

DESCRIPTION OF THE COURSE OF STUDY

Course code	0613-2INF-F45-TN	
Name of the course in	Polish	Technologie .NET
	English	.NET Technologies

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Computer Science
1.2. Mode of study	Full-time
1.3. Level of study	Undergraduate engineering study
1.4. Profile of study	General academic
1.5. Person/s preparing the course description	Tomasz Ruśc
1.6. Contact	tomasz.rusc@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites	Object Oriented Programming, Software Engineering

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	lectures, laboratories, project	
3.2. Place of classes	Courses in the UJK teaching rooms of the Faculty of Exact and Natural Science	
3.3. Form of assessment	credit with grade (lectures, laboratories, project)	
3.4. Teaching methods	lecture supported by slides, students' own work on the computer	
3.5. Bibliography	Required reading	1. A. Troelsen, P Japikse Pro C# 10 with .NET 6: Foundational Principles and Practices in Programming ISBN-10 1484278682 2. L Powers, M. Snell Visual Studio 2015 Unleashed
	Further reading	

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)
C1. Learning the basic technologies used to design applications on the .NET platform C2. Software implementation on the .NET platform

4.2. Detailed syllabus (including form of classes)

Lecture:

includes an overview of .NET Framework libraries and classes, discussion of data access methods in ADO.NET technology: .NET Framework Data Providers, Vendor Independent Code, Connection Layer, Connectionless Layer, discussion of the LINQ concept, principles of object serialization, introduction to XML, XAML technologies and principles building web applications in ASP.NET technology: basic and server controls, creating websites websites, discussion of application documentation technologies, technologies for building distributed applications, network services, as well as an overview of the Micro Framework platform and its applications, and SPOT technology.

Laboratory exercises:

includes exercises in the principles of creating applications using .NET libraries, rules of access to data in ADO.NET technology, LINQ, object serialization, building applications in ASP.NET technology and use of technologies for documenting production applications (RUP, MSF)

4.3. Education outcomes in the discipline

Code	A student, who passed the course	Relation to learning Outcomes
within the scope of KNOWLEDGE:		
W01	lists and characterizes the features of the .NET platform	INF1A_W06-08 INF1A_W11-13 INF1A_W17 INF1A_W19 INF1A_W22
W02	characterizes the .NET class libraries and its basic technologies: ADO.NET, ASP.NET, LINQ	INF1A_W06-08 INF1A_W11-13 INF1A_W17 INF1A_W19 INF1A_W22
W03	knows and applies the principles of building applications on the .NET platform	INF1A_W06-08 INF1A_W11-13 INF1A_W17 INF1A_W19 INF1A_W22
W04	characterizes the basic tools supporting design work on .NET platform	INF1A_W06-08 INF1A_W11-13 INF1A_W17 INF1A_W19 INF1A_W22
within the scope of ABILITIES:		
U01	designs interactive applications on the .NET platform using technology ADO.NET, ASP.NET, LINQ	INF1A_U05 INF1A_U07-08 INF1A_U10-12 INF1A_U14-16 INF1A_U21
U02	uses basic IT tools supporting application design utilities on the .NET platform	INF1A_U05 INF1A_U07-08 INF1A_U10-12 INF1A_U14-16 INF1A_U21
within the scope of SOCIAL COMPETENCE:		

4.4. Methods of assessment of the intended learning outcomes

Teaching outcomes (code)	Method of assessment (+/-)					
	Oral answer	Project	Self-study	Group work		

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points
classes (C)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points
project (P)	3	at least 50% and not more than 60% of the total number of available points
	3,5	more than 60% and not more than 70% of the total number of available points
	4	more than 70% and not more than 80% of the total number of available points
	4,5	more than 80% and not more than 90% of the total number of available points
	5	more than 90% of the total number of available points

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload	
	Full-time studies	Extramural studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>		
<i>Participation in lectures</i>	30	
<i>Participation in laboratories/project</i>	30	
<i>Preparation for the exam</i>		
<i>Others</i>		
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>		
<i>Preparation for the lecture</i>	10	
<i>Preparation for the laboratories</i>	25	
<i>Preparation for the test</i>	10	
<i>Gathering materials for the project</i>	10	
<i>Preparation of multimedia presentation</i>		
<i>Others*</i>		
TOTAL NUMBER OF HOURS	115	
ECTS credits for the course of study	5	

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

.....