**General Information:**

**Name of Course: Foundations Of Informatics 2**

**Course Code:** IVB184AN

**Semester:** 2nd

**Number of Credits:** 3

**Allotment of Hours per Week:** 1 lectures, 2 practices

**Evaluation:** Mid-term grade

**Prerequisites: -**

**Instructors: Alexandra Török**

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**Introduction, Learning Outcomes**

The presentations give an introduction to hardwares of a computer. The practices give a basic knowledge in the usage of Microsoft Excel.

**General Course Description and Main Content:**

Students learn the basic usage of Microsoft Excel: formulas, simple and more complex formulas, usage of charts and working with data

**Methodology:**

The presentations give an introduction to important mathematical techniques of exercise solving and the basic theory of calculus. Equal emphasis is given to learning new mathematics and to learning how to construct and write down correct mathematical arguments.

**Schedule:**

|  |  |
| --- | --- |
| Week | Lessons |
| 1. | Registrations’ Week  **Basic information of the course.** |
| 2. | **Introduction to Microsoft Excel:** *Getting to learn about the interface.*  **Pacticing Functions:** *Simple tasks using basic functions.* |
| 3. | **Introduction to The Basics of Informatics:** *Number systems and generations of computers*  **Practicing Charts:** *Simple tasks using charts* |
| 4. | **Introduction to The Basics of Informatics 2:** *Languages, Programming*  **Lab:** *More functions*  **Do not forget - Pollack Expo!** |
| 5. | **Lecture:** *Hard Drives*  **Lab:** *More functions* |
| 6. | **Lecture:** *Optical Drives*  **Lab:** *Practicing complex tasks* |
| 7. | **Lecture:** *Memories*  **Lab:** *Complex tasks – Practicing for the test* |
| 8. | **Lecture:** Test  **Lab:** *Practicing for test* |
| 9. | Eastern Holiday + Spring Break |
| 10. | **Lecture:** *No lecture, the test could be started earlier.*  **Lab:** Test |
| 11. | **Electronics - *lecture and lab held together***  *Repetition of the basics of electronics:*  *Boolean Algebra, De Morgan Identities, Truth Tables of Logic Functions* |
| 12. | **Electronics - *lecture and lab held together***  *Simple circuits* |
| 13. | Labours’ Day – No Lessons on Monday! |
| 14. | **Electronics - *lecture and lab held together***  *More circuit practice* |
| 15. | **Electronics - *lecture and lab held together***  *Test of Building a Circuit based on a Logical Function* |
| 16 – 20. | Exam period – 2 tests could be corrected int he first 2 weeks. |

**Attendance:**

Attendance is required in all classes and will impact the final grade in 10%.

More than 30% of absences of the whole course will result in failing. In case of illness or family emergency, the student must present a valid excuse.

**Evaluation + Grading**

3 tests should be written during the term: 1 from the lecture and 2 from the practices. To get the final mark, the students must get minimum 50% of all of the tests. The lecture test and 1 of the practical tests could be rewritten. The exact scale:

**Grading scale**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
| Evaluation in points: | 91%-100% | 80%-90% | 65%-79% | 50%-64% | 0-49% |

**Students with special needs:**

Students with special physical needs and requiring special assistance must first register with the Dean of the Students Office. All reasonable requests to provide an equal learning environment for all students is to be assured.