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Department of Commerce

Semester-I

MDC

Introduction to Investment Management

MODULE-I

Meaning of Investment

Investment refers to the process of using money or capital to purchase assets with the expectation that they will generate income or appreciate in value over time. The primary goal of investment is to increase wealth by earning returns.

- **Types of Investments:**

1. **Equity Shares (Stocks):** Buying a share in a company, with the hope that the company's value will increase, giving you returns through dividends and capital gains.
2. **Bonds:** A loan made to a company or government in exchange for periodic interest payments and the return of the principal at maturity.
3. **Real Estate:** Buying property with the expectation that it will increase in value or generate rental income.
4. **Mutual Funds:** Pooling money with other investors to invest in a diversified portfolio of assets (stocks, bonds, etc.).
5. **Commodities:** Investing in physical goods such as gold, oil, or agricultural products.

- **Basic Objective:** To earn returns in the form of income (such as interest or dividends) or capital appreciation (increase in value over time).

Meaning of Investment Planning

Investment Planning is the process of developing a strategy to invest money in order to achieve specific financial goals, such as retirement, buying a house, or funding education. It involves analyzing the individual's financial situation, risk tolerance, and time horizon to decide the best way to allocate resources in various investment options.

- **Steps in Investment Planning:**

1. **Setting Financial Goals:** Identifying what you want to achieve, such as saving for retirement, buying a car, or paying for higher education.
2. **Assessing Risk Tolerance:** Understanding how much risk you are willing to take based on your financial situation and comfort level.
3. **Creating an Investment Strategy:** Choosing a mix of investments (stocks, bonds, etc.) based on your risk tolerance and time horizon.
4. **Asset Allocation:** Diversifying investments into different asset classes (stocks, bonds, real estate) to manage risk and maximize returns.

5. **Monitoring and Reviewing:** Continuously monitoring the performance of investments and making adjustments as needed to stay on track with your goals.
- **Purpose:** Investment planning helps individuals or organizations to make informed decisions on how to use their money wisely and effectively to meet their future needs and goals.

Importance of Investment Planning

Investment planning is crucial for achieving long-term financial goals, and its importance cannot be overstated. Here are the key reasons why investment planning is essential:

1. Helps Achieve Financial Goals

Investment planning allows you to set clear, measurable financial goals, such as buying a house, funding education, or saving for retirement. With a structured plan, you are more likely to stay on track and reach these goals.

2. Maximizes Returns

Proper investment planning helps identify the best investment opportunities suited to your risk tolerance and financial goals. By allocating resources effectively, you can maximize the return on your investments.

3. Risk Management

Investment planning helps assess and manage risk. By understanding your risk tolerance (how much risk you're willing to take), you can choose investments that align with your comfort level and avoid financial stress during market volatility.

4. Ensures Proper Asset Allocation

A well-planned investment strategy ensures that your money is spread across various asset classes (stocks, bonds, mutual funds, etc.). This diversification helps protect you from large losses in any one area and stabilizes your overall portfolio.

5. Enhances Financial Discipline

Investment planning requires regular saving and disciplined investment behavior. It encourages a systematic approach to saving and investing over time, which is crucial for building wealth.

6. Adapts to Changing Life Circumstances

As life circumstances change—such as marriage, having children, or retirement—investment planning helps you adapt by re-evaluating your financial goals and adjusting your investment strategy accordingly.

7. Tax Efficiency

Investment planning can help you choose tax-efficient investment options, minimizing the taxes you pay on your returns. This is important for maximizing the growth of your investments.

Financial Goal

A **financial goal** is a specific target or objective that an individual or organization aims to achieve through careful financial planning and management. Financial goals can be short-term (e.g., buying a laptop), medium-term (e.g., saving for a car), or long-term (e.g., retirement savings). Setting clear financial goals is essential for directing and measuring the progress of one's financial decisions.

Types of Financial Goals:

1. **Short-Term Goals (Up to 1 year)**

These goals typically involve smaller amounts of money and require less time to achieve.

Examples include:

- Saving for a vacation.
- Building an emergency fund.
- Paying off credit card debt.

2. **Medium-Term Goals (1 to 5 years)**

These goals require more time and planning. Examples include:

- Saving for a car.
- Paying for higher education or a course.
- Saving for a home down payment.

3. **Long-Term Goals (5 years or more)**

These goals are typically more significant and take a long time to achieve. Examples include:

- Saving for retirement.
- Buying a home.
- Building a substantial investment portfolio.

