Java & QA Automation (30 h)

1. **Java - 14h**

a. Configuring the working environment
b. Creating the first Java program
c. Variables and primitive data types
d. If-else block structures
e. Loops – for
f. Loops – while
g. Loops – do-while
h. Object-Oriented Programming (OOP)
i. Classes
j. Fields
k. Constructors
l. Methods
m. Return values
n. Strings
o. Arrays
p. Inheritance
q. Encapsualtion
r. Abstraction
s. Polymorphysm
t. Generic Types, Collections and Maps
u. Exceptions
v. Introduction to Design Patterns

2. **Junit and TestNG 2x3h = 6h**

3. **Selenium WebDriver 2x3h = 6h**

   a. Locators
   b. XPath good practices for creation (id, CSS, etc)
   c. WebDriver
   d. Page Object Model
   e. Lazy Loading
   f. WEB driver manager
   g. Page factory
   h. Reporting frameworks

4. **CI/CD DevOps best practices 2h**

5. **Testing Web APIs - 2h**