

PROGRAMME EDUCATIONAL OBJECTIVE PEO PROGRAMME OUTCOME PO PROGRAMME SPECIFIC OUTCOME PSO	VISIONARY Vision & Mission V M V M
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18-Physics

Current

Consider a wire of length l and cross-sectional area A carrying a current i . The drift velocity of electrons is v_d . The number of free electrons per unit volume is n . The total number of free electrons in the wire is $N = nAl$. The total charge in the wire is $Q = Ne$. The current is the rate of flow of charge, $i = \frac{dQ}{dt}$. The drift velocity is $v_d = \frac{i}{nA}$.

Resistance

The resistance of a wire is given by $R = \frac{\rho l}{A}$, where ρ is the resistivity of the material. The resistivity of a material is a property of the material and is independent of the dimensions of the wire.

Ohm's Law

Ohm's law states that the current i flowing through a conductor is directly proportional to the potential difference V across it, provided the temperature and other physical conditions remain constant. Mathematically, $V = iR$.

Power

The power P dissipated in a resistor is given by $P = i^2 R$ or $P = \frac{V^2}{R}$.

Coimbatore, Tamil Nadu, India

Longitude Latitude
76.8791° E 10.8364° N
29° C
Thursday, 26, Sep, 20... 12:53 PM

2019.09.26 12:53





Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8786° E 10.835° N

29° C

Friday, 27, Sep, 2019

11:13 AM

2019.09.27 11:13



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8786° E 10.8358° N

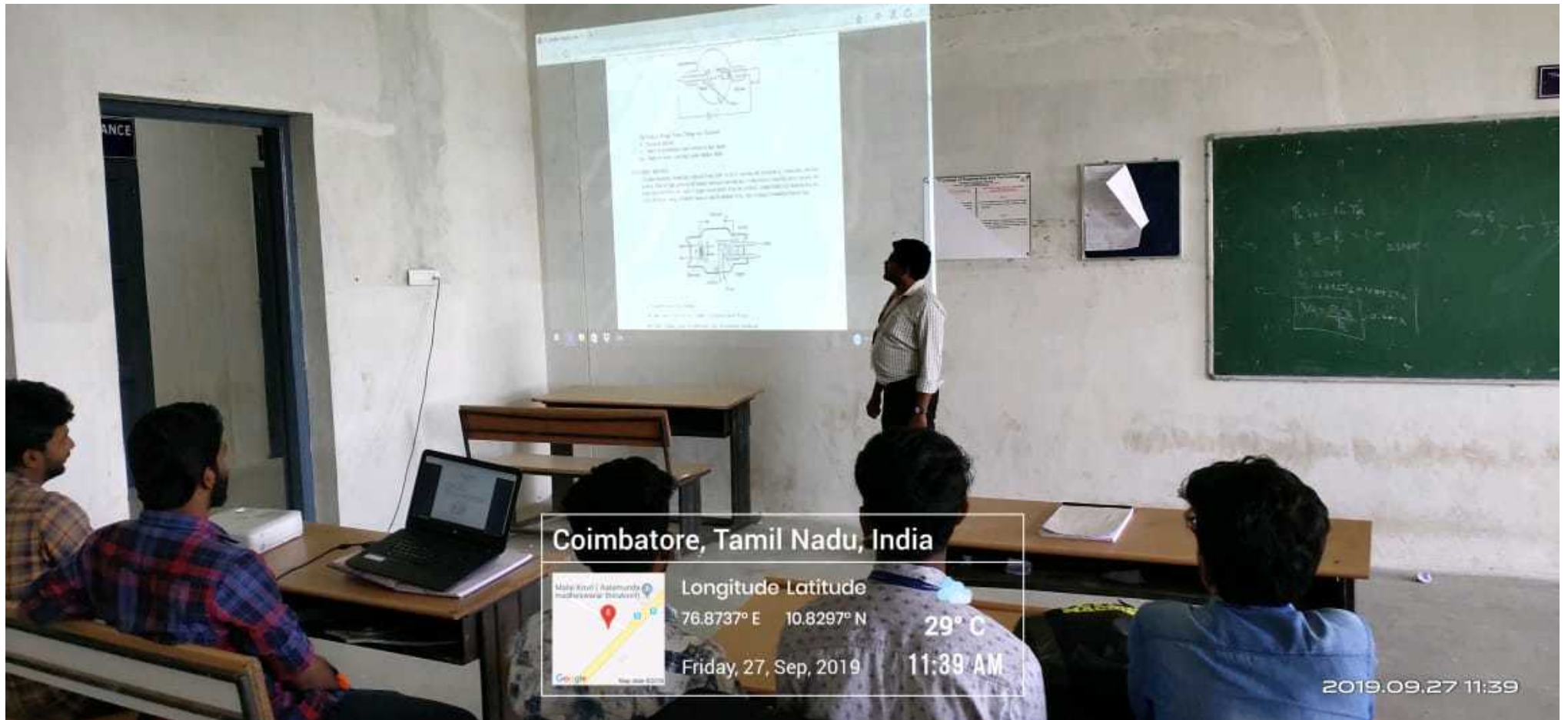


28° C

Thursday, 26, Sep, 20...

