DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Development of Web Applications				
Study programme	**Professional undergraduate study Information Science**				
Status of a course	Obligatory				
Year of study	3	**Semester (Winter/Summer)**	W	**ECTS credits**	5

Goals of a course

Acquiring knowledge of basic web technologies (HTML, CSS, Javascript) and communication protocols, and acquiring competencies for web site development and implementation.

Conditions for enrolling course

No conditions

Learning outcomes on a level of a study programme which includes course

Outcome 2: Apply business information system design methods.
Outcome 4: Develop an application solution for the Internet and desktop environment.
Outcome 5: Apply web site design and implementation methods.
Outcome 6: Apply appropriate business information system protection techniques.
Outcome 7: Design and produce digital multimedia materials needed in business systems.
Outcome 12: Apply engineering methods and principles in information science.
Outcome 14: Participate in teamwork.
Outcome 15: Independently present professional content in written and spoken form in Croatian and English.

Expected learning outcomes on a level of a course

1. Analyse the features of a web document, web application, web site
2. Interpret communication via a global network.
3. Apply and document the basic principles of building the client portion of a web site
4. Apply and document the basic principles of the development and building the server portion of a web site
5. Prepare a website for online publication

Content of a course

Concept of a Web page and applications. Web page design and development. Organization and content of the Web. Development of a Web application. Process of creating a Web publication. Using Web servers. Using relational bases in Web applications. Web system security and controlling the access to the server and performances. Developing Web interaction and data integration. Web expansion. Optimization of the Web server. Security filters. Releasing content on the Web. Visibility of Web pages when browsing. Tools for advancing Web pages. Back office integration. Exercises are carried out in groups of students. Single Web pages are designed as well as complete applications.

Teaching modes	☒ lectures ☐ auditory exercises ☒ seminars and workshops ☐ distance learning ☐ field classes	☒ individual assignments ☐ multimedia and network ☐ laboratory ☐ supervisor's work ☐ other _____

Grading, evaluation and monitoring of students' work continuously during lectures and exams

Grading is based upon evaluation course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.