



SVEUČILIŠTE U SPLITU
FAKULTET GRAĐEVINARSTVA,
ARHITEKTURE I GEODEZIJE

UNIVERSITY OF SPLIT
FACULTY OF CIVIL ENGINEERING,
ARCHITECTURE AND GEODESY

BIM for HVAC

2017



University of Split

Spend your summer at
SPLIT SUMMER SCHOOL for students
of Civil Engineering, Architecture & Geodesy
CROATIA / Split

Welcome to Split Summer School!

The Course: BIM for HVAC

(HVAC BIM design using AX-3000 under AutoCAD, BricsCAD or Allplan)

Main topics:

- Core of BIM philosophy and implications on HVAC design
- Designing an office building using HVAC BIM approach in 3D
- Generating drawings from 3D model, scale 1:50 (floorplans, sections)
- Heating calculation + dimensioning + 3D modeling of heating circuits and equipment
- Ventilation calculation + dimensioning + 3D modeling of ventilation ducts and equipment
- Cooling calculation and thermal simulation
- Sanitary calculation + dimensioning + 3D modeling of water and sewer pipes and equipment
- BIM workflow management and control
- BIM collaboration with other disciplines, exporting and importing BIM models from other designers (Architects, Civil engineers)
- PDF based collaboration and workflow tracking

Program structure:

- 5 day course, practical work in HVAC calculation, dimensioning and design using AX-3000 as a plug-in for AutoCAD, BricsCAD or Allplan
- Producing full 3D HVAC model, drawings, renderings and quantity takeoff
- BIM management principles and collaboration



Organising committee

<p>Boris Trogrlić</p> <p>Ph.D. Dean, Associate professor btroglic@gradst.hr</p>	<p>Mirela Galić</p> <p>Ph.D. Vice Dean for Int. Cooperation, Associate professor mgalic@gradst.hr</p>	<p>Ana Jeličić</p> <p>Mag. ing. aedif. Academic Associate ana.jelicic@gradst.hr</p>
		

Lectures

Gianmarco Ćurčić Baldini, architect, BIM manager at Baldinistudio d.o.o.

Michael Miklautz, mechanical engineer, ESS Software, Villach



Program structure

Sunday, 3/9 Faculty Entry hall

19.30-21.00	Registration
20.30 - ...	Welcome and address by Organising Committee

Monday, 4/9 Classroom C3, 1st floor

Day 1 9:00 – 15:00

BIM in field of HVAC, Explaining BIM building model structure, start to design

10.30 - 11.00	Coffee break: cafeteria, -1 st floor
12.30 - 13.30	Lunch break: student restaurant, -1 st floor

Tuesday, 5/9 Classroom C3, 1st floor

Day 2 9:00 – 15:00

Heating calculation and 3D modeling of heating systems

10.30 - 11.00	Coffee break: cafeteria, -1 st floor
12.30 - 13.30	Lunch break: student restaurant, -1 st floor

Wednesday, 6/9 Classroom C3, 1st floor

Day 3 9:00 – 15:00

Ventilation calculation and 3D modeling of heating systems

10.30 - 11.00	Coffee break: cafeteria, -1 st floor
12.30 - 13.30	Lunch break: student restaurant, -1 st floor



Thursday, 7/9 Classroom C3, 1st floor

Day 4 9:00 – 15:00

Sanitary calculation and 3D modeling (cold water, hot water, circulation and canalization)

10.30 - 11.00	Coffee break: cafeteria, -1 st floor
12.30 - 13.30	Lunch break
18.00 -	City tour (Diocletian's palace)

Friday, 8/9 Classroom C3, 1st floor

Day 5 9:00 – 19:30

BIM collaboration, workflow and data exchange with other participants (other disciplines). Integrating designs from other disciplines into integrated BIM model. BIM model evaluation and checking for collisions

10.30 - 11.00	Coffee break: cafeteria, -1 st floor
12.30 - 13.30	Lunch break
13.30 - 15.30	Final projects presentations
	Free time
18.30-19.30	Diploma awarding
19:30 -	Dinner at Faculty restaurant