12:21 PM

2019.09.26 12:21



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8737° E 10.8297° N

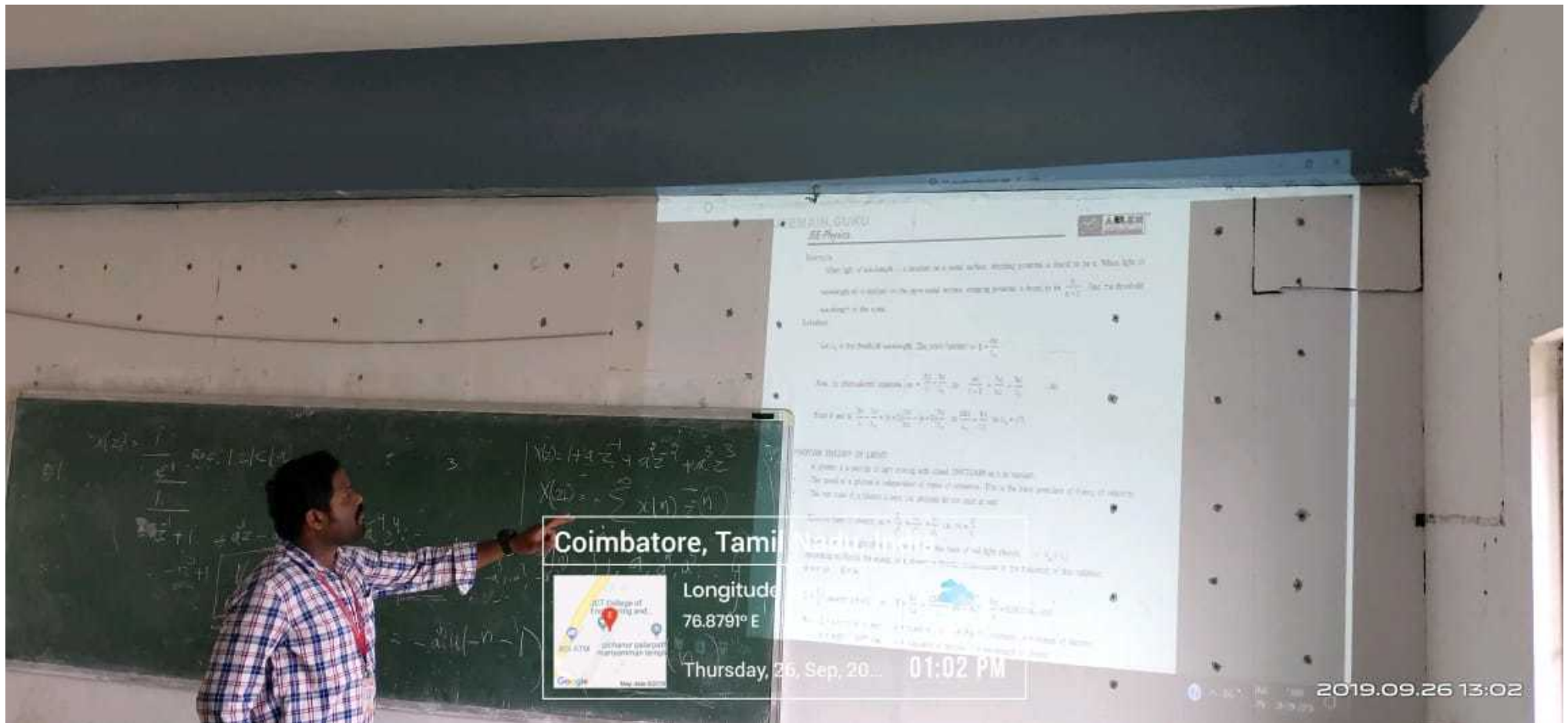
29° C

