UCLouvain licar2831 2021 Architecture : rénovation, restauration

22.5 h

3.00 credits

Q2

This biannual learning is being organized in 2021-2022

Teacher(s)	Mairy Cécile ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	Assessment will be by written examen.
Teaching methods	Teaching is mainly through lectures. However, this is supplemented by visits to remarkable buildings and/or sites (in Belgium). These visits are intented to illustrate the concepts presented in the lectures and to specify the similarities and/or differences between this type of project and more traditional architectural design briefs.
Content	The purpose of the LICAR2831 course on restoration and renovation is to introduce the students the theoretical notions of immovable cultural heritage (history of conservation, restoration theories, charters, etc) and more specifically on certain aspects (challenges of heritage projects, characteristics of materials, diagnosis of deterioration, compatibility / durability / etc of differents approaches, thoughts on structural composition, etc), and to initiate them in the preliminary studies necessary for a proper understanding of the structures concerned and to make them aware of the problems associated with conserving, restoring and improving the property while complying with certain current requirements / restrictions.
	Class 1 Notion of heritage
	Introduction (course structure, general context)
	Philosophical bases of conservation and restoration
	Restoration theories
	Class 2 Restoration project process
	Overview of the methodology
	Initial studies (historical study, analysis of the existing situation
	Class 3 Restoration project process
	Initial studies (continued)
	Class 4 Restoration project process Initial studies (continued)
	Building improvement
	Scheduling
	Philosophy of intervention (orientation/direction/motivation)
	Options of intervention
	Illustration/actual case histories
	Class 5 Building/site visit Application of the approach presented in classes 1-2-3-4
	Class 6 Heritage and current issues
	Identification and impact of current issues
	Ovrview of standards/regulations/recommendations/requirements/etc relating to space, physical behaviour,
	energy, safety (fire, personal injury, etc), materials, know-how, budget, contract times, etc
	Proposed solutions
	Class 7 Building/site visit
	Application of the approach presented in classes 1-2-3-4-6
	Class 8 Heritage and current issues
	Heritage and energy
	Presentation of heritage buildings with improved energy performance
	Proposed solutions
	Class 9 Heritage and current issues
	Heritage and modernism
	Presentation of problems encountered on Modernist or associated style buildings
	Proposed solutions
	Class 10 Buildint/site visit
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	Application of the approach presented in classes 1-2-3-4-6-8-9 Class 11 Related frameworks Overview of legislation in Belgium, working methods, procedures, etc Presentation of national and international restoration/renovation project "references" Class 12 Exercise Application/implementation in groups				
Other infos	The classes are given on the basis of PowerPoint documents indicating key elements, illustrations, issues for consideration, specific extracts, etc. that are sent to the students prior the course concerned.				
Faculty or entity in charge	LOCI				

Programmes containing this learning unit (UE)							
Program title	Acronym	Credits	Prerequisite	Learning outcomes			
Master [120] in Civil Engineering	GCE2M	3		٩			
Master [120] in Architecture and Engineering	ARCH2M	3		٩			