

ISEN 2624 - Engineering Economy

Fall 2026 Syllabus, Section 02, CRN 42632,

Credit hours: 3

Instructor

Bharat Yelamanchi

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Public Instructor Information

Instructor Title: Assistant Professor

Instructor Professional Qualifications:

Ph.D., Materials Science and Engineering, Youngstown State University

M.S., Industrial and Systems Engineering, Youngstown State university

B.Tech, Mechanical Engineering, KLCE

Instructor Office Location: Moser Hall 2420

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Course Description

2624. Engineering Economy. The analysis and evaluation of factors that affect the economic success of engineering projects. Topics include interest, depreciation, cost classification, comparison of alternatives, make-buy decisions, replacement models and after-tax analysis. Prereq.: C or better in one of MATH 1570 or MATH 1571 or MATH 1571H or MATH 1585H. Prereq. or Coreq.: ENGR 1560 or ENGR 1560H. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Connect Online Access for Engineering Economy	Leland Blank; Anthony Tarquin	9781265555191

L. Blank and A. Tarquin, Engineering Economy (9th Edition), McGraw-Hill.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Foundations of Engineering Economy	Read the chapter and go over the previous in-class work sheet
8/31	How time and Interest affect money	Read the chapter and go over the previous in-class work sheet
9/7	Nominal and Effective Interest Rates	Read the chapter and go over the previous in-class work sheet
9/14	Nominal and Effective Interest Rates	Read the chapter and go over the previous in-class work sheet
9/21	Present Worth and Future Worth Analysis	Read the chapter and go over the previous in-class work sheet
9/28	Present Worth and Future Worth Analysis	Read the chapter and go over the previous in-class work sheet
10/5	Annual Worth Analysis	Read the chapter and go over the previous in-class work sheet
10/12	Annual Worth Analysis	Read the chapter and go over the previous in-class work sheet
10/19	Rate of Return Analysis	Read the chapter and go over the previous in-class work sheet
10/26	Rate of Return Analysis	Read the chapter and go over the previous in-class work sheet
11/2	Rate of Return Analysis	Read the chapter and go over the previous in-class work sheet
11/9	Cost / Benefit Analysis	Read the chapter and go over the previous in-class work sheet
11/16	Cost / Benefit Analysis	Read the chapter and go over the previous in-class work sheet

11/23	Breakeven, Payback	Read the chapter and go over the previous in-class work sheet
11/30	Breakeven, Payback	Read the chapter and go over the previous in-class work sheet
12/7	Effect of Inflation	Read the chapter and go over the previous in-class work sheet

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.