

University of Pretoria Yearbook 2017

Engineering economics 420 (BIE 420)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 8.00

Programmes BEng Industrial Engineering

BEng Industrial Engineering ENGAGE

Prerequisites No prerequisites.

Contact time 3 lectures per week

Language of tuition Separate classes for Afrikaans and English

Academic organisation Industrial and Systems Eng

Period of presentation Semester 2

Module content

Money-time relationships and equivalence (interest formulae, effective interest rate, bonds and loans). Bases for comparison of alternatives (present worth, annual worth, Internal rate of return, external rate of return, investment balance diagrams, Decision making among alternatives (useful lives equal to study period, useful lives different among alternatives, mutually exclusive alternatives in terms of combinations of proposals). The influence of inflation on engineering economic calculations. Decision making among alternatives on an after-tax basis. Replacement analysis (the economic life of an asset, retirement without replacement). Risk analysis of cash flows.

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