ENGM 536: Financial Management

Course Description

This course provides students with a comprehensive understanding of financial principles essential for effective decision-making in engineering and technology-driven organizations. It explores the operation of capital markets, the various methods companies use to raise funds, and the techniques employed to evaluate investment opportunities and manage financial risks. The course integrates mathematical, statistical, and spreadsheet models to support financial analysis and decision-making. Through case studies, students will apply theoretical concepts to real-world financial scenarios, enhancing their ability to assess financial strategies in an engineering management context.

Course Learning Outcomes

By the end of the course, students will be able to:

1. Demonstrate critical knowledge and understanding of capital markets, financial risk management, and investment evaluation techniques in an engineering management context.
2. Use professional level skills to apply financial strategies and capital raising methods used by engineering enterprises
3. Critically analyze investment decisions and financial risk using financial modeling, statistical analysis, and spreadsheet-based techniques.
4. Communicate financial insights effectively to both technical and non-technical stakeholders
5. Develop a strategic financial management approach for engineering enterprises, demonstrating autonomy in financial decision-making.

Learning Resources

Atrill, P. (2018). Financial Management for Decision Makers, 10th Edition, Pearson. ISBN: 9781292311432

Course Content

1. The world of financial management
2. Financial planning
3. Making capital investment decisions
4. Financing a business 1: sources of finance
5. Financing a business 2: raising long-term finance
6. The cost of capital and the capital structure decision
7. Managing working capital
8. Measuring and managing for shareholder value
9. Business mergers and share valuation
10. International aspects of financial management