### Course Name

Web Applications Development in .NET technology

### Course Code

FCS-00003

### Degree level and programme type

Engineer’s degree full-time programme

### Entry requirements

The goal of the subject is to learn students how to use .NET technology for creating web applications.

### Course content

- ASP .NET architecture.
- HTML controls.
- Life-cycle of web page.
- Session management.
- Data validation.
- Mechanisms and controls supporting web applications design.
- Databases access methods.

### Teaching methods

- Lecture.
- Problem solving.
- Programming.

### Assessment method

- Lecture - two writing tests
- Practical exercises - project implementation

### Learning outcomes

- **LO1**: understands chosen parts of ASP.NET architecture
  - Reference: K_W09
- **LO2**: describes usage of chosen web server controls
  - Reference: K_W09
- **LO3**: implements web applications using .NET technology
  - Reference: K_U09
- **LO4**: knows how to use relational database in ASPX .NET applications
  - Reference: K_U07

### Reference to the learning outcomes for the field of study

**K_W09**: Knowledge of web server controls

**K_U09**: Understanding of web server controls

**K_U07**: Understanding of relational database in ASPX .NET applications

### Methods of assessing the learning outcomes

- **LO1**: written test
- **LO2**: written test
- **LO3**: implemented projects
- **LO4**: implemented projects

### Calculation

1. Presence during lectures - 15 x 2h
2. Presence during practical exercises - 15 x 2h
3. Preparation to practical exercises - 10 x 2h
4. Documentation for the project and homeworks for practical exercises -
5. Presence during practical consulting hours - 5 x 1h
6. Preparation to writing test -

### Total:

**150 HOURS**

### Student workload (in hours)

**70**

### Student workload - activities that require direct teacher participation

- **LO1**: written test
- **LO2**: written test
- **LO3**: implemented projects
- **LO4**: implemented projects

### No. of ECTS credits

**6**

### Supplementary references

1. V. Pecanac, Ultimate ASP.NET Core 3 Web API, 2020

### Basic references

1. A. Freeman, Pro ASP.NET Core MVC 2, Apress, 2017
2. A. Freeman, Pro ASP.NET MVC 5, Apress, 2013
3. I. V. Pecanac, Ultimate ASP.NET Core 3 Web API, 2020

### Date of issuing the programme

Feb. 17, 2022

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L - lecture, C - classes, LC - laboratory classes, P - project, SW - specialization workshop, FW - field work, S - seminar