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Presents  
*Understanding Options  
Derivatives Part 2*

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*Lesson 1. Preview*

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*Prelude*

- ❖ A word of caution
- ❖ The meaning of Options: Part 1 and 2
- ❖ The concept of trading Options
- ❖ Summarizing the concept of trading Options
- ❖ Understanding "Strike price" and "Moneyness" of the Options
- ❖ Understanding Option chain: Part 1 and 2
- ❖ Understanding "Time Value" and "Intrinsic Value" of Options
- ❖ Practical aspects of Time value and Intrinsic value in Options

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**Prelude**

- ❖ When and how does an Option earn money?
- ❖ Profit and loss in a Call Option trade
- ❖ Profit and loss in a Put Option trade
- ❖ Summarizing the Profit and Loss in Option trades
- ❖ Choices available to an Option trader
- ❖ Hedging with the help of Options: 3 lessons
- ❖ Understanding Option Greeks: 3 lessons
- ❖ Practical applications of Option Greeks: 3 to 4 lessons
- ❖ Conclusion

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**Lesson 3. The meaning of Options  
Part 1**

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**The meaning of Option**

The first thing is to understand the meaning of Option...

The literal meaning of Option is ... "Choice".

Examples of Choice:- Yes ☐ Right ☐ True ☐ Good ☐  
No ☐ Wrong ☐ False ☐ Bad ☐

To do a "Thing"  
or  
Not to do a "Thing"

Or it could be a "Choice"...

And for a "Choice" to be traded in the market...  
There has to be a Buyer of the Choice and a Seller of the Choice

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**The meaning of Option**

Let us say, the Choice being traded is:- To do a Thing or Not to do a Thing

**Buyer of the Choice**  
(Assume to be yourself)

Buyer gets the Choice to...  
To do a thing or  
Not to do a thing

To get a choice of doing or not doing, buyer has to pay a small non refundable token money called "Premium"

At a later date, Buyer will exercise his choice if circumstances are favorable for him and he is gaining. Otherwise, he will forego his choice

Buyer of the Choice has scope of unlimited gains. But loss is limited to the premium amount paid.

**Seller of the Choice**  
(Assume it is me)

Seller takes the responsibility to ensure...  
Buyer's choice is fulfilled if he wants to do the thing

For taking the responsibility of meeting buyer's choice, the seller gets a small non refundable "Premium"

If buyer gains, the seller looses as much. Choice of doing the thing is with buyer. So seller would always want that buyer should not exercise his choice. He can thus retain the non refundable premium

Seller takes the risk of unlimited loss.  
Gain is limited to the premium amount received

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**The meaning of Option**

Now what is that "Thing" of which you are getting a choice...

To do Or Not To do

Is it the Choice to...  
~~Buy~~ ☐ ~~Sell~~ ☐ NO

Then what is the Choice?

The Choice is...  
To Buy ☐ NOT to Buy ☐  
To Sell ☐ NOT to Sell ☐

⇒ This Choice is called Call Option  
⇒ This Choice is called Put Option

There is a Buyer of this Choice  
There is a Seller of this Choice  
There is a Buyer of this Choice  
There is a Seller of this Choice

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**Lesson 4. The meaning of Options**  
**Part 2**

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**The meaning of Option**

Now the question is, why should a person buy or sell a choice?  
Let us say, the consideration is...  
"Mangoes @ \$10 a dozen after 3 days by paying a premium of 50 cents today"

<p><b>Choice No 1</b> <b>Call Option</b></p> <p>To Buy <input type="checkbox"/></p> <p>NOT to Buy <input type="checkbox"/></p>	<p><b>Who will buy this Choice?</b> One who believes that market price of mangoes will increase in 3 days. So she would like to have a choice of buying @ today's price.</p> <p><i>If price increases, the difference in price will be her profit. If price does not increase, she has the choice of NOT BUYING and loses the 50 cents premium paid</i></p> <p><i>Option Buyer's Loss is limited to premium amount but profit can be unlimited</i></p>	<p><b>Who will Sell this Choice?</b> One who believes that market price of mangoes will NOT increase in 3 days. So she is not worried.</p> <p><i>If price does not increase, buyer will not exercise her choice. Seller keeps the 50 cents as her profit. If it increases, then seller is at loss to that extent because she can not refuse to sell at \$10 a dozen.</i></p> <p><i>Option Seller's Profit is limited to premium amount but Loss can be unlimited</i></p>
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**The meaning of Option**

Now the question is, why should a person buy or sell a choice?  
Let us say, the consideration is...  
"Mangoes @ \$10 a dozen after 3 days by paying a premium of 50 cents today"

<p><b>Choice No 2</b> <b>Put Option</b></p> <p>To Sell <input type="checkbox"/></p> <p>NOT to Sell <input type="checkbox"/></p>	<p><b>Who will buy this Choice?</b> One who believes that market price of mangoes will decrease in 3 days. So she would like to have a choice of selling @ today's price.</p> <p><i>If price decreases, she can have her choice of selling @ \$10 and thus have a profit. If the price increases, she can refuse to sell @ \$10 because the choice is hers</i></p> <p><i>Here also, Option Buyer's Loss is limited to premium amount but profit can be unlimited</i></p>	<p><b>Who will Sell this Choice?</b> One who believes that market price of mangoes will NOT decrease in 3 days. So she is not worried.</p> <p><i>If price decreases, buyer of the choice will insist on selling the mangoes @ \$10 and seller of the choice cannot refuse to accept the mangoes @ \$10. If price does not decrease, then choice will not be exercised</i></p> <p><i>Here also, Option Seller's Profit is limited to premium amount but Loss can be unlimited</i></p>
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**The meaning of Option**

So far we have just understood the meaning of Options.

The concept of trading options we will see in the next lesson

Meaning      Concept      Technicalities      Actual Trade

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**Lesson 5.**  
**The concept of trading in Options**

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**The concept of Call Option**

In the previous lesson we have seen...

There is a Choice to Buy or Not to Buy  
This Choice, called as Call Option...  
Can be Bought or Can be sold

There is a Choice to Sell or Not to Sell  
This Choice, called as Put Option...  
Can be Bought or Can be sold

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**The Concept of Options**

In the previous lesson we have seen that the meaning of the word Option is...Choice

And when we talk of Option in context of stock market, we have two Options or two Choices to trade ...

**Choice No 1**

To Buy ☐   
 NOT to Buy ☐

⇒ This Choice is called **Call Option**

There is a **Buyer** of this Choice   
 There is a **Seller** of this Choice

**Choice No 2**

To Sell ☐   
 NOT to Sell ☐

⇒ This Choice is called **Put Option**

There is a **Buyer** of this Choice   
 There is a **Seller** of this Choice

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**The concept of Call Option**

Let us consider a Car... Standing in the show room.

Today is 1<sup>st</sup> of Jun 2021. Price of this car today is \$ 100,000 but subject to change every day depending upon demand

**Buyer of the Choice (Option)**  **Seller of the Choice (Option)**

Buyer of the choice says:- "I want to have the choice of buying this car at \$100,000 on or before 30 Jun 2021" (He believes that price will increase)

Seller of the choice says:- "OK. I grant your choice. In return you pay me a non refundable premium of \$2000" (He believes that price will reduce)

Since the choice is about buying... we know that choice of buying or Not buying is called as **Call Option**

The Buyer is said to have bought a Call Option by paying a premium of \$2000

The Seller is said to have sold a Call Option by receiving a premium of \$2000

Remember, what is being bought and sold here is **NOT THE CAR** but the **CHOICE OF BUYING** the car

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**The concept of Call Option**

Now 30<sup>th</sup> Jun 2021 has arrived.

**Buyer of the Choice (Call Option)**  **Seller of the Choice (Call Option)**

Let us say, the price of the car has not increased but come down from \$100,000 to \$80,000.

Will the buyer of the Option pay \$100,000 to buy the car where he/she has the choice of NOT Buying? **Certainly Not.**

So the seller of Call Option gains the non refundable premium of \$2000

But suppose, the price of the car has increased from \$100,000 to \$120,000

Now, will the buyer of the Option pay \$100,000 to buy the car which is costing \$120,000? **Certainly**

So the seller of Call Option loses (20000-2000)=\$18000

Buyer of Call Option has limited loss But possibility of unlimited Profit

Seller of Call Option has limited gain But possibility of unlimited loss

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**The concept of Put Option**

In the previous lesson we have seen...

