



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
ARCHITECTURAL PHYSICS	3002	1	180	8

<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 overall objective of this course, the basic physics (mechanics) in detail, giving students the concepts and principles, students in science and engineering education and studies need to provide basic information and tools. In this context, can explain the basic physical principles of the motion of the object, which can bring scientific methods to approach the problems involved, to train students have developed analytical thinking and problem solving techniques.
<b>Course Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Basic concepts of physics, the basic quantities, measurement units, to define the principles of physics and can be used in problem solving,</li> <li>• The basic concepts of physics, the basic quantities, measurement units, to define the principles of physics and can be used in problem solving,</li> <li>• Define vector and scalar quantities,</li> <li>• Explain the concept of force and Newton's laws of motion,</li> <li>• Explain the principle of conservation of energy</li> <li>• Mathematical modelling</li> </ul>
<b>Course Contents</b>	Research methods of the physical sciences , the structure of matter , motion and smooth linear movement , acceleration and account rölativlik theory, the force and meaning of Isaac Newton's Laws, Work and energy, flexible force , Hooke 's Law, liquid , wave motion , sound and sound waves, and light events.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

<b>Week</b>	<b>Subjects</b>	<b>Related Preparation</b>
1	Physical science - research methods	Related Chapters of Course Sources
2	Structure of Matter , substance , atoms and molecules	Related Chapters of Course Sources
3	Smooth motion and linear motion	Related Chapters of Course Sources
4	Uniform accelerated motion , acceleration and accountability , time and way relations	Related Chapters of Course Sources
5	Theory of relativity	Related Chapters of Course Sources
6	Isaac Newton's Laws	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Circuit design using Flip-Flop: asynchronous and synchronous counter design	Related Chapters of Course Sources
9	Design Shift register, parallel input and parallel output shift register, parallel input-serial output shift register	Related Chapters of Course Sources
10	Circuit design using integrated circuits	Related Chapters of Course Sources
11	Frequency design, programmable logic array (PLA) design	Related Chapters of Course Sources
12	Programmable logic array (PLA) design, Multiplexer design using EPROM	Related Chapters of Course Sources
13	General Von Neumann architecture computer	Related Chapters of Course Sources
14	The central processing unit of the computer. Microprocessors and microcontrollers	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>8</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>	Физика 1	Делипетров, РГФ Скопје, 2003
<b>2</b>	Општа Физика 1	Стојанов, УКИМ, Скопје, 1985
<b>3</b>	Fen ve mühendisleri için Modern fizik	Raymond A.Serway, Saunders College Publishing, Palme yayıncılık, Ankara, 1995

<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>	Општа физика	УКИМ, др.Зафир Стојанов, Просветно дело Скопје, 1985
<b>2</b>	Fizik İlkeleri	Frederick J. Bueche ve David A. Jerde, "Fizik İlkeleri", Çeviri editörü Kemal Çolakoğlu, Palme Yayıncılık, Ankara, 2000
<b>3</b>		

## 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.