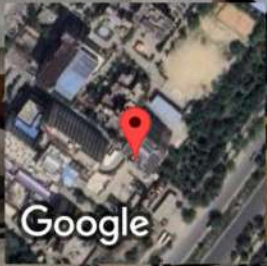




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Delhi, Delhi, India
P398+9F5, Pocket 5, Sector 22, Rohini, Delhi, 110086, India
Lat 28.718348°
Long 77.066116°
08/12/23 10:34 AM GMT +05:30



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Lat 28.718348°
Long 77.066116°
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Lat 28.718353°
Long 77.06611°
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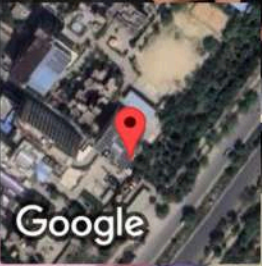
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Lat 28.71833°
Long 77.066365°
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Delhi, Delhi, India

P398+9F5, Pocket 5, Sector 22, Rohini, Delhi, 110086, India

Lat 28.71833°

Long 77.066365°

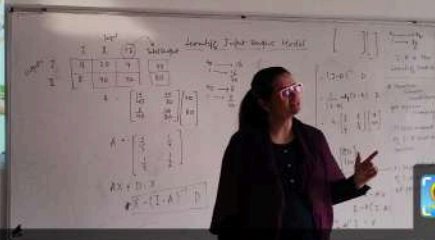
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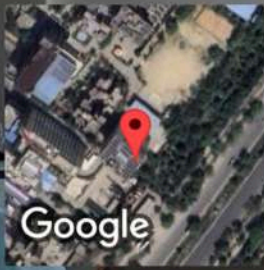
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Decentralization of Authority

In today's rapidly changing business landscape, decentralization of authority has become a key concept. Let's explore the benefits, challenges, models, and implementation of decentralization.



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Lat 28.718365°

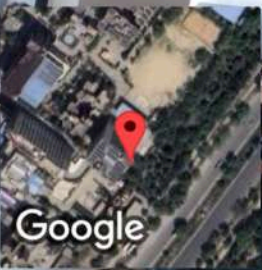
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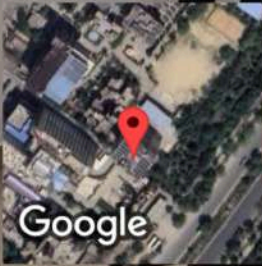
Delhi, Delhi, India
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Lat 28.718371°
Long 77.066385°
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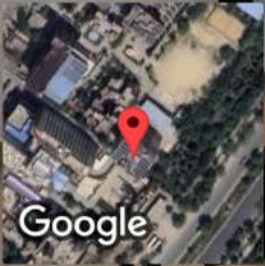
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P398+9F5, Pocket 5, Sector 22, Rohini, Delhi, 110086, India
Lat 28.718379°
Long 77.066184°
08/12/23 10:45 AM GMT +05:30



