

COMPARATIVE MATRIX

Polytechnic Institute of Leiria – PILeiria, Portugal		ETCS		Donbas National Academy of Civil Engineering and Architecture – DonNACEA, Ukraine		ETCS
MATRIX of existing Master course - Master in Building Construction				MATRIX of existing Master course - Master in Civil Engineering		
1st Year, 1st Semester						
1	Dynamic Analysis and Earthquake Engineering	7	1	Dynamic Analysis and Earthquake Engineering	7	
2	Road Pavement Construction and Management	6	2	Building technology for special buildings and structures	6	
3	Urban Hydraulics	6	3	City pipelines and networks (water nets, waste water nets, gas, heat, ventilation supplies nets)	6	
4	Coatings and Finishing	6	4	Technological works with new constructional materials	6	
5	Sustainable Construction	5	5	Information technologies for researching	5	
	Total	30			30	
1st Year, 2nd Semester						
6	Safety and Quality in Construction and Projects	6	6	Basics of quality management and products certification	5	
7	Wood and Masonry Structures	6	7	Special building structures (steel, composite and reinforced concrete)	6	
8	Modelling and Evaluation of Structures	5	8	Experimental investigations for building structures	6	
9	Environmental Comfort in Buildings	5	9.1	Environmental engineering. Special course	2	
			9.2	Designing of energy efficient and energy saving construction	3	
10	Pathology and Rehabilitation of Buildings	6	10	Repair, reconstruction and reinforcing of building structures	6	
11	Introduction to Research in Civil Engineering	2	11	Introduction to Scientific Researches in Civil Engineering	2	
	Total	30			30	

	Polytechnic Institute of Leiria – PILeiria, Portugal	ETCS		Donbas National Academy of Civil Engineering and Architecture – DonNACEA, Ukraine	ETCS
	MATRIX of existing Master course - Master in Building Construction			MATRIX of existing Master course - Master in Civil Engineering	
2nd Year, 1st and 2nd Semesters					
12	Pre-stressed Structures and Prefabrication	6	12	Pre-stressed Structures and Prefabrication	6
13	Support Structures and Improvement of Soil	6	13	Support Structures and Improvement of Soil	6
14	Mobility Planning and Management	6	14	Transportation systems. Planning and Management	3
			15	Management and economics for building enterprise	3
	Total	18			18
	Project/Dissertation/Internship	42		Pedagogic practical training	2
				Scientific practical training	4
				Project/Dissertation/Internship	36
	Total	42			42
		120			120