Steps to Set Financial Goals:

1. **Identify the Goal:** Clearly define what you want to achieve (e.g., buying a house, starting a business).
2. **Quantify the Goal:** Determine the amount of money needed to reach the goal.
3. **Set a Time Frame:** Specify when you want to achieve the goal (short-term, medium-term, or long-term).
4. **Create a Plan:** Develop a strategy to achieve the goal, including how much money to save and where to invest.
5. **Monitor Progress:** Regularly review and adjust your strategy to ensure you're on track.

Importance of Financial Goals:

- **Provides Direction:** Financial goals give you a clear purpose for your savings and investments.
- **Motivation:** Helps keep you motivated to achieve specific milestones.
- **Focuses Resources:** Helps you allocate your resources effectively, prioritizing essential goals.
- **Increases Financial Discipline:** Encourages disciplined saving and investing to meet your targets.

Risk Appetite

Risk appetite refers to the level of risk an individual or investor is willing to take in order to achieve their financial goals. It is a critical factor in making investment decisions. Risk appetite is influenced by various factors, such as personal preferences, financial situation, age, and future needs.

Factors Affecting Risk Appetite:

1. **Age:** Younger investors may have a higher risk appetite because they have more time to recover from any potential losses. Older investors, especially those nearing retirement, may prefer safer, more stable investments.
2. **Income & Financial Situation:** Higher income or financial stability typically allows for a higher risk appetite since the investor can afford to take more risks without endangering their financial security.
3. **Investment Goals:** The more aggressive the financial goal (e.g., achieving high returns in a short period), the higher the risk appetite might be.
4. **Time Horizon:** The longer the time horizon, the greater the ability to withstand short-term fluctuations and losses. Longer-term investors can generally tolerate more risk.
5. **Emotional Tolerance:** An investor's ability to handle stress or loss is crucial. Someone with a high emotional tolerance for risk may take on more volatile investments like stocks, while someone who dislikes risk may prefer safer investments like bonds.
6. **Market Knowledge:** Knowledge of financial markets and investments can influence risk appetite. Experienced investors may be more comfortable taking risks based on their understanding of market behavior.

Types of Risk Appetite:

1. **Conservative Risk Appetite:**
 - Investors prefer low-risk investments that offer stable, predictable returns, even if the returns are lower.
 - Suitable for those with a shorter time horizon or those who cannot afford to lose money.
 - Example: Bonds, fixed deposits, savings accounts.
2. **Moderate Risk Appetite:**
 - Investors are willing to take on a moderate level of risk for potentially higher returns.
 - Suitable for individuals with a balanced approach to risk and reward.
 - Example: A mix of stocks and bonds, balanced mutual funds.
3. **Aggressive Risk Appetite:**

- Investors are willing to take high risks for potentially high returns.
- Suitable for individuals with a long time horizon and a high tolerance for market volatility.
- Example: Stocks, equity mutual funds, venture capital investments.

How to Assess Risk Appetite:

1. **Evaluate Financial Situation:** Review your income, assets, liabilities, and financial goals.
2. **Consider Time Horizon:** How long can you stay invested before needing access to the money? A longer horizon allows for more risk-taking.
3. **Understand Emotional Tolerance:** Ask yourself how you would react if the value of your investments dropped by 20% in a short period.
4. **Set Risk-Reward Balance:** Align your investments with your financial goals and risk capacity. For example, if you have a long-term goal like retirement, you can afford higher risks for potentially higher returns.

Importance of Risk Appetite:

- **Helps Tailor Investments:** Knowing your risk appetite allows you to choose the right investment products (stocks, bonds, real estate, etc.).
- **Prevents Overexposure to Risk:** By understanding your limits, you can avoid risky investments that may cause significant losses.
- **Ensures Peace of Mind:** Knowing your risk tolerance ensures you don't panic during market downturns and helps you stick to your investment plan.
- **Aligns with Goals:** Helps you select investments that fit your financial goals, whether short-term or long-term.

TIME VALUE OF MONEY (TVM)

Concepts of Time Value of Money:

1. **Present Value (PV):**
Present Value is the current value of a future amount of money, discounted back to the present. It answers the question: "How much is a future sum of money worth today?"
2. **Future Value (FV):**
Future Value is the value of an amount of money at a specific point in the future, given a certain rate of interest. It tells us how much an investment made today will be worth in the future.
3. **Interest Rate (r):**
The interest rate is the percentage at which money grows over time. It is used to calculate both present value and future value.
4. **Time Period (t):**
The time period is the duration for which the money is invested or borrowed. It is usually expressed in years, months, or days.

