



## SYLLABUS

<b>Basic information of the course</b>	
<b>University:</b>	<b>University “Ukshin Hoti” - Prizren</b>
<b>Academic unit:</b>	<b>Faculty of Computer Science</b>
<b>Study program:</b>	<b>Information Technologies and Telecommunication</b>
<b>Course:</b>	<b>Information Management</b>
<b>Study level:</b>	<b>Bachelor</b>
<b>Course status:</b>	<b>Elective</b>
<b>Study year:</b>	<b>1</b>
<b>Number of hours per week:</b>	<b>2+2</b>
<b>Credit value - ECTS:</b>	<b>6</b>
<b>Time / location:</b>	<b>It will be published in the university web site!</b>
<b>Lecturers:</b>	<b>Dr. Sc. Ardian Berisha</b>
<b>Contact details:</b>	<b>ardian.berisha@unhz.eu</b>
<b>Course description:</b>	<p>This course provides students with the opportunity to synthesize, analyze, and develop the knowledge and skills uniquely needed for today’s information management professional, and provides students with a solid background for taking advanced courses in the program. From the perspective of information technologies, information in nature is data. Over the past few years, along with the trend of “big data” in the broad area of information management, the demand for skills in data analytics in various areas has increased dramatically.</p>
<b>Course objectives:</b>	<p>This course uniquely combines the views from multiple perspectives including both data science and information technologies to examine the information management field. The course introduces students to current data/information management from an interdisciplinary perspective, incorporating the latest ideas, techniques, and technologies into the data/information life cycle in order to prepare students for information management (IM) careers.</p>
<b>Learning outcomes:</b>	<p>By the end of the course students will be able to:</p> <ul style="list-style-type: none"> <li>- Distinguish among the major phases in the</li> </ul>

	<p>data/information life cycle;</p> <ul style="list-style-type: none"> <li>- Determine the relevance, importance, and value of the major concerns and opportunities at different phases of the life cycle for information management;</li> <li>- Categorize the different types of data based on their properties;</li> <li>- Compare and evaluate different technical approaches/solutions for major IM task;</li> <li>- Examine the impact of information technology on information management;</li> <li>- Analyze the changing relationships between data/information and information technologies;</li> <li>- Analyze the social and ethical issues related to information management;</li> <li>- Synthesize the major challenges facing IM professionals in the future.</li> </ul>		
<b>Contribution on student load (must correspond with learning outcomes)</b>			
<b>Activity</b>	<b>Hours</b>	<b>Days/week</b>	<b>Total/hours</b>
Lectures	2	15	30
Exercise theoretical/laboratory	2	15	30
Practice work	0	0	0
Contact with lecturer/consultations	1	5	5
Field exercises	1	1	1
Midterms	2	2	4
Laboratory exercises	2	2	4
Individual time spent studying (at the library or home)	4	10	30
Final preparation for the exam	5	6	30
Time spent in evaluation (tests, quiz, final exam)	2	3	6
Projects, presentations, etc.	0	0	0
<b>Total</b>			<b>150</b>
Notice: 1 ECTS credits = 25 hours commitment, e.g. if the course has 6 ECTS credits student must have 150 hours during the semester.			
<b>Teaching methods:</b>	The course is a combination of lectures, discussions, numerical and laboratory exercises, while the assignments are presented by the laboratory course lecturers!		
<b>Assessment methods:</b>	- Attendance in lectures and exercises: 5% + 5% = 10%		

