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Chapter

ANALYZING CONSUMER BEHAVIOR IN THE INDIAN FINANCIAL MARKET: A COMPREHENSIVE STUDY OF OPTIONS TRADING FUNDAMENTALS

Arbaaz Khan*

*Assistant Professor, Glocal School of Business and
Commerce, Glocal University, Saharanpur, U.P.*

**Corrspondance to: arbaaz@theglobaluniversity.in*

Dr. Mohd. Sarwar Rahman

*Assistant Professor, Glocal School of Business &
Commerce, Glocal University, Saharanpur, U.P.*

Email id: sarwar@theglobaluniversity.in

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ABSTRACT

The chapter "Introduction to Options Trading" gives a basic overview of options trading, covering key concepts such as the definition of options, calls vs. puts, the underlying asset, option types (American vs. European, exotic), and key terminology (strike price, expiration date, premium, in-the-money, at-the-money, out-of-the-money). It goes over the functions of options in speculation, hedging, and income creation, with an emphasis on risk and reward profiles for purchasing and selling options. The chapter also discusses trading methods, such as reading option chains, as well as regulatory issues surrounding options exchanges and account approval in India. It emphasises the significance of understanding options fundamentals before implementing advanced methods and understands the inherent hazards of option trading.

Keywords: Options Trading, Financial, Markets, Risk, Investment, Hedging

11.1 INTRODUCTION

An option trading is a powerful financial tool that can provide investors with unique opportunities to profit from market movements, hedge existing positions, and manage risk. This chapter serves as a fundamental guide to help you understand the basics of options trading, including the key concepts, terminology, and strategies involved. By the end of this chapter, you will have a solid foundation upon which to build your knowledge and experience in the world of options.

11.2 WHAT ARE OPTIONS?

Options: Options are financial contracts that provide the holder the right, but not the responsibility, to buy (also known as call-option) or sell (also known as put-option) an underlying asset at a predefined price (strike price) within a specified time period (expiration date).

Calls vs. Puts: Call options as well as put options are two fundamental options trading tools that serve opposing functions. A call option gives the holder the right to buy an underlying asset when the price is expected to rise, whereas a put option gives the holder the right to sell when the price is expected to fall. Bullish tactics use call options, whereas bearish strategies use put options. Both provide a mechanism for investors to manage risk and profit in financial markets based on price expectations, with the rights to do so costing a premium (Rajput et al., 2012).

The Underlying Asset: The concept of an underlying asset is fundamental to various financial instruments, including options, futures, and derivatives. An underlying asset refers to the specific financial instrument, security, or commodity that forms the basis for a derivative contract or option. It can encompass a wide range of assets such as

individual stocks, stock indices (like the S&P 500), commodities (such as gold or oil), currencies, bonds, and even interest rates. The value or price of the derivative is closely tied to changes in the value of the underlying asset. Understanding the underlying asset is crucial because it influences the risk and potential returns associated with these financial instruments, making it a central concept in the world of financial markets and trading.

11.3 TYPES OF OPTIONS

American vs. European Options: American-style and European-style options differ in terms of when they can be exercised.

Table-11.1: Options in American and European Style

Options in American Style	Options in European Style
<p>Can be used at any time between the date of purchase and the date of expiration.</p> <p>Common in the equities markets of the United States.</p> <p>Provide additional freedom but at a somewhat higher cost.</p>	<p>Only valid until the expiration date.</p> <p>Index and commodities markets are examples of this.</p> <p>Less adaptable, but with slightly cheaper premiums.</p> <p>The major contrast is that American options allow for early exercise, but European options only allow for execution upon expiration.</p>

Exotic Options: Asian options (payoff based on average asset price over time), barrier options (payout reliant on preset price levels), and binary options (fixed payout for in-the-money outcomes) are examples of exotic options. These options address special risk management and trading requirements, but they are typically less liquid and more sophisticated than ordinary options (SP et al., 2022).

11.4 THE ROLE OF OPTIONS

- **Speculation:** Traders employ call and put options to profit from directional price changes by taking a long (buying) or short (selling) position in the options. Long calls profit from rising prices, but long puts profit from dropping prices. Short call positions, on the other hand, seek to profit from price decreases, while short put positions predict price increases. Options provide traders with leveraged exposure to price changes, allowing them to maximize profits or protect against

future losses. The trader's risk tolerance and market perspective influence his or her decision between call and put options.

