



# किरोड़ी मल कॉलेज

दिल्ली विश्वविद्यालय, दिल्ली - 110007

## Kirori Mal College

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### Report on “Student development programme” (SDP) on chemcollective VLABS”

“Student development programme” (SDP) on chemcollective VLABS” was organized by Department of Chemistry, Kirori Mal College, in collaboration with SPOKEN TUTORIALS, IIT BOMBAY under the aegis of DBT Star College Scheme from 10<sup>th</sup> -14<sup>th</sup> January 2022.

The Department of Chemistry has successfully organized a five day online “STUDENT DEVELOPMENT PROGRAMME” (SDP) on “CHEMCOLLECTIVE VLABS” from 10<sup>th</sup> January 2022 to 14<sup>th</sup> January 2022 via zoom platform. The programme witnessed participation of huge number of students, with more than 112 registrations. The five day event was scheduled with invited lectures from distinguished guests/speakers who are pioneer in this field. Also, we had organized a series of assignments and quiz sessions throughout the five day programme.

#### [Detailed Report](#)

In today’s world, owing to the prevailed ongoing pandemic crises due to Covid-19/corona infections, the restrictions imposed on the offline movement inside the educational institutes have opened new avenues for teaching and learning. Amongst many, virtual labs are considered as one of the most important applications of e-learning in educational and research institutions. Chemcollective virtual labs play important roles in understanding online simulation of chemistry lab. By use of Virtual Lab, students can link chemical computation with authentic laboratory chemistry. Virtual Lab gives tremendous opportunities to remotely placed students to conduct experiments without exposure to any health risk.

Major highlights of this event were:

#### **Day 1: 10<sup>th</sup> January 2022**

Mr. Ram Sunil Kumar Lalji (Convener, Seminar committee, Department of Chemistry, Kirori Mal College) welcome all the participant and enlightened the audience about the need for understanding virtual labs. This was followed by a very encouraging note by Prof. Anita Kamra Verma (Program Coordinator, DBT Star College Scheme) who motivated the students about the importance of such SDP programmes.

Dr. Geetanjali (Co-convener, Seminar committee, Department of Chemistry, Kirori Mal College) thereafter introduced our keynote speaker for the day Prof. A.K. Bakshi (Vice-Chancellor, PDM University, Bahadurgarh, Haryana and also the Chairman, National Resource Centre of Chemistry of MoE) to the audience. This was followed by a lecture of **Prof. A. K. Bakshi**, on the topic entitled as “**Digital Transformation in Chemistry Education in India: Challenges and Opportunities**”. The lecture given by Prof. Bakshi was very informative and introduced students to the world of



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digital transformation, its need and future perspectives. Dr. Geetanjali, thereafter undertook the question and answers session and also gave a vote of thanks to Prof. A.K. Bakshi.

The second lecture in the series for day-1 (10th January, 2022) was given by Ms. Chaitra Hitesh Gawade, Training Coordinator, IIT-Bombay on the topics entitled as under-

- (i) Introduction to Student Development Programme
- (ii) Download and Installation of Virtual Labs.

She was introduced by Dr. Kiran Arora to the audience. Ms. Chaitra Hitesh Gawade introduced students about the spoken tutorial, virtual labs with special attention on its applications in the field of Chemistry, its downloading and installation. After her lecture, the question and answers session with a vote of thanks to Ms. Gawade was done by Dr. Shashwat Malhotra.

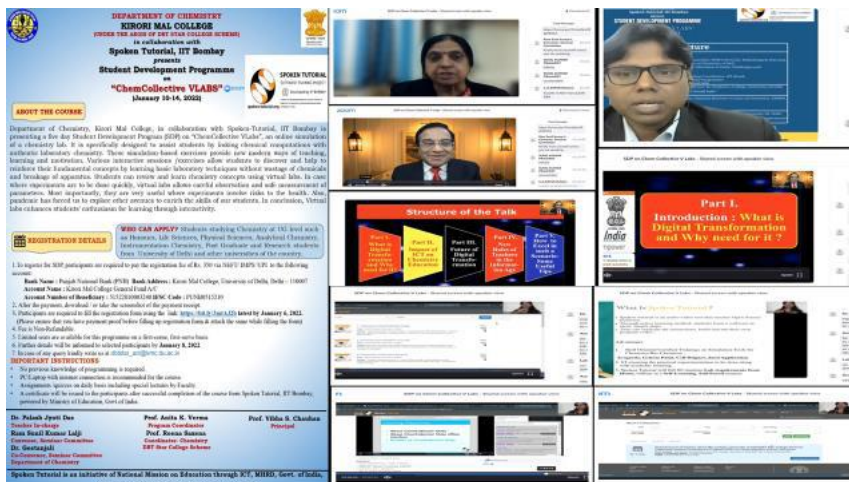
### Day 2: 11th January, 2022

It started with the welcome address and introduction of our keynote speaker **Dr. Rakhi Thareja** (Associate Professor, St. Stephen's College, University of Delhi) by Dr. Kiran Arora. Dr. Thareja inculcated the lecture entitled as "Understanding Chemistry through Virtual Labs" to the students. Dr. Thareja introduced our students about Virtual lab and its applications and also how to use virtual lab to carry out certain experiments of chemistry offline. In the last, Dr. Kiran Arora undertook the questions/queries session with the audience and Dr. Thareja. The session ended with a vote of thanks to the speaker.

After the lecture from our keynote speaker, an assignment session for the audience was organized whereby, the students were asked to answer the given assignments. The assignments were based on the modules that they had learnt on day-2. The students successfully submitted the assignments with their answers to the google classroom portal that was provided by the organizing committee.

### Day 3: 12th January, 2022

Dr. Shashwat Malhotra introduced keynote speaker **Professor Vimal Rarh** (Coordinator, National Resource Centre of Chemistry, MHRD, SGTB Khalsa College, University of Delhi). This was followed by





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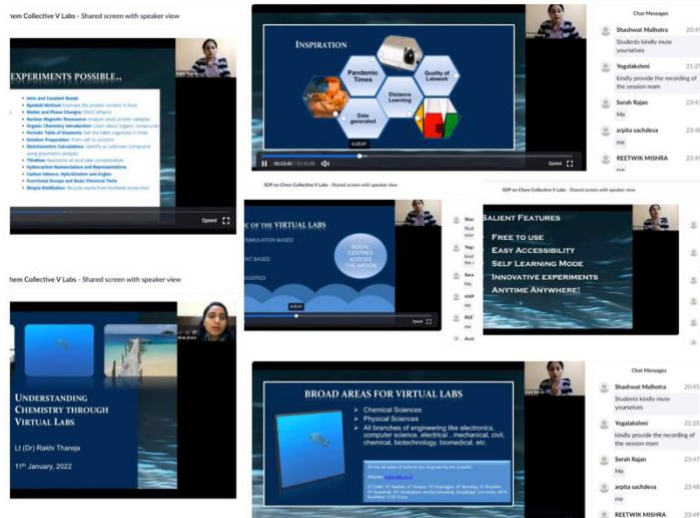
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her lecture entitled as “I\_C\_T\_ \_T\_o\_o\_l\_s\_ \_f\_o\_r\_ \_C\_h\_e\_m\_i\_s\_t\_r\_y\_ \_E\_x\_p\_e\_r\_i\_m\_e\_n\_t\_s\_”. In his lecture,

Professor Vimal Rarh introduced our students about ICT tools that are used extensively for practical experiments in chemistry / chemical sciences. In the last, Dr. Shashwat Malhotra took the queries from audience and Professor Rarh answered all their questions. A vote of thanks to speaker was given by Dr. Shashwat Malhotra followed by a quiz session for



the audience whereby, the students were asked to answer the given questions in the form of quiz. The quiz was based on the modules that they had learned on day-3. The students successfully submitted the answers for the quiz to the google classroom portal that was provided by the organizing committee.

### D\_a\_y\_ \_4\_:\_ \_1\_3\_ \_t\_h\_ \_J\_a\_n\_u\_a\_r\_y\_ \_2\_0\_2\_2\_ \_

An assignment session for the audience was organized hereby, the students were asked to answer the given questions. The assignment was based on the modules that they had learned on day-3. The students successfully submitted the answers for the assignment to the google classroom portal that was provided by the organizing committee.

### D\_a\_y\_ \_5\_ \_:\_ \_1\_4\_ \_t\_h\_ \_J\_a\_n\_u\_a\_r\_y\_ , \_2\_0\_2\_2\_ \_

The day started by Dr. Vandana Meena by the introduction of keynote speaker Dr. Rakhi Thareja (Associate Professor, St. Stephen's College, University of Delhi). She delivered her lecture entitled on “O\_n\_l\_i\_n\_e\_ \_V\_i\_r\_t\_u\_a\_l\_ \_L\_a\_b\_s\_ \_v\_s.\_ \_O\_f\_f\_l\_i\_n\_e\_ \_R\_e\_a\_l\_ \_L\_a\_b\_s\_ \_P\_r\_a\_c\_t\_i\_c\_a\_l\_ \_I\_m\_p\_l\_i\_c\_a\_t\_i\_o\_n\_s\_ \_i\_n\_ \_S\_c\_i\_e\_n\_c\_e\_ \_E\_x\_p\_e\_r\_i\_m\_e\_n\_t\_s\_”.

Dr. Thareja enhanced our student's knowledge about virtual labs and offline labs also she explained how to use virtual lab to carry out certain experiments of chemistry offline.

In the last, Professor Geetanjali undertook the questions/queries session with the audience and Dr. Thareja. The session ended with a vote of thanks to the speaker.



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After the vote of thanks to our keynote speaker, we had arranged a quiz session for the audience whereby, the students were asked to answer the given questions in the form of quiz. The quiz was based on the modules that they had learned on day 4-5. The students successfully submitted the answers for the quiz to the google classroom portal that was provided by the organizing committee.