	<ul style="list-style-type: none"> <li>- Project: 20%.</li> <li>- Midterm 1: 35%.</li> <li>- Midterm 2: 35%.</li> <li>- Or final exam: 100%.</li> </ul>	
<b>Assessment and grading:</b>	<b>Vlerësimi në %</b>	<b>Nota përfundimtare</b>
	91% - 100%	10
	81% - 90%	9
	71% - 80%	8
	61% - 70%	7
	51% - 60%	6
	0% - 50%	5
<b>Literature</b>		
<b>Basic literature:</b>	<ol style="list-style-type: none"> <li>1. S. Arunprasath, Sriram Kumar and P. Krishna Sankar. Information Management, ARS Publications, 2017.</li> <li>2. William McKnight. Information Management Strategies for Gaining a Competitive Advantage with Data. Elsevier, 2014.</li> </ol>	
<b>Additional literature:</b>	<ol style="list-style-type: none"> <li>1. Fons Wijnhoven. Information Management an Informing Approach, 1<sup>st</sup> Edition, Routledge, 2009.</li> <li>2. Matthew Hinton. Introducing Information Management, 1<sup>st</sup> Edition, Routledge, 2005.</li> </ol>	
<b>Study plan</b>		
<b>Week</b>	<b>Lectures</b>	
<i>First week:</i>	<ul style="list-style-type: none"> <li>• Introduction to course organization - syllabus (about lectures).</li> </ul>	
<i>Second week:</i>	<ul style="list-style-type: none"> <li>• Analytical frameworks.</li> </ul>	
<i>Third week:</i>	<ul style="list-style-type: none"> <li>• Case studies: Acquiring insights through data manipulation and portrayal.</li> </ul>	
<i>Fourth week:</i>	<ul style="list-style-type: none"> <li>• Data analytics and visualization.</li> </ul>	
<i>Fifth week:</i>	<ul style="list-style-type: none"> <li>• Data dissemination on the web.</li> </ul>	
<i>Sixth week:</i>	<ul style="list-style-type: none"> <li>• Data management: Big data and NOSQL databases.</li> </ul>	
<i>Seventh week:</i>	<ul style="list-style-type: none"> <li>• Data management: Relational databases.</li> </ul>	
<i>Eighth week:</i>	<ul style="list-style-type: none"> <li>• First midterm.</li> </ul>	
<i>Ninth week:</i>	<ul style="list-style-type: none"> <li>• Data mining.</li> </ul>	
<i>Tenth week:</i>	<ul style="list-style-type: none"> <li>• Data processing at different phases of life cycle.</li> </ul>	
<i>Eleventh week:</i>	<ul style="list-style-type: none"> <li>• Data/information life cycle.</li> </ul>	
<i>Twelfth week:</i>	<ul style="list-style-type: none"> <li>• Health informatics.</li> </ul>	
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> <li>• Human-computer information interaction.</li> <li>• Social media (as a source of data).</li> </ul>	

<i>Fourteenth week:</i>	<ul style="list-style-type: none"> <li>• Text information retrieval and analysis.</li> <li>• Types and categories of data.</li> </ul>
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> <li>• Second (final) midterm.</li> </ul>

## Exercises

<b>Study plan</b>	
<b>Java</b>	<b>Exercises</b>
<i>First week:</i>	<ul style="list-style-type: none"> <li>• Introduction to course organization - syllabus (about exercises).</li> </ul>
<i>Second week:</i>	<ul style="list-style-type: none"> <li>• Analytical frameworks.</li> </ul>
<i>Third week:</i>	<ul style="list-style-type: none"> <li>• Case studies: Acquiring insights through data manipulation and portrayal.</li> </ul>
<i>Fourth week:</i>	<ul style="list-style-type: none"> <li>• Data analytics and visualization.</li> </ul>
<i>Fifth week:</i>	<ul style="list-style-type: none"> <li>• Data dissemination on the web.</li> </ul>
<i>Sixth week:</i>	<ul style="list-style-type: none"> <li>• Data management: Big data and NOSQL databases.</li> </ul>
<i>Seventh week:</i>	<ul style="list-style-type: none"> <li>• Data management: Relational databases.</li> </ul>
<i>Eighth week:</i>	<ul style="list-style-type: none"> <li>• Reinforcement of midterm teaching units.</li> </ul>
<i>Ninth week:</i>	<ul style="list-style-type: none"> <li>• Data mining.</li> </ul>
<i>Tenth week:</i>	<ul style="list-style-type: none"> <li>• Data processing at different phases of life cycle.</li> </ul>
<i>Eleventh week:</i>	<ul style="list-style-type: none"> <li>• Data/information life cycle.</li> </ul>
<i>Twelfth week:</i>	<ul style="list-style-type: none"> <li>• Health informatics.</li> </ul>
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> <li>• Human-computer information interaction.</li> <li>• Social media (as a source of data).</li> </ul>
<i>Fourteenth week:</i>	<ul style="list-style-type: none"> <li>• Text information retrieval and analysis.</li> <li>• Types and categories of data.</li> <li>• The defense and evaluation of seminar papers. Preparation for the final midterm.</li> </ul>
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> <li>• Second (final) midterm.</li> </ul>

<b>Academic policies and rules of conduct</b>
<ul style="list-style-type: none"> <li>• Generally lecture presentations will be made through MS PowerPoint, tables, material usage, computer programs and numeric exercises.</li> <li>• Additional resources (scientific papers, publications, national bulletins, as well as recent discoveries and research) will be provided by professors.</li> <li>• In the absence of the opportunity for practical work to be organized weekly, in cooperation with the management of the university, this activity will be organized on certain days in: organizations, companies, etc.</li> <li>• During each session will be organized the conversation and co-participation with the students!</li> <li>• Students are required to be regular in lectures and exercises!</li> <li>• It will be evaluated when the students collaborate and participate in the lectures and course exercises!</li> </ul>

- Timely arrival in lectures and exercises is mandatory!