Title of Course		Concrete Technology - laboratory			
Semester		Autumn/Spring			
Teaching		Total	Lectures	Tutorials	
Hours per Course:		30	0	30	
ECTS Credits		2.0			
The content of education					
Aims of	The result of education should be the acquisition by students of skills and				
Course	comp	petencies understanding concepts and processes used in concrete technology,			
	select	ting and controlling the quality of concrete mix components, as well as			
	ordina	ary concrete, at an engineering level.			
Program	L1 - P	- Presentation of the laboratory. Order regulations. Technical standards.			
	L2 - A	L2 - Analysis of the grain composition of concrete aggregates according to PN-EN			
	955-1.				
	I 4 - Testing the consistency of concrete mix according to PN-FN 12350-2 to 5				
	L5 - Dosing of components and preparation of the concrete mix. Consistency				
	testing. Molding of test specimens according to PN-EN 12390-1, -2.				
	L6 - Demolding of test specimens and commencement of concrete curing according				
	to PN	to PN-EN 12390-2.			
	L7 - S	7 - Summary of PN-EN 206-1 conducted tests.			
	L8 - F moldi	- Preparation of next concrete mix, testing rheological properties of the mix, and ding of test specimens according to PN-EN 12390-1 to 2			
	L9 -	- Testing the density and compressive strength of first concrete at 28 days			
	accore	ccording to PN-EN 12390-3. Determination of characteristic strength and concrete			
	class a	iss according to PN-EN 206-1.			
	L10 -	0 - Testing concrete in structures according to PN-EN 12504-1.			
	L11 -	.11 - Testing concrete in structures according to PN-EN 12504-2.			
	L12 -	12 - Testing the impact of curing on the 28-day strength of concrete or alternative			
	testing	testing of concrete. Results analysis.			
	L13 -	A Summary of PN FN 13670 conducted tests			
	L14 -	- Presentation and evaluation of reports on the execution and testing of			
	concre	rete.			
Conditions of	Grad	Grading Standard:			
completion	The conditions for passing the course are: attendance at all laboratory sessions,				
·····p·····	prepar	eparation of documentation for each project task, and presentation of research			
	result	lts. The final course grade is based on the evaluation of the report and			
	know	wledge tests.			
	Grad	ade			
	2.0; 3	0; 3.0; 3.5; 4.0; 4.5; 5.0			
Teacher	M.Sc	. Natalia Gasik-Kowalska			