



Activities for the session 2016-17

STUDENTS PROJECTS

Dated: December, 2016

Event Name: Projects by Students

Description: Students prepared and presented projects on

- Millikan's Oil Drop experiment using virtual lab
- Electrical Potential
- Multi-layer Detectors
- Types of Gates
- Entropy and Laws of Thermodynamics





SOME OUT-OF-THE-BOX EXPERIMENTS

The International Physics Olympiad (IPhO) is an annual competition in physics for students and involves theoretical and experimental competitions. The 46th IPhO was held at Homi Bhabha Centre for Science Education, HBCSE, Mumbai from 5-12 July, 2015. Dr. Sapna Sharma was the member of Academic Assessment Team of this competition. HBCSE gifted one such experimental kit to the Physics department of St. Bede's College Shimla in 2016. The kit includes two experiments:

- Diffraction due to helical structure.
- Diffraction due to surface tension waves on water.

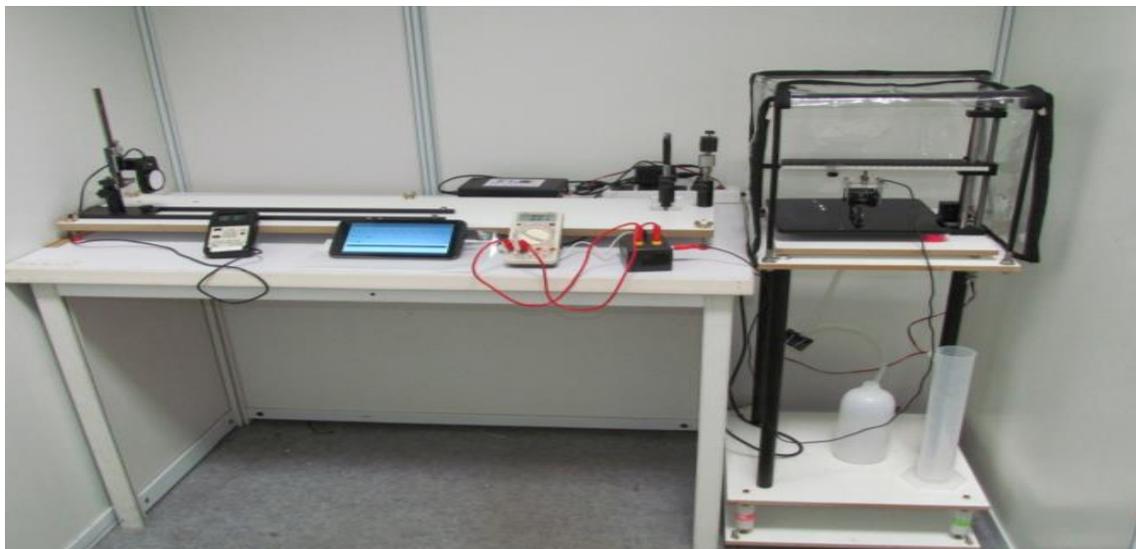
Students of B.Sc. Physics were introduced to these experiments

EXPERIMENT-1





EXPERIMENT-II



INTRODUCTION TO VIRTUAL LAB & SPOKEN TUTORIALS

- Skill development through hands-on learning is an essential component of education. For this purpose, we introduced students to Computer Organization and also briefed them about the MHRD project of **Virtual Lab** and how to perform experiments using this platform.
- Students of B.Sc. III were introduced to “**How to use Spoken Tutorials**” of an NMEICT, MHRD, project of Govt. Of India. This is an audio-video method to learn Software and is for Skills and Academic performance improvement. Students used the Spoken Tutorials to learn LaTeX.