Remarque
Pas donné en 2019-20. cours biennal donné les années paires

Summary
In this course you will learn the methods and techniques that are used to perform a good performance evaluation during a research or development project.

Content
Methodology
Statistics and Modeling.
Practicals.
Elements of a Theory of Performance.

Mini-Project proposed by student.

Learning Prerequisites
Required courses
A first course on probability
A first course on programming

Learning Outcomes
By the end of the course, the student must be able to:
• Estimate confidence intervals
• Design a simulation method
• Critique performance metrics and factors
• Organize a performance evaluation study
• Quantify performance
• Conduct a performance analysis
• Synthesize performance results
• Systematize factors and metrics
• Present results of a performance analysis

Transversal skills
• Use a work methodology appropriate to the task.
• Demonstrate the capacity for critical thinking

Teaching methods
Lectures + pencil and paper exercises + labs + miniproject

Expected student activities
Lectures
Paper and pencil exercises
Labs
Miniproject (last 4 weeks)
Tests every other week

Assessment methods
T = Average of best (n-1) tests done every other week except during miniproject period
E = grade at final exam (during exam session)
L = average of labs
M = miniproject grade

Final grade = 1/4 (T+E+L+M), rounded to the nearest half integer.
All grades except the final grade are not rounded.

Resources
Virtual desktop infrastructure (VDI)
No

Bibliography
• also freely available online at perfeval.epfl.ch

Ressources en bibliothèque
• Performance evaluation of computer and communication systems / Le Boudec

Websites
• http://perfeval.epfl.ch

Moodle Link
• http://moodle.epfl.ch/course/view.php?id=14395