

Students

15-55
Years old

Development

and promotion

of WEB-PROJECTS

754 academic hours
total for the course

1 year course
duration

368 academic hours
classroom studies

368 academic hours
Independent work

Introduction to web development course

- Course subjects.
- Sequences and priorities.

Introduction to Technology Basic concepts

- Network structure.
- Technology principles client-server.
- Basic concepts: domain name, ip address, dns, internet provider, server, url.
- http, https, ssh and ftp protocols.
- Working with search engines.

Design and build websites

- Communication with the client.
- Creation of terms of reference.
- Design Prototyping.
- Design creation.
- Design layout.
- Programming.
- Filling.
- Seo optimization and promotion.
- Examples of a test task.

Introduction to Photoshop. Selections and Fills

- Raster and vector images.
- Photoshop Tool Palette.
- Image formats for web. Optimization.

Working with layers. Brush tool. Work with text

- Layers palette. Creation, deletion, duplication. overlay effects, transparency.
- Tools.
- Work with text.

Transformation. Layer effects. Masks

- Transformation tools.
- Selection transformation.
- Layer effects. Copy and deleted effects.
- Quick mask. Layer mask. Clipping mask.
- Working with vector tools. Rasterization of vector layers.

EXAM

Usability

- Fundamentals Key concepts: efficiency, memorability, errors, etc.
- The main problems of sites.

Structure of html

- Hypertext markup language html.
- Tags and their attributes.
- Syntax differences between htm14 and xhtml.
- Page encodings and «meta tags».

About Formatting text with using html

- Tag classification.
- Text formatting model.
- Colors in web.

Formatting with css

- CSS — Cascading Style Sheets.
- Tags without formatting <div>, .
- Comparison of HTML and CSS by Example line and block tags.
- Using the class and id attributes to set styles.
- Using External CSS Files styles.

About Lists

- Creation. Formatting.
- Definition lists: <dl>, <dd>, <dt> elements.
- Manage padding and margins.

Graphics in web design. Graphics optimization

- Graphic file formats in internet.
- Ter and its attributes.
- Background property.

Hyperlinks. Principles website navigation

- Absolute and relative addressing. Menu creation.
- Display property. CSS property cursor.
- Pseudo-classes. Pseudo elements.

Layout of web pages with tables

- Creating a table. Properties.
- Structuring tags.
- Creating a table with css.

Layout of web pages in blocks

- Block layout basics. Layout Rules.
- Consideration of the simplest structures pages and elements.
- Visibility, overflow properties

About forms. Positioning

- Forms. Basic concepts.
- The position property.

layout of web pages in blocks using positioning

- Basics of layout using positioning.
- Properties static, absolute, fixed, relative.

Creating pages using HTML5 and CSS3

- The structure of an HTML5 document.
- HTML5 is a competitor to flash (review).
- New form elements. Placeholders.
- New properties: CSS3.
- Consideration of new API for management data on the page.
- HTML5 specification ready.
- Ready for HTML5 browsers.

Creating an adaptive Layouts

- Using @media for responsive layout. Implementation examples.
- Using the viewport to properly display the site on mobile devices.

EXAM

Introduction in programming

- Basic concepts: program language learning, types of languages, interpreter, algorithm
- What is JavaScript.
- ECMAScript Syntax.
- Embedding JavaScript HTML code.
- Comments. Variables. Operators.
- Arithmetic, string, bitwise, logical and other operators.
- Operator priorities.
- Data type conversion.

The if .. else conditional operation. Nested conditional operation. Switch operation

- The concept of the block diagram of the algorithm.
- If ... else operation.
- Switch selection operation.

Do ... while, while, for Nested Cycles

- The concept of a cycle. The need to use cycles.
- While, do ... while, for cycles.
- Break continue operation.

DArrays as a type of storage information

- Standard tasks on arrays.
- Sorting algorithm.
- The concept of two-dimensional multidimensional arrays.

Functions

- Function arguments.
- Return values.
- Function as a variable.
- Anonymous functions.
- Recursion.

Objects

- Object constructors.
- Arrays and strings as objects.
- Prototypes.

Date and time. Mathematical functions

- Regular expressions.
- Math functions.
- Exceptions.
- Exception Handling.

Introduction to client JavaScript. Structure

- Compatible Client JavaScript.
- Cross-browser.
- DOM document structure.
- Global elements in the DOM tree.
- Finding elements in the DOM tree.
- Document navigation.
- Node manipulation: creation, removal and relocation.

Events in JavaScript. Event handlers

- Writing JavaScript code.
- Events in JavaScript.
- Mouse and keyboard events.
- Form events.
- load events.
- A brief overview of the event object.
- Pop-up, standard events.

The global Window object. Cookies

- Window object.
- Methods alert, confirm, prompt.
- Methods setInterval, setTimeout, clearInterval, clearTimeout.
- Location, history, navigator objects.
- Working with cookies.

EXAM

Search by selectors, filtering and element traversal cops

- Introduction and general information.
- Selectors.
- Filtering and bypassing elements.

Events. effects and animation

- Events: on, live, bind, delegate, one, trigger.
- Methods: each, map, hide, show, toggle, finish, queue, stop, fadeIn, fadeout, fadeTo, fadeToggle, slideDown, slideToggle, SlideUp.

Attributes and css. Manipulation with elements and BOM dom tree

- Sizes and classes.
- Element manipulation.

Ajax

- Working with AJAX.

Plugins. Kernel functions

- Plugins for jquery.
- Creating your own plugin.
- Kernel functions.

EXAM

History of RNR. Installing and configuring the server

- History of RNR.
- Differences between server-side and client-side web programming
- Installing and configuring the apache a windows web server.
- PHP syntax. Setting directives.
- Comments in php scripts (/* */, /1, #).
- Variables and statements php.
- PHP Control Structures.

