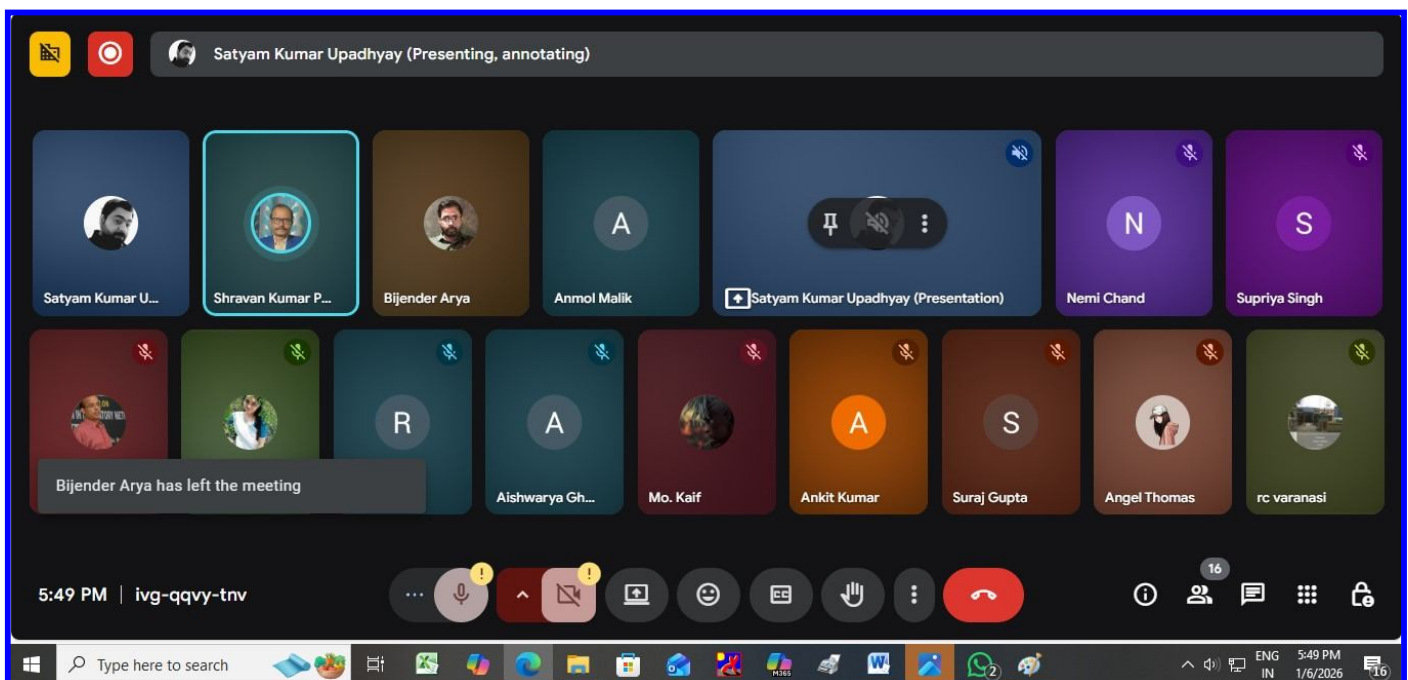


12th Jan 2026

RC– Varanasi

Online academic counseling sessions for BSCAEY programme for July 2025 session



The Regional Centre Varanasi as the Nodal Centre is conducting Online Academic counseling for students of Bachelor of Science (Applied Science-Energy) programme. The online theory counseling is scheduled from 5th January 2026 to 12th January 2026 and also uploaded at RC Varanasi website and sent to all Regional Centres. Students of these programmes from all the Regional Centres are attending these counseling sessions. Dr. Satyam Kumar Upadhyay took counseling sessions as Academic Counsellor of BSCAEY (BEY-12) programme courses. On the first day of the counseling i.e. 5th January a formal Induction was conducted for the students. Dr. U N Tripathi, Regional Director & Dr. S K Pandey, Dy. Director briefed the students about the important points which are to be kept in mind by the students while pursuing this programme. Dr. Upendra Nabh Tripathi, Regional Director and Dr. S K Pandey, DD monitored the counseling classes regularly. Recorded videos of these sessions are also being uploaded on RC Varanasi Youtube channel.

