Dr. Ambedkar College Deekshabhoomi, Nagpur
Department of Chemistry
Students' Seminar for B.Sc. Sem I & B.Sc. Sem III - 2020

Chemistry seminars are organized for B.Sc. Sem I students online on dated 30/12/2020. Seminars were conducted on different topics. We have conducted online seminars. The students explained very well their interesting topics by using power point methods. B.Sc. Sem I students almost covered the topics of all the 4 units. The topics are - Idea of De Broglie Matter Waves, Noble Gases and its real life application, Heisenberg Uncertainty Principle, Noble Gases, Quantum Numbers, Hydrogen Bonding, Ionization Potential and Compounds in Noble Gases etc.

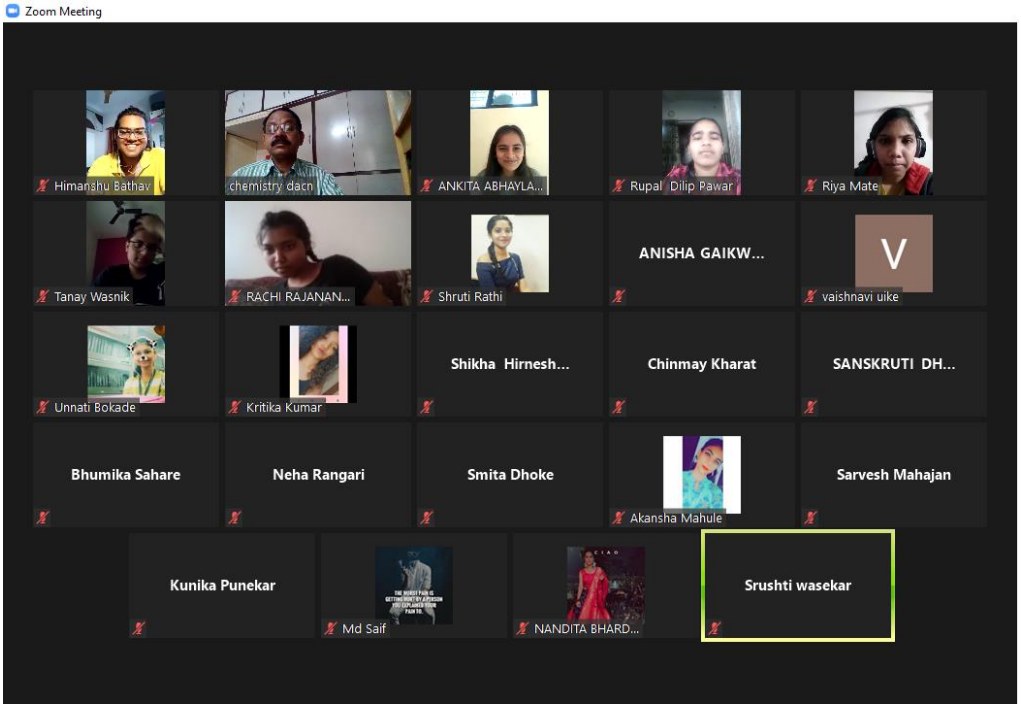
The following students participated in the seminar:

