3rd Edition INTERNATIONAL SUMMER SCHOOL ONLINE 2022
GIS-BIM for a digital integrated design

GISBIM INTERNATIONAL SUMMER SCHOOL

GISBIM INTERNATIONAL SUMMER SCHOOL 3rd Edition 2022 15 July 29 July

moodle

DRAFT ACTIVITY PLAN TIMESHEET

				Total hours	Recorded Lesson on Moodle	Hours of live activity	Date of live activities on Moodle
P	**Summer school opening cerimony**			1,0		**1**	**15 July 2022**
Module 1	**GIS and BIM: Digital Transformation of the Construction Industry**						
1a	The Digital Transformation of the Construction Industry. A choice of Industrial Policy. The strategic role of international standardization in BIM. Scenarios and Standards of the ISO standard 19650:2018. Definitions and Considerations from EUBIM Task group Handbook;	**SAPIENZA University of Rome**	**Francesco Ruperto**	2,0	2,0		
1b	Digital methods and tools in the construction process for an efficient project management workflow: case histories of digital Twins for Residential design solutions. Activities from GIS, BIM and Digital Twin CITERA Laboratory	**SAPIENZA University of Rome**	**Sofia Agostinelli**	2,0	2,0		
1c	Construction 4.0: Advanced Technology, Tools and Materials for the Digital Transformation of the Construction Industry	**SAPIENZA University of Rome**	**Marco Casini**	2,0	2,0		
1d	Digital methods and tools in the construction process for an efficient project management workflow: case histories. Interaction of Digital Twins & Artificial Intelligence systems aimed at optimizing processes	**University of Verona**	**Claudio Tomazzoli**	3,0	3,0		
Module 2	**GIS-BIM Theory and practice**						
2a	Geographic Information Systems and its integration with BIM methodologies. Why to integrate GIS with the BIM methodologies, tools and procedures? Beyond the 3D modelling: geography and GIS multi-thematic environment, additional dimensions of BIM data.	**SAPIENZA University of Rome**	**Patrick Maurelli**	4,0	4,0		
2b	A case study of excellence in the integration of GIS-BIM in Italy in large infrastructural works		**TBD**	2,0	1,0	**1**	**Live lesson from 25 to 27 of July 2022**
Module 3	**Historic building information modelling (HBIM)**						
3	The integrated management of sustainable processes of requalification and recovery in the architectural and environmental heritage. Purpose of the activity is to learn what are the methods and tools to investigate and learn about historical architecture and subsequently organize the data for different types of processing: on one hand the use of ICT to communicate historical and cultural heritage; on the other hand, the use of HBIM to preserve and reuse existing buildings and areas.	**SAPIENZA University of Rome**	**Tommaso Empler**	2,0	2,0		
Intermediate test 25 July 2022				1,0	**1,0**		
Module 4	**GIS and BIM International Case Histories**						
4.1	Data Collection (Survey and GIS) – Information Modeling (3D Modelling). Building Understanding (Collaboration and Information Exchange /Visualisation) Decision Making THEORY	**University of Nottingham Ningbo China**	**Georgios Kapogiannis**	1,0	3,0		
4.2	From Policy to Implementation		**Nicoleta Panagiotidou**	1,0			
4.3	Design and Modelling as well as the importance of manufacturing contribution (Asset Information Modelling and GIS), from a Business and Project perspective.		**Georgios Kapogiannis**	1,0			
4.4	Case studies		**MichaelWoldemariam**	1,0		**1**	**Live lesson from 25 to 27 of July 2022**
5	The Digital Transformation of the Construction Industry in China (TBC)	**Univ. Yangzhou (China)**	**ZHANG Bing Peng Ye**	4,0	3,0	**1**	
6	The Digital Transformation of the Construction Industry in Indonesia (TBC)	**Institut Teknologi Bandung**	**TBD**	4,0	3,0	**1**	
7	BIM and Tropical Architecture solutions in Costa Rica (TBC)	**Universidad de Costa Rica**	**Emily Vargas**	4,0	3,0	**1**	
8	Digital Twin experience UTP Panamà (TBC)	**Universidad Tecnologica de Panamà**	**Martin Edmundo Candanedo**	4,0	3,0	**1**	
Final test on MOODLE Platform				1,0		1,0	**28 of July 2022**
Lessons on the E-Learning MOODLE platform in asynchronous mode					**32,0**		**From 15 to 24 of July 2022**
Total blended activities (live activities via E-Learning MOODLE Platform)						**8**	**Live lesson from 25 to 27 of July 2022**
Total hours of activity (recorded and live)				**40,0**			
1 hour = 50 minutes video lesson					**Rev. 7**		