The buyer of the Call Option had a choice  
... To Buy the car at a predetermined price or  
... Not to Buy it

If buying was profitable, then he/she would exercise the choice of buying and get the price difference  
Otherwise, forego the choice and the premium paid

If the buyer of call option exercised the choice, the seller of call option was bound to honor it by paying the price difference. Otherwise, the premium received is his/her profit

If the buyer of call option exercised the choice, the seller of call option was bound to honor it by paying the price difference. Otherwise, the premium received is his/her profit

Buyer of Call Option had limited loss ie. the premium paid, but possibility of Profit was unlimited  
Seller of Call Option had limited gain ie. the premium received, but possibility of loss was unlimited

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**The concept of Put Option**

Let us consider the same Car ... But now the choice of Selling

Today is 1<sup>st</sup> of Jun 2021. Price of this car today is \$ 100,000  
but subject to change every day depending upon demand



**Buyer of the Choice (Option)**  
Buyer of the choice says:- "I want to have the choice of Selling this car at \$100,000 on or before 30 Jun 2021" (He believes that price will fall)

**Seller of the Choice (Option)**  
Seller of the choice says:- "OK. I grant your choice. In return you pay me a non refundable premium of \$2000" (He believes that price will increase)

Since the choice is about Selling... we know that choice of Selling or Not Selling is called as Put Option

The Buyer is said to have bought a Put Option by paying a premium of \$2000  
The Seller is said to have sold a Put Option by receiving a premium of \$2000

Remember, what is being bought and sold here is NOT THE CAR but the CHOICE OF SELLING the car

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**The concept of Put Option**

Now 30<sup>th</sup> Jun 2021 has arrived.



**Buyer of the Choice (Put Option)**  
Let us say, the price of the car has gone up from \$100,000 to \$120,000.

**Seller of the Choice (Put Option)**  
So the seller of Put Option gains the non refundable premium of \$2000

Will the buyer of the option sell the car for \$100,000 when the price now is \$120,000? He/She has a Choice. **Certainly Not.**

But suppose, the price of the car has come down from \$100,000 to \$80,000

Now, will the buyer of the option exercise the choice of selling it at \$100,000? **Certainly**

So the seller of Put Option loses (20000-2000)=\$18000

Buyer of Put Option has limited loss  
But possibility of unlimited Profit

Seller of Put Option has limited gain  
But possibility of unlimited loss

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## Lesson 6.

### Summary of concepts in Options

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#### Summary of concepts in Option trades

- ❖ An Option is basically a **Choice**.
- ❖ In stock market, Option does not mean the choice between **Buy or Sell** but there are two sets of choices, viz; **Buy or Not to Buy** and **Sell or Not to Sell**
- ❖ The choice and the right to exercise the choice remains with the **Buyer of the Option** for which he/she pays a premium to the Seller of the Option
- ❖ The Seller of the Option receives a premium but has no choice once he receives the premium. he/she has the **obligation or the responsibility to honor the choice of the Option Buyer** if the buyer chooses to exercise his choice before its expiry.
- ❖ The Seller of the Option is called as **Option Writer** because he/she "literally writes the assurance" of honoring the choice for the Option Buyer.

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#### Summary of concepts in Option trades

	CALL OPTION	PUT OPTION
B U Y E R	❖ Is Bullish. Thinks price will go up	❖ Bearish. Thinks price will go down
	❖ Has choice but no obligation to Buy	❖ Has choice but no obligation to Sell
	❖ Pays the premium	❖ Pays the premium
	❖ Max loss limited to premium	❖ Max loss limited to premium
S E L L E R	❖ Bearish. Thinks price will Not go up	❖ Bullish. Thinks price will Not go down
	❖ No choice. Only obligation to Sell	❖ No choice. Only obligation to Buy
	❖ Receives the premium	❖ Receives the premium
	❖ Possibility of unlimited loss	❖ Possibility of unlimited loss
	❖ Can not just walk away	❖ Can not just walk away

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**Lesson 7.**  
**Strike price and moneyness of Options**

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**Strike price and moneyness : ATM, ITM and OTM**

Call Option Buyer wanted "Choice" of Buying the car @ \$100,000...  
That means, he wanted to strike a deal @ the **Spot price** or **Current market price** of the underlying asset.



Call Option	
Strike Price	Premium
\$85,000	\$16000
\$90,000	\$11200
\$95,000	\$6500
\$100,000	\$2,000
\$105,000	\$1500
\$110,000	\$1100
\$115,000	\$800

ITM → ATM → OTM

- When Strike price is almost the same as market price of the asset, the Option is said to be...  
"At the Money" or ATM  
Strike Price = Spot price
- When Strike price is NOT yet giving money to the Buyer, the Option is said to be...  
"Out of the Money" or OTM  
For OTM Call Option: Strike Price > Spot price
- When Strike price is already giving money to the Buyer, (is within the spot price) the Option is said to be... "In the Money" or ITM  
For ITM Call Option: Strike Price < Spot price

As you move further "Out of the money", the premium reduces  
As you move more "In the money", the premium increases

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**Strike price and moneyness : ATM, ITM and OTM**

Put Option Buyer wanted "Choice" of Selling the car @ \$100,000...  
That means, he wanted to strike a deal @ the **Spot price** or **Current market price** of the underlying asset.



Put Option	
Strike Price	Premium
\$85,000	\$800
\$90,000	\$1100
\$95,000	\$1500
\$100,000	\$2,000
\$105,000	\$6500
\$110,000	\$11200
\$115,000	\$16000

OTM → ATM → ITM

- When Strike price is almost the same as market price of the asset, the Option is said to be...  
"At the Money" or ATM  
Strike Price = Spot price
- When Strike price is NOT yet giving money to the Buyer, the Option is said to be...  
"Out of the Money" or OTM  
For OTM Put Option: Strike Price < Spot price
- When Strike price is already giving money to the Buyer, (is within the spot price) the Option is said to be... "In the Money" or ITM  
For ITM Put Option: Strike Price > Spot price

As you move further "Out of the money", the premium reduces  
As you move more "In the money", the premium increases

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**Strike price and moneyness : ATM, ITM and OTM**

Spot price is \$100,000

**Call Option**  
 ATM Strike Price = Spot Price  
 OTM Strike Price > Spot Price  
 ITM Strike Price < Spot Price

**Put Option**  
 ATM Strike Price = Spot Price  
 OTM Strike Price < Spot Price  
 ITM Strike Price > Spot Price

Call Option		Put Option	
Strike Price	Premium	Strike Price	Premium
\$85,000	\$16000	\$85,000	\$800
\$90,000	\$11200	\$90,000	\$1100
\$95,000	\$6500	\$95,000	\$1500
\$100,000	\$2,000	\$100,000	\$2,000
\$105,000	\$1500	\$105,000	\$6500
\$110,000	\$1100	\$110,000	\$11200
\$115,000	\$800	\$115,000	\$16000

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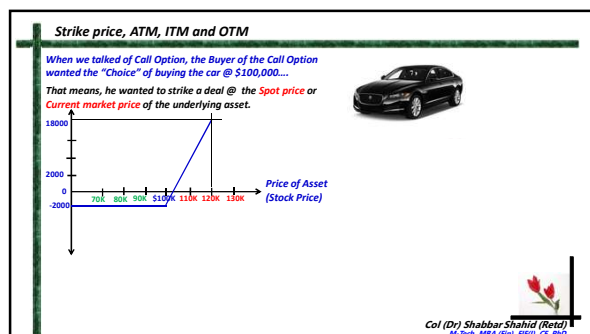
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**Lesson 8.**  
**Understanding Option chain**  
**Part 1**

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**Understanding the Option chain**



Stock or a Share of Tata Motors  
Each share costing 337 each

*The Share is Real. It is the underlying asset...*



An imaginary or notional basket  
of 2850 x Tata Motors shares  
valued at 960,450

*... But this basket is imaginary. It is called the derivative*

*For a clear understanding of:-*

The meaning of Derivatives

And

Investing in Shares vis-a-vis Trading in Derivatives



Complete Understanding of Stock Futures: Derivatives Part 1  
Part 1 of Trading in Futures and Options. Future trading concepts like Stop loss, Trigger, Arbitration, Hedging & more.

*Please see the FREE PREVIEW Lessons of my course...*  
Complete Understanding of Stock Futures: Derivatives Part 1  
Or click on the link in the pdf attached with the last lesson of this course.



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**Understanding the Option chain**



Stock or a Share of Tata Motors  
Each share costing 337 each

*The Share is Real. It is the underlying asset...*  
*As the share price increase or decrease...*  
*The share remains always...*



An imaginary or notional basket  
of 2850 x Tata Motors shares  
valued at 960,450

*... But this basket is imaginary. It is called the derivative*  
*... The value of this imaginary basket will increase or decrease*  
*... This imaginary basket has an expiry date*

The Choice of Buying this imaginary basket is called **CALL OPTION**

The Choice of Selling this imaginary basket is called **PUT OPTION**

There is a Buyer of Call Option who pays a premium and takes limited Risk ↑

There is a Seller of Call Option who receives a premium & takes unlimited Risk ↓

There is a Buyer of Put Option who pays a premium and takes limited Risk ↓

There is a Seller of Put Option who receives a premium & takes unlimited Risk ↑

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Lesson 9.

