

- Faculté des sciences économiques
- www.unine.ch/seco

Software Architectures (UNIL) (5EX2020)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en systèmes d'information	Cours: 4 ph	Voir ci-dessous	6

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante

B.Garbinato (UNIL) - ce cours est dispensé à HEC Lausanne

Contenu

Software is "eating the world", in the sense that it is now ubiquitous in most of our daily activities, e.g., in finding and consuming information or in producing it, in shopping, in entertainment, in mobility, etc. Furthermore, software is often the root of disruptive innovations in business models, making products and services fungible that were not before they were digitized.

By analogy with classical architecture, as the art, science and technology of constructing buildings, software architecture deals with the fundamental structures of software and the disciplines involved in creating these structures. Now, the way software is structured is a key factor in its success and its ability to evolve with technological innovations. In this context, this course covers the following topics, among others:

software modularity and separation of concerns
communication paradigms and distributed architectures
multi-tier architectures and micro-services
virtualization and cloud architectures
software for mobile devices and connected objects

The course is given in English.

Forme de l'évaluation

Evaluation
1ère tentative

Examen:
Ecrit 2h00 heures

Documentation:
Non autorisée

Calculatrice:
Non autorisée

Evaluation:

The assessment is based on a final written exam at the regular exam session.

Rattrapage

Examen:
Oral 0h20 minutes

Documentation:
Non autorisée

Calculatrice:
Non autorisée

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A new final exam takes place during the retake session, either written or oral, depending on the number of candidates.