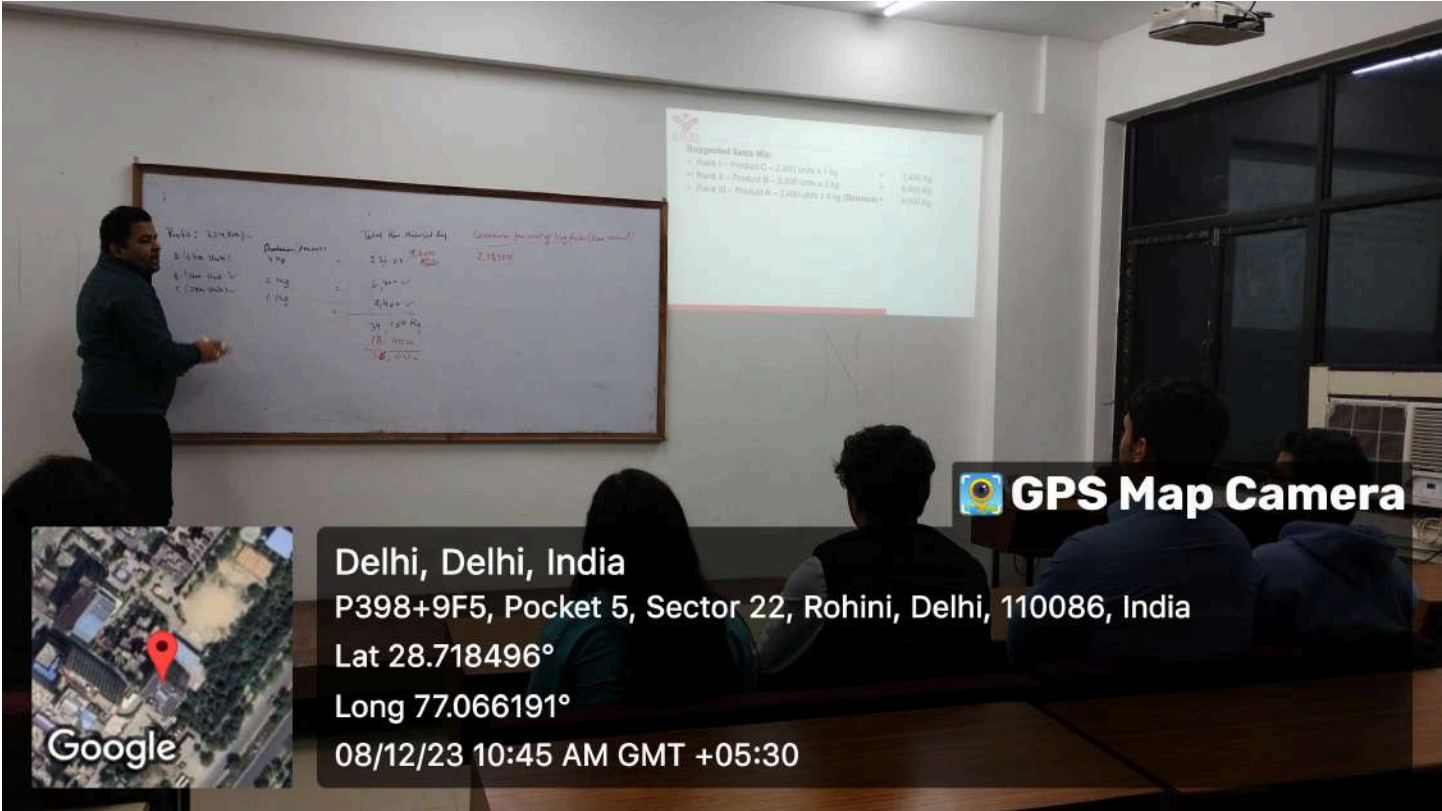
ii) When raw material is the key factor

Raw Material Cost	High Raw Material Cost	Low Raw Material Cost
Raw Material Cost	10%	5%
Labour Cost	20%	15%
Overhead Cost	30%	25%
Total Cost	60%	45%
Profit	40%	55%

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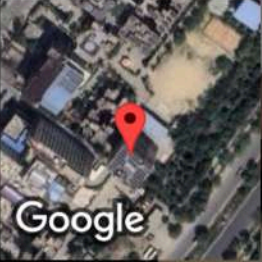
Part 2: 25/10/23

Product/Plant	Unit	Rate	Quantity	Total
Product A	1 kg	2,500	1	2,500
Product B	2 kg	1,500	2	3,000
Product C	1 kg	1,000	1	1,000
Total				6,500

Suggested Rates

Plant 1 - Product C - 2,000 units x 1 kg	2,000
Plant 2 - Product B - 3,500 units x 2 kg	7,000
Plant 3 - Product A - 2,000 units x 1 kg (Discount)	1,500