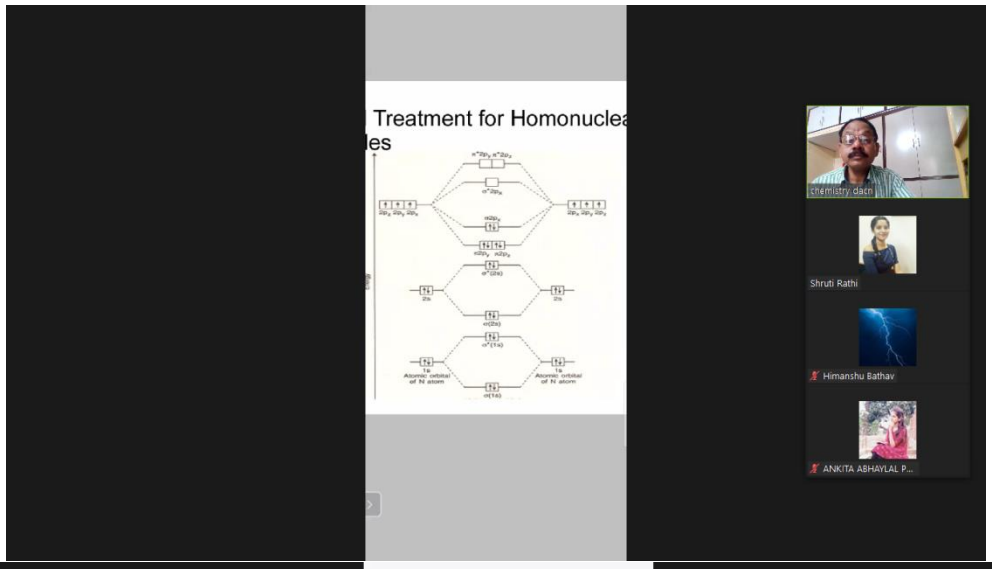
1. Riya Gadghate	Idea of de Broglie matter waves
2. Dhanashree Kakad	Noble Gases and its real life applications
3. Akshat Hatwar	Heisenberg Uncertainty Principle
4. Tanushree Chauhan	Noble Gases
5. Deepti Ramteke	Quantum numbers
6. Manasi Parihar	Hydrogen Bonding
7. Saheli Chakre	Ionization Potential
8. Rashmi Rawate	Compounds in Noble Gases
9. Rachi Rajan	Separation of lanthanides
10. Shruti Rathi	Ion Exchange Method

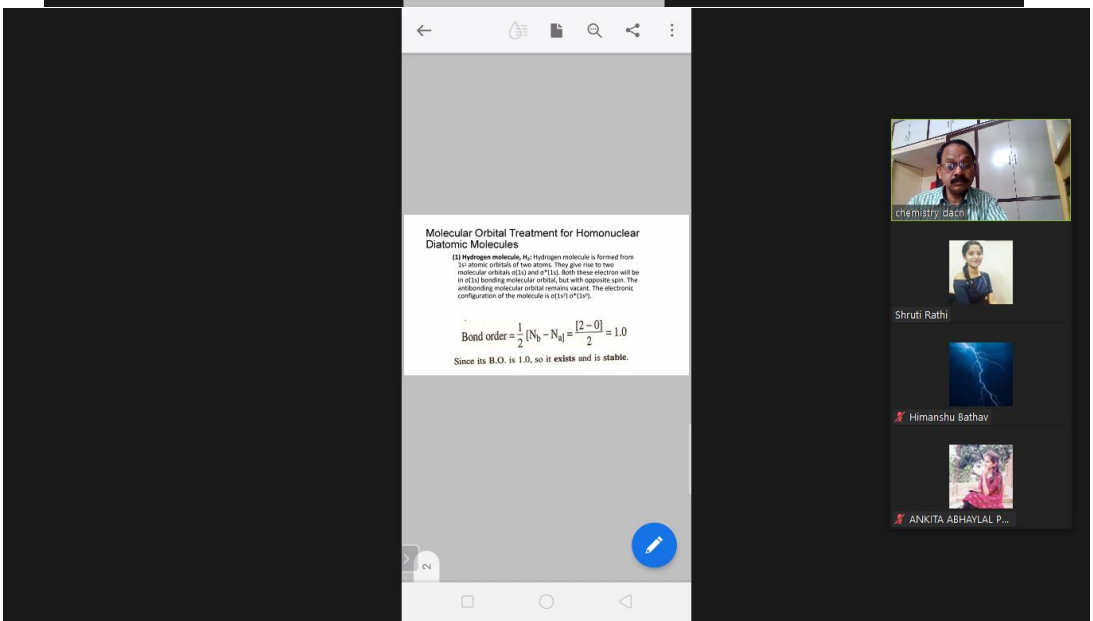
The students explained very well their topics along with diagrams and necessary equations. They used PowerPoint methods and the seminar was conducted online.
V. M. Shivankar, Professor of the Chemistry Department conducted online seminars for the B.Sc. Sem I students.