Friday, 27, Sep, 2019

11:39 AM

2019.09.27 11:39





Coimbatore, Tamil

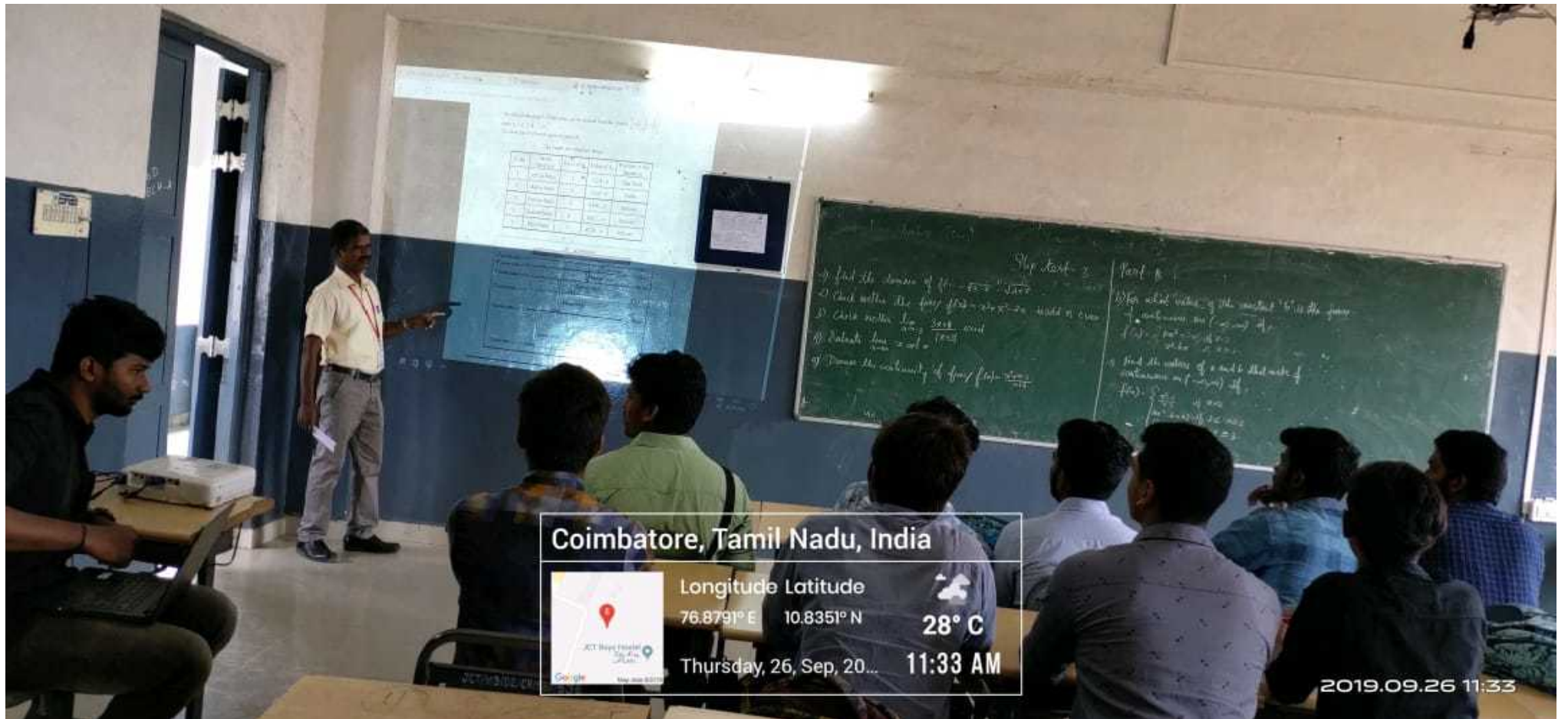


Longitude
76.8791° E

Thursday, 26, Sep, 20...

