Załącznik nr 2 do Zarządzenia Nr 417/2015

Faculty of												
Study programme:	Civil Engineering			Degree level: Ba full-time Ba					chelor's degree			
Specialization			Diploma path:									
Module name:			Technology of building products									
Module type:	elective	Se	emester:	6		ECTS	3		Module ID:	ENB46454		
No. of hrs in semester:	L - 15	C -	_	LC-		P-	SW	- 15		S-		
Prerequisites:	Complete with prerequisites or "-"							-				
Aims and objectives:	Description of the assumed knowledge, skills and social competence the student should have acquired after the completion of the module:		The purpose of education is: to familiarize students with the technology of production of small-sized construction products; to teach for calculating the demand for raw materials and preparation of technological schemes of the production process; to develop skills of the critical choice of technological solutions.									
		Evalu	lation mus	t be rel	evant to the intende	d learning outcomes						
Forms of teaching activities:	lecture, classes, laboratory classes, project, specialization workshop, seminar lecture – written te						– projec	t realiz	zation, presentat	ion and discussion		
Module content:	Complete with the module content: (max. 1000 characters) The production technology of building ceramics. Technology of autoclaved aerated concrete (AAC/ACC) production. Technology of sand lime bricks production.											
Teaching methods:												
Learning outcome	Specify min. 4, max. 8 learning outcomes in the following order: knowledge – skills – competence. Each learning outcome must be verifiable								Reference to the programme learning outcomes			
LO1	Student describes in detail the stages of the	e pro	duction p	process					K_B1_W08, K_B1_W18,			
LO2	Student identifies devices and machines in the production process								K_B1_W08, K_B1_W18			
LO3	Student prepares the flow diagram of the production process								K_B1_W08,K_B1_U13,			
LO4	Student calculates demand for raw materials								K_B1_U13			
LO5	Student is able to use the Internet/web and other databases								K_B1_U23			
LO6	Student is able to determine the health and safety requirements in the manufacturing						uring pla	int	K_B1_W	15, K_B1_K02		
L07												
LU8												
No. of learning outcome	Methods of assessing the learning o	outo	ome						Type of teachi than one) durin is a	ng activities (if more g which the outcome assessed		
LO1	written exam of lecture, the descriptive part project	t of t	he project, presentation and defence of the L, P									
LO2	project							L, P				
LO3	the part of the graphics of the project, the project verification							Р				

LO4	the computational part of the project, the project	t verification	Р							
LO5	verification and defence of the project	Р	Р							
LO6	the descriptive part of the project	Р	Р							
L07										
LO8										
	lecture attendance	15x1h	15							
(sınc	participation in classes, laboratory classes, etc.	15x1h	15							
	preparation for classes, laboratory classes, proje	5x2h	10							
n hc	working on projects, reports, etc.									
i) bi	participation in student-teacher sessions related		3							
kloë	implementation of project tasks	6x3h	18							
wor	preparation for and participation in exams/tests		15							
ent										
stud										
0)										
			TOTAL:	76						
	Student workload activities that require di	22	ECTS							
Quantitative		55	1,5							
indicators	Student workload – practical activities: 15+1	46	2							
Basic references:	1) http://www.aircrete-europe.com/en; 2) http://www.wkb-systems.com/production-sand-lime-brick.html; 3) http://www.madehow.com/Volume-1/Ceramic-Tile.html; 4) Philipe Boch, Jean-Claude Niepce: Ceramic Materials - Processes, Properties and Applications. ISTE Ltd. London. UK; 5) http://www.zzkymachine.com									
Supplementary references:	1) Ceramics International, Elsever Science. 2) Construction and Building Materials. Elsevier Science.									
Unit:	Department of Construction Materials, Technology and Organization		_							
Date of issuing the programme:	16.01.2017	Author of the programme:	Małgorzata A. Lelus	z, PhD, Eng						

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