LICAR2831

2016-2017

Architecture : rénovation, restauration

3.0 credits	22.5 h	2q	This biannual course is taught on years 2015-2016, 2017-2018, ...

Teacher(s) :	Mairy Cécile ;
Language :	Français
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 :	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 learning unit 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. CURRICULUM 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

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Proposed solutions
Class 7 Building/site visit

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Application of the approach presented in classes 1-2-3-4-6
Class 8 Heritage and current issues
Heritage and energy

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Presentation of heritage buildings with improved energy performance

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Proposed solutions
Class 9 Heritage and current issues
Heritage and modernism

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Presentation of problems encountered on Modernist or associated style buildings

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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

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Overview of legislation in Belgium, working methods, procedures, etc

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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 / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Architecture and Engineering	ARCH2M	3	-	🔍