How to Teach (Well) to 10’000 Students?

Comment (Bien) Enseigner à 10’000 Etudiants?
Total #Students 1999-2013
(CMS/Bachelor/Master/Doctorants/Exchange)

Source: http://vppl.epfl.ch/chifffres
Total #Students 1999-2013
(CMS/Bachelor/Master/Doctorants/Exchange)

Source: http://vppl.epfl.ch/chiffres
Growth #Prof+MER vs. #Students

Source: http://vppl.epfl.ch/chiffres
Growth #Students vs. #EPFL Budget

Source: http://vppl.epfl.ch/chiffres
Forecast Growth #Prof+MER vs. #Students

The Sky is the Limit.
Forecast Growth #Students vs. EPFL Budget
Forecast Growth #Student vs. EPFL Budget

The Sky is not the Limit!

# maximal of students?
Numerus Clausus?
More stringent rules to grant entrance to EPFL?
Reduce attractiveness / scare students...!😊
Higher failure rate 1st year BSc?

# Students (Bsc+Msc)  
Budget EPFL Confederation (mio CHF)
Occupancy Rate of Auditoriums (8h00-17h00) Winter 2013

Auditoires à l’EPFL

- plus de 200 places (8)
- 100 à 199 places (14)
- 50 à 99 places (71)
- 20 à 49 places (64)

# Students (BSc)

- BA1: AR (314), GC (203), SIE (85), SV (284)
- BA3: BA3 (158), SC (136), SV (88)
- BA5: BA5 (172), BA5 (128), SV (95)

Source: Occupation des salles d'enseignement, DAF 19.2.2014
Occupancy Rate of Auditoriums (8h00-17h00) Winter 2013

ROOMS / SPACE
Broadcast live ex-cathedra class in different rooms?
Teaching 18h00-22h00 and on Week-end?
Build more auditoriums?

Source: Occupation des salles d'enseignement, DAF 19.2.2014
Average Teaching Load per Faculty

Source: Statistique des charges d’enseignement 2012-2013 VPAA-DAF-OGIF
Average Teaching Load per Faculty

Moyenne des charges CE normée

Concentration of teaching (BSc) in SB, good?

Uniform teaching load across schools?

(Undergraduate) teaching needs part of hiring decisions?

Undergraduate teaching by full time teachers?

Source: Statistique des charges d’enseignement 2012-2013 VPAA-DAF-OGIF
Current practice = good teaching ...?

- Lecture Notes, Moodle
- Cours Ex-Cathedra
- Moocs as support or in replacement of ex-cathedra?
- QCM?
- Bonus Exam?
- Oral exams with 200 MSc students?
- Tutoring System? For whom?
- How many tutors?
- Exercises Sessions
- Practical Sessions
- Lab space?
- Equipment for 200 MSc students?
What next?

- Video recording available at http://cce.epfl.ch
- Summary of the discussions will be sent to panel participants and to all teachers, and posted on CCE website.
- Give us your feedback at personnel.cce@epfl.ch