

Course Information	
Course title	Engineering Economics
Semester	114-2
Designated for	DEPARTMENT OF CIVIL ENGINEERING
Instructor	I-YUN LISA HSIEH
Curriculum Number	CIE3025
Curriculum Identity Number	501E35700
Class	01
Credits	2.0
Full/Half Yr.	Half
Required/ Elective	Required
Time	Wednesday 7,8(14:20~16:20)
Remarks	Restriction: within this department (including students taking minor and dual degree program) AND Restriction: juniors The upper limit of the number of students: 20.
Course introduction video	
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning
Course Syllabus	
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Course Description	One of the most significant challenges for civil engineers is the need to deliver infrastructure effectively and efficiently while simultaneously ensuring quality, mitigating risk, and controlling project delivery. Engineering economics, also called capital allocation theory, financial decision analysis, and management economics, provides engineers with a logical set of tools evaluating various mutually exclusive investments or engineering projects to support and facilitate decision-making processes. This course covers the significance of engineering economics, cost

	<p>concepts and behaviors, the relationship between time and money, comparison and evaluation methods of engineering projects, risk and uncertainty analysis, and special discussions. By the end of the course, students will learn how to incorporate engineering economics as part of the evaluations occurring at each phase in the practical engineering project lifecycle.</p>	
Course Objective	<p>Modern engineers are often involved in various management roles or decisions in their vocational training. Technical knowledge alone is not enough for engineers in today's complex and dynamic environments. Engineers need to know how to analyze industry and economy, and evaluate projects quantitatively to choose the best solution. The major objectives of the Engineering Economics course are: (1) to introduce the basic concepts suitable for economic analysis of engineering; (2) to familiarize students with the fundamental quantitative analysis techniques required for large-scale engineering projects.</p>	
Course Requirement		
Student Workload (Expected weekly study hours before and/or after class)		
Office Hours		
Designated reading		
References	李克聰。工程經濟學(四版)	
Grading	<ol style="list-style-type: none"> 1. NTU has not set an upper limit on the percentage of A+ grades. 2. NTU uses a letter grade system for assessment. The grade percentage ranges and the single-subject grade conversion table in the NATIONAL TAIWAN UNIVERSITY Regulations Governing Academic Grading are for reference only. Instructors may adjust the percentage ranges according to the grade definitions. For more information, see the Assessment for Learning Section. 	
Progress		
Week	Date	Topic