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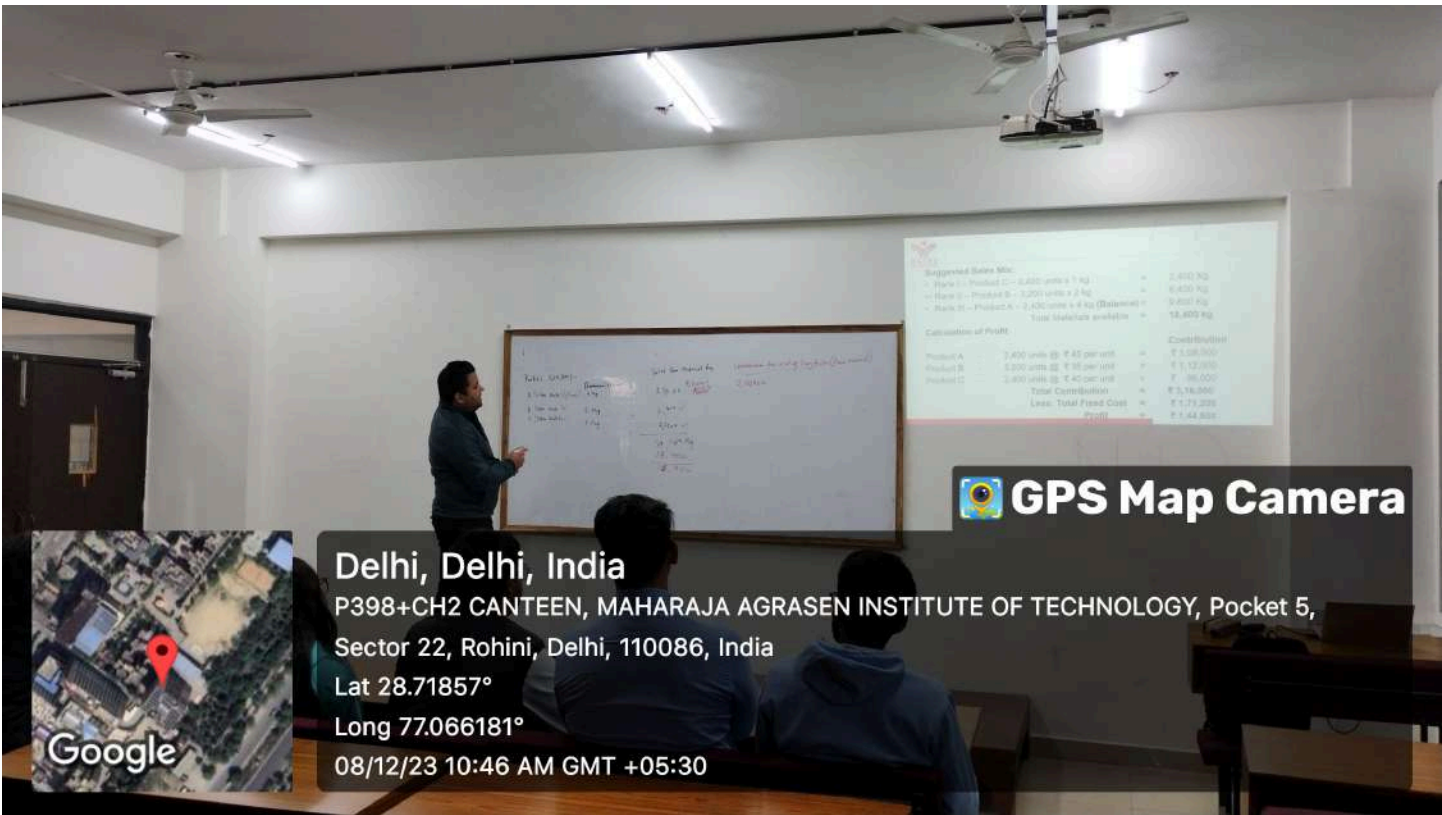
Delhi, Delhi, India
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 Lat 28.718496°
 Long 77.066191°
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Lat 28.718573°
Long 77.066202°
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Delhi, Delhi, India

P398+CH2 CANTEEN, MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, Pocket 5,

Sector 22, Rohini, Delhi, 110086, India

Lat 28.71857°

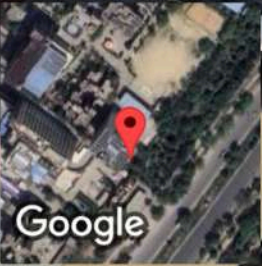
Long 77.066181°

08/12/23 10:46 AM GMT +05:30



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Lat 28.718325°
Long 77.066349°
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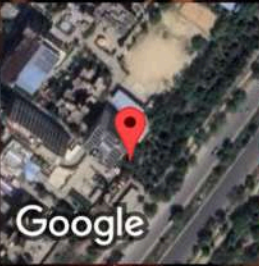
Delhi, Delhi, India
P398+9J6, Pocket 5, Sector 22, Rohini, Delhi, 110086, India
Lat 28.718304°
Long 77.066414°
08/12/23 10:49 AM GMT +05:30





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P398+9J6, Pocket 5, Sector 22, Rohini, Delhi, 110086, India
Lat 28.718304°
Long 77.066414°
08/12/23 10:49 AM GMT +05:30



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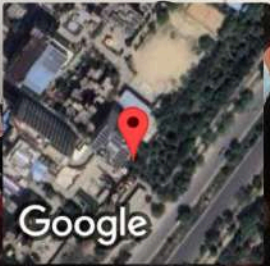


Implications for Decision-Making

- Rural Programs
- Specialization
- Risk Distribution

	I	II	III
H	20	10	10
F	10	20	10
A			

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Implications for Decision-Making

Rapid Response

Decentralization allows for faster decision-making, enabling organizations to respond swiftly to market changes and customer needs.