Understanding Option chain

Part 2

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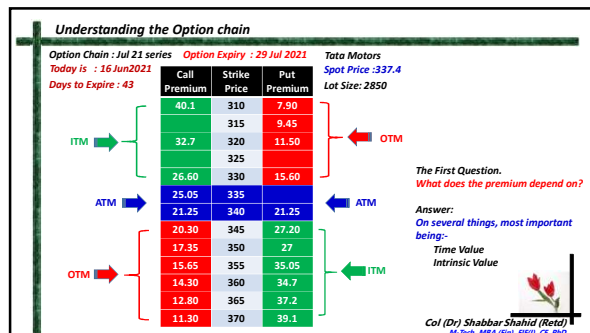
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**Lesson 10.**  
**Time value and Intrinsic value of Options**

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**Intrinsic value and Time value of premium**

In the Previous lesson we have talked about the Premium being primarily dependent on...

$\text{Time Value} + \text{Intrinsic Value}$

So now let us see...

What is Time Value ? and  
 What is Intrinsic Value ? } In context of Options

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Intrinsic value and Time value of premium		
Option Expiry : 24 Jun 2021 (8 days)		Option Expiry : 29 Jul 2021 (43 days)
Strike Price	Strike Price	
310	310	
315	315	
320	320	
325	325	
330	330	
335	335	
340	340	
345	345	
350	350	
355	355	
360	360	
365	365	
370	370	

Time Value of Options  
Tata Motors  
Spot Price : 337.4  
Lot Size: 2850  
Today is : 16 Jun 2021

More the number of days to expiry, more the chances of your target price reaching and therefore, more the time value component in the premium.

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Intrinsic value and Time value of premium		
Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Tata Motors  
Spot Price : 337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

**Intrinsic Value of Options**  
If the strike price is equal to the stock's price in the market, the option is said to be "At The Money"  
If the strike price of the option is profitable as compared to the price of the stock, the option is "In the Money"  
If the strike price of the option is NOT profitable as compared to the price of the stock, the option is said to be "Out of The Money"

So then, what is the INTRINSIC Value ?  
The intrinsic value is the amount by which the strike price of an option is profitable or In The Money  
For example: Out of 40.1 premium, 27.4 is the intrinsic value and only 12.7 is the Time value

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Intrinsic value and Time value of premium		
Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Tata Motors  
Spot Price : 337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

If you want to see in terms of a Formula, then the Formula and Calculation of Intrinsic Value is ...

**For Call Options**  
Intrinsic Value = UAP - CSP  
where UASP = Underlying Assets Spot Price  
CSP = Call Strike Price  
Example: Intrinsic Value = 337.4 - 310 = 27.4

**For Put Options**  
Intrinsic Value = PSP - UASP  
where UASP = Underlying Assets Spot Price  
PSP = Put Strike Price  
Example: Intrinsic Value = 370 - 337.4 = 32.6

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**Lesson 11.**  
**Practical aspects of Intrinsic value and Time value**

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**Intrinsic value and Time value of premium**

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

**Tata Motors**  
Spot Price : 337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

**For Call Options**  
Intrinsic Value = UASP - CSP  
Example: Intrinsic Value = 337.4 - 310 = 27.4 and 40.1 - 27.4 = 12.7 is the Time Value

**For Put Options**  
Intrinsic Value = PSP - UASP  
Example: Intrinsic Value = 370 - 337.4 = 32.6 and 39.1 - 32.6 = 6.5 is the Time Value

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**Intrinsic value and Time value of premium**

Time Value	Intrinsic Value	Call Premium	Strike Price
12.70	27.40	40.1	310
			315
15.30		32.7	320
			325
19.2	7.40	26.60	330
22.65	2.40	25.05	335
21.25	0	21.25	340
20.30	0	20.30	345
17.35	0	17.35	350
15.65	0	15.65	355
14.30	0	14.30	360
12.80	0	12.80	365
11.30	0	11.30	370

**Tata Motors**  
Spot Price : 337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

**So what do we learn from this?**  
If the Option is ATM or OTM, the intrinsic value is zero.  
The entire premium is the time value.  
As the Option gets more and more ITM, the intrinsic value keeps increasing and the time value keeps reducing.

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**Intrinsic value and Time value of premium**

Strike Price	Put Premium	Intrinsic Value	Time Value
310	7.90	0	7.90
315	9.45	0	9.45
320	11.50	0	11.50
325			
330	15.60	0	15.60
335			
340	21.25	2.60	18.65
345	27.20	7.60	19.60
350	27	12.6	14.4
355	35.05	17.60	17.45
360	34.7	22.60	12.1
365	37.2	27.6	9.6
370	39.1	32.60	6.5

Tata Motors  
Spot Price :337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

*So what do we learn from this?*

*If the Option is ATM or OTM, the intrinsic value is zero.  
The entire premium is the time value.*

*As the Option gets more and more ITM, the intrinsic value keeps increasing and the time value keeps reducing.*

*This is an imperfection or an abrasion*

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**Intrinsic value and Time value of premium**

Time Value	Intrinsic Value	Call Premium	Strike Price	Put Premium	Intrinsic Value	Time Value
12.70	27.40	40.1	310	7.90	0	7.90
			315	9.45	0	9.45
15.30	17.4	32.7	320	11.50	0	11.50
			325			
19.2	7.4	26.60	330	15.60	0	15.60
22.65	2.40	25.05	335			
21.25	0	21.25	340	21.25	2.60	18.65
20.30	0	20.30	345	27.20	7.60	19.60
17.35	0	17.35	350	27	12.6	14.4
15.65	0	15.65	355	35.05	17.60	17.45
14.30	0	14.30	360	34.7	22.60	12.1
12.80	0	12.80	365	37.2	27.6	9.6
11.30	0	11.30	370	39.1	32.60	6.5

Tata Motors  
Spot Price :337.4  
Lot Size: 2850  
Expiry : 29 Jul 2021

*This is an imperfection or an abrasion*

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**Lesson 12.**  
**When and how does an option earn money?**

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When and How does an Option earn money		
When and how does an Option earn money for me?		
Call Premium	Strike Price	Put Premium
40.1	310	7.90
32.7	315	9.45
26.60	320	11.50
25.05	325	15.60
21.25	330	21.25
20.30	335	27.20
17.35	340	27
15.65	345	35.05
14.30	350	34.7
12.80	355	37.2
11.30	360	39.1

Before we answer this question ....

- ✓ The Premium does not remain constant
- ✓ Factors like Time Decay, fall in asset price, negative news, negative sentiments bring down the premium
- ✓ Factors like increase in asset price, Positive news, Positive sentiments increase the premium
- ✓ Change in Premium is not uniform across the Option Chain
- ✓ No contact between Buyer and Seller
- ✓ The concept of margin money must be understood
- ✓ It is good to know the Option Greeks

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When and How does an Option earn money		
Call Premium	Strike Price	Put Premium
40.1	310	7.90
32.7	315	9.45
26.60	320	11.50
25.05	325	15.60
21.25	330	21.25
20.30	335	27.20
17.35	340	27
15.65	345	35.05
14.30	350	34.7
12.80	355	37.2
11.30	360	39.1

Tata Motors Spot Price :337.4  
Lot Size: 2850 Expiry : 29 Jul 2021

Are you hedging? or Are you trading?

If you are trading, there are two situations or broad strategies

**Situation 1**  
You trade an Option and wait till the expiry date  
Your profit or loss will depend upon whether the quantum and direction of asset's price movement has been as per your perception or against your perception

**Situation 2**  
You trade an Option and want to exit before expiry  
Your profit or loss will depend upon whether the change in premium is favorable to you or not

We shall discuss both the situations in detail...

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**Lesson 13.**  
**Profit and loss in a Call option trade**

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**The Profit and Loss in a Call Option trade**

Call Premium	Strike Price	Put Premium
40.1	310	7.90
32.7	315	9.45
26.60	320	11.50
25.05	325	
21.25	330	15.60
20.30	335	
17.35	340	21.25
15.65	345	27.20
14.30	350	27
12.80	355	35.05
11.30	360	34.7
	365	37.2
	370	39.1

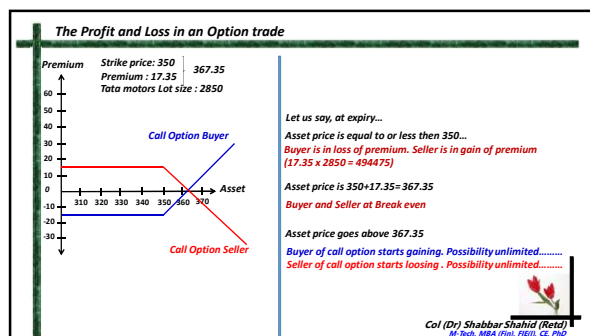
Tata Motors Spot Price :337.4  
Lot Size: 2850 Expiry : 29 Jul 2021

**Call Option Buyer**  
Buys option at strike price of 350.  
Pays premium 17.35  
Has the rights to exercise option but no obligation to do so.  
Has Bullish view

**Call Option Seller**  
Sells option at strike price of 350.  
Receives premium 17.35 (Blocks Margin)  
Has the obligation to honor the option but no rights.  
Has Bearish view