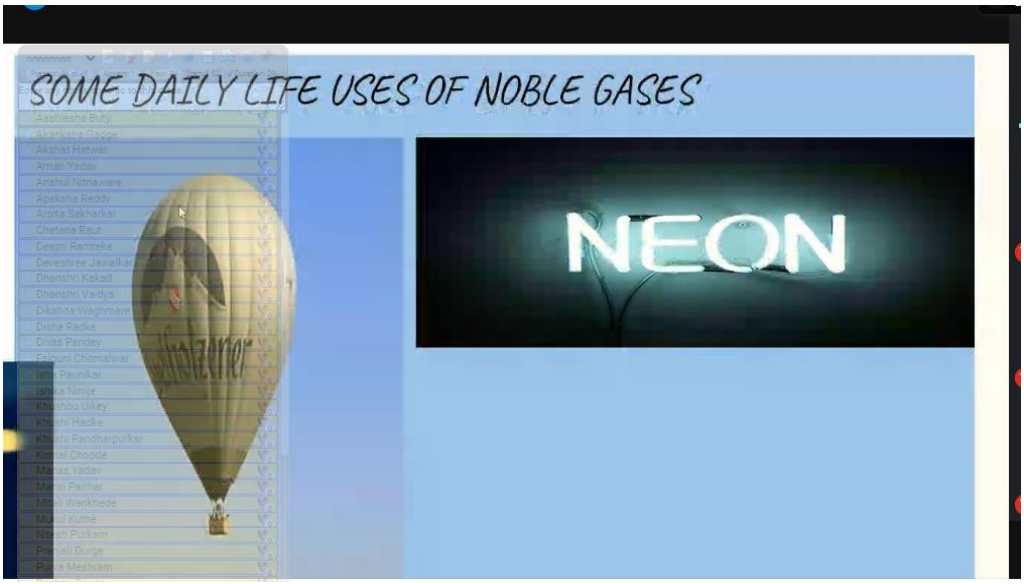
Dr. V. M. Shivankar
Professor
Department of chemistry
Dr. Ambedkar College Deekshabhoomi Nagpur

