

University of Toronto; Faculty of Applied Science and Engineering.

Course Outline: Financial Management for Engineers. APS1016H. Fall 2023

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

The course for this term will be offered in class in room BA 1200 (Bahen building). Classes will be held on Wednesdays from 12 noon to 3 pm. Classes start on September 13th 2023, the end date for the course is December 6th 2023

All assignments will be done in a group basis and must be submitted in a hard copy (paper) report at beginning of class on due date. One report per group.

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 online. The concept of “does dividend policy matter” will be subject of a vigorous debate online, participation by all students is strongly recommended. Finally the topic of mergers and acquisitions will be covered in depth, with particular reference to recent mergers of Canadian companies.

Week	Subject	Class activity
1 Sept 13 th 2023	Introductions	PPT lectures and discussions
2 Sept 20 th 2023	Financial statements analysis	PPT lectures and discussions. Case assignment 1 posted on course website
3 Sept 27 th 2023	Discounted cash flow analysis	PPT lectures and discussions. Business topics in news
4 Oct 4 th 2023	Project selection NPV or IRR?	PPT lectures and discussions
5	Bond and stock valuations	PPT lectures and discussions.

Oct 11 th 2023		
6 Oct 18 th 2023	Cost of capital	PPT lectures and discussions. Case assignment 2 posted on course website
7 Oct 25 th 2023	Fundamental and relative value analysis. Co equity valuations. P/E and P/CF valuation techniques	Case assignment 1 due Project report posted on course website. PPT lectures and discussions.
8 Nov 1 st 2023	Capital budgeting and capital investment decisions	PPT lectures and discussions case
9 Nov 8 th 2023	Risk and return in equity markets	PPT lectures and discussions. Case assignment 2 due
10 Nov 15 th 2023	Optimal Capital structure and financial leverage and Economic Value added (EVA) analysis.	PPT lectures and discussions
11 Nov 22 nd 2023	Dividends and dividends policy	Project report due. PPT lectures and discussions
12 Nov 29 th 2023	Mergers and acquisitions	PPT lectures and discussions
13 Dec 6 th 2023	Final Exam , in class	

Course evaluations:

1. Participation: 10%, individually
2. 2 Case analysis reports: 40 % (20% each) To be done in groups
3. Project report: 25%. To be done in groups
4. Final exam: 25%. Closed book, In class