



## **CLIENT**

UNIVERSITIES

TECHNICAL COLLEGES

EDUCATIONAL INSTITUTE

EXPERIMENTAL LABS.

## **Technical Proposal for Training of Client Students, Engineers Virtual Laboratory**

**Example: Power Systems  
Labs**

## Technical Approach

To ensure effective training, it is crucial to address the specific concerns of the attendees. Therefore, real-time training will be conducted on the specific network that is the focus of the training. This approach allows students to familiarize themselves with the concept of power systems by assuming the role of virtual operators.

The training will utilize the "real-time power system analysis and control" method, which is considered the best approach to address various issues encountered in the day-to-day operation of power systems. This approach empowers users to effectively handle unexpected events, ensuring network security, protection, and optimization.

For this purpose, we will utilize the POUYA software, a proven real-time analysis tool widely used in universities worldwide. However, we recognize the interest of a university to have its own software too. Therefore, the training will be continued by other software like PSSE, Dig silent as required by that particular university interest.

- The overall technical approach for the purpose of this presentation will be carried out in the five parts:
  - (a) The instructors, acting as a watchful guide, will run the lab sessions for the students. Both you and Professor Kouhsari, (with over 30 years of experience in this field), understand the challenges of knowledge transfer in a lab setting.
  - (b) Your teaching assistant will organize the course and oversee the process. Local instructor that introduce by you organize the lab classes to be local or remote. He watches the progress of the training lab. In the coming years she can continue the same process by herself. We suggest being there but since we can do all for you remotely she can be omitted,
  - (c) We as the virtual trainer,
  - (d) Students that are sitting in local labs,
  - (e) Students that are training in on line labs.

The following figure provides an overview of the technical approach based on the above instruction. The following sections provide an overall description of the aforementioned procedure.

Technical Proposal for Training of Client  
Students or Engineers Virtual Laboratory

University  
professor  
(i.e. You)



Local  
Instructor  
(i.e. Your  
assistant)



Virtual Lecturer  
(i.e. Prof.  
Kouhsari or his  
well trained  
assistant)



Local  
students



on line  
students

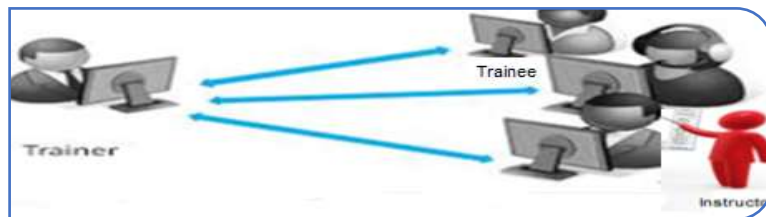


Figure 1: Technical Approach Overview

Please contact us for description of each of the above item.

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