



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

Adres: Ul. Major C. Filiposki No.1, Gostivar – Makedonya  
 tel: +389 42 222 325, www.vizyon.edu.mk, [info@vizyon.edu.mk](mailto:info@vizyon.edu.mk)

### SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
FUNDAMENTALS OF PROBABILITY AND STATISTIC	4016	3	180	6

Prerequisite(s)	None
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Course Language	Turkish
Course Type	Elective
Course Level	First Cycle
Course Lecturer	
Course Assistants	
Classroom	
Extra-Curricular Office Hours and Location	

Course Objectives	The objectives of the course are to introduce the computer engineering students the basic concepts of probability and statistics and teach them the probability models and statistical methods that will be needed in their advanced field of engineering.
Course Learning Outcomes	<ol style="list-style-type: none"> <li>1-Understanding the following statistical inferences presented as a mathematical approach to the recognition of mathematical topics</li> <li>2-Mathematical understanding to show the important statistical concepts and literally</li> <li>3-Understanding the concept of probability, analyze to one or more different strategies for the condition expressed by the mathematical functions</li> <li>4-In the case of multiple data groups, such as the mass, population,community of any change in circumstances affecting to establish connection between the general audience</li> <li>5-Understanding random concepts and mathematical effects of randomness</li> <li>6-Parametric approach to characterize to create overall structure of a system</li> <li>7-Statistically expressions show in different forms and shapes</li> <li>8-Depending on the conditions of the experimental data required to reveal the mathematical expressions</li> <li>9-Experience as an engineer with statistical approaches to analyze problems</li> <li>10-Applications in different areas of engineering, including any assumptions about the system to gain the ability to create solutions and approaches</li> </ol>
Course Contents	In the Introduction to Statistics and Probability course, the definition of the statistical methods and data analysis, probability and probability distributions, random, sampling distributions, hypothesis testing, regression models, correlation, factorial experiments and fractions, statistical quality control issues provides basic information.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

<b>Week</b>	<b>Subjects</b>	<b>Related Preparation</b>
<b>1</b>	Introduction to Statistics, Data Analysis and Probability Concepts	Related Chapters of Course Sources
<b>2</b>	Probability	Related Chapters of Course Sources
<b>3</b>	Conditional and Independence Probability	Related Chapters of Course Sources
<b>4</b>	Random Variables and Probability Distributions	Related Chapters of Course Sources
<b>5</b>	Mathematical Probability	Related Chapters of Course Sources
<b>6</b>	Discrete Probability Distributions	Related Chapters of Course Sources
<b>7</b>	Mid-term Exam	Related Chapters of Course Sources
<b>8</b>	Continuous Probability Distributions	Related Chapters of Course Sources
<b>9</b>	Continuous Probability Distributions	Related Chapters of Course Sources
<b>10</b>	Fundamental Sampling Distributions and Data Descriptions	Related Chapters of Course Sources
<b>11</b>	Fundamental Sampling Distributions and Data Descriptions	Related Chapters of Course Sources
<b>12</b>	Estimation Theorems	Related Chapters of Course Sources
<b>13</b>	Estimation Theorems	Related Chapters of Course Sources
<b>14</b>	Hypotheses Tests	Related Chapters of Course Sources
<b>15</b>	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,

You need to be included in the flow, please follow the course of learning and using that to achieve our success you deserve, you need to practice every day on topics that are covered by the course. It takes practice reading basic and auxiliary literature that is strictly recommended. You should visit classes course I need to make an effort to visit all the professors' lectures. Your activity on the session will be assessed by your professors and the Battle active participant in the discussions that will take place during the time. Students visiting lectures for all at the end if an additional 15 points.

**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>	Olasılık ve İstatistik	Fikri Akdeniz, Akademisyen Kitabevi / Akademik Kitaplar Dizisi
<b>2</b>		
<b>3</b>	Probability&Statistic for Engineers and Scientists	Walpole R.E., Myers R.H., Myers S.L., Ye K., Prentice Hall, 2012-2007-2002

<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>		
<b>2</b>		
<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 students are cheating on exams or preparation the same, it is not making reference to the source to be used in studies, as for example in assignments, projects and presentation (plagiarism), in accordance with legislations by Ministry of Education and Science of the Republic of Macedonia and International Vision University, apply relevant disciplinary rules. International Vision University students are expected never attempts in this kind of behavior.