Specialization

Decentralization can foster specialization as decision-making authority is delegated to teams with specific knowledge and expertise.

Risk Distribution

Decentralization helps distribute risk by empowering multiple decision-makers, reducing the dependency on a single centralized authority.

Handwritten notes on a whiteboard titled "Leontief Input-Output Model".

Input

	I	II	(D)	Total Output
I	14	2.0	4	10
II	8	10	32	180

$A = \begin{bmatrix} 14 & 2.0 \\ 8 & 10 \end{bmatrix}$, $D = \begin{bmatrix} 4 \\ 32 \end{bmatrix}$, $F = \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

$Ax + D = F$

$X = (I - A)^{-1} D$

$I - A = \begin{bmatrix} -14 & -2.0 \\ -8 & -10 \end{bmatrix}$

$(I - A)^{-1} = \frac{1}{\det(I - A)} \begin{bmatrix} -10 & 2.0 \\ 8 & -14 \end{bmatrix}$

$\det(I - A) = (-14)(-10) - (-16) = 140 + 16 = 156$

$(I - A)^{-1} = \frac{1}{156} \begin{bmatrix} -10 & 2.0 \\ 8 & -14 \end{bmatrix}$

$X = \frac{1}{156} \begin{bmatrix} -10 & 2.0 \\ 8 & -14 \end{bmatrix} \begin{bmatrix} 4 \\ 32 \end{bmatrix}$

$X = \frac{1}{156} \begin{bmatrix} -40 + 64 \\ 32 - 448 \end{bmatrix} = \frac{1}{156} \begin{bmatrix} 24 \\ -416 \end{bmatrix}$

$X = \begin{bmatrix} 24/156 \\ -416/156 \end{bmatrix} = \begin{bmatrix} 2/13 \\ -8/3 \end{bmatrix}$

$X = \begin{bmatrix} 0.154 \\ -2.667 \end{bmatrix}$

$Ax + D = F$

$\begin{bmatrix} 14 & 2.0 \\ 8 & 10 \end{bmatrix} \begin{bmatrix} 0.154 \\ -2.667 \end{bmatrix} + \begin{bmatrix} 4 \\ 32 \end{bmatrix} = \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

$\begin{bmatrix} 2.158 - 5.334 \\ 12.32 + 26.67 \end{bmatrix} + \begin{bmatrix} 4 \\ 32 \end{bmatrix} = \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

$\begin{bmatrix} -3.176 \\ 38.99 \end{bmatrix} + \begin{bmatrix} 4 \\ 32 \end{bmatrix} = \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

$\begin{bmatrix} 0.824 \\ 70.99 \end{bmatrix} = \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

$\begin{bmatrix} 0.824 \\ 70.99 \end{bmatrix} \approx \begin{bmatrix} 10 \\ 180 \end{bmatrix}$

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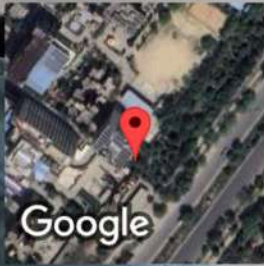
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Implications for Decision-Making

- Rapid Response**
Decentralization allows for faster decision-making, enabling organizations to respond swiftly to market changes and customer needs.
- Specialization**
Decentralization can foster specialization as decision-making authority is delegated to teams with specific knowledge and expertise.
- Risk Distribution**
Decentralization helps distribute risk by empowering multiple decision-makers, reducing dependency on a single centralized authority.

