

UNR2303 Engineering Economy**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
None	2	4	2	0	0	2

COURSE AIM

This course aims at the study of basic concepts emphasizing analysis of aggregate economy and examination of the processes of price determination and calculation of optimum demand for maximum profit. It also introduces the basic principles of money-time relationship, methods of investment assessment and fundamental techniques of comparison of investment opportunities and theories of depreciation of physical facilities and study of cost recovery systems.

COURSE WEEKLY CONTENTS

- 1 Introduction and overview.
- 2 Cost Analysis.
- 3 Principles of money – time relations, the concept of economic equivalence.
- 4 Cash flow diagrams: Interest formulas and uniform series.
- 5 Cash flow diagrams: Uniform gradient series
- 6 Nominal and effective interest rates, continuous compounding and continuous cash flows.
- 7 7th Week assessment+ Applications of engineering economy..
- 8 Applications of engineering economy: Methods of investment assessment (1).
- 9 Applications of engineering economy: Methods of investment assessment (2).
- 10 Comparing alternatives: Useful life is equal to the study period..
- 11 Comparing alternatives: Useful life different from the study period.
- 12 12th Week assessment + Depreciation.
- 13 Depreciation.
- 14 Evaluating Projects with Benefit-to Cost ratio Method.
- 15 Revision.

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook • William G Sullivan, Elin M Wicks, & C. Patrick Koelling, "Engineering Economy", 15th Edition, Prentice Hall, 2011.