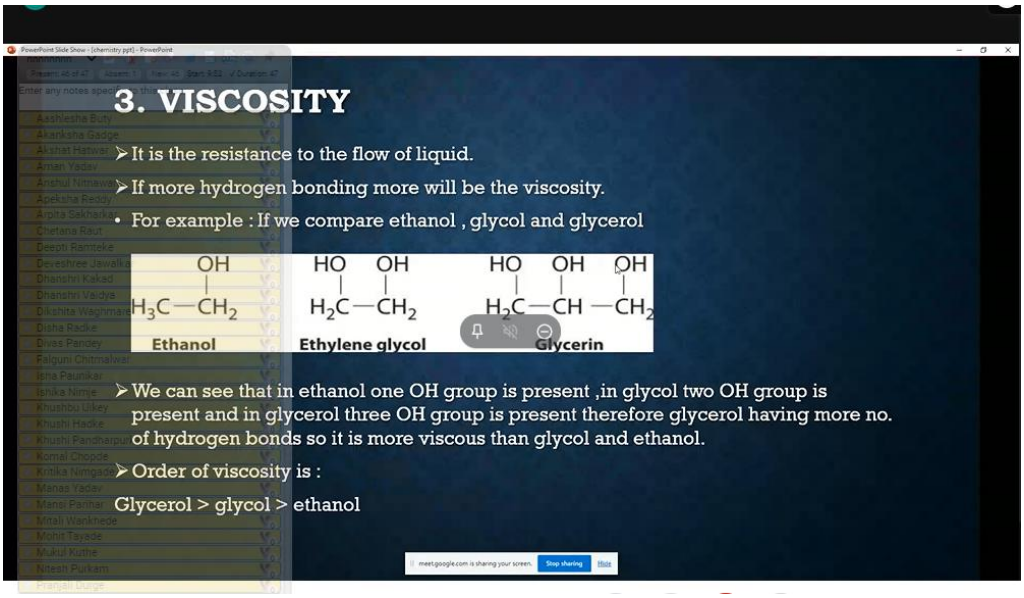
B.Sc. Sem I - 2020

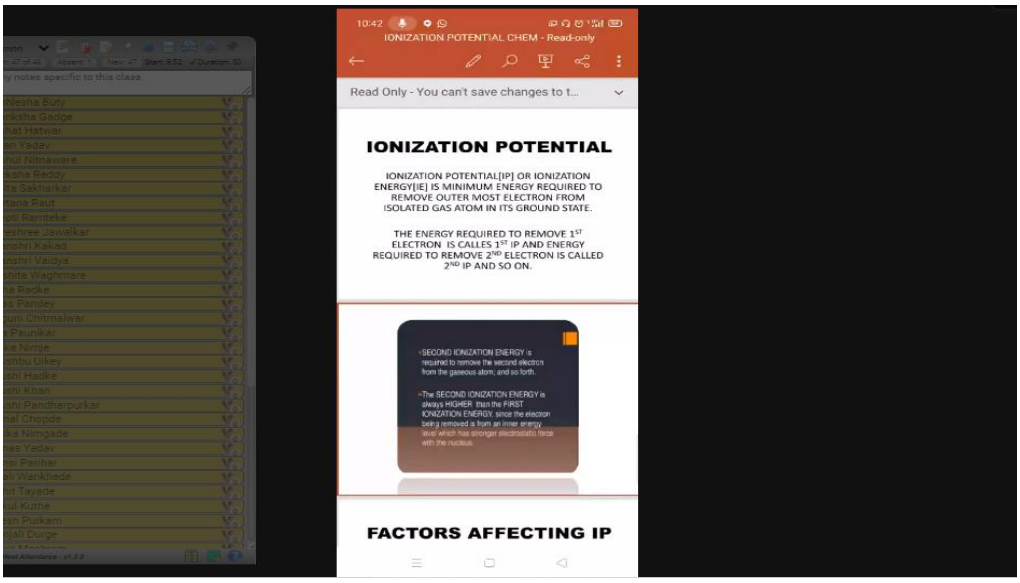


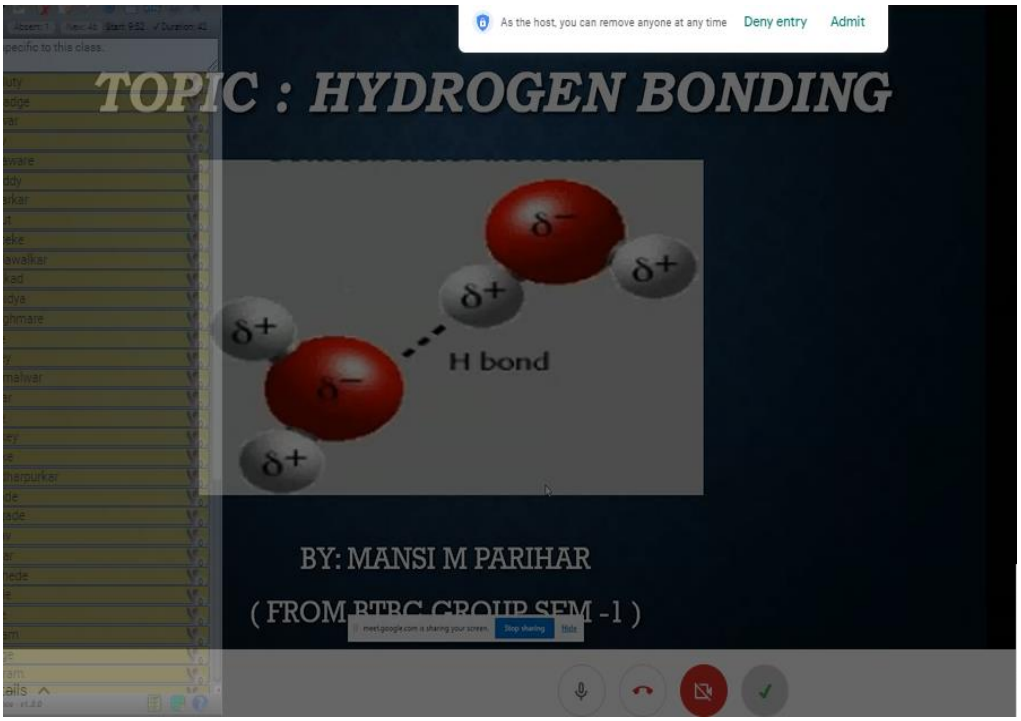


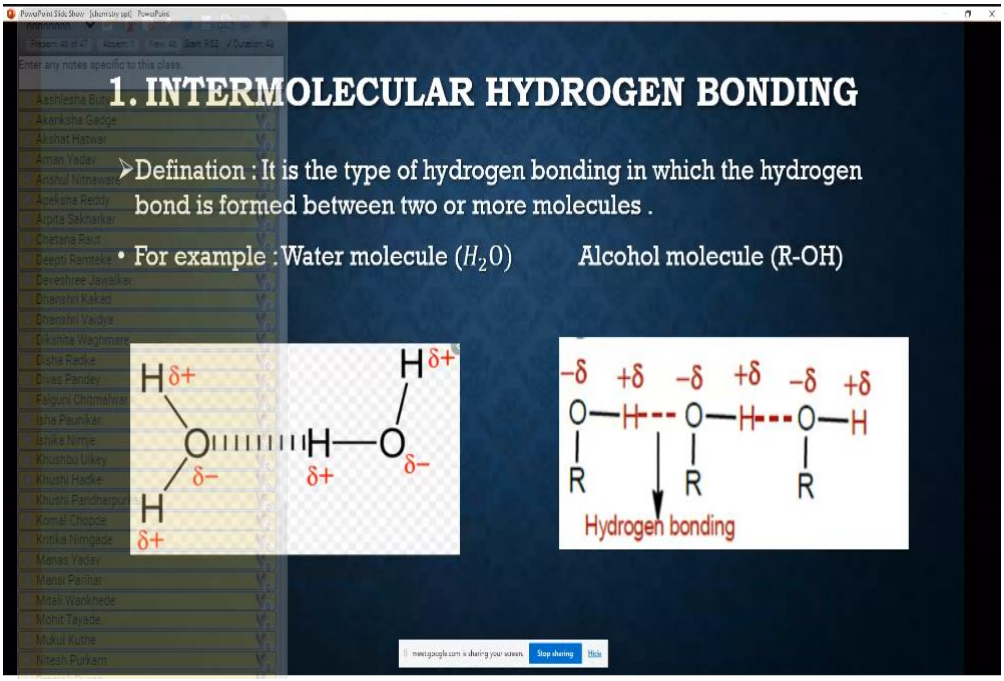


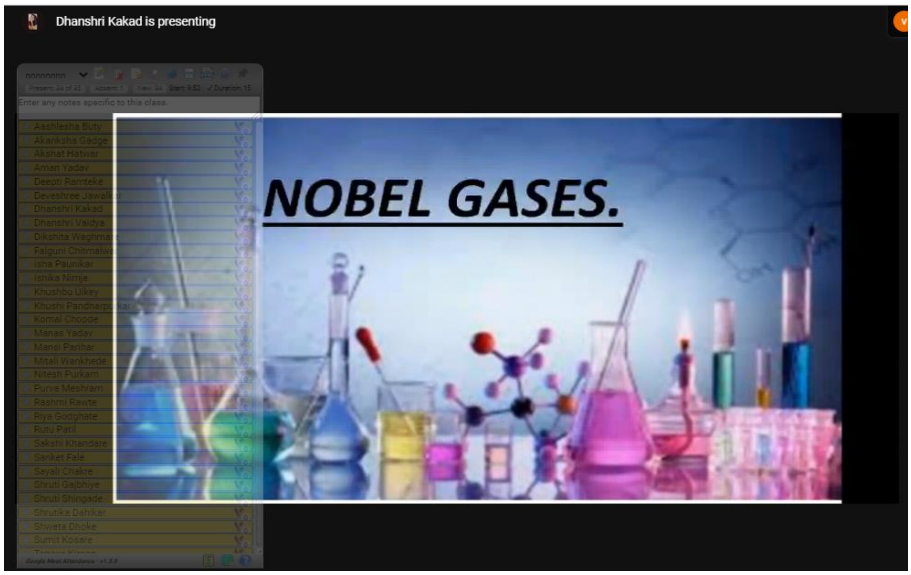

SOME DAILY LIFE USES OF NOBLE GASES
NEON


3. VISCOSITY
It is the resistance to the flow of liquid.
If more hydrogen bonding more will be the viscosity.
For example : If we compare ethanol , glycol and glycerol
Ethanol
Ethylene glycol
Glycerin
We can see that in ethanol one OH group is present ,in glycol two OH group is present and in glycerol three OH group is present therefore glycerol having more no. of hydrogen bonds so it is more viscous than glycol and ethanol.