01:02 PM

2019.09.26 13:02







Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8797° E 10.8355° N

30° C

Friday, 27, Sep, 2019

12:10 PM

2019.09.27 12:10



Pichanur, --, India



Longitude Latitude

76.8772° E 10.8385° N



28° C

Thursday, 26, Sep, 20...

11:46 AM

2019.09.26 11:46



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8786° E 10.8358° N

28° C

Thursday, 26, Sep, 20...

12:10 PM

2019.09.26 12:10

2ET/MS/83/CR/810-336



Palakkad, Tamil Nadu, India



Longitude Latitude

76.8794° E 10.8353° N

Friday, 27, Sep, 2019



30° C

12:20 PM

2019.09.27 12:20



Palakkad, Tamil Nadu, India



Longitude Latitude

76.8792° E 10.8355° N

28° C

Thursday, 26, Sep, 20...

11:54 AM

2019.09.26 11:53



Palakkad, Tamil Nadu, India



Longitude Latitude

76.8795° E 10.8351° N

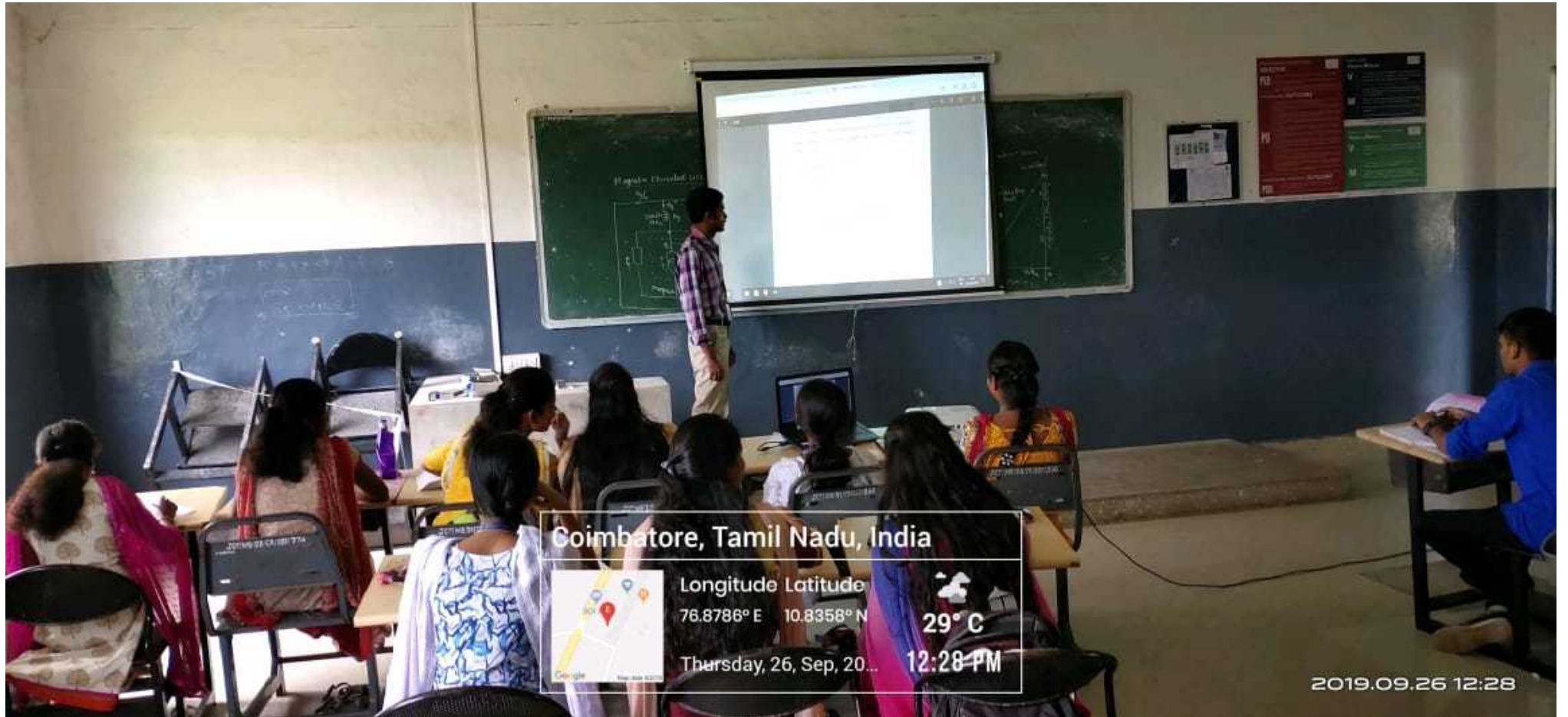
Friday, 27, Sep, 2019



29° C

11:34 AM

2019.09.27 11:34



Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8786° E 10.8358° N

29° C

Thursday, 26, Sep, 20...

12:28 PM

2019.09.26 12:28



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.879° E 10.8357° N

28° C

Thursday, 26, Sep, 20...