Scientific Input Output Model

	I	II	III	IV
I	14	20	4	40
II	8	90	32	80


$A = \begin{bmatrix} 14 & 20 & 4 & 40 \\ 8 & 90 & 32 & 80 \end{bmatrix}$

$A^{-1} = \begin{bmatrix} \frac{2}{5} & \frac{1}{5} \\ \frac{1}{5} & \frac{1}{5} \end{bmatrix}$

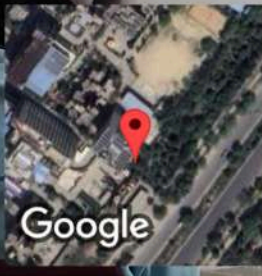
$I - A = \begin{bmatrix} -14 & -20 & -4 & -40 \\ -8 & -90 & -32 & -80 \end{bmatrix}$

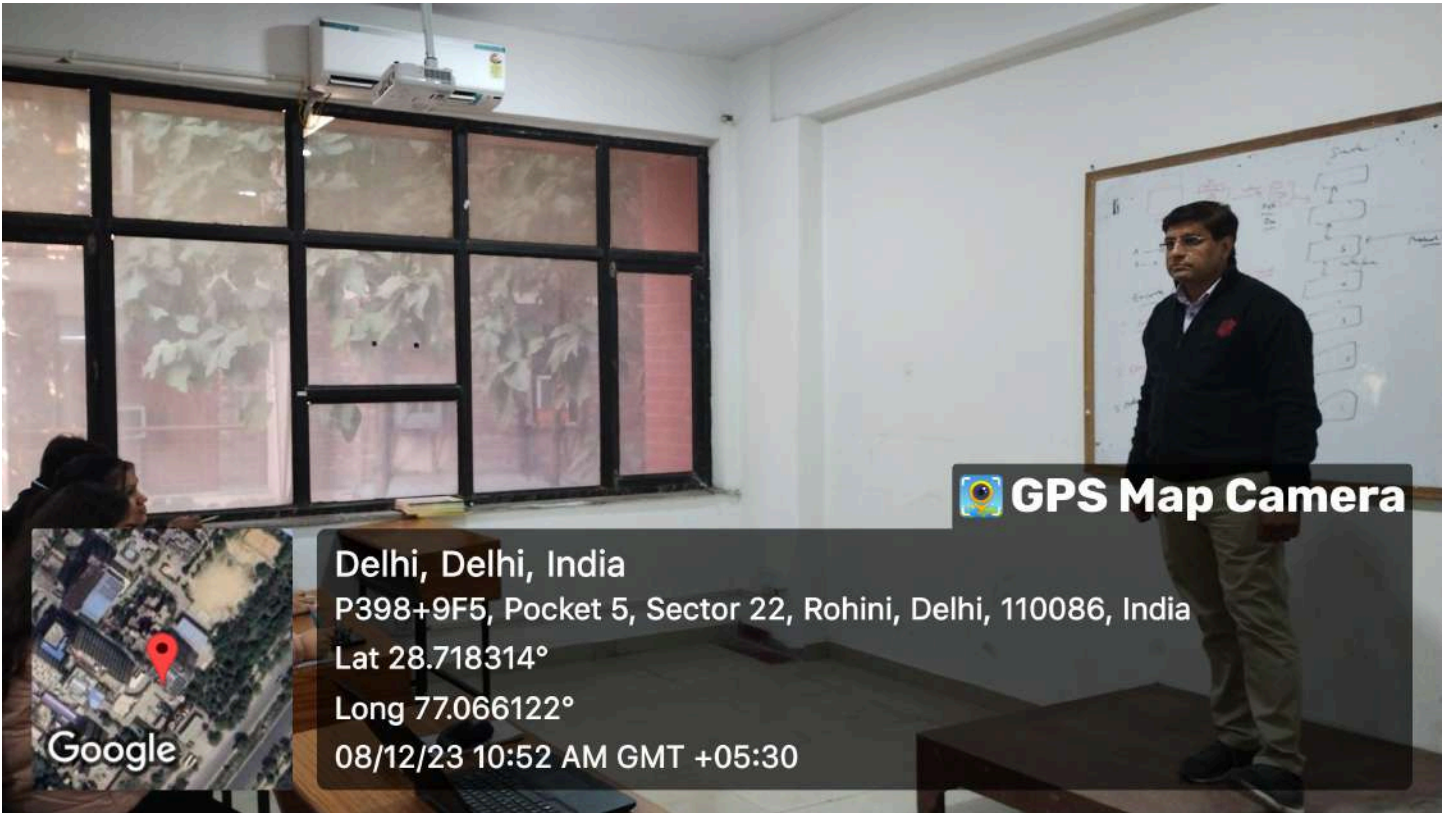
$X = (I - A)^{-1} D$

$Ax + b = x$
 $b = x - Ax$
 $D = x(I - A)$

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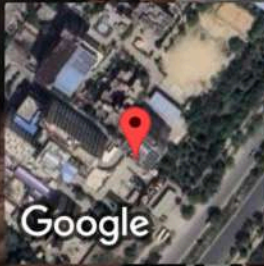
