problems.

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