

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

Survey Sampling 1 (3ST2016)

| Filières concernées | Nombre d'heures | Validation | Crédits ECTS |
|------------------------------|--------------------|-----------------|--------------|
| Master en statistique | Cours: 2 ph | Voir ci-dessous | 3 |

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

Période d'enseignement:

- Semestre Automne

Equipe enseignante

Prof. Yves Tillé
Institut de statistique,
Av. de Bellevaux 51
CH - 2000 Neuchâtel

Contenu

After a presentation of the general definition, the particular designs are introduced : simple random sampling, stratification, cluster sampling. A great part is dedicated to the problem of estimation of parameters of interest in the context of sampling.

Forme de l'évaluation

2 hours written exam at any exams session.

Documentation

- Y. Tillé (2001). Théorie des sondages : Echantillonnage et estimation en population finie, Dunod, Paris.
- Y. Tillé (2006), Sampling Algorithms, New York, Springer-Verlag
- P. Ardilly et Y. Tillé (2005). Sampling Methods : Exercises and Solutions, 382 pages, Springer-Verlag, New York.

Pré-requis

Basics of calculus.

Forme de l'enseignement

- 3 ECTS credits
- Autumn Semester
- Compulsory course for the master in statistics
- Exercises are put into practice based on the theory taught during the course. A part of the exercices are dedicated to simulations of sampling selection and estimation by means of the 'sampling' package of the R language.

| | |
|------|--|
| URLs | 1) https://moodle.unine.ch/course/view.php?id=2129 |
|------|--|