At expiry there are 3 possibilities...  
Price of Asset may be = 350  
Price of asset may be > 350  
Price of asset may be < 350

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**The Profit and Loss in a Call Option trade**

Call Premium	Strike Price	Put Premium
40.1	310	7.90
32.7	315	9.45
26.60	320	11.50
25.05	325	
21.25	330	15.60
20.30	335	
17.35	340	21.25
15.65	345	27.20
14.30	350	27
12.80	355	35.05
11.30	360	34.7
	365	37.2
	370	39.1

Tata Motors Spot Price :337.4  
Lot Size: 2850 Expiry : 29 Jul 2021

Premium changes: strike price 350 between 16 Jun to 29 Jul 2021

**Call Option Buyer**  
Premium is 17.35  
Premium goes to 37.35  
Premium goes to 117.35  
Premium goes down to zero

**Call Option Seller**  
Loss 17.35 x 2850 = 49448  
Gain 17.35 x 2850 = 49448  
May square off with a gain of 20 x 2850 = 57000  
May square off with a loss 57000  
May square off with a gain of 285000  
May square off with a loss 285000  
Max loss is 17.35 x 2850 = 49448  
Max loss = 49448  
Gains 49448  
Max loss is unlimited

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**Lesson 14.**  
**Profit and loss in a Put option trade**

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**The Profit and Loss in a Put Option trade**

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Tata Motors Spot Price : 337.4  
Lot Size: 2850 Expiry : 29 Jul 2021

**Put Option Buyer**  
Buys option at strike price of 330.  
Pays premium 15.6  
Has the rights to exercise option but no obligation to do so.  
Has Bearish view

**Put Option Seller**  
Sells option at strike price of 330.  
Receives premium 15.6 (Blocks Margin)  
Has the obligation to honor the option but no rights.  
Has Bullish view

At expiry there are 3 possibilities...  
Price of Asset may be = 330  
Price of asset may be > 330  
Price of asset may be < 330

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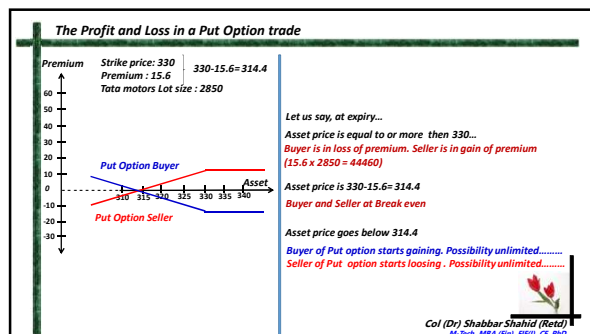
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**The Profit and Loss in a Put Option trade**

Tata Motors Spot Price : 337.4  
Lot Size: 2850 Expiry : 29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Premium changes: strike price 330 between 16 Jun to 29 Jul 2021

**Put Option Buyer**      **Put Option Seller**

Premium is 15.60      Loss  $15.6 \times 2850 = 44460$       Gain  $15.6 \times 2850 = 44460$

Premium goes to 35.60      May square off with a gain of  $20 \times 2850 = 57000$       May square off with a loss 57000

Premium goes to 115.60      May square off with a gain of 285000      May square off with a loss 285000

Premium goes down to zero      Max loss is  $15.60 \times 2850 = 44460$       Gains 44460

Max loss = 44460      Max loss is unlimited

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**Lesson 15.**  
**Summarizing Profit and loss in Call and Put option trade**

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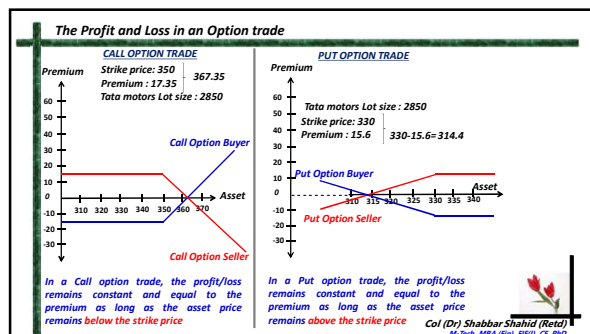
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**Lesson 16.**  
**Choices available to an option trade**

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**Various choices available to an Option buyer or Option writer**

*In this lecture...*  
... I would be confusing you  
And I challenge you to defeat me...  
... by not getting confused  
And if you are able to defeat me...  
... I will consider it as my victory

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**Various choices available to an Option buyer or Option writer**

Tata Motors Spot Price: 337.4  
Lot Size: 2500 Expiry: 29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

If I want to trade in options, what all can I do?

Buy a call option (up arrow) Sell a put option (down arrow)  
Sell a call option (down arrow) Buy a put option (up arrow)

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**Various choices available to an Option buyer or Option writer**

Tata Motors  
Lot Size: 2850  
Spot Price: 337.4  
Expiry: 29 Jul 2023

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

*If I want to trade in options, what all can I do?*

- I can buy ATM Call Option
- I can sell ATM Call Option
- I can buy ATM Put Option
- I can sell ATM Put Option
- I can buy OTM Call Option
- I can sell OTM Call Option
- I can buy OTM Put Option
- I can sell OTM Put Option
- I can buy ITM Call Option
- I can sell ITM Call Option
- I can buy ITM Put Option
- I can sell ITM Put Option
- I can use them in combination with Futures

*I can buy opposing combinations of any of them*  
*I can sell opposing combinations of any of them*  
*I can buy complementary combinations of any of them*  
*I can sell complementary combinations of any of them*

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**A different reason for every trade**

There are numerous choices of strike price and even more combinations available for trade

If we use Options in combination with Futures, we get even more combinations to trade...

Unless one is speculating, every trader is wise and every trade has a logic and reasoning for his trade

What may appear profitable to a buyer may appear loss making proposition to the seller and vice versa. Only then a trade can happen

**Why do I do, what I do?**

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**Lesson 17.**  
**Hedging with the help of options**  
**Part 1**

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**Hedging with the help of Options**

Tata Motors  
Lot Size: 2850  
Spot Price: 337.4  
Expiry: 29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Let us say, I holding 3000 shares of TM in my portfolio  
My purchase price: 200. Current price 337  
I am in a profit of 411,000

The government is going to announce some policy on automobiles on 25 Jul 2021.  
I believe the policy decision may cause the price of TM to fall temporarily  
I can absorb some loss till 330 but not below that...What should I do?

Buy Put Option@330. Pay a premium of  $15.6 \times 2850 = 44460$   
Limited Loss. But want to keep upside open, just in case price increases

Or  
Sell a Call Option@330. Receive a premium of  $26.6 \times 2850 = 75810$   
I am very confident that price will not go up, so willing to take unlimited Risk

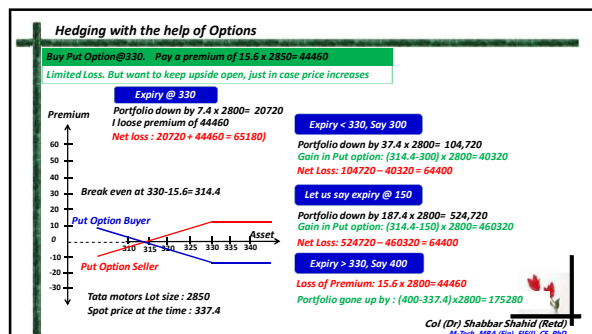
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**Lesson 18.**  
**Hedging with the help of options**  
**Part 2**

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**Lesson 19.**  
**Hedging with the help of options**  
**Part 3**

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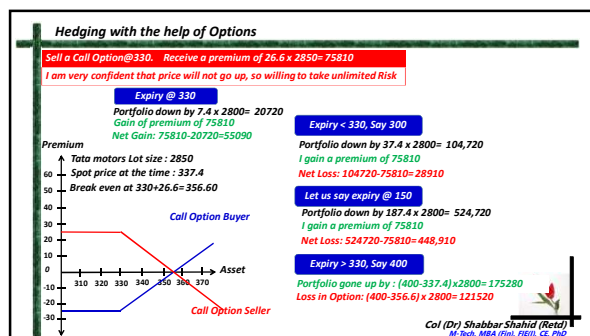
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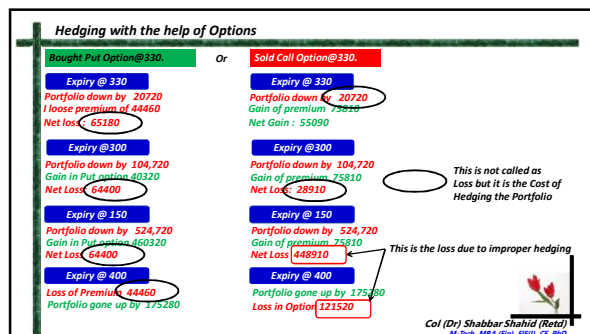
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**PRUDENCE**  
Engineering and Financial Consultants  
*If it's a solution, it has to be simple.*

**Lesson 20.**  
**Understanding Option Greeks**  
**Part 1**

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Col (Dr) Shabbar Shahid (Retd)  
M-Tech, MBA (Fin), FIBO, CS, PhD

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**Option Greeks**

*If somebody says- I know what are Options but I do not know what are Option Greeks...*

*It is like saying - I am a deep sea diver but I do not know to swim...*

**What are Option Greeks?**

Before we answer this question, we need to answer...