12:17 PM

2019.09.26 12:17



Palakkad, Kerala, India



Longitude Latitude

76.8402° E 10.8425° N

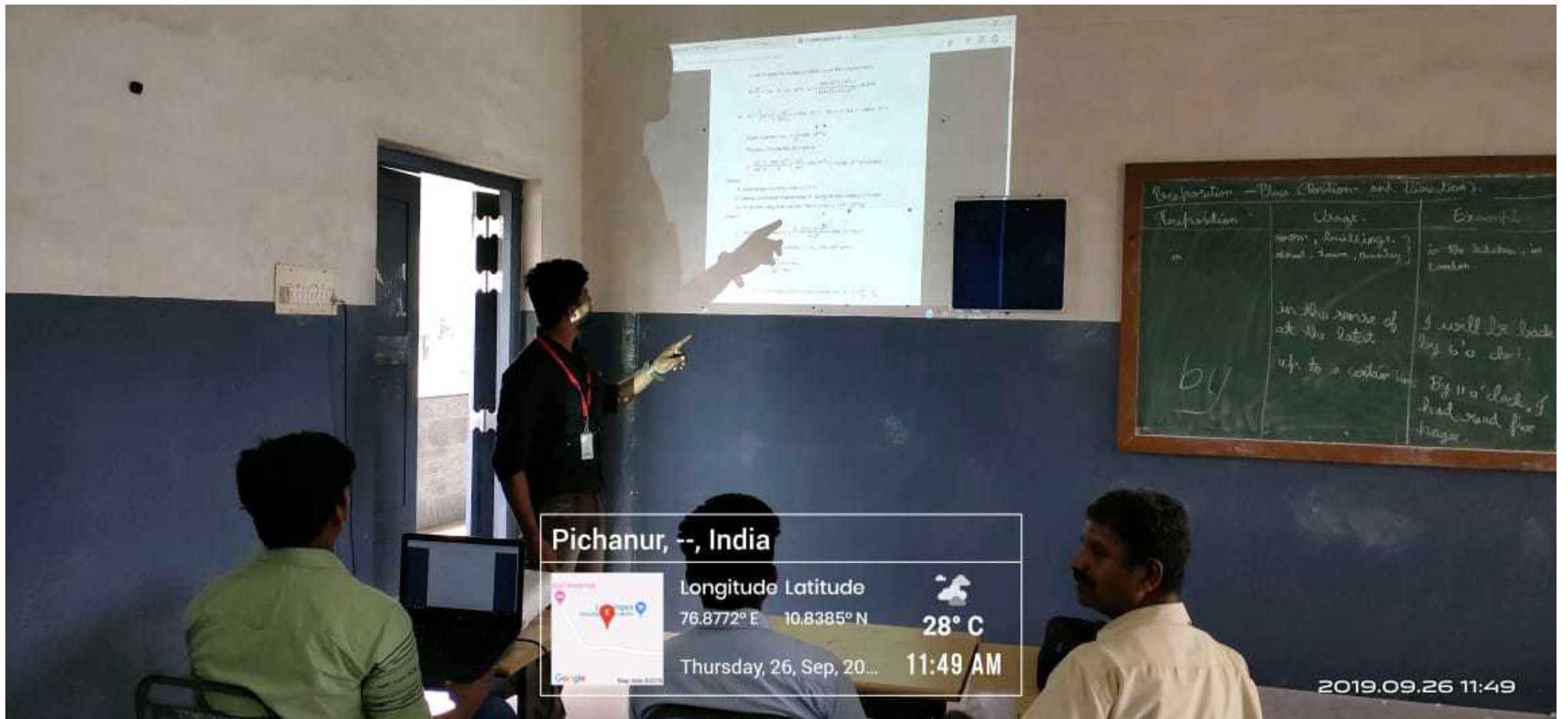


28° C

Thursday, 26, Sep, 20...

