

University of Toronto; Faculty of Applied Science and Engineering.

Course Outline: Financial Management for Engineers. APS1016H. Fall 2018

Entrepreneurship, Leadership, Innovation and Technology In Engineering (ELITE) Certificate.

Instructor: Babu Gajaria

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Recommended text book:

Fundamentals of Corporate Finance. Eighth Canadian Edition. Ross; Westerfield; Jordan, Roberts. Publishers: McGraw-Hill Ryerson

Ancillary text books:

The dark side of valuation: 2nd edition 2009. Aswath Damodaran; FT Prentice Hall. *The Dark Side of Valuation, 2nd Edition: Valuing Young, Distressed, and Complex Businesses* (FT Press, ISBN-13: 9780137126897)

Valuation: Measuring and Managing the Value of Companies, 5th Edition
McKinsey & Company Inc., Tim Koller, Marc Goedhart, David Wessels
ISBN: 978-0-470-42469-8

Hardcover

811 pages

July 2010. Publishers Wiley

Course description:

The Financial Management for Engineers course will focus on valuation of public companies, in particular new technology, and new economy and natural resources companies. The students will be exposed to classical equity valuation methods; such as discounted cash flow analysis, Net asset value, fundamental analysis and relative value analysis, using measures such as P/E multiples and P/Cash flow multiples. The students will be introduced to the principles of Bond and Stock valuations with a special emphasis on its relation to the cost of capital.

The course will take an in depth view of capital budgeting, capital investment decisions and project analysis and evaluations. It will introduce students to the concept risk and return in equity markets. The students will get hands on experience in calculating cost of capital and hence the appropriate discount rate to use in valuations. Theory of optimal

capital structure and financial leverage will be discussed in addition to economic value added principles. The relevance of dividends and dividend policy will be debated in class. The concept of “does dividend policy matter” will be subject of a vigorous debate. Finally the topic of mergers and acquisitions will be covered in depth, with particular reference to recent mergers of Canadian companies.

Instructions approach will focus on case analysis, lectures and discussions, review and critical analysis of financial news.

Fall 2018, teaching schedule: APS 1016: Financial Management for Engineers

Week	Subject	Class activity
1 Sept. 12 th 2018	Introductions	PPT lectures and discussions
2 Sept. 19 th 2018	Financial statements analysis	PPT lectures and discussions. Group case assignment 1 posted on course website
3 Sept. 26 th 2018	Discounted cash flow analysis	PPT lectures and discussions. Business topics in news
4 Oct. 3 rd 2018	Project selection NPV or IRR?	PPT lectures and discussions
5 Oct 10 th 2018	Bond and stock valuations	PPT lectures and discussions.
6 Oct 17 th 2018	Cost of capital	PPT lectures and discussions.

		Group Case assignment 2 posted on course website
7 Oct. 24 th 2018	Fundamental and relative value analysis. Co equity valuations. P/E and P/CF valuation techniques	Case assignment 1 due Group project report posted on course website. PPT lectures and discussions.
8 Oct 31 st 2018	Capital budgeting and capital investment decisions	PPT lectures and discussions case
9 Nov. 7 th 2018	Risk and return in equity markets	PPT lectures and discussions. Case assignment 2 due
10 Nov. 14 th 2018	Optimal Capital structure and financial leverage and Economic Value added (EVA) analysis.	PPT lectures and discussions
11 Nov. 21 st 2018	Dividends and dividends policy	Group project report due. PPT lectures and discussions
12 Nov. 28 th 2018	Mergers and acquisitions	PPT lectures and discussions
13 Dec. 5 th 2018	Final exam.	Closed book in class exam

Course evaluations:

1. Participation: 10%
2. 2 Case analysis reports(group work): 30 %
3. Project report(group work): 35%
4. Final exam: Individual: 25%