Basic data of the subject	
University:	**University of Applied Sciences in Ferizaj**
Academic unit:	**Faculty of Engineering and Informatics**
Program:	**Applied Informatics**
Title of the subject:	**Introduction to Web technologies**
Level:	**Bachelor**
Course Status:	**Obligatory**
Year of studies:	**I, Semester II**
Number of hours per week:	**3**
Value of Credits - ECTS:	**5**
Time / location:	**203**
Course lecturer:	
Contact details:	
Course Description:	*The course provides students with the basics of website development using HTML5 for web page structure formation, CSS3 for style and JavaScript for dynamics. Students learn how to properly create the structure of their webpage to ensure their website is responsive to different devices. Furthermore, they practise selecting suitable font types and colours, creating forms and simple elements of dynamics to animate the website. At the end of the course, students are provided with information on content management systems. Then students compare a few most popular content management systems and practise working with WordPress content management system. Practical activities of the course develop students' practical skills in performing the assigned tasks and developing their own project, namely their website.*
Objectives of the course:	*The purpose of the study subject is to teach students to create a simple, yet properly-designed website using HTML5 for structure formation, CSS3 for style and JavaScript for dynamics. At the end of the course, students learn to create a website using 'WordPress' content management system.*
Expected learning outcomes:	*Upon successful completion of this course, student will be able to:* • *Explain the main functions, purpose and possibilities of web page development technologies, such as HTML, CSS, XML and JavaScript.* • *Name the possibilities, advantages and disadvantages which popular content management systems, such as "Joomla", "Drupal", "ImpressPages", and "WordPress" provide.* • *Name the principles of web page usability.* • *Understand the graphical composition of design objects and the visual effect of graphical elements.*

	• *Manage to create an HTML5 and CSS3-based website which is simple, but well-structured and responsive to mobile devices.* • *Manage to create simple elements of web page dynamics using JavaScript programming language.* • *Use "WordPress" content management system and adapt a non-standard appearance template (theme).* • *Individually study the visual material and analyze the examples.* • *Develop time management skills.*
Prerequisites:	*Have basic computer and internet knowledge*

Contribution to the student load (which must correspond with learning outcomes)			
Activity	**Hour**	**Day/Week**	**In total**
Lectures with numerical exercises	3	15	45
Internship			
Contacts with teacher / consultations			
Field exercises			
Midterm, seminars and projects.	3	2	6
Homework			
Self-learning time student (at the library or at home)	3	15	45
Final preparation for the exam	7	2	14
Time spent on evaluation (tests, quiz and final exam)			
Projects and presentations.	3	5	15
Total			**125**

Teaching methodology:	*Lectures and exercises combined with case studies and class discussions, as well as active collaboration in student teams*
Assessment methods:	*The student can choose to be assessed one of the two forms of assessment, given below:* *1. Form 1: Evaluation with two tests and the Project* *2. Form 2: Evaluation of the final exam.* ***Form 1:*** *In the first form of assessment "Assessment with two tests and project" the student is assessed in four activities that are carried out during the lectures:* *1. Test 1 (30%), individual assessment* *2. Test 2 (30%), individual assessment* *3. Class activity (10%), individual assessment* *4. Project (30%), group assessment.*

	Additional clarification: *If the student in each activity above reaches the maximum points, then he will be evaluated with 100 points.* *Students who pass the exam according to Form 1 of the assessment, are released from the obligation to take the final exam. Only if the student is not satisfied with the grade achieved according to form 1, then he can undergo the final exam to obtain a higher grade.* ***Form 2:*** *In the second form of evaluation, "Evaluation with the final exam", the student will undergo the exam which will be held after the end of the course lectures and is organized in the exam deadlines, determined by the University Senate.* *Through the final exam, the student can achieve a maximum of 70% of the points from the total of 100 points.* *The rest of the 30% points must be completed through group work on the Project, an activity carried out during the lectures.* *In Test 1, Test 2, and the final exam, the evaluation of the students will be done through an evaluation form, which must be completed individually by the student. The evaluation form will contain objective and subjective questions through which the student's learning outcomes will be evaluated:* • *The objective questions will be of the following types: (1) Multiple choice questions, (2) True/False, (3) Completion, and (4) Composition/Matching; questions that will be used to assess the student's abilities to recall and recognize the concepts and material of the course.* • *The subjective questions will be of the Essay/written task type that will be used to assess the student's understanding and abilities to apply the knowledge gained in the analysis, synthesis, and evaluation of the problem, from the answers prepared by the student to the question of submitting.* *Activity in the class means the student's engagement in dealing with the issues discussed in the class, during the lectures* *Project (30%), group assessment: it is an activity in which students apply the acquired knowledge in a concrete project. It*

	is carried out in groups of 2 or 3 students who are obliged to carry out the activity, document it, and present it to the subject professor. *For the form of realism and documentation of the activity, all members of the group will be evaluated with the same point (20%), while the evaluation of the presentation skills of the activity is individual and includes 10%.* ***Rating:*** *91-100 points – graded 10 (ten)* *81-90 points – graded 9 (nine)* *71-80 points – grade 8 (eight)* *61-70 points – grade 7 (seven)* *51-60 points – grade 6 (six)* *0-50 points – The student repeats the exam*
The ratio of theory and practice:	*70% theory with exercises and 30% laboratory work.*
Literature	
Basic Literature:	1. *"Internet and World Wide Web How To Program", (5th Edition) by Harvey & Paul) Deitel & Associates (Author), Harvey Deitel (Author), Abbey Deitel (Author), (2012)*
Additional Literature:	2. *J. N. Robbins (2012). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics. O'Reilly Media; 4 edition. 624 p.*
Designed learning plan	
Week:	**Lectures and exercises to be held**
Week one:	*Internet. HTML & XHTML.*
Week two:	*Typography.*
Week three:	*Color scheme.*
Week four:	*Website structure and usability.*
Week five:	*Website basics (HTML).*
Week six:	*CSS basics.*
Week seven:	*Test 1*
Week eight:	*Layout and positioning.*
Week nine:	*Menu design.*
Week ten:	*Forms. HTML5 & CSS3 additional opportunities.*
Week eleven:	*JavaScript basics.*
Week twelve:	*JavaScript basics.*
Week thirteen:	*Content Management Systems.*
Week fourteen:	*Content Management Systems „WordPress“.*
Week fifteen:	*Test 2*
Academic policies and rules of conduct	
Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode	