Изображение выглядит как Шрифт, текст, снимок экрана, Графика

Автоматически созданное описание

**APPROVED**

**by Dean of Shcool**

**Imanbayev A.Z.**

**«2» September 2024**

**SYLLABUS**

Academic Year 2024

Semestr 1

**Discipline:** *JS Framework Vue*

**Volume of credits:** 3

**Course/Syllabus designer:** *Em T.O.*

|  |  |
| --- | --- |
| **Instructor’s e-mail** | t.em@kbtu.kzz |
| **Class Schedule** | Saturday (6 hours) |
| **Office Hours** | Saturday (2 hours) |
| **Office** | 272 |

**1. Course Overview**

Learning the principles of programming JavaScript and the framework on Vue JS. Learning the principles of frontend programming based on Vue JS using HTML, CSS and JS.

Prerequisites:  *Official documentation of the framework*

Postrequisites: *Project assignment*

**2. Aims and objectives**

Training in the VUE JS framework with the aim of preparing students for the possibility of developing on the Frontend. The priority task is to study the JavaScript language in depth and create your own project using this language.

**3. Learning outcomes**

Repetition of the studied material and consolidation of the check by means of practical tasks. Preparation of understandable material including: diagrams, images, parts of the code structure and syntax of the language. Explanation based on real solutions.

**4.Textbooks and readings**

**Primary textbook**

[**https://vuejs.org/guide/introduction.html**](https://vuejs.org/guide/introduction.html) **- Official documentation**

[**https://www.w3schools.com/vue**](https://www.w3schools.com/vue) **- Additional documentation from W3School**

[**https://www.tutorialspoint.com/vuej**](https://www.tutorialspoint.com/vuej) **- Practice explanation from Tutorialspoint**

**Supplementary textbooks**

[**https://dl.ebooksworld.ir/motoman/fullstack-vue-book-r8.www.EBooksWorld.ir.pdf**](https://dl.ebooksworld.ir/motoman/fullstack-vue-book-r8.www.EBooksWorld.ir.pdf) **- How to be Fullstack in Vue JS?**

[**https://riptutorial.com/ebook/vue-js**](https://riptutorial.com/ebook/vue-js) **- Learning Vue JS (Fundamentals)**

**5. Lesson Program**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** | **Classes** | | | | |
| **Topic** | **Lecture** | **Laboratory** | **Tutorial** | **Textbook Chapter** |
| 1 | Introduction in JavaScript and JS Framework Vue | 2 | 1 | 2 |  |
| 2 | Understanding of Vue JS (Lifecycle hooks, Virtual DOM-model, Template) | 2 | 1 | 2 |  |
| 3 | Vue components, computed properties, conditional rendering | 2 | 1 | 2 |  |
| 4 | Custom components with v-model and custom directives | 2 | 1 | 2 |  |
| 5 | Data binding and events | 2 | 1 | 2 |  |
| 6 | Mixins and modifiers | 2 | 1 | 2 |  |
| 7 | **Props, slots, dynamic components** | 2 | 1 | 2 |  |
| 8 | **VUEX and Vue-route** | 2 | 1 | 2 |  |
| 9 | Mutation, state and getters in advance | 2 | 1 | 2 |  |
| 10 | How to use plugins and libraries | 2 | 1 | 2 |  |
| 11 | How to use Vue for transitions and animations | 2 | 1 | 2 |  |
| 12 | Directives | 2 | 1 | 2 |  |
| 13 | Rendering functions | 2 | 1 | 2 |  |
| 14 | Webpack in Vue JS | 2 | 1 | 2 |  |
| 15 | Reactive interface | 2 | 1 | 2 |  |