5. Compounding:

Compounding refers to the process where interest is calculated on both the initial principal and the accumulated interest from previous periods.

Basic Formulas of Time Value of Money:

Future Value (FV)

The formula for Future Value is used to determine the value of an investment at a future date, given the present value (PV), interest rate, and number of periods.

$$FV = PV \times (1 + r)^t$$

Where:

- FV = Future Value
- PV = Present Value
- r = Interest Rate (expressed as a decimal)
- t = Time Period (number of years)

Example:

If you invest ₹10,000 today at an annual interest rate of 5% for 3 years, the future value will be:

- $FV = 10,000 \times (1 + 0.05)^3 = ₹11,576.25$

Present Value (PV)

The Present Value formula is used to determine the current value of a future sum of money, discounted to the present using a certain interest rate.

$$PV = \frac{FV}{(1 + r)^t}$$

Where:

- PV = Present Value
- FV = Future Value
- r = Interest Rate (expressed as a decimal)
- t = Time Period (number of years)

Example:

If you expect to receive ₹15,000 in 5 years, and the interest rate is 6%, the present value will be:

$$PV = \frac{15000}{(1+0.06)^5} = 11,207.52$$

Compound Interest Formula

When interest is compounded, the formula to calculate the compound interest is:

$$A = P \times (1 + \frac{r}{n})^{nt}$$

Where:

- AAA = Amount after interest (Future Value)
- PPP = Principal (Initial Investment)
- rrr = Annual interest rate (decimal form)
- nnn = Number of times the interest is compounded per year
- ttt = Time in years

Example:

If ₹10,000 is invested at an annual interest rate of 5%, compounded quarterly, for 3 years, the future value will be:

$$A = 10,000 \times \left(1 + \frac{0.05}{4}\right)^{4 \times 3}$$

$$= 11,576.25$$

Applications of Time Value of Money:

1. **Investment Decisions:** TVM helps in deciding whether to invest in projects or assets. By evaluating the future value and present value, investors can determine if an investment is worthwhile.
2. **Loan Amortization:** When taking a loan, TVM helps to understand how much will be paid back over time, taking into account the interest rate and the duration of the loan.
3. **Valuing Annuities:** Annuities involve a series of payments made over time. TVM helps in determining the present or future value of these periodic payments.
4. **Retirement Planning:** When planning for retirement, TVM is used to calculate how much money needs to be saved today to ensure sufficient funds in the future.

Importance of Time Value of Money:

1. **Inflation Impact:** Over time, inflation decreases the purchasing power of money. Therefore, the value of money decreases as time passes, making present money more valuable.
2. **Investment Growth:** The power of compounding interest allows investments to grow significantly over time. The earlier you invest, the more you benefit from compound growth.

3. **Decision Making:** TVM allows businesses and individuals to make informed decisions about loans, savings, and investments by evaluating the time-based value of money.

Investment avenues

Investment avenues refer to the various options or channels available for individuals and institutions to invest their money in order to earn returns over time. Each investment avenue comes with different risk and return profiles, and choosing the right one depends on an investor's financial goals, risk appetite, and time horizon.

1. Equities (Stocks)

- **Definition:** Equities represent ownership in a company. When you buy shares of a company, you become a part-owner and have a claim on the company's assets and profits.
- **Types:**
 - **Common Shares:** Holders can vote at shareholder meetings and receive dividends.
 - **Preferred Shares:** Holders do not have voting rights but have a higher claim on earnings.
- **Risk & Return:**
 - **High Risk:** Stocks can be volatile, with the potential for high returns or significant losses.
 - **Return:** Capital gains (increase in stock price) and dividends.
- **Suitability:** Ideal for long-term investors who can handle market fluctuations.

2. Bonds

- **Definition:** Bonds are debt securities issued by corporations, governments, or other entities. When you buy a bond, you are lending money in exchange for periodic interest payments and the return of principal at maturity.
- **Types:**
 - **Government Bonds:** Issued by central governments, considered low risk.
 - **Corporate Bonds:** Issued by companies, usually offering higher returns but with more risk.
 - **Municipal Bonds:** Issued by state or local governments.
- **Risk & Return:**
 - **Moderate Risk:** Corporate bonds carry more risk compared to government bonds, but they offer higher returns.
 - **Return:** Regular interest payments (coupons) and the return of principal at maturity.
- **Suitability:** Suitable for conservative investors seeking regular income with lower risk than stocks.

