



Меѓународен Универзитет Визион - International Vision University  
 Universiteti Ndërkombëtar Vizion - Uluslararası Vizyon Üniversitesi

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## SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
IT INFRASTRUCTURE	4036	7	180	6

<b>Prerequisite(s)</b>	None
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<b>Course Language</b>	Turkish
<b>Course Type</b>	Elective
<b>Course Level</b>	First Cycle
<b>Course Lecturer</b>	
<b>Course Assistants</b>	
<b>Classroom</b>	
<b>Extra Curricular Office Hours and Location</b>	<b>Meeting:</b> <b>Consultancy:</b>

<b>Course Objectives</b>	The main objective of this course is to teach students the concepts used in forming the IT and telecommunications infrastructure.
<b>Course Learning Outcomes</b>	The students who succeeded in this course: <ul style="list-style-type: none"> <li>• Will be able to explain the basic concepts of IT infrastructure;</li> <li>• Will be able to learn about performance;</li> <li>• Will be able to learn the reliability, performance and availability of data centers;</li> <li>• Will be able to explain the network infrastructure;</li> <li>• Will be able to define the concepts of virtualization;</li> <li>• Will be able to learn the operating system and applying different operating systems;</li> <li>• Will be able to understand performance, reliability and availability of the operating system.</li> </ul>
<b>Course Contents</b>	The course contents are: the basic concepts of IT infrastructure, concepts of performance, to determine the performance of the system design, data centers, reliability, performance and availability of data centers, characteristics of the server, network infrastructure, concepts of virtualization, operating systems, applying different operating systems, performance, reliability and availability of the operating systems.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

<b>Week</b>	<b>Subjects</b>	<b>Related Preparation</b>
1	The definition of IT infrastructure	Related Chapters of Course Sources
2	The concept of performance, To determine the performance of the system design	Related Chapters of Course Sources
3	Security concepts	Related Chapters of Course Sources
4	Data centers	Related Chapters of Course Sources
5	Reliability, performance and availability of data centers	Related Chapters of Course Sources
6	Introduction to server and characteristics of the server	Related Chapters of Course Sources
7	Mid-term exam	Related Chapters of Course Sources
8	Network infrastructure	Related Chapters of Course Sources
9	Concepts of virtualization	Related Chapters of Course Sources
10	Operating systems	Related Chapters of Course Sources
11	Applying different operating systems	Related Chapters of Course Sources
12	Performance, reliability and availability of the operating systems	Related Chapters of Course Sources
13	User devices	Related Chapters of Course Sources
14	Review	Related Chapters of Course Sources
15	Final Exam	Related Chapters of Course Sources

**ECTS / WORKLOAD TABLE**

Presentation / Seminar			
Hours for off-the-classroom study (Pre-study, practice)	14	3	42
Midterm Exam	1	12	12
Final examination	1	14	14
<b>Total Work Load</b>			
<b>ECTS</b>			<b>6</b>

**GENERAL PRINCIPLE RELATED WITH COURSE**

Dear students,

In order to be included, learn and achieve full success that you deserve in the courses you need to come well prepared by reading the basic and secondary textbooks. We are expecting from you carefully to obey to the course hours, not to interrupt the lessons unless is very indispensable, to be an active participant on the courses, easily to communicate with the other professor and classmates, and to be interactive by participating to the class discussions. In case of unethical behavior both in courses or on exams, will be acting in framework of the relevant regulations. The attendance of the students will be checked in the beginning, in the middle or at the end of the lessons. Throughout the semester the students who attend to all lectures will be given 15 activity-attendance points in addition to their exam grades.

**SOURCES****COMPULSORY LITERATURE**

No	Name of the book	Author's Name, Publishing House, Publication Year
1	Bilişim Altyapısında, CRM Teknik Altyapısı ve İşlevsellikleri	Hasan Taşpınar, Seçkin Yayıncılık
2	IT Systems Management	Rich Schiesser, Prentice Hall, 2010
3		

**ADDITIONAL LITERATURE**

No	Name of the book	Author's Name, Publishing House, Publication Year
1	Emerging Information Technology: Improving Decisions, Cooperation, and Infrastructure	Kenneth E. Kendall, SAGE Publications Inc, 1999
2		
3		

## EVALUATION SYSTEM

<b>Underlying the Assessment Studies</b>	<b>NUMBER</b>	<b>PERCENTAGE OF GRADE</b>
Attendance/Participation	15	%10
Project / Event	1	%20
Mid-Term Exam	1	%35
Final Exam	1	%35
<b>TOTAL</b>	<b>17</b>	<b>%100</b>

## ETHICAL CODE OF THE UNIVERSITY

In case of the students are cheating or attempt to cheat on exams, and in the case of not to reference the sources used in seminar studies, assignments, projects and presentations, in accordance to the legislations of the Ministry of Education and Science of Republic of Macedonia and International Vision University, will be applied the relevant disciplinary rules. International Vision University students are expected never to attempt to this kind of behavior.