

## Contents :

### A) Pedagogy Aspects (4 Hrs)

- ▲ What is a Virtual Lab
- ▲ Designing Pedagogy for creating an effective lab
- ▲ Story boarding for Simulations
- ▲ Activity

### C) GitLab Training (4 Hrs)

- ▲ Git Install,Config.
- ▲ Git clone , add , commit , push
- ▲ Git Branching & Forking
- ▲ Activity

### C) HTML5, CSS3 and javaScript (16 Hrs)

HTML 5 : Basic HTML Controls

CSS3: Introduction to CSS3

#### Java Scripting:

- ▲ Data Type , User Inputs and Outputs
- ▲ Math Functions , Decision Making
- ▲ Graphs, Sketching, Mouse Events
- ▲ Object Orinted programming.
- ▲ Drag and Drop, Animation and Simulation.  
entire module to be in-synced with a live activity

### D. Google Web Designer. (3 Hrs)

- ▲ Two assignments

### E. Developing the Labs (28 Hrs)

### F. Demo and Deploying the developed Labs (3 Hrs).



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Indian Institute of  
Technology Bombay



## First National Boot Camp

(5<sup>th</sup> to 9<sup>th</sup> Feb, 2018)

For

**5 days STTP**

(for Students and Faculties)

On

**Virtual Lab development**



Organized by

**Marwadi University**

In Association with

**IIT Bombay**

Co-Sponsored By

**GUJCSOT**

5<sup>th</sup> to 9<sup>th</sup> Feb, 2018

Registration Link :

[bit.ly/VLABS-BootCamp](http://bit.ly/VLABS-BootCamp)

Marwadi University , Rajkot-Morbi  
Highway Road,Gauridad, Rajkot,  
Gujarat 360003.

**About Boot Camp :** The NMEICT Virtual Labs project has at this time created ~117 labs covering concepts in various engineering and science curricula.

These can be accessed at <http://vlabs.ac.in>. However there remains a need for additional content to be created, primarily to fill gaps in syllabi, but also towards developing improved versions of content already hosted. Consequently, we encourage Lab Developers to come forward to develop such content. To facilitate creation of such content, we are conducting this BootCamp. We expect that this will enable collaborative development of content, with Developers both seeking and sharing best technology and pedagogy practices.

**Boot Camp in a way that there is no prior programming knowledge required.**

### Registration Fees :

**For Outside MEFGI Participants :** (Includes – Registration fees, Accommodation for 5 Days, Stationary Kit, Breakfast, Lunch, Snacks & Dinner)

For Faculty Participants: INR 3000

For Students : INR 2000

### For In-house Candidates :

For Faculty Participants: INR 400

For Students : INR 200

### Resource Persons :

**Prof. Tanuja Khatavkar** (Regional Coordinator, Vlabs, PVGCOET Pune)

**Prof. Anita Diwakar** (PhD Research Scholar .IIT Bombay )

**Prof. Manish Nagoshe** (Regional Technical Coordinator, Vlabs, PVGCOET Pune)

**Mr. Pushdeep Mishra** (Project Manager, Virtual Labs IIT Bombay)

**Mr. Jai Mathur** (Technical Research Engineer, Virtual Labs, IIT Bombay)

### Invited guests speakers :

**Prof. Santosh Noronha** (Principal Investigator, Virtual Labs IIT Bombay)

**Prof. Nitin Bhate** (Regional Coordinator Vlabs ( Vadodara) MSU Baroda )

**Prof. Abhilasha Mishra** (Regional Coordinator Vlabs (Aurangabad) , MIT Aurangabad)

**Sanjeet Kumar** (Project Manager, Virtual Labs, IIT Delhi)

### Registration Deadline :

**31<sup>st</sup> Jan 2018**

### Post Deadline :

**Additional fees of INR 500  
for all categories**

Direct Registration Link :

<http://bit.ly/BootCamp-National-Registrations>

### Advisory Members :

**Dr. Yogeshwar Prasad Kosta** (Director, MEFGI Rajkot)

**Dr. Rajendrasinh Jadeja** (Dean FoE, Regional Coordinator, Virtual Lab, MEFGI Rajkot)

**Mr. Naresh Jadeja** (Registrar, MEFGI Rajkot)

**Dr. Ramdevsinh Jhala** (Dean, FoT, MEGGI, Rajkot)

**Dr. Sarang Pande** (Dean, FoPG MEFGI, Rajkot)

**Prof. Jay Teraiya** (HoD CE Dept. FoE MEFGI Rajkot)

**Dr. Amit Lathigara** (HoD, CE Dept., FoT, MEFGI, Rajkot)

**Dr. Sunil Soni** (HoD, IT Dept., MEFGI Rajkot)

### Organizing Core Committee :

**Dr. Rajendrasinh Jadeja** (Dean FoE, Regional Coordinator, Virtual Lab, MEFGI Rajkot)

**Dr. Ashish Kumar Srivastava** (Nodal Coordinator, MEFGI Rajkot, 9687405324)

**Dr. Nitul Dutta** (Nodal Coordinator, MEFGI Rajkot)

### Committee Members :

**Dr. Atalbihari Harichandan** (8980809679)

**Dr. Archana Sharma** (9925203019)

**Prof. Tapan Trivedi** (9723093483, 9687680269)

**Prof. Tejpal Goda** (9726175225)

**Prof. Milan Patel** (8141306009)

**Prof. Hardik Dhamecha** (9879718125)

**Prof. Jigar Abhani** (8866768525)

**Prof. Snehal Sathwara** (7202059686)

**Mr. Pramod Raikwar** (9099974045)

**Mr. Parin Ramavat** (9099939554)

### Student volunteers :

**Kunal Dholiya** (9904184692)

**Yashwant Sabalpara** (8758826555)

**Ishan Bhatt** (9512518917)

**Rudraksh Shukla** (8238209374)