# Differential equations 256 (WTW 256)

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| **Qualification** | Undergraduate |
| **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 ENGAGE |
| | BEng Electronic Engineering |
| | BEng Electronic Engineering ENGAGE |
| | BEng Industrial Engineering |
| | BEng Industrial Engineering ENGAGE |
| | BEng Mechanical Engineering |
| | BEng Mechanical Engineering ENGAGE |
| | BEng Metallurgical Engineering |
| | BEng Metallurgical Engineering ENGAGE |
| | BEng Mining Engineering |
| | BEng Mining Engineering ENGAGE |
| | BSc Mathematics |
| | BSc Meteorology |
| | BSc Physics |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology |
| **Prerequisites** | WTW 158 and WTW 164 |
| **Contact time** | 1 tutorial per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |

| **Department** | Mathematics and Applied Mathematics |
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| **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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