Gujarat University - IIT Bombay Virtual Lab Development BootCamp

Gujarat University in association with, IIT Bombay organized a BootCamp (Training & Certification Programme) of its own kind for virtual labs development, at Gujarat University, Ahmedabad from 9-13 Jan 2019. The aim of the BootCamp was to develop a collaborative community of Vlab developers across a wide spectrum of disciplines and locations, such that Virtual Labs has content to reflect local curricula in all parts of the country, and remains open to the possibility of change.

The Vice Chancellor of Gujarat University Dr. Himanshu Pandya inaugurated the BootCamp . He encouraged the participants to promote community development and work towards addressing social issues/problems.

The BootCamp for Vlabs Development Certification is a short, intensive, and rigorous course for accelerated training. Its aim is to consolidate the learning process into a short, productive capsule for motivated learners and career professionals.

> Vlabs is a project initiated by the Ministry of Human Resource Development, Government of India, under the National Mission on Education through Information and Communication Technology. The project aims to provide remote-access to Laboratories in various disciplines of science and engineering for students at all levels from under-graduate to research. **Gujarat University is Regional Centre for Virtual Labs IIT Bombay.**
>
> - To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
> - To enthuse students to conduct experiments by the arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
> - To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.
> - To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

Gujarat University – IIT Bombay BootCamp attracted participation from 8 different states of country. Teams from different institutes including IIT Delhi, IIT Roorkee, IIT Guwahati, National Institute of Technology Suratkal, Dayalbagh Educational Institute, D. Y. Patil University, Nirma University, L. D College of Engineering participated in the BootCamp. To help participants learn

key concepts for the development of Virtual Labs content, participants were given hands-on training sessions for the same.

Total 29 teams proposed to develop 29 Labs. BootCamp facilitated complete development of at least one experiment in each lab during the BootCamp. Their creations were hosted live during the Boot Camp on the IIT Bombay Vlabs Community Portal Vlabs-Dev. Each successful participant developing an experiment was given a certificate indicating their achievement.

Prof. Naronha, (Principal Investigator, Virtual Labs IIT Bombay) also visited Gujarat University for the BootCamp and keenly observed the work done by the participants.

BootCamp witnessed unparalleled energy, where participants were engrossed in learning and developing labs with full vigour. Participants reported at 7.30 am every day and worked till 9.00 pm – 10.00 pm. In last two days some teams even worked for 16-18 hrs to ensure that they complete one good quality experiment in these 5 days. The 29 experiments created by these 29 teams were very innovative; some of them surpassed the expectation. It was an amazing environment where all teams were engrossed in doing something that is of National importance, sometimes even skipping tea and delaying lunch and dinner.

Some BootCamp Pictures