**6. Course Requirements and Grades**

**COURSE ASSESSMENT PARAMETERS**

|  |  |
| --- | --- |
| Attendance | 5 % |
| Activity on lessons | 15 % |
| Midterm/endterm | 40 % |
| Final exam | 40 % |
| **Total** | **100 %** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Assessment criteria** | **Weeks** | | | | | | | | | | | | | | | | **Total** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **1617** |
| 1. | Attendance  has to be more than 80% | | | | | | | | | | | | | | | | | |
| 2. | Activity on seminars and homework | 2 | 5 |  |  |  | 5 |  | 3 | 5 |  | 3 |  | 3 |  | 3 |  | 29 |
| 4. | Quizes and mid/end-terms |  |  | 3 |  | 3 |  | 8 |  |  | 3 |  | 3 |  | 3 |  | 8 | 31 |
| 5. | Final  examination |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 | 40 |
|  | Total | 60 | | | | | | | | | | | | | | | 40 | 100 |

**Grading policy:**

**Understanding the general course material through oral and written assessment of the student**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade** | | **Achievement percentage** | **Assessment criterion** |
| «Excellent» | А | 95-100% | This grade is given when the student:  demonstrated a complete understanding of the course material;  did not make any errors or inaccuracies;  completed control and laboratory work in a timely and correct manner, and submitted reports on them;  demonstrated original thinking;  submitted control quizzes on time and without any errors;  completed homework assignments;  engaged in research work;  independently used additional scientific literature in studying the discipline;  was able to independently systematize the course material. |
| А - | 90-94% |
| «Good» | В+ | 85-89% | This grade is given when the student:  Has mastered the course material at no less than 75%;  Did not make gross errors in responses;  Timely completed control and laboratory work and submitted them without fundamental remarks;  Correctly completed and timely submitted control tests and homework assignments without fundamental remarks;  Utilized additional literature as indicated by the instructor;  Engaged in research work, made non-fundamental errors, and fundamental errors corrected by the student themselves;  Managed to systematize the course material with the help of the instructor. |
| В | 80-84% |
| В- | 75-79% |
| С+ | 70-74% |
| «Satisfactory» | С | 65-69% | This grade is given when the student:  Has mastered the course material no less than 50%;  Required assistance from the instructor when completing control and laboratory work, homework assignments;  Made inaccuracies and non-fundamental errors when submitting control tests;  Did not demonstrate activity in research work, relied solely on the educational literature indicated by the instructor;  Experienced more difficulty in systematizing the material. |
| С- | 60-64% |
| D+ | 55-59% |
| D | 50-54% |

**7. General Rules**

**Academic Integrity**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Checking the student's knowledge throughout the course. Consolidation of the material by completing tests and practical assignments in lectures and laboratory classes. Overall assessment of the student by completing a project assignment on a given topic.**

**Academic Policy**

KBTU standard academic policy is used.

- Cheating, duplication, falsification of data, plagiarism, and crib are not permitted under any

circumstances!

- Attendance is mandatory.

**Attention**. Missing 30% attendance to lessons, students will be taken from discipline by

filling in F (Fail) grade.

Students must participate fully in every class. While attendance is crucial, merely being in class

does not constitute “participation”. Participation means reading the assigned materials, coming to

class prepared to ask questions, and engage in discussion.

**- Quizzes will be held every three to four weeks. Be ready for offline activities at KBTU. The**

**exact date and time will be announced beforehand.**

**- For the whole duration of the semester MS Teams is used as the main communication tool.**

**Read channels, teams, and messages daily.**

- Students are expected to take an active role in learning.

- Appellation for the quiz (exam/test or other scoring activity) has to be done within 24 hours after

the quiz

5

- During quizzes students must be able to setup the working environment by themselves, it’s a part

of the quiz by default (i.e students have to know how to work with pure VS Code and you must use Vue.js framework when you writing code)

- Written assignments (independent work) must be typewritten or written legibly and be handed in

time specified. Late papers are not accepted!

- Students must arrive to class on time.

- Students are to take responsibility for making up any work missed.

- Make up tests in case of absence will not normally be allowed.

- Mobile phones must always be switched off in class.

- Students should always be appropriately dressed (in a formal/semi-formal style).

- Students should always show tolerance, consideration and mutual support towards other students.