

BBSE3009 Project Management and Engineering Economics

<http://www.mech.hku.hk/bse/bbse3009/>

Summary of Teaching (Dr. Sam C. M. Hui) [Engineering Economics]

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| 1. Basics of engineering economics 1.1 What is Engineering Economics? 1.2 Engineering Economic Decisions 1.3 Engineering Projects & Decisions 1.4 Fundamental Principles of Economics 1.5 Time Value of Money 1.6 Interest Calculations | 3. Engineering economics analysis 3.1 Nominal and Effective Interest Rates 3.2 Equivalence Calculations using Effective Interest Rates 3.3 Debt Management 3.4 Inflation and Economic Analysis 3.5 Measuring Inflation 3.6 Equivalence Calculations Under Inflation |
| 2. Economic equivalence 2.1 Economic Equivalence (EE) 2.2 Cash Flow & Interest Formulas - Single Cash Flow - Multiple (Uneven) Payments - Equal Payment (Uniform) Series - Linear Gradient Series - Geometric Gradient Series | 4. Decision making among alternatives 5.1 Evaluate Engineering Projects 5.2 Present-Worth Analysis 5.3 Comparing Mutually Exclusive Projects 5.4 Annual Equivalence Analysis 5.5 Rate of Return Analysis 5.6 Benefit-Cost Analysis |

Concept Map:

