



Crystal BIM: Learn to Design Smart (Edition II)



I. General Information

Course Name: Learn to Design Smart (edition II)

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

Knowledge Prerequisites:

- English B2-C1
- Knowledge of Microsoft supporting systems and experience working with AutoCAD
- 4th year, Master and PhD Students
- Students from University UTCB have the selection priority

Technical Prerequisites:

- installation background
- architecture background
- construction background
- others

Number of total hours: 30 h

Course duration: 3 weeks

Number of trainees: 25 - 100

Number of trainers: 4

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 Smart, edition II is to: provide an extensive Training for Students in Building Information Modeling, using standard tools like Autodesk Revit, "PROFIS" as Common Data Environment to share in real-time project data and information.

I. Curricula

Nº	Subjects/Lessons	Hours in classroom
1.	Introducing in BIM Autodesk Revit Guide Term and concept	3
2.	Preparing a project with Autodesk Revit Element selection and manipulation	3
3.	Understanding Revit MEP System Understanding Revit MEP: HVAC system, plumbing system, electrical system	3
4.	Understating HVAC System	3
5.	Presentation HILTI Group "How to use correct and efficiently Fastening and Fixing Solutions" "PROFIS" engineering	3



Crystal BIM: Learn to Design Smart (Edition II)



Nº	Subjects/Lessons	Hours in classroom
	"PROFIS" installation	
6.	From "PROFIS" to 3D- BIM Modeling – MEP Anchors and structural elements	3
7.	Practical example: Visit on the site	3
8.	• Special Lesson: HVAC fire protection *	3
9.	• Special Lesson: Electrical system/ Plumbing system *	3
Total Hours 27 h		

Legend:

- 1 lesson = 3 hours
- * Special lessons
 - will be organized only if more than 5 master students will attend
 - intensive lessons: focus will be only on the professional topics