



University of Pretoria Yearbook 2021

Engineering technology economics 780 (IKN 780)

Qualification Postgraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

NQF Level 08

Programmes [BEngHons Engineering and Technology Management](#)

[BScHons Applied Science Mechanics Physical Asset Management](#)

[BScHons Engineering and Technology Management](#)

Prerequisites No prerequisites.

Contact time 20 contact hours per semester

Language of tuition Module is presented in English

Department Engineering and Technology Management

Period of presentation Semester 1 and Semester 2

Module content

Engineering Economy assists the engineer in making a wide range of decisions. These decisions involve the fundamental elements of monetary cash flow, time, value of money, project life and the interest rate.

Engineering Economy calculates the net present worth, future worth, annual equivalent worth and the internal rentability of the cash flows of the alternatives under consideration. By applying these values in different ways, the most economical alternative can be identified. Calculation of these values for a cash flow takes into account the effective interest rate, inflation and the income tax payable.

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