3. Mutual Funds

- **Definition:** A mutual fund is a pool of money collected from various investors to invest in diversified portfolios of stocks, bonds, and other securities. A professional fund manager oversees the investment strategy.
- **Types:**
 - **Equity Mutual Funds:** Invest mainly in stocks.
 - **Debt Mutual Funds:** Invest in bonds and other fixed-income securities.
 - **Hybrid Funds:** Invest in a mix of stocks and bonds.
- **Risk & Return:**
 - **Varies:** Risk and return depend on the type of mutual fund.
 - **Return:** Depends on the performance of the underlying assets in the fund's portfolio.
- **Suitability:** Ideal for investors who seek diversification and professional management of their investments without the need to pick individual securities.

4. Real Estate

- **Definition:** Investing in property such as residential or commercial real estate. Investors can earn income through rent or from the appreciation in property value.
- **Types:**
 - **Residential Property:** Houses, apartments, or condos.
 - **Commercial Property:** Offices, spaces, retail shops, warehouses.
 - **Real Estate Investment Trusts (REITs):** A way to invest in real estate without owning physical property. REITs invest in income-producing real estate.
- **Risk & Return:**
 - **Moderate risk:** Real estate can be affected by market conditions, interest rates, and property location.
 - **Return:** Rental income and capital appreciation.
- **Suitability:** Suitable for investors looking for long-term appreciation and income generation, with the ability to handle property maintenance and management.

5. Gold & Precious Metals

- **Definition:** Investing in physical gold, silver, or other precious metals, or in financial instruments like gold ETFs (exchange-traded funds).
- **Types:**
 - **Physical Gold:** Gold bars, coins, or jewelry.
 - **Gold ETFs:** Financial products that track the price of gold.
 - **Gold Mutual Funds:** Investing in gold mining companies or physical gold.
- **Risk & Return:**
 - **Moderate risk:** While gold is considered a "safe-haven" asset, its price can fluctuate.
 - **Return:** Capital appreciation and protection against inflation.
- **Suitability:** Suitable for investors looking for a hedge against inflation or those diversifying their portfolio with tangible assets.

6. Fixed Deposits (FDs)

- **Definition:** A fixed deposit is a type of investment where money is deposited with a bank or financial institution for a fixed period at a predetermined interest rate.
- **Risk & Return:**
 - **Low risk:** FDs are low-risk investments as they are backed by banks.
 - **Return:** Fixed interest is paid periodically, and the principal is returned at maturity.
- **Suitability:** Ideal for conservative investors seeking safety and guaranteed returns.

7. Exchange-Traded Funds (ETFs)

- **Definition:** ETFs are investment funds that hold a diversified portfolio of assets (stocks, bonds, commodities) and trade on stock exchanges like individual stocks.
- **Types:**
 - **Stock ETFs:** Track the performance of a specific index or sector.
 - **Bond ETFs:** Track bond indices.
 - **Commodity ETFs:** Track the price of commodities like gold or oil.
- **Risk & Return:**
 - **Varies:** Risk and return depend on the assets within the ETF.
 - **Return:** Depends on the underlying assets.
- **Suitability:** Suitable for investors who want diversification, low costs, and liquidity without the need to manage individual stocks.

8. Cryptocurrency

- **Definition:** Digital or virtual currencies that use cryptography for security. Bitcoin, Ethereum, and other altcoins are examples.
- **Risk & Return:**
 - **High risk:** Cryptocurrencies are highly volatile and speculative.
 - **Return:** Potential for high returns, but also significant losses.
- **Suitability:** Suitable for investors with a high-risk appetite and a long-term perspective

9. Commodities

- **Definition:** Commodities are raw materials or primary agricultural products that can be bought and sold, such as oil, gold, agricultural products, etc.
- **Risk & Return:**
 - **Moderate to high risk:** Commodities can be volatile, influenced by supply-demand dynamics and geopolitical factors.
 - **Return:** Based on price movements of the commodity.
- **Suitability:** Suitable for investors looking for diversification and exposure to global markets.

10. Systematic Investment Plan (SIP)

- **Definition:** A method of investing a fixed amount regularly in mutual funds. It helps in building wealth over time through compounding.

- **Risk & Return:**
 - **Varies:** Depends on the mutual fund chosen (equity, debt, hybrid, etc.).
 - **Return:** Potential for long-term capital appreciation.
- **Suitability:** Ideal for investors who want to invest regularly and build wealth over time with relatively lower initial investment.

Interest Rates (Simple and Compound), Repo, Reserve Repo, and Inflation

Interest Rates

Interest rate refers to the cost of borrowing money or the return earned on an investment. It is expressed as a percentage of the principal amount per time period.

