

<b>Subject</b>	<b>Modern Information Technology</b>			
	<b>Type</b>	<b>Semester</b>	<b>ECTS</b>	<b>Code</b>
	ELECTIVE (E)	1	5	
<b>Aims and Objectives</b>	<p>The purpose of the course "Modern Information Technology" at the master's level is to provide students with an in-depth and specialized understanding of information and communication technologies (ICT), preparing them to understand and apply advanced concepts in the field of ICT in an academic and professional environment.</p> <p>The objectives of the course "Modern Information Technology" are focused on preparing students to understand and apply the latest concepts and technologies in the field of ICT. Through these objectives, we aim to develop an in-depth understanding of key ICT concepts, focusing on their interpretation and explanation. An important part of the objectives is the students' ability to apply their knowledge in real situations, analyzing and solving concrete challenges that appear in the implementation of information technologies. In addition, we aim to help students integrate this knowledge in the context of business and organizations to improve their efficiency and effectiveness in modern workplaces. Thus, this course aims to prepare students for a successful career by providing essential knowledge and advanced skills in the field of ICT.</p>			
<b>Learning Outcomes</b>	<p>At the conclusion of this subject students should have the skills to:</p> <ol style="list-style-type: none"> <li>1. The student will be able to interpret and explain the main concepts of modern information and communication technology (ICT).</li> <li>2. Will be able to summarize and analyze recent developments in the field of ICT, identifying the connections between them.</li> <li>3. Will be able to develop and implement practical projects using the acquired knowledge in the field of ICT.</li> <li>4. The student will understand the impact and importance of network infrastructure and operating systems in the daily functioning of organizations.</li> <li>5. Will be able to interpret security policies and laws in the digital environment and use them in practice.</li> <li>6. The student will have in-depth knowledge of data analysis, understanding how to use data analysis to make effective decisions.</li> <li>7. The student will apply data analysis techniques to concrete projects and create data management strategies.</li> <li>8. The student will apply the acquired knowledge and skills in the development of concrete projects related to the Internet of Things (IoT).</li> </ol>			
<b>Content</b>	<b>Weekly Plan</b>			<b>Week</b>
	Basics of Information and Communication Technology (ICT)			1
	The main concepts of ICT and the role of computer networks in public administration.			2
	History of Information Technology and Recent Developments			3
	Cloud Computing: Definition and Advantages for Public Administration; Explaining the concept of Cloud Computing and its use in the public sector.			4
	Virtualization and Its Role in Improving Efficiency			5
	Security Challenges in Policy and Management and			6

	Strategies for Protection	
	Implementation of Security Tools in the Environment of Public Administration	7
	The Importance of Applications and Websites in Public Services	8
	The Potential of the Internet of Things in Public Administration	9
	Implementation of innovative projects using future technologies	10
	Transparency and Accountability in Public Administration Using Technology	11
	The use of ICT to assist in the political decision-making process and in the development of management strategies in public administration.	12
<b>Teaching/Learning Methods</b>	<b>Activities</b>	<b>Weight (%)</b>
	Lectures	20%
	Seminars	20%
	Laboratory	40%
	Case studies	10%
	Role play	-
	Problem-based learning	10%
	Study visit	10%
	Work practice	10%
<b>Assessment Methods</b>	<b>Assessment Activity</b>	<b>Weight (%)</b>
	Project	80%
	Presence	20%
<b>Assessment Description</b>	The evaluation of the master's student's final paper will be based on the criteria of a scientific paper. An important aspect of the assessment is the originality of the work and its contribution to the studied field. Evaluation includes analysis of the methodology used to support the research and determination of how the methods are applied. The assessment includes assessing the depth of the literature analysis and the use of existing knowledge in the studied field. Evaluation includes the overall structure of the paper, the inclusion of a strong introduction, and the creation of a logical and consistent argument. Evaluating the use of sources and citations of references. In general, a final thesis of a master's student should be well-known and written in a way that fulfills the criteria of a scientific paper, including an in-depth analysis and a clear contribution to the field studied.	
<b>Course resources</b>	<b>Resources</b>	<b>Number</b>
	Classroom (e.g)	1
	IT Lab (e.g)	1
	Moodle	1
	Windows 10, MS Office 2019	1
	LCD Projector	1

	<b>Activity</b>	<b>Weekly hrs</b>	<b>Total workload</b>
<b>ECTS Workload</b>	Lectures	2	30
	Seminars	1	15
	IT Lab		6
	Practice in industry		6
	Self-learning	4/5	68
<b>Literature/References</b>	<ol style="list-style-type: none"> <li>1. Edmond Beqiri. Biznesi elektronik, Universiteti i Prishtinës, Prishtinë.</li> <li>2. Ligjerata të autorizuar në Moodle nga profesori i lëndës.</li> </ol>		
	<p>Literaturë sekondare:</p> <ol style="list-style-type: none"> <li>1. Managing Risk and Information Security: Protect to Enable. Malcolm Harkins. <a href="https://link.springer.com/book/10.1007/978-1-4302-5114-9#:~:text=In%20Managing%20Risk%20and%20Information,security%20architecture%20and%20business%20architecture">https://link.springer.com/book/10.1007/978-1-4302-5114-9#:~:text=In%20Managing%20Risk%20and%20Information,security%20architecture%20and%20business%20architecture</a>.</li> <li>2. The Art of Invisibility: The World's Most Famous Hacker Teaches You How to Be Safe in the Age of Big Brother and Big Data, Kevin Mitnick (Author), Robert Vamosi Mikko Hypponen</li> </ol>		