Midterm test results

Median: 60% The same median for all 2 sections

- Your mark will be released on Tuesday, 9 March 2021 evening before 11:59 PM
- Your mark will be distributed on the Examsoft portal
 - https://wiki.nus.edu.sg/pages/viewpage.action?pageId=219418245
- Your mark will also be published on LumiNUS gradebook
 - Remember to click the VERIFY button after checking your mark
- If you have any questions, please email deserina@nus.edu.sg

I may answer them all together by the next class (16 March)

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Note on how to read the report from Examplify

- The question you answered correctly will be indicated by green color
- The question you answered incorrectly will be indicated by red color



indicates the correct answer, and NOT your answer

X A:

X B: > C: X D:

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Week 7 survey

Please fill-up the Week 7 survey on Luminus

Tools → Survey → FIN2704/X: Week 7 Survey

Information will be used to organize the module for the rest of the semester, including for the final exam

 This module follows the guidelines set by the Business School

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Week 7 Zoom lecture

It is recorded and the video is posted on LumiNUS

Tools → Multimedia → Week 7 FIN2704/X Videos

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FIN2704/X Week 8

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NPV

- Do we accept a project when NPV = 0?
 - Cost = Benefit
 - You will be <u>indifferent</u> between taking the project or not
 - Either decision would be appropriate
- In this module and in many cases, we always use NPV to decide

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NPV – comparing 2 projects Example from Wk 8 slide 62

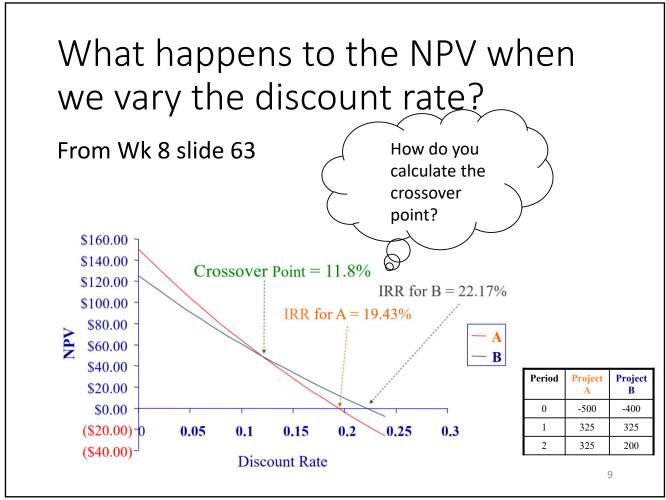
Period	Project A	Project B
0	-500	-400
1	325	325
2	325	200
IRR	19.43%	22.17%
NPV	64.05	60.74

Required return for both projects = 10%

Which project to take?

- You should accept both projects since they both have positive NPV, given the appropriate required rate of return
- If they are mutually exclusive, you choose the one with the higher NPV using the appropriate required rate of return
 - Project A in this case

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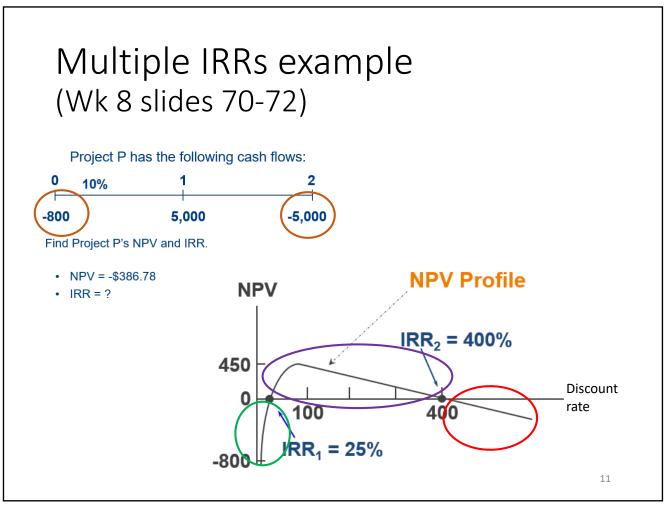


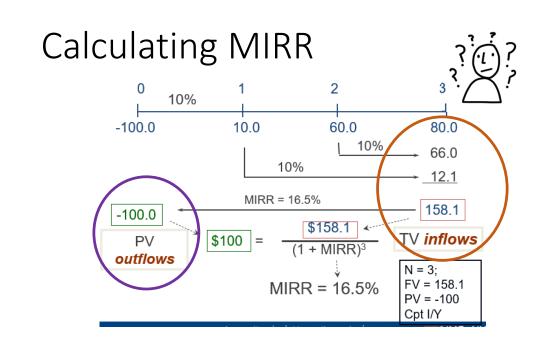
o

IRR and MIRR

- IRR
 - Represents the hypothetical discount rate that would make the firm/project NPV = 0
 - Think of this as the expected rate of return of the project
 - Note: IRR is not the market discount rate, or the required return of the firm/project
- IRR vs. MIRR
 - IRR is still useful because IRR doesn't require WACC assumption
 - IRR represents the "true" rate of return
 - MIRR requires WACC assumption and therefore, MIRR may not be the true rate of return of the project

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WACC

- A firm's after-tax equity and debt financing costs
- Averaged using the market value weightage of their relative fraction in the total firm financing

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Payback & Discounted payback

- Discounted payback would be better than simple payback period
 - Adjusting for time value and risk, by using the appropriate discount rate.
 - Sometimes you cannot find a discounted payback period → the project NPV is negative
- Discounted payback has to be calculated using the method shown in the pre-recorded videos and the slides

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Additional notes

- NVP or IRR/MIRR?
 - In this module and in many cases, we always use NPV to decide
 - However, IRR is useful because IRR is easier to communicate (and to understand for some)
 - You can think of IRR as the <u>expected</u> rate of return of the project
- Is there an aggregated method in capital budgeting?
 - Each method has its strengths and weaknesses
 - Focus on NPV method

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Week 8 List of topics

Note:

You are responsible for all materials covered in the prerecorded videos posted on LumiNUS, unless they are marked "not examinable". This list only serves to help you in your revisions.

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Week 8 topics

Capital budgeting

- Net Present Value (NPV)
- Payback Period
- Discounted Payback Period
- Internal Rate of Return (IRR)
- Multiple IRR (MIRR)
- Average Accounting Return (AAR)
- Profitability Index

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