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Between July 6th and 17th, 2020, the third Building Information Modelling International Summer School (BIM-iss) was organized by ALLBIM Romania and the Academic Building Society "Anton Şesan" in partnership with the Faculty of Civil Engineering and Building Services, the Faculty of Architecture "GM Cantacuzino " from Iasi and Structural Glass.

BIM International Summer School aims to initiate students, young designers and researchers to use modern design and drawing tools. For this, Allplan Architecture, Allplan Engineering, SCIA Engineer and AX3000 software from the Nemetchek package, were handed over. They are part of the Building Information Modeling (BIM) concept that is gaining ground in the world and aims to integrate on a common platform all those involved in the design and execution of a construction project.



Due to the world crisis caused by COVID19, the organizing committee did not want this to influence the opportunity we are offering to our participants to enhance their theoretical and practical background on BIM.

For this reason, only this year, the summer school was organized online. At the beginning, a lot of people were interested in attending our lectures, but unfortunately, some of them changed their minds before even having started. So, we had 83 students and engineers, enrolled in 3 sections: Architecture, civil engineering and MEP engineering. Part of them are from our faculty, but we had a very pleasant surprised to have students from Technical University of Cluj Napoca, Polytechnic University of Timisoara and also some students from Republic of North Macedonia, Egypt, Republic of South Africa and Republic of

Moldova. All of them were very determined and willing to develop and evolve professionally.



During the first week of the summer school, the participants received information on the definition of the BIM concept, legislation and the benefits of introducing BIM into the project design and execution process. Also, they learned about Integrated Project Delivery and Lean Construction topics, which are very important for construction projects when we are talking about BIM.



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LEAN CONSTRUCTION

The primary goal of **lean production** is to avoid waste of time, money, equipment, etc. (Japanese: Muda)

The most important instruments are:

1. Multifunctional task groups;
2. Simultaneous engineering;
3. Kaizen;
4. Just-in-time-deliveries;
5. CO-makership;
6. Customer orientation;
7. Information, communication and process structure.

3D BIM-iss

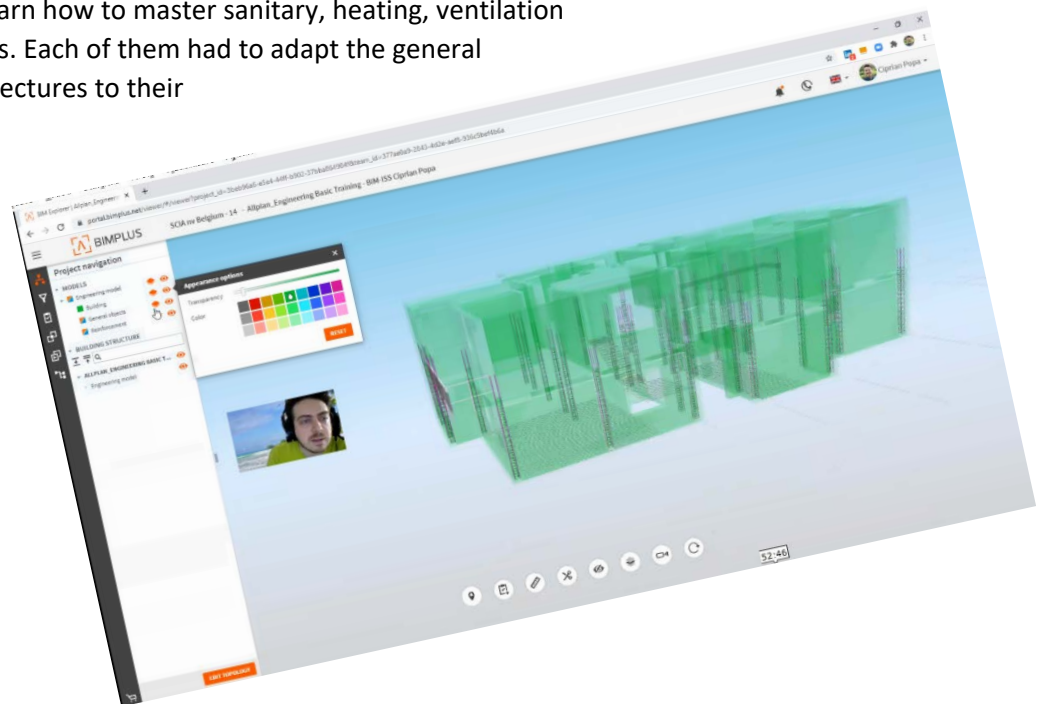
ALLBIM, S, ARCHITECTURE, EXPERTS, SCIA Construction (1997)

Subsequently, the Allplan 2D and 3D drawing program was handed over. The participants learned to model a structure, to extract a list of quantities, but also gained advanced level of knowledge about the insertion and calculation of reinforcements in a reinforced concrete structure and plotting of planes. In the second week, Scia's structural calculation program was completed. Different layout configurations have been studied and a mixed structural system was adopted (reinforced concrete ground floor and first floor and steel structure for the second floor). For this, loadings, combinations, structural calculations were performed and intensive discussions were conducted on engineering reports and results interpretation and understanding.

