Master of Public Health - Semester 1
Minor A ISB Minor 214 Data Mining - MPH – 2014-2015
Coordinator: Prof. Séverine DEGUEN, EHESP

Week 47 - Monday 20 November – Friday 24 November 2017

Room : 409, EHESP 20 Avenue George Sand 93210 LA PLAINE ST DENIS

Monday 20 November	**Tuesday 21 November**	**Wednesday 22 November**	**Thursday 23 November**	**Friday 24 November**
10:00 – 12:00 *(Lecture)* Introduction to the module Overall introduction to multidimensional methods for quantitative, qualitative and both qualitative and quantitative variables **Instructor: Séverine Deguen**	9:00– 10:30 (*Conf'*) *'Perception of the air quality in Lyon metropolitaen area* **Instructor : S Deguen** 10:45– 12:00 (*Conf'*) *'Synthetic homogeneous 'A statistical procedure to create a neighborhood socioeconomic index for health inequalities analysis.'* **Instructor: Benoit Lalloué**	9:00– 10:30 (*Lecture*) Introduction to Multiple Factor Analysis **-** Factorial analysis of multiple correspondences **Instructor: S Deguen** 10:45– 12:00 (*Conf'*) *'Data Analysis Technique: a Tool for Cumulative Exposure Assessment'* **Instructor: B Lalloué**	9:00– 10:30 (*Lecture*) Cluster analysis: general principle, dendogram representation and interpretation, main characteristics of classes **Instructor: S Deguen** 10:45– 12:00 (*Conf'*) *Neighborhoods' using zone design algorithms to explore relationships between asthma and deprivation in Strasbourg, France'* **Instructor : W Kihal**	9:00– 12:00 Computer lab R **Instructors : S Deguen & W Kihal**
12:00 Lunch	**12:00 Lunch**	**12:00 Lunch**	**12:00 Lunch**	**12:00 Lunch**
1:00 – 4:30- (*Lecture*) Principal Component Analysis PCA with R software – view the tutorial https://www.youtube.com/watch?v=CTSbxU6KLbM Presentation of the project **Instructors : S Deguen & Wahida Kihal**	1:00 – 4:30: Computer lab – R **Instructors : S Deguen & W Kihal**	1:00 – 4:30: Computer lab – R **Instructors : S Deguen & W Kihal**	1:00 – 4:30: Clustering with R software – view the tutorial https://www.youtube.com/watch?v=4XrgWmN9erg Computer lab – R **Instructors : S Deguen & W Kihal**	1:00 – 4:00 Computer lab – R **Instructors : S Deguen & W Kihal**

Please note that some small changes could occur