Peer-Peer Mentoring Program

Student Learning Center, Hansraj College

Month and Year: March & April, 2022

Department: Chemistry

Name of the Departmental Program Coordinator: Dr Jyoti Singh

S. No	Name of the Mentor	Semester	Number of sessions	Date and Time (of each session)	Topics covered (in each session)	No. of Mentees attended (per each session)
1	Mr Sudhanshu	IV	3 (each of 1 hour)	6-03-2022 2:00 PM - 4:00 PM	Periodicity of elements	46
				13-03-2022 12:00 PM - 1:00 PM	Periodicity of elements	26
2	Ms Mahak Chabbra	VI	2 (each of 1 hour)	13-03-2022 12:00 PM - 1:00 PM	Conductance	10
				27-03-2022 12:00 PM - 1:00 PM	Conductance	10
3	Ms Manya Aggarwal	VI	2 (each of 1 hour)	10-04-2022 2:30 PM – 4:00 PM	Terpenes	7
				17-04-2022 2:30 PM – 4:30 PM	Terpenes	4

Mentor 1: Mr. Sudhanshu

Course: B.Sc (H) Chemistry

Current Sem: IV

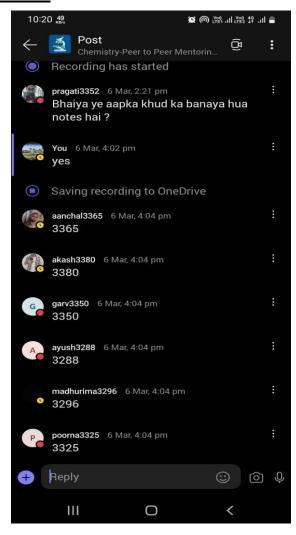
Email id: Sudhanshu4bel@gmail.com

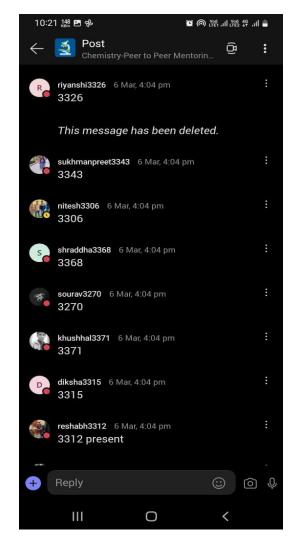
March 6, 2022 and March 13, 2022: Both the sessions focused on brief discussion of the following properties of the elements, with reference to s-& p-block and the trends shown:

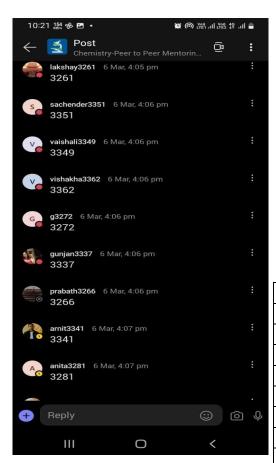


- (a) Effective nuclear charge, shielding or screening effect, Slater rules, variation of effective nuclear charge in periodic table.
- (b) Atomic and ionic radii.
- (c) Ionization enthalpy, Successive ionization enthalpies and factors affecting ionization enthalpy and trends in groups and periods.
- (d) Electron gain enthalpy and trends in groups and periods.
- (e) Electronegativity, Pauling's/ Allred Rochow's scales. Variation of electronegativity with bond order, partial charge, hybridization, group electronegativity

Attendance:

