



Меѓународен Универзитет Визион - International Vision  
UniversityUniversitetiNdërkombëtarVizion - UluslararasıVizyonÜniversitesi

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## SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
<b>OBJECT-ORIENTED PROGRAMMING</b>	<b>4007</b>	<b>2</b>	<b>180</b>	<b>6</b>

<b>Prerequisite(s)</b>	None
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<b>Course Language</b>	Turkish
<b>Course Type</b>	Required
<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 the course, students will be acquainted with the principles of Object-Oriented Programming.
<b>Course Learning Outcomes</b>	As a result, the students are expected acquainted with C ++ and Java coding.
<b>Course Contents</b>	The aim of the lecture is to learn students with Object Oriented paradigm. In addition to this, it is aimed to teach the Stack, Queue, Link Lists, Trees structure.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Structured Programming principles, Deficiencies, Object-Oriented Programming Principles	Related Chapters of Course Sources
2	<ul style="list-style-type: none"> <li>– Object and Class Analysis, Constructive Methods and Types</li> <li>– Encapsulation, Functions,</li> <li>– Creating and Using Objects</li> <li>– Laboratory of C ++ and Homework/Project 1</li> </ul>	Related Chapters of Course Sources
3	<ul style="list-style-type: none"> <li>– Solution of 1 Homework/Project, explain encountered problems</li> <li>– Operator and Function Overload</li> <li>– Object Indicators</li> <li>– The definition and use of C ++ Reference</li> <li>– C ++ Laboratory exercise</li> </ul>	Related Chapters of Course Sources
4	<ul style="list-style-type: none"> <li>– Fixed qualifier</li> <li>– Use and Importance of ‘This’</li> <li>– Object Lists</li> <li>– C ++ Laboratory and Homework/Project 1</li> </ul>	Related Chapters of Course Sources
5	<ul style="list-style-type: none"> <li>– Solution of 2 Homework/Project, explain encountered problems</li> <li>– Recursion</li> <li>– Stack Data Type</li> </ul>	Related Chapters of Course Sources
6	<ul style="list-style-type: none"> <li>– Repeat before Mid-term Exam</li> <li>– information about Mid-term Exam</li> <li>– Laboratory exercise</li> </ul>	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	<ul style="list-style-type: none"> <li>– Queue data types</li> <li>– Link Lists</li> <li>– Implementation</li> </ul>	Related Chapters of Course Sources
9	<ul style="list-style-type: none"> <li>– Inheritance</li> <li>– Polymorphism</li> <li>– C ++ Laboratory and Homework/Project 3</li> </ul>	Related Chapters of Course Sources
10	<ul style="list-style-type: none"> <li>– Solution of 3 Homework/Project, explain encountered problems</li> <li>– Virtual Functions</li> <li>– Derivatives Classes</li> </ul>	Related Chapters of Course Sources
11	<ul style="list-style-type: none"> <li>– An overview</li> <li>– Giving Project to students</li> <li>– Laboratory exercise</li> </ul>	Related Chapters of Course Sources
12	<ul style="list-style-type: none"> <li>– Fundamentals of the Java Programming Language</li> <li>– Definitions of Class and Object</li> </ul>	Related Chapters of Course Sources

<b>13</b>	<ul style="list-style-type: none"> <li>- Java Laboratory</li> <li>- Giving the Homework/Project 4 to students</li> </ul>	Related Chapters of Course Sources
<b>14</b>	<ul style="list-style-type: none"> <li>- Repeat before Final Exam</li> <li>- Solution of 4 Homework/Project, explain encountered problems</li> <li>- Ongoing Studies in Project</li> <li>- Laboratory exercise</li> </ul>	Related Chapters of Course Sources
<b>15</b>	Project Submission 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**

<b>COMPULSORY LITERATURE</b>		
<b>No</b>	<b>Name of the book</b>	<b>Author's Name, Publishing House, Publication Year</b>
<b>1</b>	C++ ile Nesne Yönelimli Programlama	Mehmet Cantürk, Sürat Yayıncılık, 2013
<b>2</b>	C++ How to Program	H.M.Deitel, P.J.Deitel
<b>3</b>	C++ Primer Plus	Prata S, the Waite Group, 1998
<b>4</b>	How to program, Java	Deitel, Prentice Hall, 8th edition, 2010
<b>5</b>	Standart C Programlama Dili	F. Kadifeli, M.U.Çağlayan, A.C. Say, 2007

<b>ADDITIONAL LITERATURE</b>		
<b>No</b>	<b>Name of the book</b>	<b>Author's Name, Publishing House, Publication Year</b>
<b>1</b>	Standart C Programlama Dili	F. Kadifeli, M.U.Çağlayan, A.C. Say,
<b>2</b>	Data Structures and Problem Solving Using C++	Weiss, M.A., 2. Ed., Addison Wesley, 2003
<b>3</b>	Java Programming Language	Ken Arnold, James Gosling, David Holmes
<b>4</b>	Head First Java	Kathy Sierra, Bert Bates

## **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.