



<b>Course title</b>	<b>.NET Programming</b>
<b>Institute/Division</b>	Faculty of Computer Science and Mathematics/ Department of Computer Science
<b>Course code</b>	F-1.NET
<b>Erasmus subject code*</b>	11.3 Informatics, Computer Science
<b>Number of contact hours**</b>	45 lecture hours (45h)
<b>Course duration</b>	1 semester (Spring/Fall)
<b>ECTS credits</b>	6
<b>Course description (max 100 words)</b>	This course introduces students to software development using the .NET platform and the C# programming language. Students learn the fundamentals of the .NET ecosystem, including object-oriented programming, application structure, and the use of core .NET libraries. The course covers building modern applications such as console programs, web applications, and basic APIs using .NET tools and frameworks. Students also gain practical experience with debugging, code organization, and development environments. By the end of the course, students will be able to design, implement, and test simple applications using contemporary .NET technologies and best programming practices.
<b>Literature</b>	<ol style="list-style-type: none"><li>1. Price, M. J. C# 14 and .NET 10 – Modern Cross-Platform Development Fundamentals: Build Modern Websites and Services with ASP.NET Core, Blazor, and EF Core using Visual Studio 2026. Packt Publishing, 2025.</li><li>2. Price, M. J. Real-World Web Development with .NET 10: Build Websites and Services using Mature and Proven ASP.NET Core MVC, Web API, and Umbraco CMS. Packt Publishing, 2025.</li><li>3. Microsoft. .NET Documentation. Available at: <a href="https://learn.microsoft.com/dotnet">https://learn.microsoft.com/dotnet</a></li></ol>
<b>Course type/organization</b>	Lectures and computer laboratory
<b>Assessment method</b>	Laboratory exercises and final test
<b>Prerequisites</b>	Basic programming skills in any programming language and knowledge of fundamental object-oriented programming concepts.
<b>Primary target group</b>	2nd and 3rd year students
<b>Contact person</b>	Wojciech Książek
<b>Remarks</b>	

\*please insert one of the following codes:

- 11.0 Mathematics, Informatics
- 11.1 Mathematics
- 11.2 Statistics
- 11.3 Informatics, Computer Science
- 11.4 Artificial Intelligence
- 11.5 Actuarial Science
- 11.9 Others Mathematics, Informatics

\*\*1 lecture hour=45 minutes