The BIMiss' team, also presented BIM+ platform and Bluebeam software and how the construction projects can be managed through them.

The architects worked to finish an individual project from scratch to printable layouts. They learned from basic information such as how to define walls and openings, to how to put complex roof systems or different surfaces to make the project more attractive. They were guided by our team and had support every day during the Q&A sessions.

The MEP participants had the opportunity, after they learned how to use Allplan, to continue with more specific modules. They learn how to master sanitary, heating, ventilation and electrical installations. Each of them had to adapt the general information given in the lectures to their particular layout.





The experience exchange between instructors and trainees led to a significant evolution in knowledge so that some participants obtaining BASIC certificates for Allplan or SCIA software. All participants obtained Certificate of attendance at BIMiss.



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ALLBIM BIM-iss S ALLPLAN ARCHITECTURE ALLPLAN ENGINEERING SCIA ENGINEER

During these 2 weeks of BIMiss students met a few professionals that use BIM every day in their projects and who presented the practicality of what participants started learning due to this summer school. So we invited **Alin Epure**, MSc, from United Arab Emirates, **Lucian Ungureanu**, PhD and **Vlad Leontie**, MSc from Germany and Dan Moraru, CEO of our partner ALLBIM Romania

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CBIM - European Training Network
Cloud-based Building Information Modelling
<https://www.cbim2020.net/technion.ac.il/>

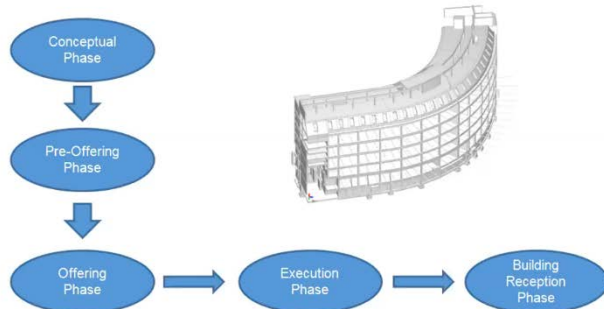
BIM-speed.eu/en
<https://www.bim-speed.eu/en>

SCIA ENGINEER

Where am I in the Construction Process ?

Areas of work:
Conceptual up to
Offering Phase

Typical Projects:
Industrial Halls,
Office Building,
Stadiums, Logistic
Halls,



Instructors:

Ioana Olteanu-Dontov - Faculty of Civil Engineering and Building Services Iași

Gabriela Covatariu - Faculty of Civil Engineering and Building Services Iași

Nelu-Cristian Chereches - Faculty of Civil Engineering and Building Services Iași

Ciprian Popa – Structural Glass Design Romania

Simona Han-Lu Zhang – ALLBIM Romania

Mihail Stancu – ALLBIM Romania



To support the idea that BIM meaning collaboration, interaction, we try to create some moments for participants' interaction (interactive games, personal questions ...), to know each others and wait for them next year, on site, to develop projects together and they were encouraged to work in teams for future projects.

Excellent knowledge of the presenter in both programs; Interesting and interactive presentation both of the programs and BIM in general; Extremely helpful organizers and presenters that were there to answer all of our questions

Good collaboration between engineers and architects, helpful in real life

It was very educative and advanced

CERTIFICATE

We hereby certify that

real life examples

attended the online Building Information Modelling - International Summer School (BIM-iss) organized by „Gheorghe Asachi” Technical University of Iași, ALLBIM NET and Structural Glass Design between 6th - 17th July 2020, as a participant.

*I really liked the fact that the lectures were recorded and I was able to rewatch and learn as much as possible from them. Also, the information presented was very clear and detailed, easy to understand, **theoretical and practical.***

In my opinion, there are no weaknesses of the course. It will be just one little thing but it's not anybody's fault: it's the thing that we did the courses online and not in person.

