Faculty of Architecture											
Study programme:	Architecture and Urba Planning	Degree level: full-time/part-time programme:				Bachelor's degree					
Specialization		Diploma path:					-				
Module name:	Structural Mechanics 1	-									
Module type:	obligatory	Se	emester:	1	ECTS	2		Module ID:	AUI 1053		
No. of hrs in semester:	L - 15	C -	15	LC-	P-	SW-			S-		
Prerequisites:	Complete with prerequisites or "-"										
	lecture, class		Assessment: Evaluation must be re				elevant to the intended learning outcomes				
Teaching methods:			lectures, class - five written ordinary tests and four written correction tests								
Aims and objectives:	As a result of the course, students should master principles of shaping and using statically determinate structures and building systems and they should understand the basic relationships between work conditions and proportions of form for different structural materials.										
Module content:	Statics and mechanics of statically determinate systems. Analysis, synthesis and optimization. Principles of building static schemes. Principles of modelling and combining loads. The way of load transfer between elements. Types of stress and their determination. Determination of mechanical quantities required for design.										
Learning outcomes	Write min. 4, max. 8 learning outcomes in the following order: knowledge - skills - competences. Each learning outcome must be verifiable.										
LO1	student has knowledge of principles of using statically determinate systems							AiU1_W04, AiU1_W09			
LO2	they can build static schemes of statically determinate systems, they know how to assume and transfer loads							AiU1_W04, AiU1_U04			
LO3	they have ability to identify and determine stresses and mechanical quantities required for design							AiU1_W04, AiU1_U01, AiU1_U04			
LO4	they have ability to shape optimal statically determinate structures from Ai different materials							AiU1_W	AiU1_W04, AiU1_U04		
nt workload	lecture attendance	15									
	participation in classes, laboratory classes, etc.							15			
	participation in student-teacher sessions related to the class							5			
ndei	preparation for tests							15			
st	TOTAL:							50			

quantitative indicators	Student workload - activities	35	ECTS						
			1,4						
	Student workload	35	1,4						
basic references:	1 Kolendowicz T., Mechanika budowli dla architektów, Wrocław, Oficyna Wydawnicza Politechniki Wrocławskiej, 2012. 2 Pyrak S., Szulborski K. Mechanika konstrukcji: przykłady obliczeń. Arkady, Warszawa, 2004.								
supplementary references:	1 Shaeffer R.E. Building Structures: elementary analysis and design. Prentice-Hall, Englewood Cliffs, 1980. 2 Salvadori M., Heller R. A., Structure in architecture: the building of buildings, Englewood Cliffs, Prentice-Hall, 1986.								
learning outcomes	methods of asse	type of class (if more than one) where the outcomes are assessed							
LO1	written tests	L, C							
LO2	written tests	L, C							
LO3	written tests	L, C							
LO4	written tests	L, C							
Department:	Engineering Design Studio	Group instructors:	Agata Kozikowska						
Date:	12.04.2019 r.	Coordinator:	Agata Kozikow	vska, PhD					

L - lecture C - class LC - laboratory class P-project SW - specialization workshop S - seminar