Dear Students!

Welcome to the course “**Service Science & Knowledge Economy: Research Methods**”!



# Motto

Knowledge is, what can be transferred into source code – each other human activity is a kind of artistic performance   
(KNUTH’s original: “Science is what we understand well enough to explain to a computer. Art is everything else we do.”)

# Basic information

* Moodle-view: <https://moodle.kodolanyi.hu/course/view.php?id=17305>
* Archive-view: <https://miau.my-x.hu/miau/quilt/2020/045_2019.docx>
* Wiki-view: <https://miau.my-x.hu/mediawiki/index.php/QuILT-IK045-Diary>
* Files: <https://miau.my-x.hu/miau/quilt/2020/>
* File-archive: <https://miau.my-x.hu/miau/quilt/>
* MIAU in English: <https://miau.my-x.hu/miau2009/index_en.php3>

# IMPORTANT NOTICE

Unfortunately, the first (contact) meeting (05.II.2020 / Room FR135) should be cancelled because of a relevant committee activity on university level.   
BUT: You will have the possibility to take part in a **treasure hunting** process!  
With other words: this course is gamified… 😊

(BTW: Worth reading – Dan Brown: Da Vinci Code   
<https://www.wattpad.com/story/25677808-the-da-vinci-code-sample>)

# FAQ

1. What is “treasure hunting” and/or gamification in a university course?
   1. Treasure hunting is like being trapped in an escape room. Your next steps to make will be revealed each time after solving a task / riddle…
   2. This chained exploration process will deliver important messages, materials (worth reading and/or needed to be read) and rules of the course for you to succeed in it.
   3. During the treasure hunt one or more customized tasks will be offered to you.
   4. Completing one of those tasks will lead you to the realisation of the course’s credits.
2. How can I realize the planned credits of the course?
   1. Just with/through a real publication.
   2. Archive of publications from the previous course:   
      [https://miau.my-x.hu/miau2009/index.php3?x=miau128&where[indexkod]=miau249](https://miau.my-x.hu/miau2009/index.php3?x=miau128&where%5bindexkod%5d=miau249)
3. Will the room (FR135) be open(ed) during the first meeting?
   1. Unfortunately, the room with PCs will not be open – just in case of real contact meetings.
   2. You may use arbitrary devices/sources to solve the problems, to create the documentation about it and to send them via email ([pitlik@kodolanyi.hu](mailto:pitlik@kodolanyi.hu) / subject = Neptun-Code).
4. Will the second (contact) meeting (12.II.2020 – 14.15-16.45) held plan-like in room FR135?
   1. Yes, the second meeting will be realized plan-like.
   2. It is important to arrive on time because the topic of the second meeting can only be interpreted in a relevant way if somebody follows the whole process step by step…
5. What will be discussed on the second meeting?
   1. In frame of the second meeting, a role play will be presented (by a conductor, motto: if I were you), where it can be seen, how an ideal Student should work in order to realize the credits of the course at once on the spot. (c.f. PLA = prior learning assessment)
   2. The conductor’s task will be the following:
      1. Which publication from the previous semester can be seen as the best publication?
      2. How can someone reach (even surpass) the level of the best publication with the particular study about the ranking of the archived publications?
6. Why is it important to work with the archived publications?
   1. The course has to demonstrate the realisation possibilities of the KNUTH principle (see above) especially in the field of education because the keywords of this course are knowledge, science, research.
   2. We will plan/prepare robots during the course – in this case it is a Robot-Teacher being objective (instead of arbitrary subjective) concerning evaluation challenges.
7. How should I appropriately prepare for the second meeting?
   1. It would be useful to know the archived publications.
   2. It would also be useful to read about the academic writing skills in order to collect ideas about descriptors (attributes) of quality measurement concerning publications.
8. If you have any other questions, please send emails to: ([pitlik@kodolanyi.hu](mailto:pitlik@kodolanyi.hu) / subject = Neptun-Code)

# Warm-up task (1st riddle in the 1st treasure hunting process)

**We are searching for a 4-digit number. If the number composed from its first 3 digits (starting from left) then the one from first 2 digits and then the first digit will be subtracted from the original value step by step, then the result is 3333. What is the original number searched for?**

Example: 9876-987-98-9 = 8782 > 3333

[Source: <https://miau.my-x.hu/mediawiki/index.php/QuILT-IK045-Diary#5._Day_.282019.III.13..29>]

To-do list:

1. It would be useful (for you and/or for the other Students having the same course) to send a detailed description about each step of your solving process (mailto:[pitlik@kodolanyi.hu](mailto:pitlik@kodolanyi.hu)).
2. One of the possible ways leading to the final credit of this course is, to evaluate the descriptions (solving processes). The simple question is: Which one is the best solving process? (or can/should we evaluate each solving process with the correct result equally good? – regardless of complexity/simplicity, universality, speed etc.)
3. When completed the task, please, add your result (the 4-digit number) to the following URL  
   (replacing the red &‑sign):
   1. [**https://miau.my-x.hu/&**](https://miau.my-x.hu/&)
   2. and after reaching the prepared Wikipedia-site, please, follow the further instructions  
      (in case you got a *404 Not Found* message, your solution is incorrect, please, try again)
   3. Have Fun! 😊

Remarks:

1. The task with the 4-digit-number can be solved without any higher-level mathematical knowledge.
2. In the area of the Knowledge Economy, we need to know about the different knowledge forms and their impacts to the efficiency…
3. The evaluation/ranking of the solving processes of the 4-digit-problem can involve a lot of objectives like
   1. which is the best solution (using/needing the less mathematical knowledge)?
   2. which solution is described in the most clarified way?
   3. …

Conductor: László PITLIK, KJU, 01.II.2020. (email: ([pitlik@kodolanyi.hu](mailto:pitlik@kodolanyi.hu) / subject = Neptun-Code)