

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND423	Finance Engineering	8	3	0	0	3	5
Prerequisites							
Admission Requirements							
Language of Instruction	French						
Course Type	Compulsory						
Course Level	Bachelor Degree						
Objective	<p>The aim of this course is to equip students with knowledge and skills concerning fundamentals of financial management, financial instruments and portfolio management.</p> <ul style="list-style-type: none"> - Enterprise cycle. Review of balance sheet and income statement. - Sources-uses statement. Cash flow statement. - Applications of sources-uses statement and cash flow statement. - Financial ratio analysis. Profitability analysis. Liquidity analysis. Financial structure. Market ratios. - Financial budgeting. Breakeven analysis and leverages. - Financial forecasting models. Financial mathematics. - Risk analysis in investment decisions. Estimating risk of a portfolio. Diversification. Relationship between risk and return. 						
Content	<ul style="list-style-type: none"> - Modern portfolio theory (MPT). Capital asset pricing model (CAPM). - Measuring the performance of a portfolio. - Value at risk (VaR). - Net present value. Internal rate of return. Payback period. Profitability index. Cost of capital. - Evaluation of stocks and bonds. - Calculating enterprise value using discounted cash flow analysis. - Introduction to financial options. Option types. 						
References	<ul style="list-style-type: none"> - Weston, J.F., Brigham, E.F., "Essentials of Managerial Finance", Ninth Edition, The Dryden Press, 1990. - Zutter, C.J., Smart, S.B., Principles of Managerial Finance, Fifteenth edition, Pearson, 2019. 						

Theory Topics

Week	Weekly Contents
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