

University of Pretoria Yearbook 2021

Civil engineering economics 310 (SIE 310)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
NQF Level	07
Programmes	BEng Civil Engineering BEng Civil Engineering ENGAGE
Prerequisites	No prerequisites.
Contact time	2 lectures per week, 2 other contact sessions per week
Language of tuition	Module is presented in English
Department	Civil Engineering
Period of presentation	Semester 1

Module content

Introduction to engineering economics: Basic guidelines, assessment of alternative investment possibilities.

Equal annual cash flow, current value, internal rate of return, cost benefit relationship.

Economic evaluation of projects: Influence of depreciation on the economics of projects, determination of income tax implications of decisions, economic analysis of multiple alternatives, the influence of inflation on the economics of projects, application of the theory of probability for economics studies, economic studies on the replacement of equipment.

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