Syllabus for 2022 1st semester

The result of the most recent course evaluation: ★★★★

[Course Basic Information]

Course Title	Engineering Economy			Classroom	Frontier Hall(032)-316
				Lecture Time	Wed(7 ~ 9)
Attachment	No file	Course Language	Module (M)	Intensive Session	
Department	Department of Industrial and Systems Engineering[IT Management]			Grade/ Semester	2 / 1
Credit Classification	Major Electives	Credits	3 (Theory:3, Practice:0)	Course Code/ Class Code	146069 / 21001
Lecture Type	☐ Offline ☐ Online ☑ Blended ☐ Team Teaching				
Teaching Methods	☐ Lecture ☑ Discussion ☐ Project-based/Problem-based ☐ Laboratory Practice ☐ Flipped ☐ Internship ☐ Studio ☐ etc.				
EPiC Core Competency	Humanities 0 %	Communication 10 %	Academic 60 %	Global 20 %	Creativity 10 %	Convergence 0 %

[Prof. Information]

Prof. Name	Ahn, JaeKyoung	Office Bldg.	Frontier #613
Phone	010-9720-6479	E-mail	jkahn@seoultech.ac.kr
Home Page		Office Hours	THU (11 ~ 12)

[Course Overview]

Course Overview	This module aims to provide the student with an introduction to economic decision making. This covers the basics of economic analysis from an engineering perspective, dealing with the principles and methods for analyzing the economic feasibility of alternatives and for making selection decisions among them.						
Course Objectives	This module aims to provide students with frameworks, concepts, and tools from the disciplines of economics and finance, so that the students should be able to evaluate and identify which alternative should be selected on the basis of economic criteria. More important, they should be able to understand and communicate with management, especially people who work in finance and accounting						
Grading System	방법	① Attendance ☐	② Mid term ☑	③ Final ☑	④ Homework ☐	⑤ Team ☐	⑥ Others ☐
	배점 (비율)	0 %	40 %	60 %	0 %	0 %	0 %
	평가방법	Midterm(40%), Final Exam(60%)					
Textbooks & References	L.T. Blank and A.J. Tarquin, Engineering Economy, 8th ed. McGraw Hill, 2018						
Classroom Equipment							

[출결관리기준]

(학칙 제77조제3항) 수업일수 3분의 2이상 출석하고, 시험성적이 D0 이상이면 취득학점으로 인정
* 3분의 1초과 결석 시에는 출석미달로 "F"학점 부여
(학사관리규정 제22조의4) 지각 3회는 결석 1회로 환산 처리

[장애학생 지원 사항]

장애로 인하여 학습에 어려움을 겪는 경우 담당 교수와 상담을 통해 수업에 필요한 편의를 제공받을 수 있음
장애학생지원센터 : 제2학생회관 2층 201호 (Tel. 02-970-6054)

[Course Schedule]

Week	Contents	Lecture Methods, Assignments, Contents of Evaluation
1	Chapter 1. Fundamentals of Engineering Economy	블렌디드
2	Chapter 2. Factors: How time and interest affect money	블렌디드
3	Chapter 3. Combining Factors and Spreadssheet Functions	블렌디드
4	Chapter 4. nomonal and effective interest rates	블렌디드
5	Chapter 5. Present worth analysis	블렌디드
6	Chapter 6. Annual worth analysis	블렌디드
7	Chapter 7. Rate of return Analysis	블렌디드
8	Midterm-Exam	대면

9	Chapter 8. Rate of return Analysis	블렌디드
10	Chapter 9. Benefit/cost Analysis and public sector economics Chapter 13. Breakeven and payback analysis	블렌디드
11	Chapter 14. Effects of inflation	블렌디드
12	Chapter 16. Depreciation methods	블렌디드
13	Chapter 17. After-tax economic analysis	블렌디드
14	Q&A	블렌디드
15	Final Exam	대면