12th Jan 2026

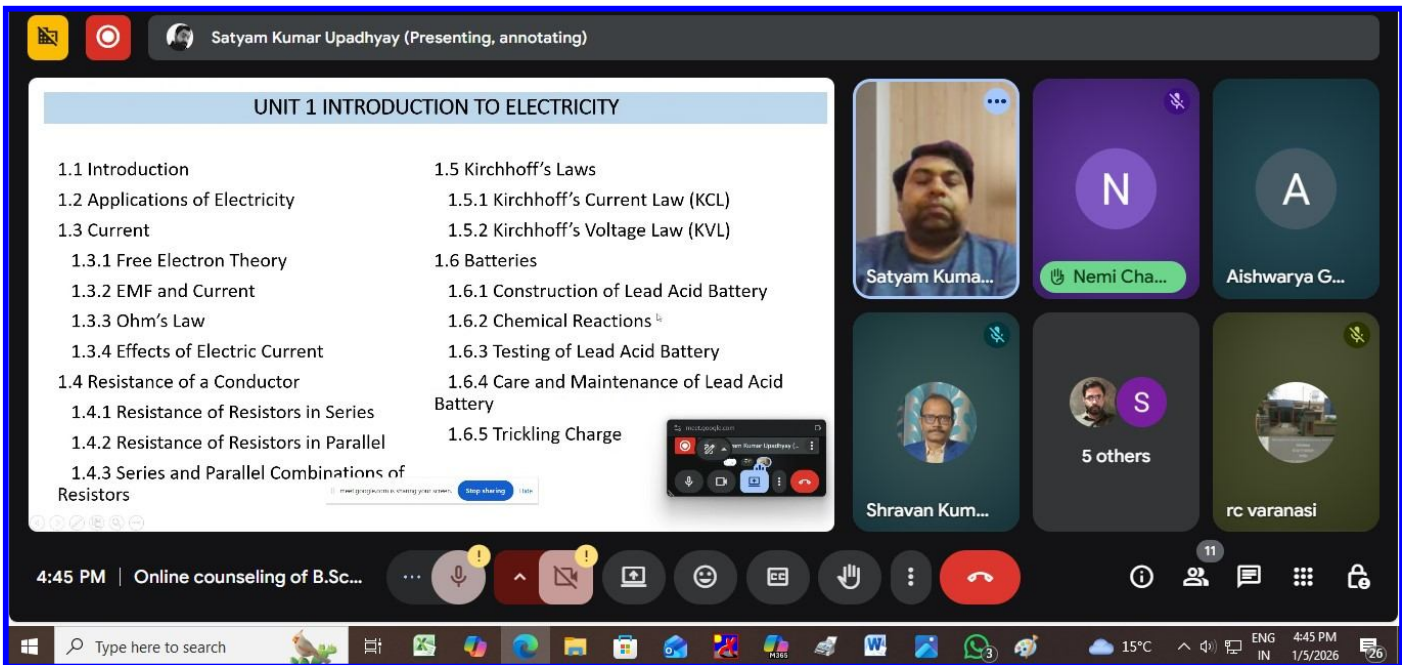
RC- Varanasi



Participants visible in the meeting:

- Satyam Kumar Upadhyay
- Bijender Arya
- Nemi Chand (2)
- Supriya Singh
- Aishwarya Ghosh
- sagar singh (1)
- Shravan Kumar Pandey
- Upendra Nabh Tripathi
- rc varanasi

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UNIT 1 INTRODUCTION TO ELECTRICITY

- 1.1 Introduction
- 1.2 Applications of Electricity
- 1.3 Current
 - 1.3.1 Free Electron Theory
 - 1.3.2 EMF and Current
 - 1.3.3 Ohm's Law
 - 1.3.4 Effects of Electric Current
- 1.4 Resistance of a Conductor
 - 1.4.1 Resistance of Resistors in Series
 - 1.4.2 Resistance of Resistors in Parallel
 - 1.4.3 Series and Parallel Combinations of Resistors
- 1.5 Kirchoff's Laws
 - 1.5.1 Kirchoff's Current Law (KCL)
 - 1.5.2 Kirchoff's Voltage Law (KVL)
- 1.6 Batteries
 - 1.6.1 Construction of Lead Acid Battery
 - 1.6.2 Chemical Reactions
 - 1.6.3 Testing of Lead Acid Battery
 - 1.6.4 Care and Maintenance of Lead Acid Battery
 - 1.6.5 Trickling Charge

Participants visible in the meeting:

- Satyam Kumar Upadhyay (Presenting, annotating)
- Nemi Chand
- Aishwarya G...
- Shravan Kum...
- 5 others
- rc varanasi

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12th Jan 2026

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Satyam Kumar Upadhyay (Presenting, annotating)

1.4 RESISTANCE OF A CONDUCTOR

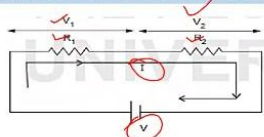


Figure 1.5

Solution
Here $R_{eq} = R_1 + R_2$
We know, current $I = \frac{V}{R_{eq}} = \frac{V}{R_1 + R_2}$
∴ Voltage drop across R_1 is $V_1 = I \cdot R_1$.
So,
$$\Rightarrow V_1 = \frac{V}{R_1 + R_2} \cdot R_1 = \frac{V R_1}{R_1 + R_2}$$

Similarly, voltage drop across R_2 is V_2
$$\Rightarrow V_2 = \frac{V R_2}{R_1 + R_2}$$

Upendra Nabh Tripathi

Satyam Kumar Upadhyay

16 others

rc varanasi

English (United States)
English (India) keyboard
To switch input methods, press Windows key+Space.

4:40 PM | ivg-qvvy-tnv

4:42 PM | Online counseling of B.Sc...

Satyam Kumar Upadhyay

Bijender Arya

Nemi Chand

Supriya Singh

Aishwarya Ghosh

Shravan Kumar Pandey

Upendra Nabh Tripathi

Angel Thomas

sagar singh

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ENG IN

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1/5/2026