11:43 AM

2019.09.26 11:43







Palakkad, Tamil Nadu, India



Longitude Latitude

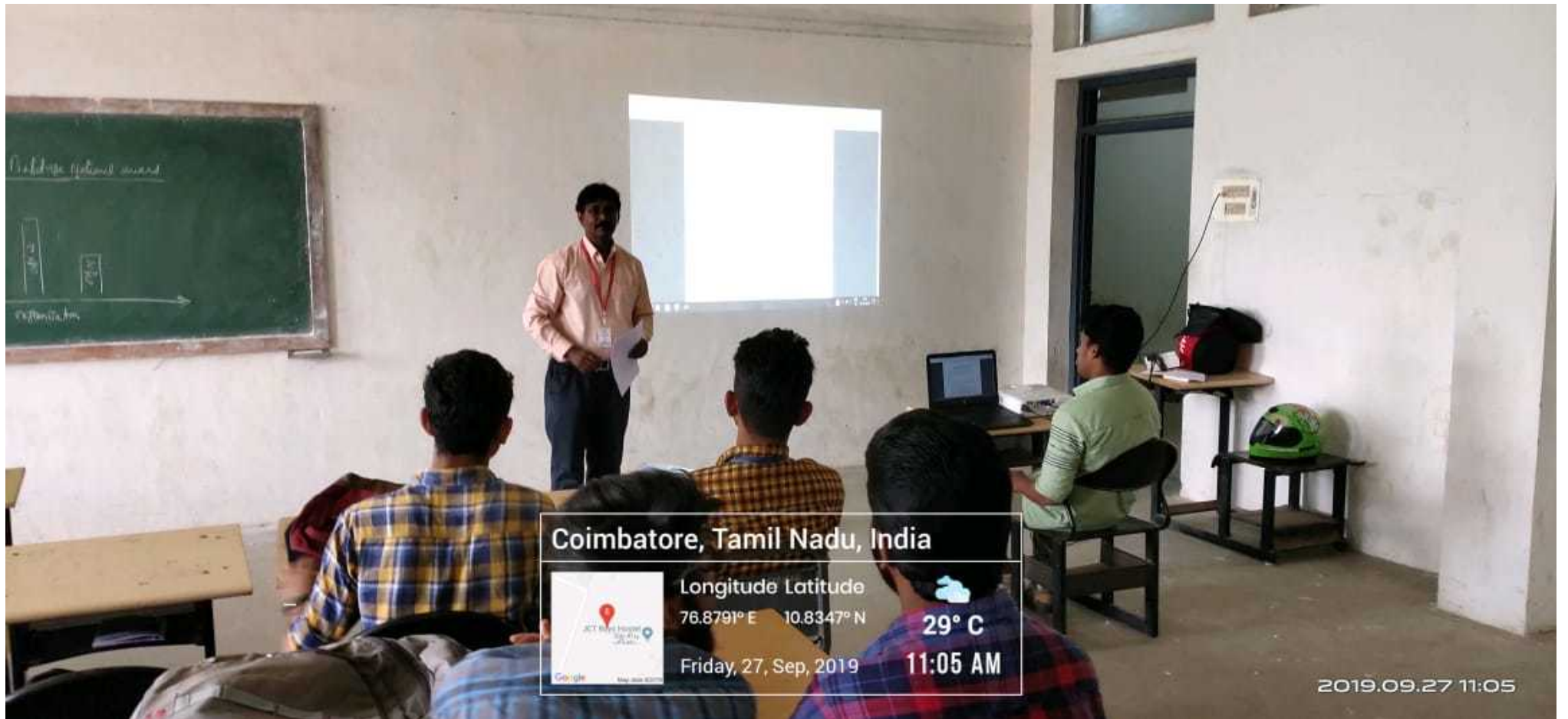
76.8792° E 10.8355° N

28° C

Thursday, 26, Sep, 20...

11:31 AM

2019.09.26 11:31



Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8791° E 10.8347° N
Friday, 27, Sep, 2019

29° C
11:05 AM

2019.09.27 11:05





Palakkad, Tamil Nadu, India



Longitude Latitude

76.8792° E 10.8355° N

28° C

Thursday, 26, Sep, 20...

12:00 PM

2019.09.26 12:00



Palakkad, Tamil Nadu, India



Longitude Latitude

76.8792°E 10.8355°N



28° C

Thursday, 26, Sep, 20...