What are the factors which cause the Option premium to change?

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**Option Greeks**

Spot Price: 332.4 Days to Expiry: 43  
Today: 16 Jun 2021 Expiry: 29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

**What causes the premium to change?**

1. **Spot Price**  
If Spot price increases...  
Call premium will Increase  
Put premium will Decrease

2. **Time Decay**  
As the number of days to expiry become less...  
The premium will keep reducing

3. **Strike Price**  
Determines intrinsic value. As the Option becomes ITM, premium increases  
More ITM: Intrinsic value up, Time value down - Total premium increases  
More OTM: Intrinsic value zero, Time value down - Total premium decreases

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**Option Greeks**

Spot Price :337.4 Days to Expiry 43  
Today: 16 Jun 2021 Expiry : 29 Jul 2021

Tata Motors Options

**What causes the premium to change?**

**4 Volatility**  
Higher the volatility, higher the premium  
For Call option it increases upside potential  
For Put option it increases down side potential

**5 Interest rates**  
Increase in interest- Call option premium increases but put premium decreases  
Call option : To buy 2850 shares you need  $337.4 \times 2850 = 961590$   
To buy one lot call option you need  $21.25 \times 2850 = 60562$   
The difference can be invested to earn interest. Beneficial.  
Put option : Short selling shares brings in cash which can be invested  
Buying put option requires premium out flow  
Therefore, disadvantageous. Hence, reduced premium.

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

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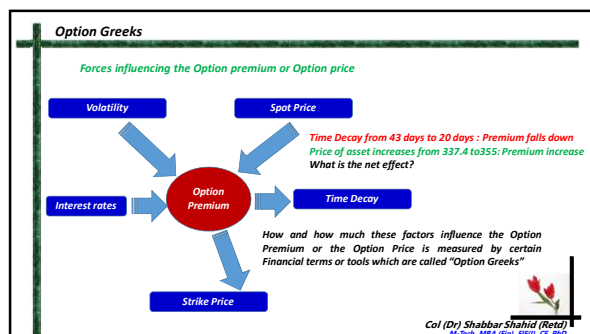
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**Lesson 21.**  
**Understanding Option Greeks**  
**Part 2**

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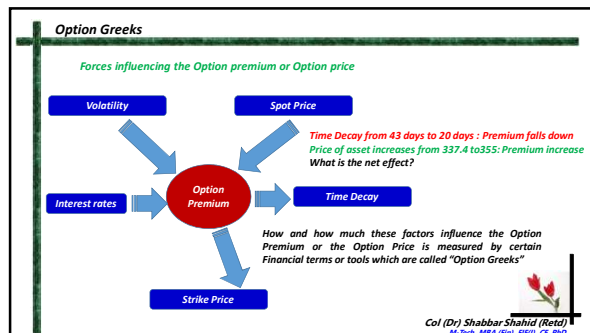
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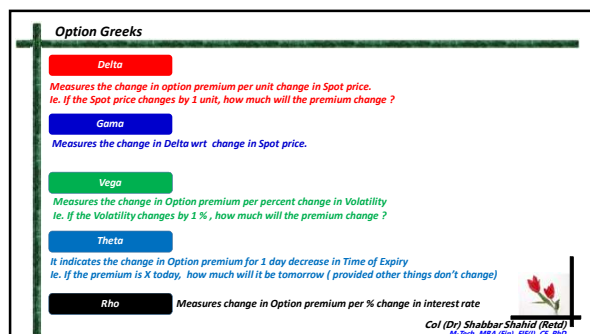
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**Lesson 22.**  
**Understanding Option Greeks**  
**Part 3**

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Option Greeks: Option Chain of Tata Motors

<https://opstra.definededge.com>

Option Chain of Tata Motors at 1115h on 24 Jun 2021

TATAMOTORS

29 JUL 2021

▼

REFRESH

Spot Price: 336.2

Futures Price: 337.2

OI Chng	OI	Volume	CALLS			PUTS						
			ITM Price	IV	LTP	CHNG	STRIKE	CHNG	LTP	IV	ITM Price	Volume
0	0	0	0	0	0	0	305	-0.45	4.25	38.00	0	73
0	0	4	74.6	36.4	32.65	-7.45	310	-0.9	5.3	37.50	25.3	271
0	1	2	70.2	31.57	49	4.5	315	-0.75	6.75	36.00	29.7	54
0	137	19	65.5	37.86	25.5	-0.5	320	-1.15	8.1	35.00	34.3	181
1	0	9	60.9	36.19	22.5	-0.7	325	-1	10.15	33.50	29.1	48
-15	522	209	55.9	38.49	19.75	-0.6	330	-1.2	12.25	32.50	44	318
21	125	186	51	36.83	17.15	-0.95	335	-1.35	14.7	32.00	48.9	56
84	982	490	46.2	38.92	14.95	-0.95	340	-1.2	17.5	30.50	53.7	120
23	239	115	41.5	39.36	13	-0.9	345	-0.95	21.4	28.75	58.4	29
45	1282	523	36.9	39.21	11.05	-1	350	-1.45	23.5	28.25	63	46
6	192	98	32.6	39.28	9.4	-1.1	355	-0.2	27.35	26.67	67.3	14
186	892	401	28.6	39.34	7.85	-1.85	360	0.10	31.3	24.81	71.3	11
-2	137	89	24.9	39.3	6.05	-1	365	0	32.8	24.46	75	1
87	689	199	21.6	39.46	5.6	-0.85	370	1.85	38.4	23.79	79.4	1

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Option Greeks: Option Chain of Tata Motors

Option Chain of Tata Motors at 1515h on 24 Jun 2021

TATAMOTORS 29 JUL 2021 REFRESH

Spot Price: 336.3 Futures Price: 336.5

OI Chng	OI	Volume	CALLS			PUTS						
			ITM Price	IV	LTP	CHNG	STRIKE	CHNG	LTP	IV	ITM Price	Volume
0	0	0	0	0	0	0	305	-0.75	4.25	38.00	0	73
0	12	8	74.1	32.23	30.2	-6.9	310	-0.9	5.5	38.25	25.9	610
0	1	2	69.7	30.21	49	4.5	315	-0.9	6.9	36.18	30.2	120
11	143	27	65	36.65	24.5	-1.3	320	-0.9	8.35	37.5	34.9	252
0	19	24	60.1	36.07	21.15	-2.05	325	-0.9	10.25	37.62	39.8	154
1	538	291	55.2	37.36	18.8	-1.75	330	-1.25	12.2	37.12	44.7	736
79	177	462	50.2	38.07	16.5	-1.9	335	-1.3	14.75	37.46	49.7	243
167	1508	918	45.4	38.27	14.25	-1.62	340	-1.85	17.65	36.09	54.5	540
47	292	262	40.6	37.87	12	-1.9	345	-1.15	20.6	36.12	59.3	99
179	1996	1262	36.1	38.69	10.6	-1.49	350	-1.2	23.75	36.12	63.8	99
33	174	214	31.8	38.84	8.9	-1.6	355	-0.7	26.85	37.4	68.1	25
146	1079	1093	27.6	38.92	7.5	-1.5	360	-0.25	30.9	36.45	72.1	38
57	196	224	24.1	38.32	6.05	-1.6	365	0	32.8	32.98	75.9	1
138	771	579	20.7	39.28	5.3	-1.25	370	2.45	39.1	40.21	79.2	4

Col (Dr) Shabbar Shahid (Retd)  
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**Option Chain of Tata Motors at 1115h on 24 Jun 2021**

TATAMOTORS 29 JUL 2021 REFRESH

Spot Price: 336.2 Futures Price: 337.2

OI Chng	OI	Volume	CALLS			PUTS						
			ITM Price	IV	LTP	CHNG	STRIKE	CHNG	LTP	IV	ITM Price	Volume
0	0	0	0	0	0	0	305	-0.45	4.25	38.00	0	73
0	0	4	74.6	36.4	32.65	-7.45	310	-0.9	5.3	37.50	25.3	271
0	1	2	70.2	31.57	49	4.5	315	-0.75	6.75	36.00	29.7	54
1	137	19	65.5	37.86	25.5	-0.5	320	-1.15	8.1	35.00	34.3	181
0	0	9	60.9	36.19	22.5	-0.7	325	-1	10.15	33.50	29.1	48
-15	522	209	55.9	38.49	19.75	-0.6	330	-1.2	12.25	32.50	44	318
21	125	186	51	36.83	17.15	-0.95	335	-1.35	14.7	32.00	48.9	56
84	982	490	46.2	38.92	14.95	-0.95	340	-1.2	17.5	30.50	53.7	120
23	239	115	41.5	39.36	13	-0.9	345	-0.95	21.4	28.75	58.4	29
45	1282	523	36.9	39.21	11.05	-1	350	-1.45	23.5	28.25	63	46
6	192	98	32.6	39.28	9.4	-1.1	355	-0.2	27.35	26.67	67.3	14
186	892	401	28.6	39.34	7.85	-1.85	360	0.10	31.3	24.81	71.3	11
-2	137	89	24.9	39.3	6.05	-1	365	0	32.8	24.46	75	1
87	689	199	21.6	39.46	5.6	-0.85	370	1.85	38.4	23.79	79.4	1

