UCLouvain

larcb1121

2026

Representation 1A

5.00 credits	90.0 h	Q1

Teacher(s)	Delcommune Thierry (coordinator) ;Malevez Jerome ;
Language :	French
Place of the course	Bruxelles Saint-Gilles
Main themes	This course uses physical drawing to introduce students to the modes of representation specific to the discipline and the mental processes required to observe and visualize objects in three dimensions while graphically representing them in two dimensions. The tools and media employed encourage students to take a fresh, analytical perspective on their immediate environment. The introduction to the foundations of representation is complemented by a cultural exploration. Themes covered include line drawing, proportions, composition, orthogonal (geometric representation), oblique (axonometry), and conical (perspective) projections, shading, scales, observational drawing, expressive drawing, communication drawing.
Learning outcomes	**At the end of this learning unit, the student is able to :** • Understand and apply the codes and methods used to represent a simple architectural space, whether really observed or imagined in three dimensions, • Represent space using orthogonal, cylindrical, and conical projections, • Manipulate planes and straight lines using Monge's theory, • Handle complex surfaces by understanding their geometric properties, • Depict architectural objects in terms of light and shadow, using both theoretical and real light sources, • Graphically convey, with intention, the experience of spatiality, • Organize, plan, develop, and summarize individual work within a given timeframe. **General Learning Outcomes** In line with the program's learning outcomes (LOs), this course contributes to the development and acquisition of the following LOs: • LO1.1 Identify the parameters and issues of a given situation. • LO2.1 Acquire and proficiently apply the conventions of representation in two and three dimensions. • LO2.3 Proficiently portray spatial experiences. • LO5.2 Organize individual or collective work attentively and inclusively.
Bibliography	Guion, A. Cours de géométrie Descriptive :Tome 2, Méthode des plans cotés. Bruxelles : édition De Boeck, 1969 De Sloovere H. Cours de Géométrie Descriptive : Méthode de Monge. Bruxelles : édition De Boeck, 1991 JUNGMANN, J-P. Ombres et lumières : un manuel de tracé et de rendu. Paris : édition de la Vilette, 1995 Aubert J. Cours de dessin d'architecture à partir de la géométrie descriptive. Paris : édition de la Vilette, 1980 De Herde A., Gracia E. et Le Paige M. Guide d'aide à la conception bioclimatique. Louvain-La-Neuve : Ed. C.R.A.,Architecture et Climat, 1986 Carlo Argan, Carlo. Perspective et histoire au Quattrocento. Chatillon-sous-Bagneux : édition de la passion, 1990 Durant, J-P. La représentation du projet : Approche pratique et critique. Paris : édition de la Vilette, 2003 Savignat, J-M. Dessin et architecture du Moyen-âge au XVIIIème siècle. Paris : Ecole Nationale Supérieure des Beaux-arts, 1980 Ludi, Jean-Claude. La perspective pas à pas : Manuel de construction graphique de l'espace et tracé des ombres. Paris : Dunod, 2009 (3ème édition)
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Architecture (Bruxelles)	ARCB1BA	5		