There are two main types of interest rates:

A. Simple Interest

- **Definition:** Simple interest is calculated only on the **principal amount** (the initial amount of money) for the entire period of the investment or loan. It does not consider interest on interest.
- **Formula**

$$\text{Simple Interest (SI)} = \frac{P \times R \times T}{100}$$

Where:

- P = Principal amount (initial investment or loan)
- R = Rate of interest per annum
- T = Time period (in years)

Compound Interest

- **Definition:** Compound interest is calculated on the **principal amount** as well as the **accumulated interest** from previous periods. It is interest on interest, meaning the interest earned in one period becomes part of the principal for the next period.
- **Formula:**

$$A = P \times (1 + \frac{r}{n})^{nt}$$

Where:

- A=Amount after interest (future value)
- P=Principal amount
- r=Annual interest rate (decimal form)
- n=Number of times the interest is compounded per year
- t=Time period in years

Repo and Reserve Repo Rates

Repo Rate and **Reserve Repo Rate** are key tools used by central banks (such as the Reserve Bank of India, RBI) to control the money supply and manage inflation. These rates influence the cost of borrowing in the economy and directly impact interest rates on loans, deposits, and other financial products.

Repo Rate (Repurchase Rate)

- **Definition:** The **repo rate** is the rate at which the central bank lends short-term money (usually for overnight or short periods) to commercial banks in exchange for government securities. Commercial banks use these funds to meet their short-term liquidity requirements.
- **Purpose:**
 - **Monetary Policy Tool:** The repo rate is used by the central bank to control inflation and money supply.
 - **Effect on Economy:**
 - **Increase in Repo Rate:** Increases borrowing costs for commercial banks, which can lead to higher interest rates for loans to customers. It helps control inflation.
 - **Decrease in Repo Rate:** Encourages borrowing by commercial banks, thus stimulating investment and economic growth.

Reserve Repo Rate

- **Definition:** The **reserve repo rate** is the rate at which commercial banks can borrow money from the RBI by selling their securities with an agreement to repurchase them at a later date. It is a tool used by the RBI to absorb excess liquidity from the banking system.
- **Purpose:**
 - **Liquidity Management:** The reserve repo rate helps regulate the flow of money in the banking system.
 - **Effect on Economy:**
 - **Increase in Reserve Repo Rate:** Reduces the liquidity in the system by making it more expensive for banks to borrow from the RBI. It is used to manage excess money supply and control inflation.
 - **Decrease in Reserve Repo Rate:** Increases liquidity by making borrowing cheaper for banks, which can lead to increased lending and economic activity.

Inflation

Inflation is the rate at which the general level of prices for goods and services rises and subsequently erodes the purchasing power of money. It is a crucial concept in economics and affects both consumers and businesses.

Types of Inflation:

1. **Demand-Pull Inflation:** Occurs when demand for goods and services exceeds their supply. It is typically caused by strong economic growth, increased government spending, or rising consumer demand.
2. **Cost-Push Inflation:** Occurs when the cost of production increases, leading to higher prices for goods and services. This could be due to higher wages, rising raw material costs, or supply chain disruptions.
3. **Built-In Inflation:** Caused by expectations of future inflation. If businesses expect higher prices, they may increase prices in advance, creating a self-fulfilling cycle.

Effects of Inflation:

1. **Reduced Purchasing Power:** As prices rise, the value of money declines, meaning you can buy fewer goods and services with the same amount of money.
2. **Higher Costs of Living:** Consumers face increased costs for daily necessities, such as food, housing, and transportation.
3. **Impact on Savings:** If inflation is higher than the interest earned on savings, the real value of savings diminishes.
4. **Wage-Price Spiral:** As inflation increases, workers demand higher wages, which can further push up prices, continuing the cycle of inflation.

Measuring Inflation:

- **Consumer Price Index (CPI):** The CPI measures the average change in prices paid by urban consumers for a market basket of goods and services.
- **Wholesale Price Index (WPI):** The WPI measures the price changes of goods at the wholesale level, before they reach the consumer.

Inflation and Interest Rates:

- **Impact on Interest Rates:** Central banks often raise interest rates to combat high inflation. When inflation is high, the central bank may increase the repo rate, leading to higher interest rates on loans and deposits.
- **Real Interest Rate:** The real interest rate accounts for inflation and is calculated as: Real Interest Rate = Nominal Interest Rate - Inflation Rate

If inflation is higher than the nominal interest rate, the real return on savings or investments could be negative.

