

I. General Information

Course Name: BIM: Learn to Design Smart

Difficulty level (Beginner/Intermediate/ Advanced): beginner-intermediate

Students from Technical University of Civil Engineering Bucharest:

- Faculty of Building Services Engineering
- Faculty of Construction
- Faculty of Architecture
- Other Faculties

Technical Prerequisites: AutoCAD. Revit,

- installation background
- architecture background
- construction background
- others

Number of total hours: 30 hours

Course duration: 28 June – 13 July (2weeks)

Number of trainers: 2

Case Study / Capstone Project / Laboratory project: Online classes (Practical exercises)

Examination form: Practical Exam, Online Quiz Exam, opt. Online interview

Certification: Crystal Certification of Completion/ Participation

The goal of the BIM: Learn to Design is to: Provide an extensive training for Students in Building Information Modelling using standard tools like Autodesk Revit and BIM 360 as Common Data Environment to share in real-time project data and information

I. Curricula

Nº	Subjects/Lessons	Hours	
		In-classroom lessons *	In-classroom Practical exercises*
1.	<ul style="list-style-type: none"> Introduction to BIM Autodesk Revit Guide (Basic) Term and concept 	2	2
2.	<ul style="list-style-type: none"> Element selection and manipulation 	2	2
3.	Project Phase, design option, 2D drafting, annotation, schedules, IFC, Export/Import	2	2
4.	Understanding Revit MEP System, Autodesk Revit MEP: HVAC System	2	2
5.	Autodesk Revit MEP: Plumbing System	2	2
6.	Autodesk Revit MEP: Electrical System	2	2
7.	Presentation Fipmec <i>“Seismic Engineering & Protection in Construction and Installation”</i> Introduction Field of expertise	2	
	Crystal BIM Solution: Practical application Design/ implementation of special joints in the plumbing for seismically isolated building	1	1
8.	Exam day Quiz Practical exam	2	
Total Hours		30	

***The hours of lesson/practical exercises may vary from lesson to lesson!**