

Bialystok University of Technology									
Field of study	Computer Science							Degree level and programme type	Engineer's degree full-time programme
Specialization/ diploma path	---							Study profile	academic
Course name	Web Applications Development in .NET technology							Course code	FCS-00003
								Course type	obligatory
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	3
	30				30			No. of ECTS credits	6
Entry requirements									
Course objectives	The goal of the subject is to learn students how to use .NET technology for creating web applications.								
Course content	ASP .NET architecture. HTML controls. Life-cycle of web page. Session management. Data validation. Mechanisms and controls supporting web applications design. Databases access methods.								
Teaching methods	lecture problem, programming,								
Assessment method	Lecture - two writing tests Practical exercises - project implementation								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	
LO1	understands chosen parts of ASP.NET architecture							K_W09	
LO2	describes usage of choosed web server controls							K_W09	
LO3	implements web applications using .NET technology							K_U09	
LO4	knows how to use reallional database in ASPX .NET applications							K_U07	
Symbol of learning outcome	Methods of assessing the learning outcomes							Type of tuition during which the outcome is assessed	
LO1	written test							L	
LO2	written test							L	
LO3	implemented projects							Sw	
LO4	implemented projects							Sw	
Student workload (in hours)							No. of hours		
Calculation	1 - Presence during lectures - 15 x 2h							30	
	2 - Presence during practical exercises - 15 x 2h							30	
	3 - Preparation to practical exercises - 10 x 2h							20	
	4 - Documentation for the project and homeworks for practical exercises -							40	
	5 - Presence during practical consulting hours - 5 x 1h							10	
	6 - Preparation to writing test -							20	
TOTAL:							150		
Quantitative indicators							HOURS	No. of ECTS credits	
Student workload - activities that require direct teacher participation							70 (5)+(2)+(1)	2.8	
Student workload - practical activities							90 (4)+(2)+(3)	3.6	
Basic references	1. A. Freeman, Pro ASP.NET Core MVC 2, Apress, 2017 2. A. Freeman, Pro ASP.NET MVC 5, Apress, 2013								
Supplementary references	1. I. V. Pecanac, Ultimate ASP.NET Core 3 Web API, 2020 2. M. J. Price, C# 8.0 and .NET Core 3.0 - Modern Cross-Platform Development - Fourth Edition, Packt, 2019 3. D. Esposito, Microsoft ASP.NET and AJAX : architecting Web applications, Microsoft Press, 2009.								
Organisational unit conducting the course	Department of Information Systems and Computer Networks							Date of issuing the programme	
Author of the programme	dr inż. Maciej Kopczyński, dr hab. inż. Ireneusz Mrozek							Feb. 17, 2022	

L - lecture, C - classes, LC - laboratory classes, P - project, SW - specialization workshop, FW - field work, S - seminar