



**Course Title:** Financial Math

**Duration:** 24 Hours

**Simple Interest**

- Exact and ordinary simple interest
- Exact and approximate time
- Promissory notes
- Present value of a debt
- Equations of value

**Simple Discount**

- Simple discount at an interest rate
- Simple discount at a discount rate
- Discounting promissory notes

**Compound Interest**

- Compound interest
- Compound amount
- Nominal and effective rates
- Approximation of the interest rate and of the time
- Present value
- Equations of value
- Equated time

**Ordinary Annuities Certain**

- Amount and present value of an ordinary annuity certain
- Periodic payment
- Approximation of the term and rate of interest

**Amortization and Sinking Funds**

- Amortization of a Debt
- Amortization schedule
- Equity
- Extinction of bonded debts
- Sinking funds
- Sinking funds schedules
- Depreciation
- Depletion

**Bonds**

- Bonds
- Price of a bond
- Premium and Discount
- Quoted price
- Yield rate
- Bonds with optional redemption dates
- Annuity bonds
- Serial bond issues

**Annuities Due, Deferred Annuities, Perpetuities**

- Annuities due
- Deferred annuities
- Perpetuities
- Capitalized cost

**Annuity Certain, General Case**

- The general annuity
- Periodic payment
- Number of payments
- Approximation of the interest rate