Minimal requirements for interns: JS

Basic CS principes:

1. Version control (Git or SVN) https://git-scm.com/book/ru/v2
2. Recursion https://habr.com/ru/post/337030/
3. Closure https://developer.mozilla.org/ru/docs/Web/JavaScript/Closures
4. Command line basics https://ru.hexlet.io/courses/bash (бесплатный курс)
5. HTTP basics https://developer.mozilla.org/ru/docs/Web/HTTP

JS CORE:

1. Data types https://developer.mozilla.org/ru/docs/Web/JavaScript/Data_structures
2. Ways to declare a variable and differences between them
   https://habr.com/ru/company/ruvds/blog/420359/
3. Types casting https://learn.javascript.ru/types-conversion
4. Comparisons https://learn.javascript.ru/comparison
5. Conditional and logical operators https://learn.javascript.ru/logical-ops
6. Functions and ways to declare it. Functional expression
   https://learn.javascript.ru/es-function
7. Scope https://developer.mozilla.org/cs/docs/Web/JavaScript/Reference/Functions
   (Относится и к 6)
8. Error handling
   https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Statements/try...catch
9. Strict mode
   https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Strict_mode
10. Arrays and array methods
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Global_Objects/Array
11. Objects and methods of object
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Global_Objects/Object
12. Constructor, "new" operator
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Operators/new
13. Prototype: inheritance, methods
    https://developer.mozilla.org/ru/docs/Learn/JavaScript/Объекты/Object_prototypes
14. Classes, class based syntax, three pillars of OOP, class checking
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Classes
15. Ways of handling asynchronous operations: callbacks, promises, async functions.
    Concepts of callback hell, promisification, event loop
    https://blog.hellojs.org/asynchronous-javascript-from-callback-hell-to-async-and-await-9b9ceb63c8e8 (статья пушка, куча линков на мдн)
16. Generators concept
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Statements/function*

17. Modules, import/export
    https://developer.mozilla.org/ru/docs/Web/JavaScript/Reference/Statements/import
    https://learn.javascript.ru/modules
18. Network requests: fetch, xhr
    https://developer.mozilla.org/ru/docs/Web/API/Fetch_API
    https://developer.mozilla.org/ru/docs/Web/API/XMLHttpRequest

Browsers: DOM, BOM, Events

1. DOM tree https://developer.mozilla.org/ru/docs/DOM/DOM_Reference/Введение
2. Searching in DOM
   https://developer.mozilla.org/ru/docs/Learn/JavaScript/Client-side_web_APIs/Manipulating_documents
3. Attributes and properties of element
   https://developer.mozilla.org/ru/docs/Web/HTML/Element
4. Size and scrolling, coordinates http://learn.javascript.ru/onscroll
   https://learn.javascript.ru/metrics
5. Browser events: bubbling, capturing, default actions
   https://learn.javascript.ru/event-bubbling
   https://learn.javascript.ru/default-browser-action
6. Forms: form properties, form events, submit without JS
   https://developer.mozilla.org/ru/docs/Learn/HTML/Forms (ссылки тут, пошаговый гайд)
7. BOM, BOM objects, concepts https://metanit.com/web/javascript/7.1.php (весь раздел)