



University of Pretoria Yearbook 2016

Process control 410 (CPB 410)

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| Qualification | Undergraduate |
| Faculty | Faculty of Engineering, Built Environment and Information Technology |
| Module content | Dynamic properties of equipment, instruments and processes. Mathematical modelling and computer simulation of processes in the time, Laplace and frequency domains. Linearisation and non-linear processes. Stability of control systems. Controller tuning. Methods for process identification. Digital process control. Z-transforms. Use of computers and microprocessors. Introduction to modern control theory: state-space approach. Applied process control. Choice of control instrumentation. Plantwide control strategy. Development of P and IDs. |
| Module credits | 16.00 |
| Programmes | BEng Chemical Engineering BEng Chemical Engineering Engage BScHons Applied Science Applied Science: Chemical Technology BScHons Applied Science Applied Science: Control |
| Prerequisites | CPN 321 GS |
| Contact time | 3 tutorials per week, 4 lectures per week |
| Language of tuition | Both Afr and Eng |
| Academic organisation | Chemical Engineering |
| Period of presentation | Semester 1 |

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