

Exploring Virtual Labs for Sciences OLabs Online Labs for School Experiments

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About Amrita University

Recognition Teaching & Research Excellence







Private University No. 1 in India (2020)

International Outlook (2020)







тор 300 Clinical, Pre-clinical & Health (2020)

Top400 Engineering & Technology (2020)









Mission: Education for Life & Education for Living **Compassion-driven Research**







215+ Experiments

Class IX, X, XI, XII



Physics (54)



Chemistry (46)



Biology (36)

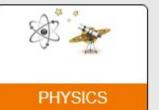
Class VI, VII, VIII

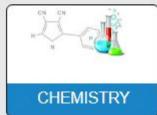


Science (13)











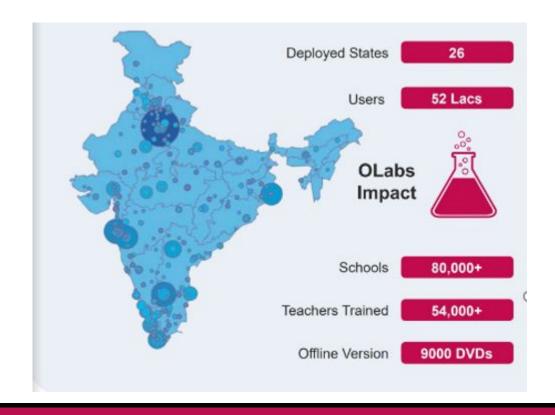






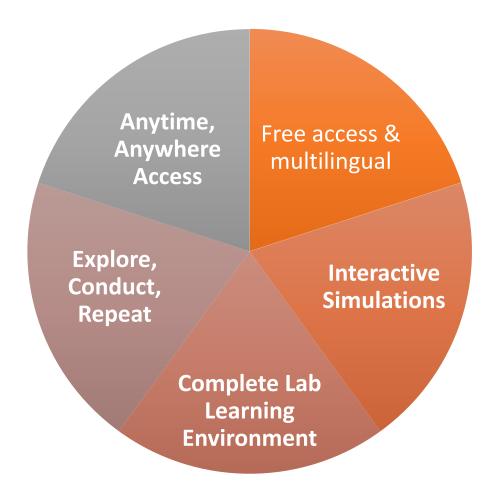
Online Labs (OLabs) Vision

- World's largest platform for lab experiments for schools
- Animations, Interactive Simulations and Lab Videos
- Allows for exploratory learning





Online Labs for School Experiments





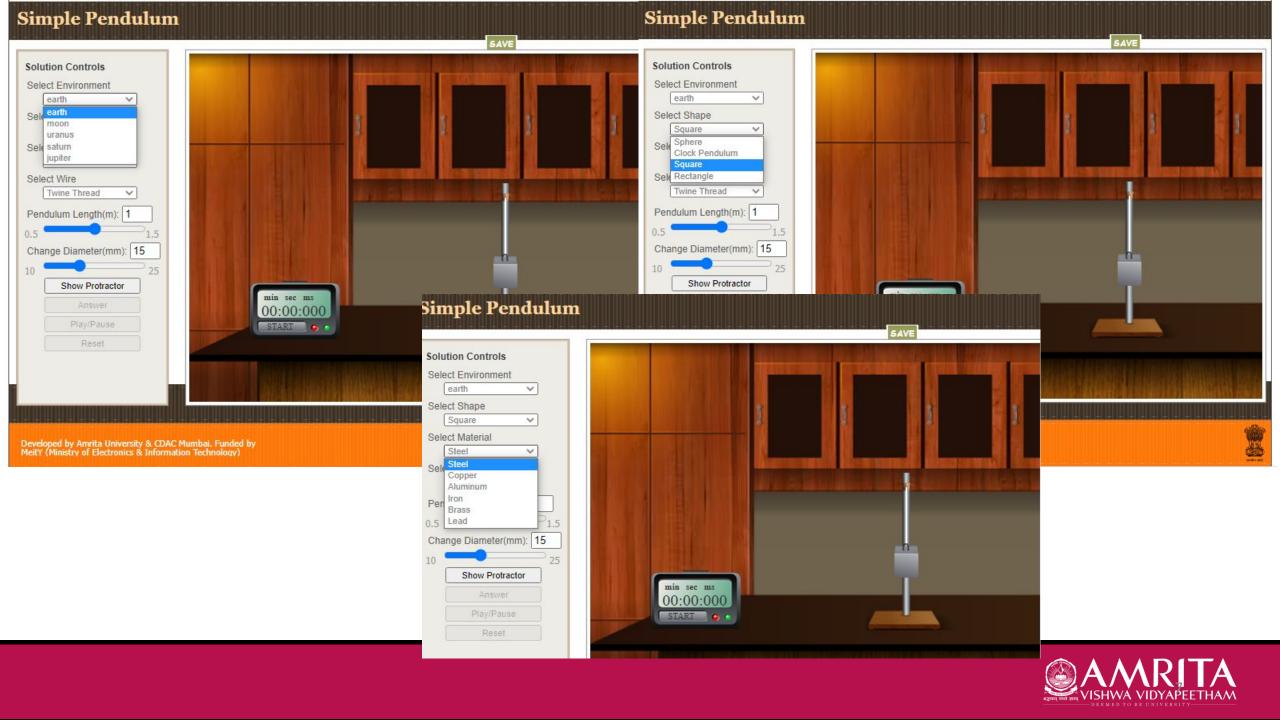
E-Content of a Lab – A complete lab experience



Each experiment has sections covering the following:

- **Theory** objective, concept related to the experiment, expected learning outcomes.
- **Procedure** explains how to perform the real lab procedure and the simulator procedure.
- Animation/Video teachers may use it to demonstrate the experiment as a pre-lab or post-lab session.
- Simulation learner may use simulation to practise experiments. The simulations are accurate.
- Viva Voce Questions on related lab for self-assessment
- **Resources** To refer to a topic in depth.
- Feedback: Very important for our continuous and constant improvement.





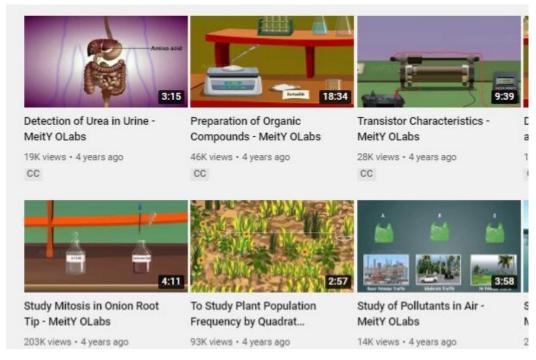
www.olabs.edu.in







OLABS (AmritaCREATE) – YouTube Channel



https://diksha.gov.in/





Using OLabs - Scenarios

Teachers

- Supplementary Learning
- In the classroom: Explain labs before performing the practical/lab session
- After performing the practical/lab session- can frame review questions with the lab as the backdrop.

Students

- Pre-lab familiarise with lab.
- After Lab- Revision, try out various variants, reinforce the concepts, answer questions they may have, etc.

Creative teachers and students may come up with many more innovative uses!



Digital India Award of Online Labs



OLabs was launched during Good Governance week celebrations on Dec 28, 2015 by Honourable minister of IT Shri Ravi Shankar Prasad



OLabs is being launched as a part of new educational initiatives. Available in DIKSHA – One Nation One Platform



