Basic data of the subject	
Academic unit:	**Faculty of Engineering and Informatics** **Applied Informatics**
Title of the subject:	**Introduction to Web technologies**
Level:	**Bachelor**
Course Status:	**Obligatory**
Year of studies:	**I**
Number of hours per week:	**3**
Value of Credits - ECTS:	**5**
Time / location:	
Course lecturer:	**Prof.Ass.Dr.Fakije Zejnullahu**
Contact details:	Fakije.zejnulahu@ushaf.net
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 (TVS). Then students compare a few most popular TVS 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.*

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:	*The course takes 15 weeks with 2 hours of lectures and 2 hours weekly individual and group exercises.* *Exercises will be held in the form of individual and group work in which concrete examples will be discussed.* *Active participation is extremely important so students are encouraged to attend lectures and exercises regularly and contribute to the discussions that take place in lectures. Lectures, exercise, individual work, discussions and group work.*
Assessment methods:	*Test 1, Test 2, Attendance and Activity.* *Final exam: 100%*
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	