**Veri Bilimine Giriş - ECON 1105 Course Syllabus**

**Assoc. Prof. Dr. Uğur Bilge**

**Antalya Bilim University**

**Department of Business Administration**

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The course presents the recently emerging data science as well as information technology concepts, computer hardware and software, current and future computer technologies. Students will be able to identify computer, information technology, Artifical Intelligence concepts, social, and ethical consequences. The practical aspect of the course will prepare students with skills to operate computers effectively and use Microsoft Office Package (Word, PowerPoint and Excel) as well as R programming environment.

**Course material:**

Course related material will be provided by the instructor.

**Recommended readings:**

Computers Are Your Future (2012), by Catherine Laberta, Prentice Hall

**Developing Graduate Attributes**

***At the end of the course students will be able to:***

Understand key developments in the evolution of computers,

Identify components of computer hardware

Identify concepts regarding computer software, operating systems, algorithms

Have knowledge on Artificial Intelligence, simulations and the future of computers

Use Microsoft Office Tools such as Word, Excel and PowerPoint, and R programming environment

**Course Schedule**

**WEEK 1:** Introduction to Computers

**WEEK 2:** Microcomputer Architecture

**WEEK 3:** Operating Systems, Windows Operating System

**WEEK 4:** Windows Practical

**WEEK 5:** Excel Practical 1

**WEEK 6:** Excel Practical 2

**WEEK 7:** Introduction to Data Science

**WEEK 8: Mid Term Exam**

**WEEK 9:** R Practical

**WEEK 10: Project Presentations 1**

**WEEK 11: Project Presentations 2**

**WEEK 12:** Data Mining and Artificial Intelligence

**WEEK 13:** Complex Systems and Simulation

**WEEK 14: Final Exam**

**Assessment Criteria:**

**1) Midterm Exam (30%):** Test questions and Word application

**2) Project (20%):** Each student works on a project of his/her choice and prepares

 a Word report and a Powerpoint presentation, and presents it to the class

**3) Final Exam (50%)**: Face to face exam

**Grade Score**

|  |  |
| --- | --- |
| A+ | >=90 |
| A | 89-86 |
| A- | 85-82 |
| B+ | 81-78 |
| B | 77-74 |
| B- | 73-70 |
| C+ | 69-66 |
| C | 65-62 |
| C- | 61-58 |
| D+ | 57-54 |
| D | 53-50 |
| F | <50 |