56. BIM FOR COLLABORATIVE DESIGN PROCESS MANAGEMENT IN NEW AND EXISTING BUILDINGS			
Level II			
	Department of Architecture (DIDA)		
Course coordinator	Carlo Biagini		
Executive Committee	Carlo Biagini		
	Pietro Capone		
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Contact person for			
information regarding			
teaching organization, class	carlo.biagini@unifi.it		
schedule, and course			
content			
Practical-professional profile	The Master course aims to train professionals in the digitization processes of		
of the course and industry	the construction industry (AECO - Architecture, Engineering, Construction, and		
sector of reference	Operation), capable of managing information in buildings' life cycle, providing		
	the necessary skills for participation in today's integrated processes of design,		
	construction, and management, based on the BIM Building Information		
	Widdeling) modeling methods and tools in "collaborative work" environments.		
	Inerefore, the study plan is divided into modules addressing the different		
	spects of Bivi processes, following the information Delivery Cycle (IDC), which		
	identification of information exchange requirements about specific PIM uses		
	- identification of information exchange requirements about specific Billy uses;		
	the various phases of PIM based project delivery		
	development of PIM models as part of integrated design processes in		
	- development of Bilvi models as part of integrated design processes in collaborative working environments (ACDat) with the implementation of		
	forderated models both horizontally by subject area (architecture, structure, and		
	facilities) and vertically by levels of death in the design and executive phases		
	(tachno aconomic forcibility final executive construction as built atc.):		
	- data acquisition techniques and development of BIM models of evisting		
	buildinge		
	- BIM-based information management at various stages of building operation		
	and maintenance (0&M)		
	The master course will therefore develop professional skills both at the		
	operational and management level in information modeling process		
	management and coordination of information flows through BIM tools and		
	methodologies.		
	The educational activities will account for 60 CFUs, of which 39 CFUs will be for		
	face-to-face classes, of which: 312 hours of face-to-face teaching, 15 CFUs for		
	practical activities and/or internship, 6 CFUs for exams and thesis.		
Access prerequisites	Master's degree obtained following the system under Ministerial Decree No.		
	270/2004 (or specialist degree under Ministerial Decree No. 509/1999 equated		
	under I.D. July 9, 2009) in one of the following classes		
	LM-3 Landscape Architecture		
	• LM-4 Architecture and Construction Engineering - Architecture;		
	LM-10 Conservation of Architectural and Environmental Heritage		
	LM-11 Science for the Conservation and Restoration of Cultural Heritage		
	LM-12 Design		
	LM-18 Computer Science:		
	LM-22 Chemical Engineering		
	IM-23 Civil Engineering		

	IM-24 Building Systems Engineering
	IM-25 Automation Engineering:
	<ul> <li>IM-26 Safety Engineering</li> </ul>
	<ul> <li>IM-27 Telecommunications Engineering</li> </ul>
	<ul> <li>IM-28 Electrical Engineering:</li> </ul>
	<ul> <li>LM 20 Electronic Engineering;</li> </ul>
	<ul> <li>LM 20 Energy and Nuclear Engineering</li> </ul>
	• LNA 21 Management Engineering
	LIVI-31 Management Engineering
	LIM-32 Computer Engineering;
	LIVI-33 Mechanical Engineering;
	<ul> <li>LIVI-34 Navai Engineering</li> <li>LIVI-35 Environmental and Lond Lion Environmental</li> </ul>
	LIM-35 Environmental and Land Use Engineering
	LIVI-48 Urban and Environmental Spatial Planning
	begree awarded according to a system prior to Ministerial Decree No. 509/1999
	Architecture     Concentration of cultural horitage
	Computer Science
	Computer Science     Civil Engineering
	Civil Engineering     Construction Engineering
	Construction Engineering     Architecture
	Construction Engineering - Architecture
	Industrial Engineering
	Computer Engineering
	Miechanical Engineering     Fruitegementel and lead use an singering
	Environmental and land use engineering
	Ierritorial urban and environmental planning
	Urban planning
	Degree awarded according to a system prior to Ministerial Decree No. 509/1999
	of closely related content, deemed suitable by the Executive Committee or a
Admission procedure	Commission specifically appointed by it.
Admission procedure	12 months
Tooshing mothods	Planded in person and dictance learning (synchronous, Webey platform)
	Biended in-person and distance learning (synchronous, webex platform)
Attendence requirements	
Attendance requirements	75%
Location of the course	Santa Verdiana Campus Diazza Chiberti 27, Elerence
	en Frideve mixed (in normal and remate)
Foreseen lecture schedule	- on Fridays, mixed (in-person and remote)
Examinations procedures	Dractical text and /or paper delivery at the end of the module
and schedule	Fractical test and/or paper derivery at the end of the module.
Final examination	
	At the end of the course, there is a final test consisting of a report presentation.

Available places and enrolment fees		
Full-fee students		
Minimum number	10	
Maximum number	30	
Enrolment fee	€3,900	
Free-of-charge supernumerary places		
UNIFI employees	1	

Single Modules	
None planned	

Description of the activities and training objectives of the internship	Students undertake a period of internship to work with teams developing BIM processes for information management of the project/construction delivery and building lifecycle phases (asset management), gaining the necessary autonomy and initiative in assigned tasks. This activity is carried out at one of the host entities affiliated with the University of Florence and selected from professional firms, engineering companies, construction companies, and public or private contracting stations.
	Alternatively, the internship may be partially replaced by practical training activities proposed by the coordinators of the Master course or if the student demonstrates that he or she is carrying out work consistent with the training objectives of the Master's program. 375 total hours of internship.

<sup>&</sup>lt;sup>i</sup> This document is a translation of the form A.1 relating to the characteristics of the course attached to the Decree of the Deputynumber 652 (record 154925) of 13th of July 2023, drafted in Italian and issued on the Master | Didattica | Università degli Studi di Firenze | UniFI and which therefore constitutes the only official document. This English translation cannot be used for legal purposes and has the sole purpose of supplying information in English on the content of the public notice.