UCLouvain

2020

Icomu2403

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	22.5 h	Q1

Teacher(s)	Kieffer Suzanne ;Lits Grégoire ;					
Language :	French					
Place of the course	Louvain-la-Neuve					
Aims	The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".					
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Formative assessment (there is therefore no certification exam at the end of the term) according to two modes: individual assignments (60% of the final grade), exercises and tests (40% of the final grade). The validation of the credits associated with this course requires the successful completion in each mode.					
	Second session: personalized individual assignment to be delivered on the first day of the session.					
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. The instructional approach is blended teaching, which alternates remote online teaching via Microsoft Teams and face-to-face classroom teaching. The distribution between distance and face-to-face is adapted according to the evolution of the health situation. For example, it is possible to switch from one in two face-to-face sessions ("yellow scenario") to one in three face-to-face sessions ("orange scenario"), and vice versa. In addition, some sessions are replaced by independent work activities carried out individually (e.g. following tutorials about statistics and visualization software, creating an interactive visualization).					
	The teaching methods are flipped classroom and project-based teaching:					
	 Flipped classroom: students study the material at home and then meet their teacher and peers in a classroom to ask questions and get additional help or to work with their peers; Project-based teaching: students develop a project by combining online learning and face-to-face meetings. 					
Content	 Data acquisition Encoding, parsing (cleaning) and filtering of data Data analysis Data representation Interaction with data Evaluation and improvement of visualization 					
Inline resources	Moodle (asynchronous): course slides, bibliographic resources, calendar, models and rubrics, H5P exercises, tests, assignments, workshops with peer assessment, Q&A forum					
	Microsoft Teams (live): calendar, meetings, documents, discussion, lecture notes					
	Web links: how-to videos, websites, online software					
Bibliography	Tableau software (https://www.tableau.com/) : online tutorials, academic license with UCLouvain email address. Bateman, S., Mandryk, R. L., Gutwin, C., Genest, A., McDine, D., & Brooks, C. (2010, April). Useful junk?: the effect of visual embellishment on comprehension and memorability of charts. In Proceedings of the SIGCHI Conference o Human Factors in Computing Systems (pp. 2573-2582). ACM.					
	Bertin, J. (1983). Semiology of graphics; diagrams networks maps (No. 04; QA90, B7.). Cairo, A. (2015). Graphics lies, misleading visuals. In New Challenges for Data Design (pp. 103-116). Springer London.					
	Heer, J., Bostock, M., & Ogievetsky, V. (2010). A tour through the visualization zoo. Commun. Acm, 53(6), 59-67. Fox, W. Statistiques sociales. (1999). Traduction et adaptation de la troisième édition américaine par Louis Imbeau De Boeck.					
	Spence, R. (2007). Information Visualization: Design for Interaction. Tufte, E. (2001). The visual display of quantitative information, 2nd edition. Graphics Press. Ware, C. (2012). Information Visualization, 3rd Edition, Perception for Design. Morgan Kaufmann.					
Other infos	All relevant information regarding these modalities and the progress of the activities (calendar, detailed instructions, evaluation criteria, etc.) are presented during the first course and are available on Moodle. Some resources (e.g. bibliographic resources, slides, explanatory videos) are in English.					

Faculty or entity in	СОМИ
charge	

Programmes containing this learning unit (UE)							
Program title	Acronym	Credits	Prerequisite	Aims			
Master [60] in Information and Communication	COMU2M1	3		٩			
Master [120] in Journalism	EJL2M	3		٩			