

Course Title	Web Technology				
Course Code	MIS111				
Course Type	Compulsory				
Level	BSc/1st Cycle				
Year / Semester	1 st /2 nd				
Teacher's Name	Eftychia Xerou				
ECTS	7.5	Lectures / week	3 hours	Laboratories / week	2 hours
Course Purpose and Objectives	To acquaint students with the basic concepts of the Internet and the World Wide Web, to understand their usefulness and to be able to design, develop and maintain Web applications using the respective technologies.				
Learning Outcomes	<p>Upon completion of the course, students will be able to:</p> <ul style="list-style-type: none">• Recognize the theoretical aspects of the Internet as a platform for web-based systems• Recognize modern web-based architectures and features of modern Web Servers.• Identify how networking systems can help as a strategic asset to businesses and organizations.• Recognize the relative design of web-based systems.• Recognize methods of evaluating the usability of Internet systems.• Identify the basic concepts of Service Oriented Architecture technology and its applications.• Recognize the features of the Semantic Web.				
Prerequisites	-	Required	-		
Course Content	<p>Introduction</p> <p>The History of the Internet and the World Wide Web. Basic concepts of the Internet</p> <p>Worldwide web</p> <p>Fundamental Technologies and Architecture of the World Wide Web. Web protocols.</p> <p>Website Design</p> <p>Website development methods and principles</p> <p>Security</p> <p>Introduction to Internet security concepts.</p> <p>Usability</p> <p>Usability on the Web. Usability evaluation methods.</p>				

	<p>Efficiency in organizations and businesses</p> <p>How the internet can be used to improve the performance of organizations and businesses. Applications: Electronic Commerce</p> <p>Advanced topics</p> <p>Semantic Web technologies, Web Services and how they can be used in organizations and businesses.</p>
Teaching Methodology	<p>Lectures 42 hours</p> <p>Labs 30 hours</p>
Bibliography	<p>Moseley Ralph, Developing Web Applications, Wiley, 2007</p> <p>Douglas Van Duyne et al, The design of sites, Prentice Hall, 2007</p> <p>Michael Papazoglou, Web Services: Principles and Technology, Pearson, 2007</p>
Assessment	<p>Final Exam 60%</p> <p>Assignment 20%</p> <p>Mid Term 20%</p>
Language	English