

FUNDAMENTALS OF FINANCE

Bond Valuation

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Chapter Description

• Synopsis

This chapter explain definition of bond, its features and its valuation.

- Expected Outcomes Students should be able to:
 - 1. Understand bond and its features
 - 2. Evaluate bond





Content

- Definition of Bond
- Features of Bond
- Valuation of Bond





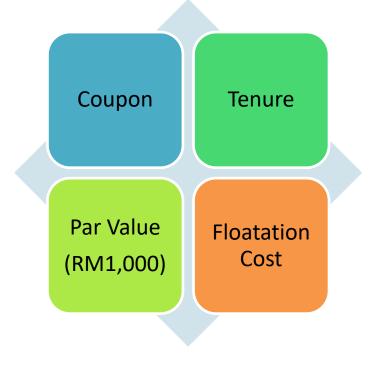
Definition of Bond

- Bond could be defined as a long-term debt security.
- It is a financial instrument that could fulfill capital needs of a firm.



Features of Bond

 Bond has its own features that make it unique from Equity fund. Among its features are:





Valuation of Bond

• Cost of debt before-tax:

YTM = Kdb = [Coupon + <u>(ParValue – (MktPrice-FloatationCost)]</u> Years to Maturity <u>ParValue + (MktPrice – FloatationCost)</u> 2

• Cost of debt after-tax:

$$Kd = Kdb (1 - Tax)$$



Valuation of Bond

• Value of a bond:

Vb = Coupon (PVIFAi,n) + ParValue (PVIFi,n)

Rule of thumb: If k% = r% ;

Hence, Vb = PVb

If Vb > PVb ; k% < r% If Vb < PVb ; k% > r%



Conclusion of The Chapter

Conclusion

- Bond is a debt, hence it has tenure (long-term).
- Bond is a financial security and an alternative for a firm to raise capital.
- A firm have to pay coupon (fixed interest) until maturity upon issuing a bond.







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