**Option Chain of Tata Motors at 1515h on 24 Jun 2021**

TATAMOTORS 29 JUL 2021 REFRESH

Spot Price: 336.3 Futures Price: 336.5

OI Chng	OI	Volume	CALLS			PUTS						
			ITM Price	IV	LTP	CHNG	STRIKE	CHNG	LTP	IV	ITM Price	Volume
0	0	0	0	0	0	0	305	-0.75	4.25	38.00	0	73
0	12	8	74.1	32.23	30.2	-6.9	310	-0.9	5.5	38.25	25.9	610
0	1	2	69.7	30.21	49	4.5	315	-0.9	6.9	36.18	30.2	120
11	143	27	65	36.65	24.5	-1.3	320	-0.9	8.35	37.5	34.9	252
0	19	24	60.1	36.07	21.15	-2.05	325	-0.9	10.25	37.62	39.8	154
1	538	291	55.2	37.36	18.8	-1.75	330	-1.25	12.2	37.12	44.7	736
79	177	462	50.2	38.07	16.5	-1.9	335	-1.3	14.75	37.46	49.7	243
167	1508	918	45.4	38.27	14.25	-1.62	340	-1.85	17.65	36.09	54.5	540
47	292	262	40.6	37.87	12	-1.9	345	-1.15	20.6	36.12	59.3	99
179	1996	1262	36.1	38.69	10.6	-1.49	350	-1.2	23.75	36.12	63.8	99
33	174	214	31.8	38.84	8.9	-1.6	355	-0.7	26.85	37.4	68.1	25
146	1079	1093	27.6	38.92	7.5	-1.5	360	-0.25	30.9	36.45	72.1	38
57	196	224	24.1	38.32	6.05	-1.6	365	0	32.8	32.98	75.9	1
138	771	579	20.7	39.28	5.3	-1.25	370	2.45	39.1	40.21	79.2	4

With Gratitude from Col (Dr) Shabbar Shahid

Dated for ever

Option Greeks: Tata Motors

Option Greeks of Tata Motors at 11:58 on 24 Jun 2021

TATAMOTORS


29 JUL 2021

REFRESH

Spot Price 126.1

Putables Price 937.2

S	Vega	Delta	Gamma	Theta	V	LTP	STRIKE	CALL	PUTS	Delta	Theta	Vega	Gamma
0	0	0	0	0	0	0	200	2.00	35.68	-0.92	-0.23	12.26	0.42
0	0	0	0	0	0	0	210	4.5	47.98	-1.6	-0.17	24.54	0.8
0	0	0	0	0	0	0	220	5.3	59.32	-1.82	-0.19	24.08	0.8
0	0	0	0	0	0	0	300	4.93	94.48	-1.91	-0.88	20.22	0.66
0.08	17.74	-17.81	77.76	38.4	32.68	330	5.3	107.2	-2.17	-0.68	-0.01	20.24	0.6
0.08	18.38	-18.34	64.87	91.57	41	330	4.75	100.26	-2.04	-0.68	-0.01	20.24	0.62
0.08	16.78	-19.29	37.86	25.5	22.5	320	8.1	37.22	-0.31	-1.45	0.67	0.9	0.7
0.03	26	-21.17	64.43	39.18	22.15	325	16.5	17.81	-0.47	-0.04	39.96	0.94	0.94
0.03	22.2	-16.5	36.49	19.75	19.75	320	12.25	19.75	-0.41	-0.71	40.76	0.94	0.94
0.04	14.48	-22.12	34.56	38.53	17.23	325	14.7	17.02	-0.44	-22.36	41.4	0.7	1
0.01	19.76	-23.11	49.68	39.02	14.95	340	17.5	18.32	-0.54	-0.73	47.76	0.99	0.99
0.01	18.44	-22.17	38.08	30.14	13	340	17.4	46.76	-0.47	-0.63	47.47	0.91	0.91
0.04	16.52	-22.08	39.32	39.21	11.05	360	21.5	38.95	-0.4	-22.05	44.04	0.91	0.91
0.01	19.13	-21.85	38.91	39.28	9.4	355	27.05	38.97	-0.52	-0.21	39.18	0.9	0.9
0.01	18.74	-20.87	31.75	39.14	7.63	360	17.3	40.97	-0.49	-0.49	39.14	0.88	0.88
0.02	15.12	-19.62	27.81	39.39	6.65	365	18.2	34.69	-0.74	-16.16	10.28	0.87	0.87
0.17	16.27	-19.38	24.02	39.48	5.6	370	38.5	39.74	-1.64	-0.82	32.76	0.7	0.7
0.17	16.31	-19.68	20.92	39.44	4.5	375	0	0	0	0	32.76	0.7	0.7
0.04	23.8	-15.27	36.88	39.95	3.98	375	41.95	40.26	-1.75	24.94	0.01	0.7	0.7



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**Option Greeks: Tata Motors**

**Option Greeks of Tata Motors @ 15:15h on 24 Jun 2021**

**TATAMOTORS**      29 JUN 2021

**REFRESH**

Spot Price 136.1	Implied Volatility 337.2	Delta	Gamma	Theta	Vega	Rho	PUTS	
Call	Put	Call	Put	Call	Put	Call	Call	
0.44	18.81	-11.91	88.79	8.15	49	2796	2.3 -42.62 -10.7 -11.23 19.15 0.44	
0.5	18.8	-12	88.7	8	49	2795	2.3 -40.61 -10.62 -11.23 19.24 0.51	
0.55	18.77	-12.06	88.25	43.32	41.1	2800	3.45 -38.09 -15.48 -13.92 24.74 0.55	
0	0	0	0	0	0	3005	4.25 -36.09 -18.56 -15.21 27.79 0.64	
0.6	18.73	-12.11	87.55	19.21	36.2	2810	5.5 -34.26 -22.56 -16.15 31.22 0.74	
0.65	18.67	-12.17	86.55	9.21	41	2815	6.9 -32.59 -26.9 -16.77 35.22 0.85	
0.7	18.62	-12.25	85.17	36.65	24.5	2820	8.35 -31 -31.17 -18.65 38.75 0.9	
0.75	18.57	-12.33	84.33	36.07	21.5	2825	10.20 -27.62 -36.04 -21.01 39.89 0.96	
0.8	18.51	-12.41	83.27	19.6	20	2830	12.17 -27 -47 -21.54 40.4 1.02	
1	18.36	-12.56	80.96	10.67	15.9	2835	14.76 -27.49 -46.16 -22.2 42.17 1.02	
1.1	18.44	-12.57	80.89	16.27	14.25	2840	17.15 -30.03 -51.17 -23.03 43.44 1.01	
1.15	18.43	-12.58	80.87	17.5	14.4	2845	19.12 -30.12 -56.26 -24.82 40.96 1	
1.55	18.21	-12.41	76.48	39.58	10.88	2860	23.78 -32.12 -60.85 -21.85 39.92 0.97	
1.92	18.08	-12.47	74.46	34.96	10.84	6	2885	24.8 -37.4 -65.76 -20.51 38.18 0.95
2.04	18.04	-12.49	73.85	34.96	10.81	7.3	2890	24.9 -38.05 -66.28 -20.57 38.1 0.94
2.16	18.04	-12.5	73.25	34.96	10.78	8.6	2895	25.0 -38.6 -66.8 -20.6 38.04 0.93
2.28	18.04	-12.5	72.65	34.92	10.75	9.9	2900	25.0 -39.16 -67.33 -20.65 38.0 0.92
2.7	17.91	-12.52	70.52	23.62	9.28	3	2915	26.31 -40.21 -75.87 -21.4 37.5 0.9
3.08	17.75	-12.53	68.84	16.87	8.3	279	30.1 -40.54 -80.58 -22.2 36.8 0.87	
3.48	17.59	-12.57	66.49	10.49	8.05	280	47.3 -40.54 -82.15 -25.6 27.1 0.82	

**Vol (Root)**

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**Option Growth: Tota Motors**

Option Growth of Tota Motors at 11:50 on 24 Jun 2021  
TATAMOTORS 29.06.2021

Time	Lat	Long	Alt	Speed	Heading	Roll	Pitch	Yaw	Roll Rate	Pitch Rate	Yaw Rate
1	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
7	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
9	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
10	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
11	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
12	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
13	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
14	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
17	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
18	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
22	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
23	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
24	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
26	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
27	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
28	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
29	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
31	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
32	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
33	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
34	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
35	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