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Lat 28.7183°
Long 77.066371°
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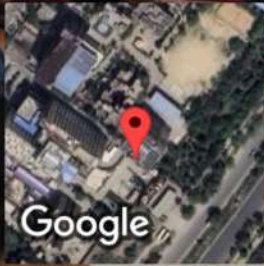
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Lat 28.718314°
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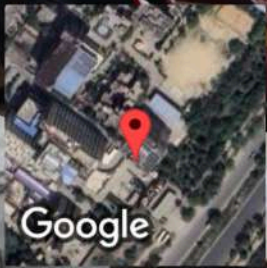
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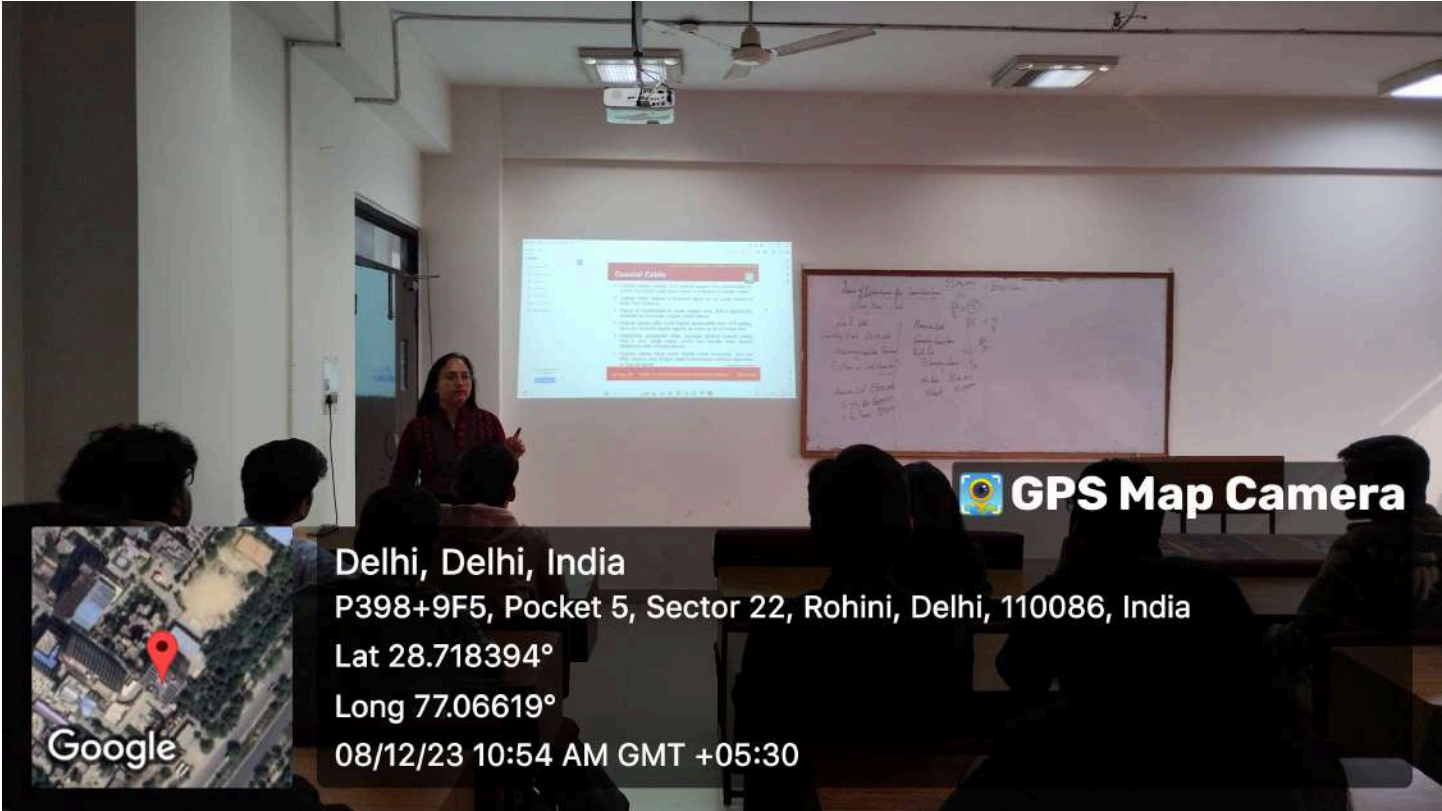
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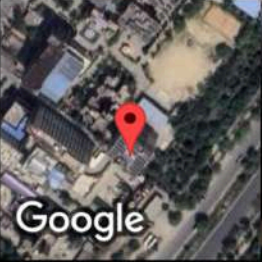


