MOOLs : Massive Open Online Laboratories

**Goals**

Massive Open Online Laboratories is a collaborative project with the aim of sharing the expertise and infrastructures of the two Swiss partners EPFL and HES-SO with several institutions from the global south.

The five pillars of the project are:

1. Establishing a strong north-south institutional cooperation for an enhanced joint education and research activities as well as technology transfer, within UN sustainable development goals,
2. Developing and implementing innovative and collaborative activities through an open, sustainable and widespread remote laboratories platform within digital technologies, e-learning environments and MOOC infrastructures,
3. Enhancing pedagogical and student-centered learning and teaching methodologies through remote experimental activities,
4. Reducing costs of laboratories in higher education by sharing the available infrastructures, resources and equipment of Swiss institutions for a large-scale use in engineering education,
5. Promoting the exploitation of the European infrastructures for inquiry learning with online labs developed in FP7 and H2020 under the EPFL technical coordination and including a repository (golabz.eu) and an authoring tool for the creation of open educational resources integrating online labs (graasp.eu).

**The Swiss parties of the project**

- EPFL : Ecole Polytechnique Fédérale de Lausanne
- HES-SO : University of Applied Sciences and Arts Western Switzerland

**The south partners**

- Amirkabir University of Technology, Iran - Tehran
- University of Kurdistan, Iran - Sanandaj
- Université de Abdou Moumouni, Niger - Niamey
- Lebanese American University, Lebanon - Byblos
- Université de Djibouti, Djibouti

**Sustainable Development Goals**