**Option Growth: Tota Motors**

Option Growth of Tota Motors at 11:50 on 24 Jun 2021  
TATAMOTORS 29.06.2021

Time	Lat	Long	Alt	Speed	Heading	Roll	Pitch	Yaw	Roll Rate	Pitch Rate	Yaw Rate
1	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
7	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
9	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
10	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
11	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
12	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
13	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
14	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
17	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
18	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
22	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
23	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
24	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
26	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
27	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
28	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
29	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
31	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
32	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
33	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
34	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
35	51.9	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

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**Option Greeks: Tata Motors**

Option Greeks of Tata Motors at 1515h on 24 Jun 2021

TATAMOTORS 29JUL2021 REFRESH

Spot Price 126.1 Futures Price 137.2

	CALLS					PUTS				
Strike	Delta	Gamma	Vega	Theta	IV	Delta	Gamma	Vega	Theta	IV
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Lesson 23.**  
**Practical aspects of Option Greeks**  
**Part 1**

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**Practical application of Option Greeks**

Option Greeks of Tata Motors at 1515h on 24 Jun 2021

TATAMOTORS 29JUL2021 REFRESH

Spot Price 126.1 Futures Price 137.2

	CALLS					PUTS				
Strike	Delta	Gamma	Vega	Theta	IV	Delta	Gamma	Vega	Theta	IV
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Remember that these figures are the outcome of the market movement. That means, the figures change as per the market movement - the market should, but does not necessarily change as per the figures.**

**The scientific study or these figures only tell you that the market has behaved in a particular manner and is likely to behave in a manner in future. This increases your chances or probability of being right in your decisions.**

**But there is NO Guarantee**

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**Practical application of Option Greeks**

**Step 1:**  
Make your view about the market or the price movement...  
... Based on your study, technical analysis, research and experience  
... But certainly not on speculation.

Example of your views could be...  
... The spot price will increase by 50 in next 3 days  
... The spot price will increase beyond 400 in next 10 days  
... The spot price will not fall below 300 before expiry  
... At expiry, the spot price will be above xyz  
... At expiry, the spot price will be below abc  
... If the price goes above 375, it will continue to go up to 405  
... If the price falls below 300, it will continue to fall up to 275  
... Expiry will happen between 350 and 380  
... And so many more possibilities.

**Step 2:**  
Make a strategy of what to buy or sell or a combination of buy and sell, depending upon your view

**Step 3:**  
Check whether the Greeks support your STRATEGY (Not your view)

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**Lesson 24.**  
**Practical aspects of Option Greeks**  
**Part 2**

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**Practical application of Option Greeks**

**Step 1:**  
Make your view about the market or the price movement...  
... Based on your study, technical analysis, research and experience  
... But certainly not on speculation.

Example of your views could be...  
... The spot price will increase by 50 in next 3 days  
... The spot price will increase beyond 400 in next 10 days  
... The spot price will not fall below 300 before expiry  
... At expiry, the spot price will be above xyz  
... At expiry, the spot price will be below abc  
... If the price goes above 375, it will continue to go up to 405  
... If the price falls below 300, it will continue to fall up to 275  
... Expiry will happen between 350 and 380  
... And so many more possibilities.

**Step 2:**  
Make a strategy of what to buy or sell or a combination of buy and sell, depending upon your view

**Step 3:**  
Check whether the Greeks support your STRATEGY (Not your view)

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**Option Greeks: Practical Application**

Option Greeks of Tata Motors at 1115h on 24 Jun 2021

TATAMOTORS

Spot Price: 336.1 Futures Price: 337.2

Series	Open	High	Low	Close	Volume	Open Interest	Delta	Gamma	Vega	Rho	Theta	Skew	Kurtosis
CALLS	0	0	0	0	0	0	0	0	0	0	0	0	0
PUTS	0	0	0	0	0	0	0	0	0	0	0	0	0

At this particular moment, ie 1115h ... Spot Price is: 336.1

Call Option at strike price 300: Premium is 40.25 and Delta is 85.61

Delta 85.61 means, if spot price increases by 100, the premium should increase by 85.61

My estimate is that the spot price will go up to 350 by 1515h today itself...

Therefore, Increase in Spot price :  $350 - 336.1 = 13.9$  Dollars or Rupees or Riyals .....

So increase in premium will be  $13.9 \times 85.61 / 100 = 11.90$  ( New premium =  $40.25 + 11.90 = 52.15$

That means, when spot price increases by 13.9 my Call Option will earn me 11.9

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**Option Greeks: Practical Application**

Option Greeks of Tata Motors at 1115h on 24 Jun 2021

TATAMOTORS

Spot Price: 336.1 Futures Price: 337.2

Series	Open	High	Low	Close	Volume	Open Interest	Delta	Gamma	Vega	Rho	Theta	Skew	Kurtosis
CALLS	0	0	0	0	0	0	0	0	0	0	0	0	0
PUTS	0	0	0	0	0	0	0	0	0	0	0	0	0

At this particular moment, ie 1115h ... Spot Price is: 336.1

Call Option at strike price 380: Premium is 3.95 and Delta is 18.35

Delta is 18.35 means, if spot price increases by 100, the premium should increase by 18.35

My estimate is that the spot price will go up to 350 by 1515h today itself...

Therefore, Increase in Spot price :  $350 - 336.1 = 13.9$

So increase in premium will be  $13.9 \times 18.35 / 100 = 2.55$  (New premium =  $3.95 + 2.55 = 6.5$ )

That means, when spot price increases by 13.9 my Call Option will earn me 2.55

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**Option Greeks: Practical Application**

So now what?...

First of all I am working on my analysis or belief that the spot price will increase from 336.1 to 350...

Now, if I buy an ITM call option @ strike price 300....

I pay a premium of  $40.25 \times 2850 = 114,712$  and stand a chance to earn  $11.90 \times 2850 = 33915$

Now, if I buy an OTM call option @ strike price 380....

I pay a premium of  $3.95 \times 2850 = 11257$  and stand a chance to earn  $2.55 \times 2850 = 7268$

What should I do?

If I want to take a high risk for high gain, I will go for buying the ITM Call Option

If I want to take a low risk for low gain, I will go for buying the OTM Call Option

I can go for any of the middle path depending upon my risk appetite. But I should know what I am doing. The Greeks help me in knowing what I am doing.

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**Option Greeks: Practical Application**

Now let us say, instead of Call option buyer, I am the Call Option seller.

So I am working on my analysis or belief that the spot price will go down but will certainly **NOT** increase above 300....

Now, if I sell an ITM call option @ strike price 300.....  
I pocket a premium of  $40.25 \times 2850 = 114,712$

But, if I sell an OTM call option @ strike price 380.....  
I get a premium of **ONLY**  $3.95 \times 2850 = 11257$

What should I do?

If I want to take a high risk for high gain, I will go for selling the ITM Call Option

If I want to take a low risk for low gain, I will go for selling the OTM Call Option

I can go for any of the middle path depending upon my risk appetite. But I should know what I am doing. The Greeks help me in knowing what I am doing.

If you have understood the concept, then in a similar manner you can work out many - many strategies.

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**Lesson 25.**  
**Key takeaways from Delta**

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**Key takeaways from Delta**

- ❖ Delta is a figure varying from 0 to 1 on an absolute scale or 0 to 100 on a percentage scale
- ❖ Call options have a +ve delta. A Call option with a delta of 0.5 indicates that for every 1 point gain/loss in the underlying the call option premium gains/loses 0.5 points (for every 100 points it is 50 points)
- ❖ Put options have a -ve delta. A Put option with a delta of 0.5 indicates that for every 1 point gain/loss in the underlying the call option premium gains/loses 0.5 points (for every 100 points it is 50 points)
- ❖ OTM Options have a Delta value between 0 and 0.5 (or 0 and 50)
- ❖ ATM Options have a Delta value close to 0.5 (or 50)
- ❖ ITM Options have a Delta value between 0.5 and 1 (or 50 and 100)

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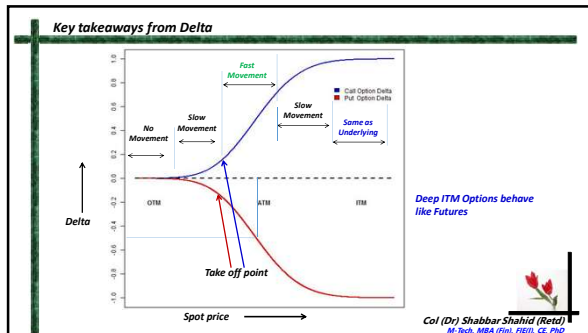
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**Key takeaways from Delta**

<p><u>Generalized thinking of a novice</u></p> <p>My view is bullish, so I will buy a Call Option</p> <p>This person buys deep OTM call</p> <p>If I win, it is like winning a lottery. But chances of loosing are more</p>	<p><u>Strategized thinking of a professional</u></p> <p>My view is that the underlying will move up by 60 points so I must buy a Call Option with a Delta of 0.5 or above so that with a 60 points rise in underlying asset, I earn at least 30 points on my option</p> <p>This person buys ATM or slightly OTM/ITM call</p> <p>Chances of gaining are more. But if the direction goes wrong, loss of premium is more.</p>
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**Why do I do, what I do?**

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**Lesson 26. Understanding Gama**

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**Option Greeks: Theta**

Tabo Motors Spot Price: 337.4  
Lot Size: 2500 Expiry: 29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

No. of Days for Expiry	Chances of Option getting ITM	Therefore, risk taker (Option Writer) gets...
30	Very high	Very high premium
25	High	High premium
20	Moderate	Moderate premium
15	Low	Less premium
10	Very low	Very less premium
5	Ultra less	Ultra less premium
1	Negligible	Negligible premium

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**Option Greeks: Theta**

So, as the number of days to expiry reduce, the premium on Options reduce...

