

BIM Summer Course

Course Coordinators: Diogo Ribeiro (ISEP/ISEPBIM), Ricardo Santos (ISEP/ISEPBIM), Rui Gavina (ISEPBIM)

Week 1

PROGRAM						
	10 Jul (Wednesday)	11 Jul (Thursday)	12 Jul (Friday)	13 Jul (Saturday)	Sunday	
09H00-09H30	Presentation and Course hand-out J302	Template definition and Management J104 R. Carvalho / J. Coelho	BIM Experience I Visit to BIM Company (BIMMS) (Ricardo Santos) Outside event: Porto	Visit to Monte da Virgem Telecommunications Tower (Diogo Ribeiro / R. Santos) Outside Event: V.N. Gaia		
09H30-10H00	Course Coordination					
10H00-10H30	Project Presentation					
10H30-11H00	Course Coordination					
11H00-11H15	Break	Break				
11H15-11H45	BIM Introduction, Concepts & Methodologies Rui Gavina J104	Families: Concept and Creation J104 R. Carvalho / J. Coelho				
11H45-12H15	BIM Standards and European Regulations Rui Gavina J104					
12H15-12H45						
12H45-13H15	Lunch	Lunch	Lunch			
13H15-14H30						
14H30-15H00	Modelling: Initiation Part I J104 R. Carvalho / F. Sousa	Understanding Shared Coordinates R. Carvalho / R. Gavina J104	BIM Methodologies Coordination R. Carvalho / R. Gavina J104			
15H00-15H30		Federated Models R. Carvalho / R. Gavina J104	BIM IFC Coordination R. Carvalho / R. Gavina J104			
15H30-16H00						
16H00-16H30						
16H30-16H45	Break	Break	Break			
16H45-17H15	Modelling: Initiation Part II J104 R. Carvalho / F. Sousa	Photorealistic Rendering J104 Carlos Vieira	BIM in Construction and Safety Manuel Tender (Mota-Engil) C301			
17h15-17H45			Project Assignment Course Coordination C301			
17H45-18H15						
18H15-18H45						
18H45-19H00	Break					
19H00-19H30	Ice-break Party					
19H30-20H00						
20H00-20H30	ISEP Campus					
20H30-21H00						
21H00-21H30						
21H30-22H00						

Week 2

PROGRAM								
	15 Jul (Monday)	16 Jul (Tuesday)	17 Jul (Wednesday)	18 Jul (Thursday)	19 Jul (Friday)	20 Jul (Saturday)	Sunday	
09H00-09H30	Structural Analysis: Fundamentals I Isabel Teles J104	Structural Model vs BIM Model Part I Ricardo Duarte Pedro Geraldès J104	BIM Automatic Code-check J. P. Poças Martins (FEUP) C301	Trends and Innovation: Laser Scanning Tiago Campelo André Gonçalves J104	Model Design Review: Coordination Décio Ferreira J104			
09H30-10H00			Introduction to Automation Tools Joel Soares J104					
10H00-10H30								
10H30-11H00								
11H00-11H15	Break	Break	Break	Break	Break			
11H15-11H45	Structural Analysis: Fundamentals II Isabel Teles J104	Structural Model vs BIM Model Part II Ricardo Duarte Pedro Geraldès J104	Automation routines on Modelling with Dynamo Joel Soares J104	Trends and Innovation: Drones Ricardo Santos Oscar Moreira J104	Model Design Review: Templates as facilitators Décio Ferreira J104			
11H45-12H15								
12H15-12H45								
12H45-13H15								
13H15-14H30	Lunch	Lunch	Lunch	Lunch	Lunch			
14H30-15H00	Reinforced Concrete Design Diogo Ribeiro J104	BIM Virtual design to Construction Jorge Vaz (ESAP) J302	Automation routines on Structural Analysis with Dynamo Joel Soares J104	BIM and Sustainability in Design Pedro Santiago (UFP) J302	Model Design Review: Clash Detection Décio Ferreira J104	Arrábida Bridge (Porto Bridge Climb) Outside Event: Porto		
15H00-15H30		BIM Methodologies: Automation Ricardo Santos J302		BIM Robotics in Construction José Pedro Sousa (FAUP) J302				
15H30-16H00								
16H00-16H30								
16H30-16H45	Break	Break	Break	Break	Break			
16H45-17H15	Steel Design Rodrigo Falcão Moreira J104	Project development Supervisors J104	Project development Supervisors J104	Project development Supervisors J104	BIM Execution Plan (hands-on) Décio Ferreira J104			
17H15-17H45								
17H45-18H15								
18H15-18H45								
18H45-19H00	Break							
19H00-19H30	Sports event P.Porto Campus							
19H30-20H00								
20H00-20H30								
20H30-21H00					Course Dinner			
21H00-21H30								
21H30-22H00					Cufra-Grill			

Week 3

			PROGRAM	
22 Jul (Monday)		23 Jul (Tuesday)		
09H00-09H30	BIM Methodologies Facility Management	J104	Project development	J104
09H30-10H00	M. Correia / J. Mota			
10H00-10H30	FM Fundamentals with Archibus	J104	Supervisors	J104
10H30-11H00	M. Correia / J. Mota			
11H00-11H15	Break		Break	
11H15-11H45	FM Interaction with BIM Models	J104	Project development	J104
11H45-12H15	M. Correia / J. Mota			
12H15-12H45	FM Workflow with Archibus	J104	Supervisors	J104
12H45-13H15	M. Correia / J. Mota			
13H15-14H30	Lunch		Lunch	
14H30-15H00			Project development	J104
15H00-15H30	BIM Experience II Visit to BIM Company (A400) (Diogo Ribeiro / Fernando Sousa) Outside event: Porto		Supervisors	
15H30-16H00				
16H00-16H30				
16H30-16H45			Break	
16H45-17H15				
17H15-17H45				
17H45-18H15			Project Final Presentation	J302
18H15-18H45				
18H45-19H15				
19H15-19H45			Supervisors	
19H45-20H00			Break	
20H00-20H30			Closing and Awarding Ceremony	J302
20H30-21H00			Course Coordination	
21H00-21H30				
21H30-22H00				

Course Coordination	Opening and Closing	02 hours
Course Coordination	Socialisation events	10 hours
Module 01	Introduction to BIM	10 hours
Module 02	BIM Coordination	10 hours
Module 03	Photorealistic Rendering	02 hours
Module 04	BIM Execution Plan	02 hours
Module 05	Integration of BIM and Structural Models	12 hours
Module 06	BIM Automation	06 hours
Module 07	BIM Trends and Innovation	04 hours
Module 08	BIM FM	04 hours
Visits	(outside events)	06 hours
Invited speakers		05 hours
Project	3 students/project	17 hours (includes presentations)
Total: 2.5 ECTS		90 hours