Appendix 2

# Course Schedule

**Semester Autumn 2021**

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| 1. **Course information:** |
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| 1. **Course expected learning outcomes** |
| At the end of this course, the outcomes expected are :   1. an ability to formulate engineering economy problems; 2. an ability to account for time value of money using engineering economy factors and formulas; 3. an ability to determine the economic worth of a single project; 4. an ability to compare multiple projects based on economic measures of worth; |
| 1. **Teaching Calendar:** |
| |  |  |  | | --- | --- | --- | | Course Calendar | Teaching Contents | Teaching time | | | Lecture 1 | An overview of engineering economic analysis | 3 h | | Lecture 2 | Cash flow diagram and single cash flow | 3 h | | Lecture 3 | Multiple cash flow I: uniform series | 3 h | | Lecture 4 | Multiple cash flow II: gradient series | 3 h | | Lecture 5 | Multiple cash flow III: geometric series | 3 h | | Lecture 6 | Equivalence I | 3 h | | Lecture 7 | Equivalence II | 3 h | | Lecture 8 | Review/practice session | 3 h | | Lecture 9 | Midterm | 3 h | | Lecture 10 | Loans I | 3 h | | Lecture 11 | Loans II | 3 h | | Lecture 12 | Bonds I | 3 h | | Lecture 13 | Bonds II | 3 h | | Lecture 14 | Present worth I | 3 h | | Lecture 15 | Present worth II | 3 h | | Lecture 16 | Review/practice session | 3 h | |
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| Note:  a. The teaching contents may be adjusted according to student response and feedback.  b. The lecture is either rescheduled to another date or cancelled if on national holidays, inconsistent with the university timetabling. |
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| 1. **Textbooks and reference books:** |
| Textbook – Fundamentals of Engineering Economic Analysis, White, J.A., K.S. Grasman, Case, K.E. LaScola Needy, D.B. Pratt, 1st edition, John Wiley & Sons, 2014. |
| 1. **Evaluation Forms and Scoring Standards:** |
| Final exam: 60%, Others: 40%   |  |  | | --- | --- | | Evaluation Forms | Weight | | Participation | 10% | | Midterm | 30% | | Final | 60% | | Total | 100% | |