This is called Time Decay of Options

But how much does it reduce every day?

That is measured by Theta and it is different for different underlying asset

Point to note: While all other circumstances are two directional, Time decay is only in one direction

If all other things remain neutral or unchanged, Options would be a depreciating asset

Theta is expressed in "Points lost per day" assuming all other things remain constant

For example: If an option is trading today at a premium of 15.1 and say Theta is -0.2  
So tomorrow the premium will be  $15.1 - 0.2 = 14.9$   
But just because the theta is -0.2 today, that doesn't mean it will be the same through out the month

Time decay is the Biggest Disadvantage for Option Buyer and the Biggest Advantage for Option writer

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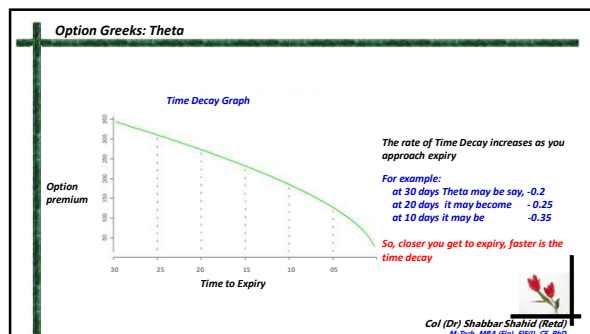
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**Lesson 28. Understanding Vega**

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**Option Greeks: Vega**

**Delta**  
**Gama**  
**Theta**  
**Vega**

Vega of an Option measures the rate of change of Option's premium for a percentage change in **implied volatility**  
That means, if the implied volatility changes by 1 %, the how much would the premium for that Option change

So first we need to know...

- ...What is Volatility
- ... What is implied volatility
- ... and what is the implication of volatility

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**Option Greeks: Theta**

Tata Motors Spot Price :337.4  
Lot Size:2500 Expiry :29 Jul 2021

Call Premium	Strike Price	Put Premium
40.1	310	7.90
32.7	315	9.45
	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

For a given period of time, consider...  
Price moves between...

A1-A ie. 335 and 340 **Almost static**  
B1-B ie. 330 and 345 **Little volatile**  
C1-C ie. 325 and 350 **More volatile**  
D1-D ie. 310 and 365 **Highly volatile**

What are the implications of volatility?  
Higher the volatility, higher the chances of Option expiring ITM  
Therefore, Option buyer has more chances of winning  
Therefore, Option writer deserves more premium

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**Option Greeks: Vega**

Having understood volatility, what is Implied Volatility?

**Historical Volatility:** This is the volatility calculated from the past data.

**Forecast Volatility:** This is the likely volatility which may occur in future based on statistical calculations

**Implied Volatility:** This is the likely volatility based on market perceptions...

Market respects the historical data. It also respects statistics and mathematics  
But does not depend solely on them...

Market takes into account the perceptions and sentiments of its players,  
the news flows,  
the events,  
the psychology,  
the greed,  
the fear and many more things into account.

Calculated by the team and computers dedicated to the market

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**Option Greeks: Vega**

**Vega**

Vega of an Option measures the rate of change of Option's premium for a percentage change in Implied volatility

Let us say, today for a Call option at strike price X...

Option premium is 10.5    Implied volatility is 20%    Option Vega is 0.2

The implied volatility changes to 21.5%. What will be the new premium?

Change in implied volatility (IV) =  $21.5 - 20 = 1.5\%$

Vega is 0.2. That means, for 1% change in IV, the premium changes by 0.2  
So for 1.5% change in IV, the premium changes by ?     $1.5 \times 0.2 = 0.3$

So new premium is  $10.5 + 0.3 = 10.8$

If the volatility had dropped from 20% to 18.5%,  
then the premium change would have been (-) 0.3 and ...  
...the new premium would have been  $10.5 - 0.3 = 10.2$

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**Option Greeks: Vega**

Vega is highest when Option is ATM

Vega declines as option nears expiry date.  
More the time remaining for expiry,  
more will be the Vega in the option

Expiry in 30 days

EXPIRATION  
30 days  
20 days  
10 days

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**Lesson 29.**  
**Recapitulating the  
significance of Greeks**

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**Option Greeks: Let us recapitulate**

**Delta**

*If the Spot price changes by 1 unit, how much will the premium change ?*  
 For Call Options delta is 0 to 1 (0 to 100). For Put Options -1 to 0 (-100 to 0)  
 Delta for Deep OTM options is very low.  
 Avoid buying deep OTM options unless you are expecting a sharp move in price

**Gamma**

*Gamma captures the rate of change of delta.*  
 If the underlying changes by X, how much will be the new value of delta?  
 Gamma is max at ATM.  
 Large Gamma means large directional risk. Avoid shorting options which have large gamma, unless you are hedged.

  
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**Option Greeks: Let us recapitulate**

**Theta**

*It talks about Time Decay. How much the premium reduces per day, all other things remaining constant. Time moves in one direction*  
 Theta is the biggest enemy of Option buyer and the best friend of Option seller  
 At the beginning of the series, theta is low but towards the end the time decay is rapid  
 When you short options close to expiry the premium is low (since time value is low) but the fall in premium is rapid

**Vega**

*Measures rate of change of premium with respect to change in Volatility*  
 Premium increases with the increase in volatility  
 Vega, that is the effect of volatility is highest when days to expiry are maximum

  
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*Lesson 31.*  
*Buying and Selling decisions*

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**Buying and Selling Options**

The simplest thing is...  
... How to Buy and Sell?

More difficult thing to decide is...  
... What to Buy and Sell... Call or Put  
... Whether an Index or an underlying stock?  
... Whether ATM, OTM or ITM?  
... How much OTM or how much ITM?

*This would depend on your strategy and your understanding of the Greeks*

The most difficult thing to decide is...  
... Whether to Buy or Sell?

**Buying an Option**  
Pay a Premium  
Scope of unlimited Profit  
Buyer is a Free Bird. No responsibility

**Seller of an Option**  
Receive a Premium  
Possibility of unlimited Loss  
Block a Margin amount and remain responsible to honor the Option

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*Lesson 32.*  
*A word of advise for beginners*

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**A word of advise**

Be proud of being a Beginner.... Take your time to become a professional

To begin with, avoid buying Options which are deep out of the money

**BUT THAT DOES NOT MEAN THAT YOU SELL NAKED OPTIONS**

As beginners, you may learn the art and science of trading by selling covered or hedged options.

For example:

1. Say if you are physically holding one lot of underlying asset, then sell a deep OTM Call option. If your move is successful, you can pocket the small premium and if the move goes wrong, you can recover the losses by selling the physical share holding.
2. Sell a OTM call or put option and simultaneously buy the same a little more OTM.

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**Option Greeks: A word of advise**

Spot Price: 337.4 Days to Expiry: 43  
Friday, 16 Jun 2021 Expiry: 21 Jul 2021 Tata Motors Options

Call Premium	Strike Price	Put Premium
40.1	310	7.90
	315	9.45
32.7	320	11.50
	325	
26.60	330	15.60
25.05	335	
21.25	340	21.25
20.30	345	27.20
17.35	350	27
15.65	355	35.05
14.30	360	34.7
12.80	365	37.2
11.30	370	39.1

Let us say,  
You sell an OTM call option at strike 360  
Premium received=  $2850 \times 14.30 = 40755$

Simultaneously, you buy an OTM call option at strike 370  
Premium paid=  $2850 \times 11.3 = 32205$

So net premium received =  $40755 - 32205 = 8550$

Now if your assessment is right, i.e. Price does not go above 360, then you pocket the 8550 premium received

But if your assessment goes wrong and price shoots up to say 400.  
Then,  
On short call you loose:  $2850 \times (400 - 374.3) = 73245$   
And on Long call you gain:  $2850 \times (400 - 381.3) = 53295$

So your net loss is limited to:  $73245 - 53295 = 19950$

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**Thank you**

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