Order of viscosity is :
Glycerol > glycol > ethanol

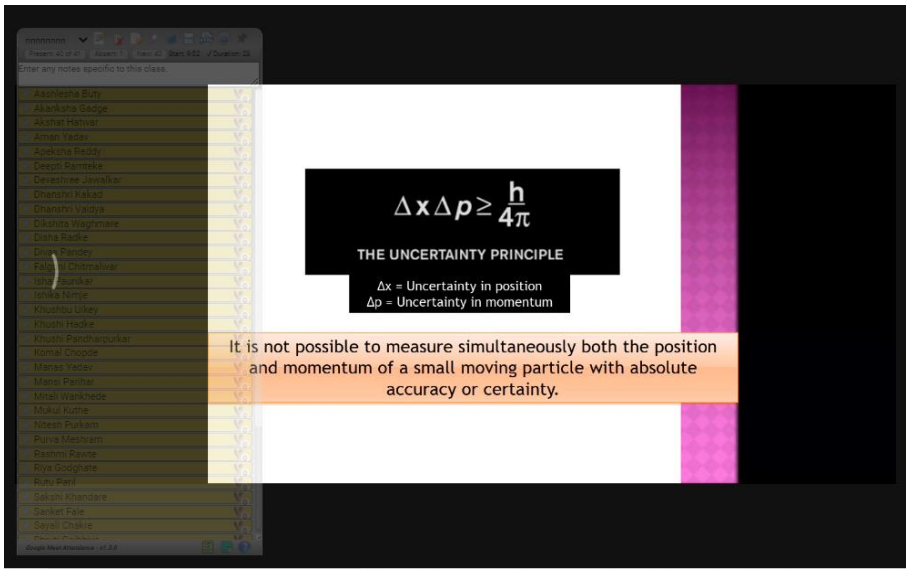

IONIZATION POTENTIAL CHEM - Read-only
Read Only - You can't save changes to t...
IONIZATION POTENTIAL
IONIZATION POTENTIAL(IP) OR IONIZATION ENERGY(IE) IS MINIMUM ENERGY REQUIRED TO REMOVE OUTER MOST ELECTRON FROM ISOLATED GAS ATOM IN ITS GROUND STATE.
THE ENERGY REQUIRED TO REMOVE 1ST ELECTRON IS CALLES 1ST IP AND ENERGY REQUIRED TO REMOVE 2ND ELECTRON IS CALLED 2ND IP AND SO ON.
FACTORS AFFECTING IP


As the host, you can remove anyone at any time
Deny entry
Admit
TOPIC : HYDROGEN BONDING
δ−
δ+
δ+
δ+
δ−
δ+
H bond
BY: MANSI M PARIHAR
(FROM BTBC GROUP SEM -1)


1. INTERMOLECULAR HYDROGEN BONDING
➢Defination : It is the type of hydrogen bonding in which the hydrogen bond is formed between two or more molecules .
• For example :Water molecule (H_2O)
Alcohol molecule (R-OH)
Hydrogen bonding


Dhanshri Kakad is presenting
NOBEL GASES.


Ne
What do Party Ballons , Neon Signs , and certain Lightbulb have in common in them...????
They are all filled with a Noble Gases.


$\Delta x \Delta p \geq \frac{h}{4\pi}$
THE UNCERTAINTY PRINCIPLE
Δx = Uncertainty in position
Δp = Uncertainty in momentum
It is not possible to measure simultaneously both the position and momentum of a small moving particle with absolute accuracy or certainty.

B.Sc.sem. III-2020