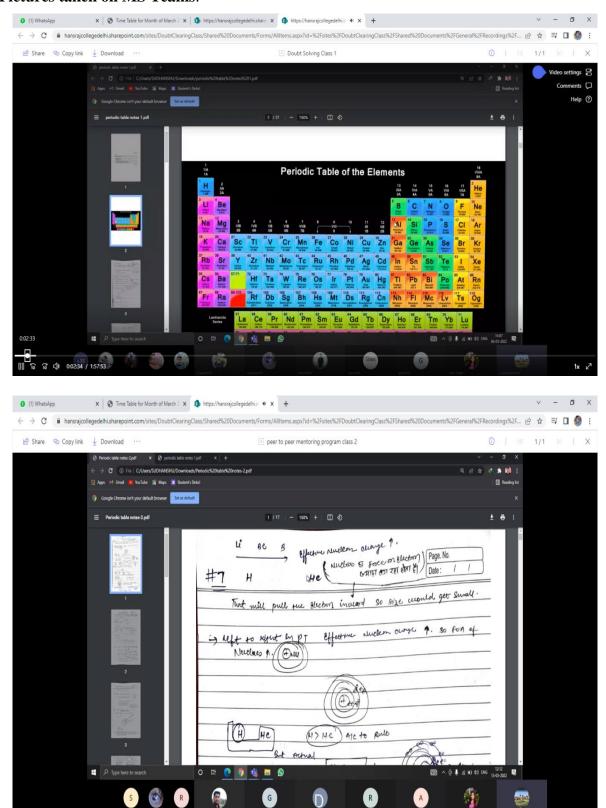






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Joined	3/13/2022, 12:07:51 PM		
Joined	3/13/2022, 12:14:49 PM		
Joined	3/13/2022, 12:05:48 PM		
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Joined	3/13/2022, 12:06:27 PM		
Joined	3/13/2022, 12:06:32 PM		
Joined	3/13/2022, 12:09:22 PM		
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Pictures taken on MS Teams:



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Mentor 2: Ms Mahak Chabbra

Course: B.Sc (H) Chemistry

Current Sem: VI

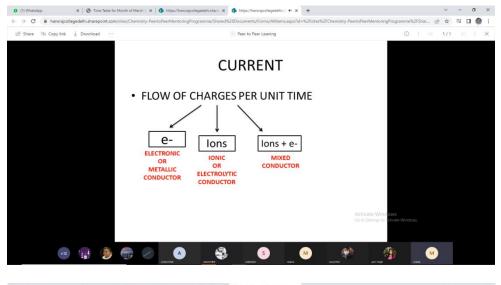
Email id: mahakchhabra2711@gmail.com

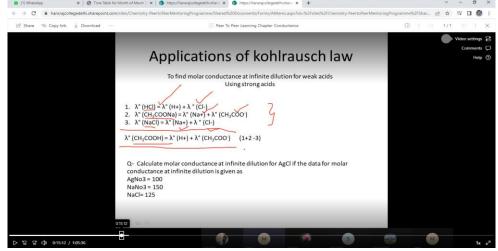
March 13th, 2022 and March 27th, 2022: The session's focused on conductometric titration, types of conductance, factors affecting conductance, Kohlrausch's law etc. The importance of relations instead of formula in conductance was also explained. Kohlrausch's



law and its applications was also discussed in detail. To study beyond topic, students were excited to know about transport number, ionic strength, activity coefficient and their relation. Conductance being a topic of physical chemistry cannot be taught without numerical and my efforts were fruitful to see the eagerness in students to solve them.

Pictures taken on MS Teams:





Mentor 3: Ms Manya

Course: B.Sc (H) Chemistry

Current Sem: VI

Email id: manyaagarwal790@gmail.com

April 10th, 2022 and April 17th, 2022: Topic, "Terpenoids" and Nitrogen containing functional groups were discussed. Terpenoids, is a small topic in organic chemistry. Terpenes is a group of compounds the majority of which occur in plant kingdom, except a few derived from other sources.



She discussed their occurrence, uses, classification, isoprene and special isoprene rule, general methods of structural elucidation. Also a terpene named citral was discussed in length; elucidation of its structure, synthesis and industrial application was included. N-containing functional groups was taken in next session. She discussed amines in detail covering their synthesis, chemical properties, name and general reactions. Nitro compounds, isocyanides and cyanides were also discussed at length in the class. Reactions of diazonium salts was also taken up.

Pictures taken on MSTeams:

