

**SBS GOVERNMENT POST GRADUATE  
COLLEGE RUDRAPUR**



**PRESENT  
ONE DAY WORKSHOP**



**ON  
VIRTUAL LAB  
FOR**

**CHEMISTRY  
(8 SEPT. 2023)**

**IN COLLABORATION WITH  
IIT DELHI**





# Virtual Labs

An Initiative of the Ministry of Education  
Under the National Mission on Education through ICT



Wireless Research Lab, Bharti School of Telecom

Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016. Tel: 011-26582050

[www.vlab.co.in](http://www.vlab.co.in)

Ref. No.: **VLABS/IITD/NCS/2591**

To,

The Principal,

Sardar Bhagat Singh Government Post Graduate College, Rudrapur

Udham Singh Nagar, Uttarakhand

### **Sub: Virtual Labs Nodal Center**

With reference to your Expression of Interest (EOI) submitted on 09<sup>th</sup> March, 2024 for Virtual Labs, it gives me immense pleasure to designate your Institute as a Nodal Center for Virtual Labs. As nominated by you, **Dr. Bharat Pandey** has been accepted to act as the Institute Nodal Coordinator (INC) from your Institute. This approval letter is valid up to 31<sup>st</sup> December, 2024. Subject to the following Terms and Conditions and any subsequent directives as issued by MoE from time to time:

1. Approved status of AICTE/STEB/UGC is mandatory for your Institute.
2. The Institute should have a valid AISHE and AICTE Code or UGC Approval Number.
3. The necessary infrastructure (space having personal computers with 1 Mbps broadband internet connectivity) is to be maintained at your own cost for Virtual Labs.
4. Students should not be charged any extra fee for providing a Virtual Labs facility for their usage.
5. Nodal centers will get operational and technical support.
6. Nodal centers should submit the Monthly Virtual Labs Usage Report.
7. Strict adherence to the standard lab procedures and cyber security laws must be followed.
8. Any violation of the above will automatically cancel your institute's Nodal Centre status without giving any notice.

**Kindly acknowledge the receipt of this letter and the acceptance of the Terms & Conditions mentioned above.** We thank you again for your interest in the Virtual Labs project and appreciate your endeavor in the service of the student community.

Wish you all the best!

Thank You.

Sincerely,

**Prof. Suresh Bhalla**  
Project Virtual Labs  
IIT Delhi  
[sbhalla@civil.iitd.ac.in](mailto:sbhalla@civil.iitd.ac.in)



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To

Dr. Bharat Pandey

Department of Chemistry

S.B.S. Govt. P.G. College

Rudrapur, Uttarakhand

Date: 12.03.24

Dear Dr. Bharat Pandey,

I hope this letter finds you in good health and high spirits. I am writing to express my sincere appreciation for your invaluable collaboration with IIT Delhi Virtual Lab.

During the pandemic period, when physical access to laboratories was severely limited, your efforts in developing the first virtual lab, Chemical Science Uttarakhand, have been commendable. This virtual lab has proven to be a game-changer for UG/PG/Research scholars, especially those in rural areas. It has provided them with a unique opportunity to continue their scientific studies and research remotely.

The impact of your virtual lab has been far-reaching. It has bridged the gap between theoretical knowledge and practical application, enabling students to gain hands-on experience in the field of chemistry. This has not only enhanced their understanding of the subject but also equipped them with the necessary skills for their academic and professional growth.

Your dedication and commitment to advancing scientific education in remote areas have not gone unnoticed. The IIT Delhi Virtual Lab team greatly appreciates your collaboration, as it aligns with our mission to democratize access to quality education and promote innovation in the field of science.

Once again, I extend my heartfelt gratitude to you for your contribution to the success of IIT Delhi Virtual Lab. Your virtual lab has been a game-changer, providing a platform for students to explore and learn, despite the challenges posed by the pandemic.

We look forward to further collaboration and the opportunity to create more innovative virtual learning experiences together.

Thank you for your continued support.

Yours sincerely,

**Tanmay Tarun Das**

Project Manager

IIT Delhi Virtual Lab

  
12/3/2024

Outreach Incharge  
Virtual Labs Project  
Indian Institute of Technology Delhi

## WORKSHOP REPORT - 2024

**NCID | Nodal Centre: Sardar Bhagat Singh P.G. College, Rudrapur**

**Workshop Date: 14 / March / 2024**

Time	Discipline	Labs / Experiments Demonstrated	No. of Students	No. of Faculty Members
02:30 P.M.	Biotech.	<ul style="list-style-type: none"> <li>• Biochemistry Virtual Lab</li> <li>• Biomedical Instrumentation Lab</li> </ul>	98	21
	Applied Sciences	<ul style="list-style-type: none"> <li>• Inorganic Chemistry Virtual Lab</li> <li>• Mechanics Virtual Lab</li> <li>• Molecular Absorption Spectroscopy Lab</li> <li>• Physical Chemistry(Amrita) Lab</li> <li>• Physical Chemistry(IIITH) Lab</li> <li>• Colloid &amp; Surface Chemistry Lab</li> <li>• Laser Optics Virtual Lab</li> <li>• Basics of Physics</li> <li>• Electricity and Magnetism Virtual Lab</li> <li>• Heat and Thermodynamics Lab</li> </ul>		
04:30 P.M.				
<b>TOTAL</b>			<b>98</b>	<b>21</b>

**Total Usage=(98X12) = 1176**

*Paude*

**Nodal Coordinator**

*[Signature]*

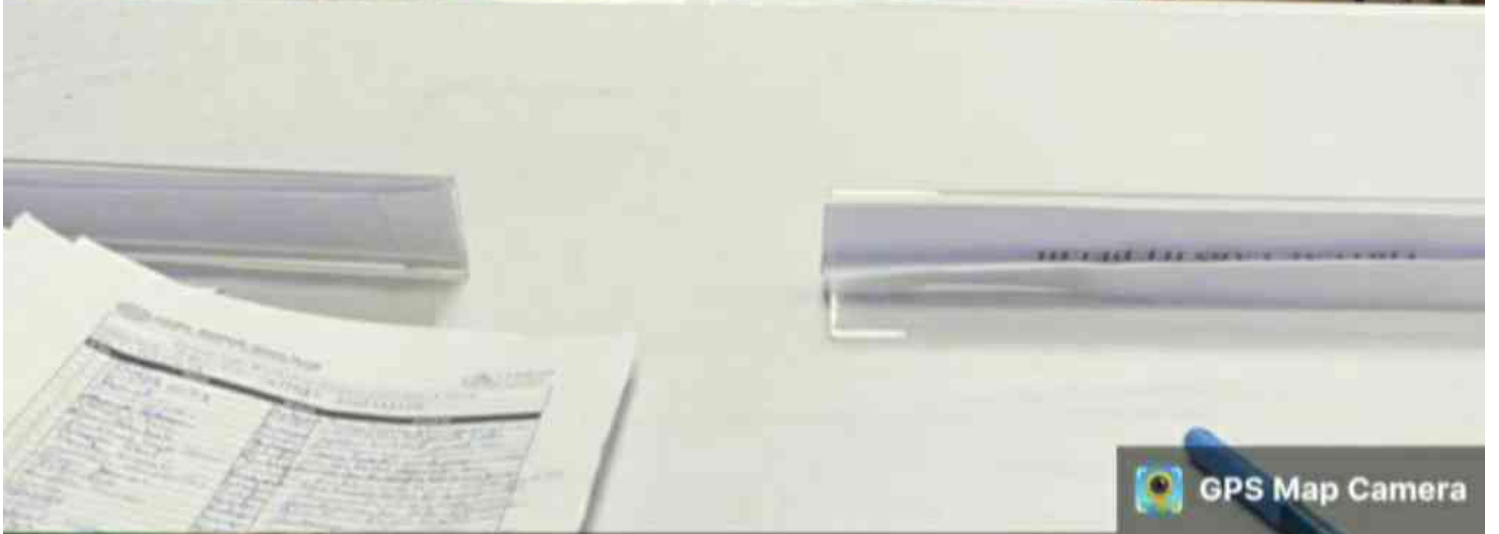
**Head of Institute / Principal**


Principal  
Signature & Stamp  
S.B.S. Govt. P.G. College  
Rudrapur (U.S.Nagar)

\* NOTE: The following documents are to be submitted along with the workshop report

1. Attendance Sheet
2. Two photographs, one of the sessions and one of the workshop notifications (poster/banner/flyer etc.)
3. Send the duly signed SCANNED COPY of the report to the Virtual Labs team.
4. Keep the HARD COPY with you in a Virtual Labs file for the record.





 GPS Map Camera

**Rudrapur, UT, India**

Rudrapur, Rudrapur, 263153, UT, India

Lat 28.960481, Long 79.383574

03/14/2024 04:24 PM GMT+05:30

Notes Captured by GPS Map Camera



**Reply**