Strings, arrays and functions

- Strings and arrays in php.
- Features of the structure of arrays.
- Php custom functions.
- Creation of libraries of functions.
- Inclusion structures.

CGI and HTTP interface. Working with

- Forms Client-server architecture.
- CGI principles and the HTTP protocol.
- HTTP response statuses.
- Headings.
- The superglobal array \$server.
- Handling query parameters.
- Superglobal arrays.
- HTML form elements. Transfer Methods giving data: get and post.
- Form and its handler in one scenarios.

File system

Saving user information

- Cookie mechanism. Session mechanism

About an introduction to object-oriented programmed programming in PHP

- Classes in PHP. Pseudo variable \$this. The pseudo-constant self.
- Static properties and methods.
- Declaring constants within classes using the const keyword.
- Constructors and destructors.

Alnheritance and encapsulation in PHP

- Inheritance. Encapsulation.
- Prevent class redefinition of final classes.
- Abstract classes and methods.
- Belonging to the instance of class.
- Object interfaces.
- Magical methods.
- Functions for working with classes.
- Errors and exceptions.

Design patterns. Singleton, mvc

- Basic principles.
- Singleton. Mvc. Working with xml.
- Functions for working with json.
- Php post capabilities.
- Working with http. Output buffering.

EXAM

The concept of a database

- Database and system concepts management.
- Mysql. Types of connections, structures.
- Relational database principles.
- Conceptual transformation models to relational.

Creating a database and tables

- Working with MySQL. Basic requests.
- Creating mysql tables.
- Insertion, selection, grouping of data.
- Consolidation of requests.
- Aggregation functions.

Aggregation functions,Editing, updating data and deletion

- Changing the structure of a table.
- Modifying row data.
- Working with MySQL through PHP.

History. Core Files and folders unix

- History, versions and main characteristics UNIX OS.
- Users and groups.
- Files and directories.

File and logical systems. Processes

- Structure and properties of file systems.
- File system management.
- Process management.

Working with text files. Command interpreter

- Text processing tools.
- Command interpreter.

EXAM

SEO promotion

- Types, parameters of search engines.
- SEO and website promotion. Types of SEO.
- The concept and types of web marketing.
- Ranking factors.

Search algorithms

- Google. Basic Algorithms and Filters. «Google Zoo».
- Yandex. Basic Algorithms and filters «Yandex-cities».
- Unusual search filters systems.

Semantic core of the site

- The concept of the semantic core.
- Free and paid methods for collecting semantics.
- Structuring and breakdown.

Site audit

- Types of audits.
- Website technical audit.
- Content check.
- SEO audit. SMM audit. Usability audit.
- Audit of competitors.

Webmasters and analytics. Context. External optimization

- Tracking the situation with help of webmaster.
- Analysts of visitors and their behavior.
- Contextual advertising and its types.
- Link types. Types of exchanges. Purchasing of links.
- Work-use social networks.

EXAM

About introduction to CMS. Installation of CMS Drupal

- Difference between CMS Drupal and Framework.
- SMS types: free and paid.
- Pros and cons of CMS.
- Popular SMS.

About installing Drupal and modules

- Installation. Drupal admin panel. Basic tabs.
- Drupal modularity.
- Installing and configuring the tempo. Drush.

Working with users and materials. Essences of Drupal

- Drupal entities.
- Working with materials.
- Working with users.
- Additional field modules.

Additional setting materials

- Classification of materials.
- Link to material.
- Displaying pictures.
- Path synonyms.
- CKEditor.

Additional pages. Sample from the database

Blocks, menus, site backup

Create your own design themes

- Parsing the mytheme.info file.
- Overview of theme files template.php, logo, png, screenshotpng, favicon.ico.
- Function of core Drupal url, 1, t, path_to_theme, base_path, drupal_add_css, drupal_addjs, drupal_grt_path, drupal_goto, drupal_html_class, drupal_not_found, drupal_access_denied, format_date, format_internal.
- Representing HTML as arrays.
- Theme and render function.

Template.php file and preprocessors

- Installing the devel module. dsm operation.
- Creating your own functions in template.php.
- Preprocessor function (template_preprocess_node, template_preprocess_page, template_preprocess_html).

Create your own module. Hooks

- The concept of HOOK.
- Hook examples.
- Creating pages with hook_menu.

Create Forms

- Create your own forms.
- Redefining forms.

Temization. Working with Ajax

- Using AJAX in forms.
- Create your own templates via hook_theme.

EXAM

AT THE END OF THE COURSE THE STUDENT WILL:

- Create web-projects from scratch: from the creation of technical specifications to software implementation and promotion.
- Create websites that are in demand on the market, including portals and online stores.
- Work with basic knowledge of web design. Use Frontend development with HTML+CSS, JavaScript, jQuery
- Create your own projects on PHP and CMS. Set up a web server and host sites on the Internet.

23

years on the market

200+

branches

4,8

average rating

2 800

lectures

72 000+

students

1 000+

reviews

Philippines:

11th Drive, corner 9th Ave, unit 1214,
Taguig, NCR phone 02 70057853

Malaysia:

A2-6-3, Soho Suites KLCC, 20 Jalan
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Suleymanpaşa street, building: 2-4,
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Antalya, Muratpaşa district, Kışla
neighborhood, 45. Street, Building
number: 20 Door number: 101-102
02422550269

Mersin, Mezitli, Atatürk district.
31087 street. 2/A
03245033001

Bursa, Fethiye neighbourhood,
Alev(240) Street, Corner Plus business
center site Corner Plaza no: 10 inner
door 70 Nilüfer
02243220704

*data is valid
as of the beginning of 2024