**PROGRAMME OF COURSES**

**Academic year: 2022 / 2023 – 1st semester (For 1st year students)**

**Full name of the subject:** Informatika (gyakorlat)

**Program:** undivided program (pharmaceutical)

**Schedule:** full-time

**Short name of the subject:** Informatics

**English name of the subject:** Informatics (practice)

**German name of the subject:** Informatik (Praktikum)

**Neptun code of the subject:** GYKDEI107G1A

**Type of registration:** **obligatory**/obligatory elective/elective/criteria requirement

**Responsible department:** Institute of Digital Health Sciences of the Faculty of Health and Public Services of Semmelweis University

| **Responsible tutor:** | **Title, academic degree:** |
|---|---|
| Dr. Szócska Miklós<br><br>**Contact information:**<br><br>titkarsag.dei@semmelweis-univ.hu | PhD, associate professor |
| **Name of the persons responsible for the teaching of the subject:** | **Title, academic degree:** |
| Sándor Zoltán<br>Tamus Ádám<br>Tóth Tamás | assistant lecturer<br>PhD, associate professor<br>assistant lecturer |
| **Classes per week:**<br>**0** lecture(s)<br>**2** practice(s) | **Credit point(s):**<br>**2** |

**Professional content, intent of acquirement and its function in order to implement the goals of the program:**

The goal of the course is to introduce the students to the applications of health information technology, especially the sources, organization, analysis and presentation of health information and knowledge. To improve the basic computer skills of students, including the use of office software tools, digital data storage and analysis methods. Acquisition and practical application of IT tools and methods required for later studies (e.g. preparation of a dissertation)

**Short description of the subject:**

- Knowledge of basic MS Office tools
- Sources of health information and knowledge, online scientific databases and the basics of evidence-based medicine

***Course data***

| Recommen-ded term | Contact hours (lecture) | Contact hours (practice) | Contact hours (seminar) | Individual lectures | Total number of contact hours/semes-ter | Normal course offer | Consultations |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 28 | - | - | 28 | Autumn semester*<br>Spring semester*<br>Both semesters*<br><br>(* Please underline) | - |

***Program of semester***

**Topics of theoretical classes (pro week):**

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**Topics of practical classes (pro week):**

1. MS Excel – basics of data storage
2. MS Excel – processing of data
3. MS Excel – data representation, diagrams
4. MS Excel – advanced level exercises
5. Collection and processing of medical data
6. Practice, preparation for the test
7. 1. test (Excel exercises, computer test)
8. Theoretical basics of databases
9. Creation of a simple database with Ms Access
10. Data extraction from databases, performing queries
11. Online health information sources
12. Data protection, data security
13. The future of health informatics
14. 2. test (Access exercises and information searching, computer-based test)

**Schedule of consultations:**

by agreement

***Course requirements***

**Prerequisites: -**

**Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for makeup:**

(successful course attendance, mid-term tests, absence, etc.)
Attendance of at least 75% of the practices, at least 50% result of both tests

**Number, topics and dates of tests during the semester, opportunities of makeup and improvement of results:**

- Mid-term test on week 7 (topic: Excel)
- Mid-term test on week 14 (topics: Access, online information sources)
- Replacement test: 2 times in the first week of the exam period

**Requirements of signature:**

Attendance of at least 75% of the practices, at least 50% result of both tests

**Number and type of projects students have to perform independently during the semester and their deadlines:**

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**Type of the semester-end examination:** signature/practical grade/semi-final/final

**Form of the semester-end examination:**

written (computer test)

**Prescribed practices outside of the university:**

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**Scientific, course related researches, publications, assays:**

*Recommended literature:*
Meskó Bertalan: The Guide to the Future of Medicine, Webicina 2014 ISBN 9789631200072
Microsoft Office Help and Training Center: https://support.office.com/

The educational materials are available at http://dei-cloud.semmelweis.hu. Username and password are announced at the first practice

**Necessary equipment:**

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**The course description was prepared by:**

**Tóth Tamás**