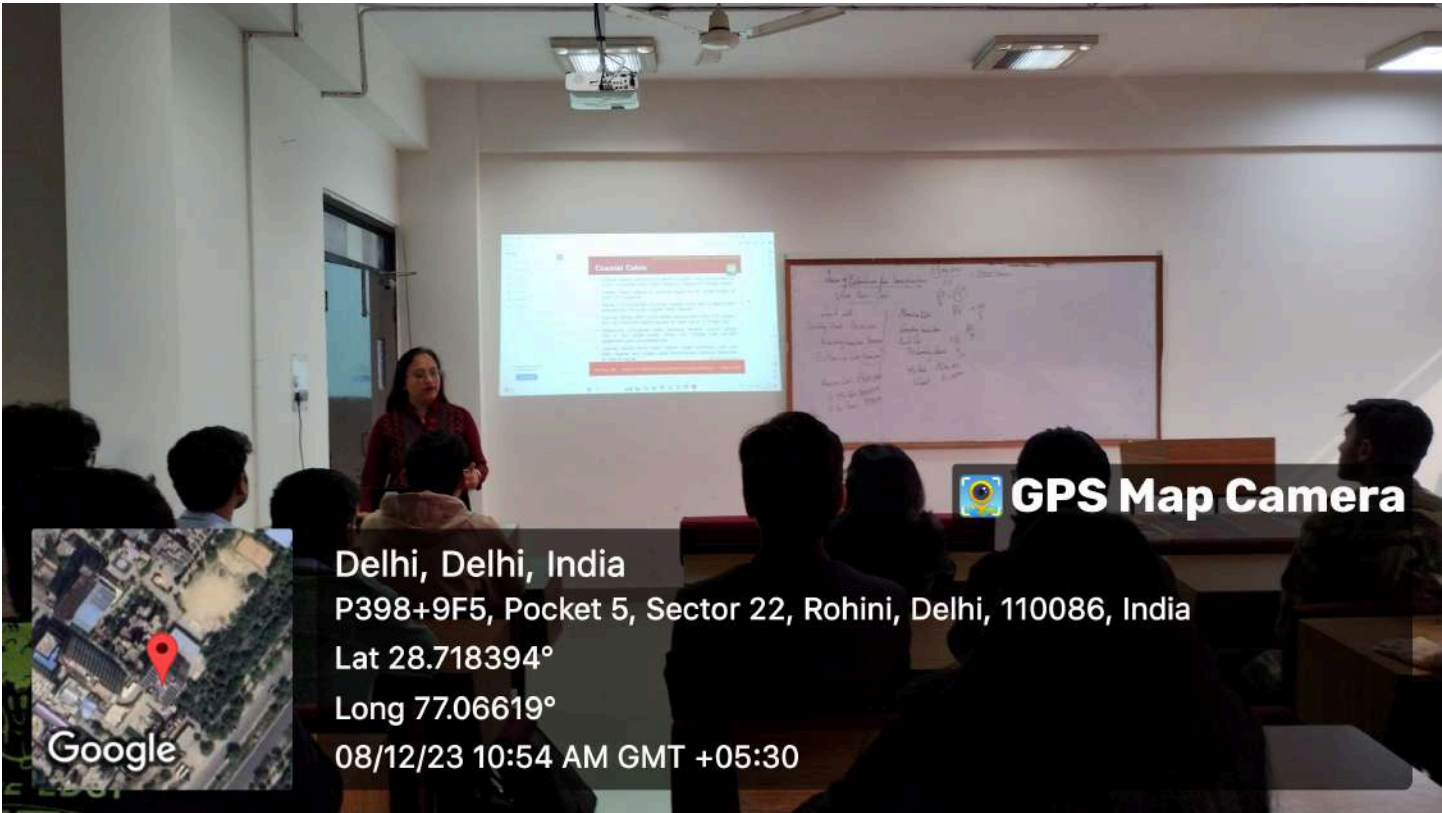
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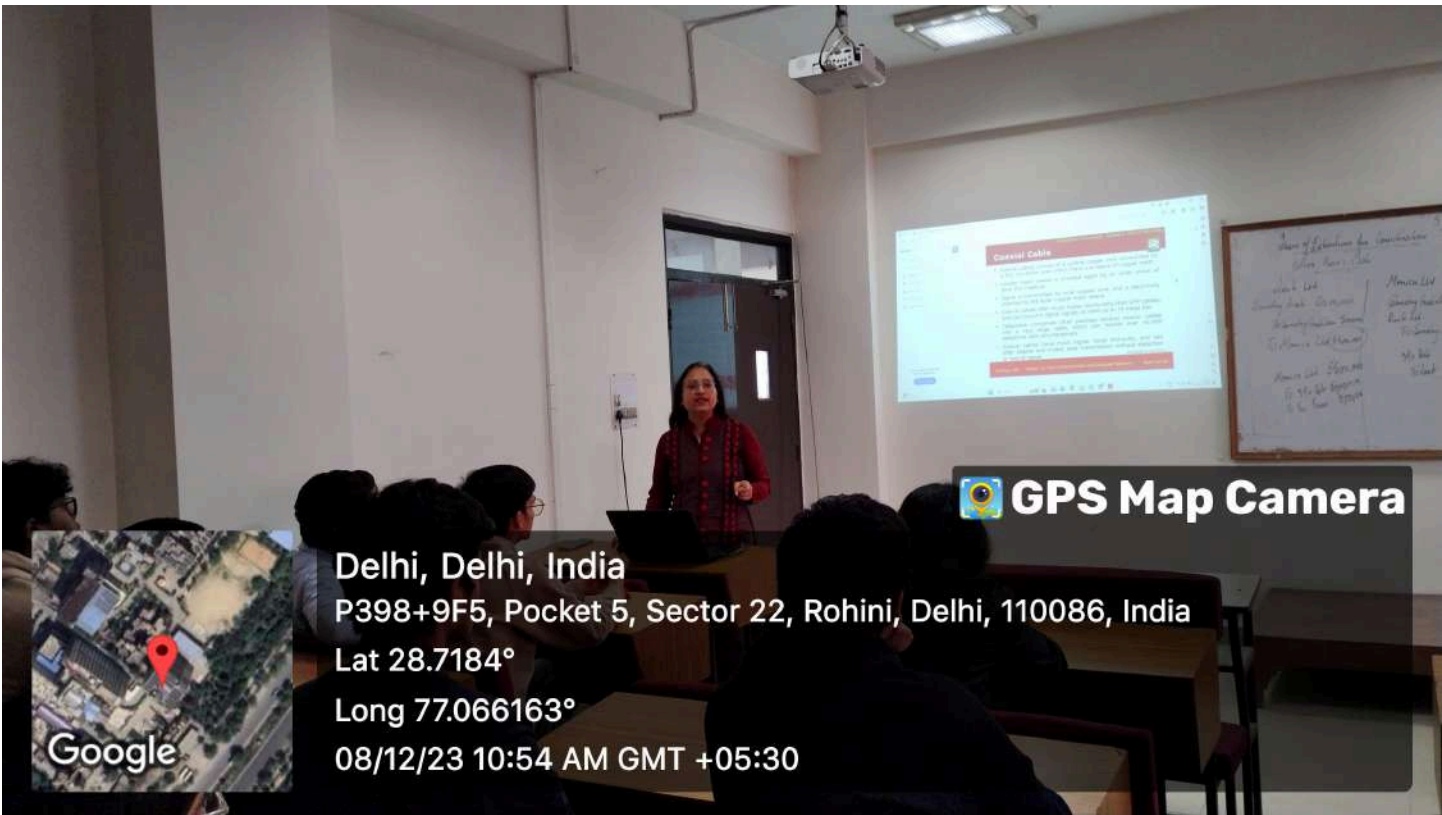




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Long 77.06619°
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Lat 28.7184°
Long 77.066163°
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08/12/23 10:55 AM GMT +05:30



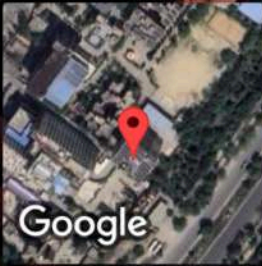
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Long 77.066176°
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Lat 28.718411°
Long 77.066176°
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