

Front-end + .NET programa

Front-end + .NET programa Kurso TEMOS	VAL.	APRAŠYMAS
1. HTML/CSS pradmenys	100	<p style="text-align: center;">HTML-1:</p> Administratori prisistatymas apie program. Introduction to Lecturer; Introduction to Program; Introduction to Deliverables; Introduction to Teaching Methodology; Classroom introductions. <p style="text-align: center;">Online:</p> Introduction to Online Lecturer; Introduction to Program; Introduction to Teaching Methodology; How does a computer work? What are programming languages/how they work? <p style="text-align: center;">HTML-2:</p> Introduction to different programming languages; Front-end vs Back-end; Detailed review of HTML/CSS/JS differences;



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		<p>Demo of HTML/CSS/JS in action, with student repeating all but JS; Delve into differences between HTML/CSS; Introduction to HTML; HTML structure (doctype to head to body); Introduction to HTML syntax (incl. self-closing tags) and basic elements: h1-h6, p, img. HTML/CSS comments;</p> <p>HTML-3: Recap of HTML/CSS differences; Recap of HTML structures; HTML elements: block vs inline; Core HTML elements: h1-h6, div, p, span, img, a. Inline Internal External CSS; CSS Syntax. Simple CSS properties: color, background.</p> <p>HTML-4: HTML: nesting elements; HTML: ul/ol/li; CSS: ID/Class; Basic CSS selectors; HTML: br/hr/strong (inline tipografija); HTML: Box Model; CSS: height/width, margin/padding/border.</p> <p>HTML-5: HTML: div header/main/footer/section/nav; CSS: px/em/rem, hex/rgb; Text Encoding CSS: font-size/weight; CSS selectors: spaces, comma sep... Reset/Normalize;</p>



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		<p>HTML-6: HTML tables; CSS selectors: first-child/last-child...</p> <p>HTML-7: HTML forms and validation.</p> <p>HTML-8: Git + GitHub</p> <p>HTML-9: Flexbox Fundamentals</p> <p>HTML-10: Flexbox Advanced</p> <p>HTML-11: Flexbox Advanced (2)</p> <p>HTML-12: Grid CSS</p> <p>HTML-13: Responsive Websites (Viewport, Media Queries)</p> <p>HTML-14: Mobile-first Design</p> <p>HTML-15: Responsive Practice</p> <p>HTML-16: CSS Frameworks</p> <p>HTML-17: CSS Preprocessors (spec. SCSS)</p>



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2. JavaScript pradmenys	140	<p>HTML-18: Front-End Test</p> <p>HTML-19: Front-End Test</p> <p>JS-1 Introduction to Javascript and its possibilities; Brief history of Javascript (and what is EcmaScript); Variables; Data Types; Comments; Math Operators</p> <p>JS-2 Advanced Math Operators; if-else conditionals; alert()</p> <p>JS-3 Switch; Ternary Operator; Loops (For)</p> <p>JS-4 Loops (While...Do); Loops (While); What is DOM? Basic DOM manipulation (textContent, innerHTML); Selectors</p> <p>JS-5 Functions addEventListener</p> <p>JS-6: Collecting data from user inputs (form submit event)</p> <p>JS-7: Anon Functions; Exc: Recap of getting and setting data with JS</p>



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		<p>JS-8: Exc: Recap of getting and setting data with JS</p> <p>JS-9: Manipulating CSS with JS (object.style).</p> <p>JS-10: Recap of Data Types, more detail into Arrays, Objects. Viewing DOM as an object - properties/methods. Basic DOM properties: e.g. location, document.body, document.forms.</p> <p>JS-11: Creating DOM elements with createElement, append/prepend.</p> <p>JS-12: JS String, Number, Boolean methods</p> <p>JS-13: Review of what is callback? JS callback array methods: forEach, map, filter, find, some, every</p> <p>JS-14: JS callback array methods: sort, reduce.</p> <p>JS-15: Recap of data type methods, practice.</p> <p>JS-16: Basics of creating objects, writing custom methods and calling them.</p> <p>JS-17: OOP pagrindai</p>



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		<p>JS-18: Recap of Arrays, Objects. Practice (exercises) of creating objects, arrays of objects.</p> <p>JS-19: Cookies; LocalStorage</p> <p>JS-20: Sync vs Async; Promises</p> <p>JS-21: REST API principles Fetch GET</p> <p>JS-22: Fetch GET with Arrays and Objects</p> <p>JS-23: Fetch POST</p> <p>JS-24: Fetch GET and POST practice</p> <p>JS-25: Fetch DELETE and other REST methods.</p> <p>JS-26: Fetch Practice</p> <p>JS-27: JS Fetch methods with Postman</p> <p>JS-28: JS modules</p> <p>JS-29: TEST</p>



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3. Objektinis programavimas su „C#“ („.NET“)	100	JS-30: TEST Kintamieji ir jų tipai; Sąvokos ir reikšmės; If sąlyga ir boolean; Masyvai ir ciklai; Funkcija ir funkcijos parametrai; Funkcija ir return type.
4. Duomenų bazių analitika	60	1. Įvadas MSSQL duomenų bazės; Praktinis duombazių pritaikimas; Pavojingos situacijos; MSSQL praktika; DB Mapper ir Entity framework; Advanced data access; 2. Duomenų bazių kūrimas/Database development; JDBC tvarkyklės, funkcijos; ORM; Hibernate įvadas.
5. Programavimo aplinkos ir kūrimo proceso valdymas ir versijų kontrolė	60	Projekto analizė; Tinkamiausių įrankių problemai spręsti pasirinkimas; Programos rašymas; Versijų kontrolė (naudojant GIT); Testavimas; Dokumentavimas; Palaikymas
6. Baigiamasis projektas	20	Laikas skirtas baigiamojo projekto įgyvendinimui.
Iš viso:	480	