- **Hedging:** Options are used to protect stocks or commodities against potential losses in various investments by using put options. For example, investors purchase put options to protect themselves against falling stock prices, whereas commodity firms might utilise put and call options to assure selling or purchasing prices. Index options are also used to hedge whole portfolios against market downturns. Although they come at a cost, these solutions act as insurance, protecting assets from bad price swings.
- **Income Generation:** Covered call writing is an income-generating options strategy where investors owning shares of a stock sell call options, earning premiums from buyers. This strategy provides income in sideways or slightly bullish markets while limiting potential downside risk. If the stock's price stays below the strike price, the options expire worthless, and investors keep the premium, though it may cap potential gains if the stock price rises significantly.

11.5 RISK AND REWARD

- **Limited Risk, Unlimited Reward:** Buying options entails a restricted upfront premium cost as the maximum risk, which is advantageous for risk management. The potential reward is significant, especially for call options, which have an unlimited profit potential if the market goes favourably. The risk, however, includes the possibility of losing the premium paid, restricted profit for put options, time decay degrading the option's value, and the underlying asset moving as projected to create gains.
- **Limited Reward, Unlimited Risk:** Selling options, a short position, provides a limited profit potential, primarily based on premium collection and benefiting from time decay. However, it involves the substantial risk of unlimited losses if the market moves against the position, potential margin requirements, limited profit, and the possibility of early assignment. This strategy is utilized by traders comfortable with these risks, aiming to capitalize on time decay and generate income through premium collection (Saravanan and Deo, 2010).

11.6 TRADING OPTIONS

- **Options Chains:** To comprehend accessible option contracts and read options chains, first determine the underlying asset, expiration dates, and strike prices. Recognise the option's type (call/put) and monitor bid and ask prices, volume, and open interest for liquidity. Option Greeks such as Delta, Theta, and Vega provide information on an option's behaviour. Market expectations are reflected in implied volatility. Take into account both intrinsic and time value. Select contracts that are compatible with your trading strategy, taking into account the underlying asset's price, time decay, and implied volatility. Understanding the options chain is essential for making informed option trading decisions.
- **Opening and Closing Positions:** Opening option positions include selecting a contract, deciding whether to purchase or sell, and putting orders using market, limit, or stop orders. Market orders guarantee execution at the current market price, limit orders define an execution price, and stop orders limit losses. Closing option positions requires choosing a contract, setting your aim (profit or loss reduction), placing orders with the right order types, and reviewing all details. The order type you use should be consistent with your trading strategy, and confirmation is critical to ensuring that your trade objectives are satisfied.

11.7 REGULATORY CONSIDERATIONS

- **Options Exchanges:** Options exchanges such as the NSE and BSE regulate options trading in India by providing trading tools, standardizing contracts, and conducting market surveillance. Regulatory authorities such as SEBI and RBI regulate options markets, approving exchanges, enforcing securities laws, and ensuring currency exchange rules are followed. These entities' coordinated efforts strive to keep India's options markets transparent, efficient, and secure, protecting investors' interests and maintaining market integrity.
- **Options Account Approval:** Select a SEBI-registered broker, supply standard KYC documents, complete a trading account application, link a bank account, evaluate your risk profile, and sign an options agreement outlining conditions and obligations to start an options trading account in India. Complete margin requirements, evaluate brokerage agreements and risk disclosure documentation, and confirm SEBI compliance. Before beginning to trade options, it is critical to understand the associated risks and trading processes (Vashishtha and Kumar, 2010).

11.8 CONCLUSION

Options trading are a versatile financial instrument that may be utilised for a variety of reasons such as speculation, hedging, and income production. Before delving into more advanced methods, it is critical to understand the principles of options. This chapter gives the foundations for you to explore the realm of options and lays the groundwork for later chapters' investigation of advanced themes and tactics. Remember that options trading entails inherent risks, and it's critical to approach it with a firm grasp of the ideas given in this chapter.

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