

## University of Pretoria Yearbook 2018

## Differential equations 256 (WTW 256)

Faculty       Faculty of Natural and Agricultural Sciences         Module credits       8.00         Programmes       BEng Chemical Engineering         BEng Chemical Engineering ENGAGE         BEng Civil Engineering         BEng Civil Engineering ENGAGE         BEng Computer Engineering         BEng Computer Engineering ENGAGE         BEng Electrical Engineering         BEng Electrical Engineering         BEng Electronic Engineering         BEng Electronic Engineering         BEng Industrial Engineering         BEng Industrial Engineering         BEng Industrial Engineering         BEng Mechanical Engineering         BEng Mechanical Engineering         BEng Mechanical Engineering ENGAGE         BEng Metallurgical Engineering ENGAGE         BEng Metallurgical Engineering ENGAGE         BEng Mining Engineering         BEng Mining Engineering ENGAGE         BEng Mechanical Engineering E	Qualification	Undergraduate
Programmes  BEng Chemical Engineering ENGAGE  BEng Civil Engineering ENGAGE  BEng Civil Engineering ENGAGE  BEng Computer Engineering  BEng Computer Engineering  BEng Computer Engineering ENGAGE  BEng Electrical Engineering ENGAGE  BEng Electrical Engineering ENGAGE  BEng Electronic Engineering ENGAGE  BEng Electronic Engineering ENGAGE  BEng Industrial Engineering  BEng Industrial Engineering  BEng Industrial Engineering  BEng Mechanical Engineering ENGAGE  BEng Mechanical Engineering ENGAGE  BEng Metallurgical Engineering ENGAGE  BEng Metallurgical Engineering ENGAGE  BEng Metallurgical Engineering ENGAGE  BEng Mining Engineering  BEng Metallurgical Engineering ENGAGE  BEng Mining Engineering  BEng Mining Engineering ENGAGE	Faculty	Faculty of Natural and Agricultural Sciences
BEng Chemical Engineering ENGAGE BEng Civil Engineering BEng Computer Engineering BEng Computer Engineering BEng Computer Engineering BEng Computer Engineering ENGAGE BEng Computer Engineering ENGAGE BEng Electrical Engineering ENGAGE BEng Electrical Engineering ENGAGE BEng Electronic Engineering BEng Electronic Engineering BEng Beng Industrial Engineering ENGAGE BEng Industrial Engineering BEng Mechanical Engineering BEng Mechanical Engineering BEng Mechanical Engineering ENGAGE BEng Metallurgical Engineering ENGAGE BEng Mining Engineering BEng Mining Engineering BEng Metallurgical Engineering ENGAGE BEng Mining Engineering BNGAGE BEng Mining Engineering BNGAGE BEng Mining Engineering BNGAGE BEng Mining Engineering ENGAGE BEng Mining Engineering Engineering Engine	Module credits	8.00
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Service modulesFaculty of Engineering, Built Environment and Information TechnologyPrerequisitesWTW 158 and WTW 164Contact time1 discussion class per week, 2 lectures per week		BSc Mathematics
Prerequisites WTW 158 and WTW 164  Contact time 1 discussion class per week, 2 lectures per week		BSc Physics
Contact time 1 discussion class per week, 2 lectures per week	Service modules	Faculty of Engineering, Built Environment and Information Technology
	Prerequisites	WTW 158 and WTW 164
Language of tuition Separate classes for Afrikaans and English	Contact time	1 discussion class per week, 2 lectures per week
	Language of tuition	Separate classes for Afrikaans and English
<b>Department</b> Mathematics and Applied Mathematics	Department	Mathematics and Applied Mathematics



## **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.

The information published here is subject to change and may be amended after the publication of this information. The **General Regulations** (**G Regulations**) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the **General Rules** section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.