


3.0 credits	30.0 h	2q
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Teacher(s) :	Couwenbergh Jean ;
Language :	Français
Place of the course	Tournai
Inline resources:	Syllabus : Revit Architecture of Jean-Pierre Couwenbergh (on Moodle).
Aims :	<i>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".</i>
Evaluation methods :	-- Practical work of making of a 3D digital model of an imposed project, in groupware -- Use of the Revit software -- Presentation of work during the exam session
Teaching methods :	Theoretical talks exposed and practical exercises in connection with the various phases of the design process: from sketch to execution plans, via various simulations (sunning, daylight, etc)
Content :	1. BIM approach of the design process A. The BIM concept (Building Modeling Information) i. The BIM acronym ii. The BIM Concept iii. From CAD to BIM iv. Development of BIM B. Characteristics of BIM i. Dimensions of BIM ii. Levels of detail of the BIM iii. Levels of maturity of the BIM iv. Open BIM or owner BIM C. BIM technologies i. Tools for each actor ii. Scan to BIM iii. Clash control D. Implementation of the BIM i. Stages ii. Observations iii. BIM Score iv. Education to BIM 2. Development of the 3D digital model A. Principe of operation of the tool used B. Presentation of the interface of the tool C. Design using volumes D. Design starting from components i. Wall ii. Door and window iii. Curtain wall iv. Column, beam, floor v. Roof vi. Furniture, vii. Staircase E. Management of the views (plan, cut, rise, detail, quantitative) F. Lighting, rendering and animation G. Design of families H. Collaborative work
Bibliography :	BIM et Maquette numérique, Olivier Celnik et Eric Lebègue, Editions Eyrolles Paris 2015 Revit Architecture, Développement de projet et bonnes pratiques, Julie Guézo et Pierre Navarra, Editions Eyrolles Paris 2016
Other infos :	The number of places is limited for this course.

Faculty or entity in charge:	LOCI
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Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Architecture (Bruxelles)	ARCB2M	3	-	
Master [120] in Architecture (Tournai)	ARCT2M	3	-	