11:40 AM

2019.09.26 11:40



Palakkad, Tamil Nadu, India



Longitude Latitude
76.8795° E 10.835° N
Friday, 27, Sep, 2019

29° C
11:02 AM

2019.09.27 11:02



Pichanur, --, India



Longitude Latitude

76.8772° E 10.8385° N

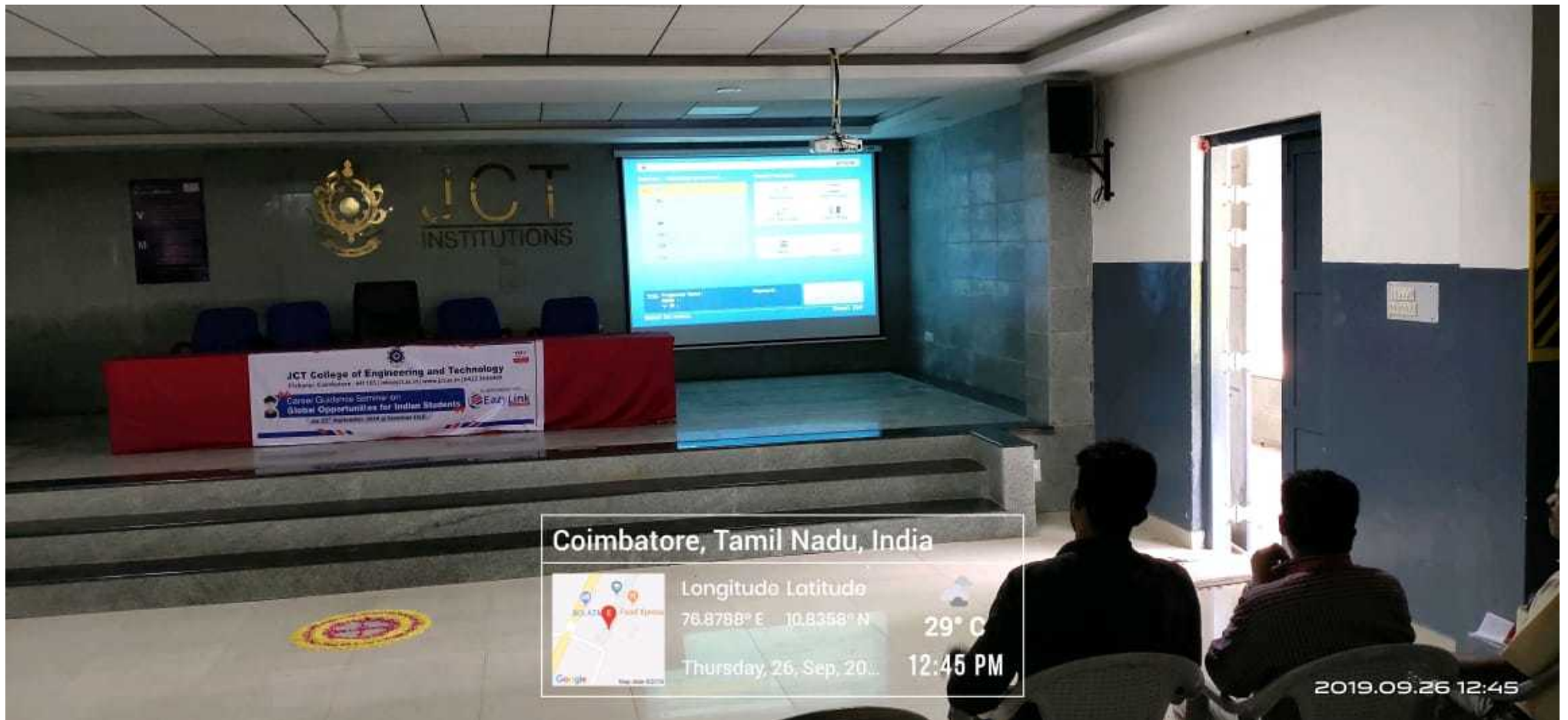
28° C

Thursday, 26, Sep, 20...

11:57 AM

2019.09.26 11:57





Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8798° E 10.8358° N

29° C

Thursday, 26, Sep, 20...

12:45 PM

2019.09.26 12:45



Analog and digital transmission

Analog transmission

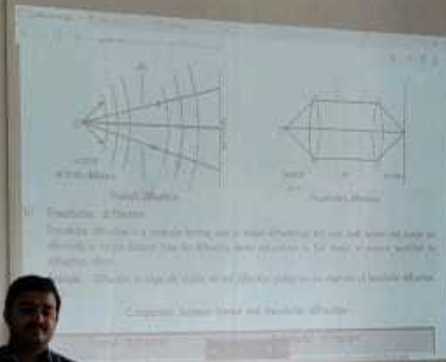
Message Signal

Carrier

unmodulated carrier

1 MCPC (Fm)

2 SCPC (Fm)



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.878° E 10.835° N

28 °C

Thursday, 26, Sep, 20...

11:14 AM

2019.09.26 11:14



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8786° E 10.835° N

29° C

Friday, 27, Sep, 2019

11:27 AM

2019.09.27 11:27



Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8737° E 10.8297° N

31° C

Friday, 27, Sep, 2019

12:35 PM

2019.09.27 12:35



Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8791° E 10.8365° N

30° C

Thursday, 26, Sep, 20...

12:57 PM

2019.09.26 12:57



Coimbatore, Tamil Nadu, India



Longitude Latitude
76.8796° E 10.8354° N

29° C

Friday, 27, Sep, 2019

11:17 AM

2019.09.27 11:17





Coimbatore, Tamil Nadu, India

 Longitude Latitude
76.8789° E 10.8358° N 28° C
Thursday, 26, Sep, 20... 12:14 PM

2019.09.26 12:13



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8788° E 10.8363° N



28° C

Thursday, 26, Sep, 20...

12:05 PM

2019.09.26 12:05



Palakkad, Tamil Nadu, India



Longitude Latitude

76.8750° E 10.8351° N



29° C

Friday, 27, Sep, 2019

11:41 AM

2019.09.27 11:41





Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8789° E 10.8358° N



29° C

Thursday, 26, Sep, 20...

12:24 PM

2019.09.26 12:24



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8791° E 10.8368° N

28° C

Thursday, 26, Sep, 20...

11:21 AM

2019.09.26 11:21



Coimbatore, Tamil Nadu, India



Longitude Latitude

76.8737° E 10.8297° N



30° C

Friday, 27, Sep, 2019

11:51 AM

2019.09.27 11:51