

國立金門大學

教學綱要

部別：日間部學士班

114學年度第2學期

列印日期：2026/01/21

科目名稱：工程經濟 (Engineering Economics) 開課班級：工管二 學 分：3.0 授課時數：3.0
授課教師：呂立鑫 必選修：必修

1. 教學目標

This course aims to introduce economic decision-making issues related to engineering, allowing engineers to integrate engineering practice features and economic analysis principles into the engineering projects in the design, manufacturing and distribution processes of the product lifecycle. The cost is quantified to determine whether the capital investment required for this project is worthwhile.

2. 教學綱要

1. Understanding Money and Its Management.
2. Evaluating Business and Engineering Assets.
3. Development of Project Cash Flow.
4. Special Topics in Engineering Economics.

3. 教科書

書名：Fundamentals of Engineering Economics 3/e (ISBN: 9780273772910)

1 出版日期：年 月

作者：Chan S. Park 出版社：Pearson Education Limited 版本：

4. 參考書

1 書名：工程經濟(Fundamentals of Engineering Economics 3/e) 出版日期：年 月

作者：編譯：邱垂昱、馮炳勳，原著：Chan S. Park 出版社：台灣培生教育出版 版本：

2 書名：工程經濟學(Engineering Economy 16/e) 出版日期：年 月

作者：編譯：李克聰、原著：Sullivan, Wicks, Koelling 出版社：台灣培生教育出版 版本：

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5. 教學進度表

週次	日期	內容	備註
1	2026/02/22—2026/02/28	Engineering Economic Decisions	
2	2026/03/01—2026/03/07	Time Value of Money	
3	2026/03/08—2026/03/14	Time Value of Money	
4	2026/03/15—2026/03/21	Understanding Money Management	
5	2026/03/22—2026/03/28	Equivalence Calculations under Inflation	
6	2026/03/29—2026/04/04	Present-Worth Analysis	
7	2026/04/05—2026/04/11	Holiday	
8	2026/04/12—2026/04/18	Midterm Exam	
9	2026/04/19—2026/04/25	Annual Equivalence Analysis	
10	2026/04/26—2026/05/02	Rate-of-Return Analysis	
11	2026/05/03—2026/05/09	Benefit—Cost Analysis	
12	2026/05/10—2026/05/16	Accounting for Depreciation and Income Taxes	
13	2026/05/17—2026/05/23	Accounting for Depreciation and Income Taxes	
14	2026/05/24—2026/05/30	Replacement Decisions	

15	2026/05/31—2026/06/06	Replacement Decisions	
16	2026/06/07—2026/06/13	Final Exam	
17	2026/06/14—2026/06/20	Total review	
18	2026/06/21—2026/06/27	Total review	

6. 成績評定及課堂要求

Grade Evaluation: Usual Grades (including quizzes, class attendance, participation, homework and reports)50% , Midterm Exam 25% , Final Exam 25% 。
Attending On Time.

8. 永續發展目標(SDGs): SDG4 優質教育

9. 大學社會責任(USR)關聯性: 中