

# Neptun-testing – Statistics module

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## Tartalom

History of the project .....	1
The problem .....	1
Basic information units .....	1
Functionality: course statistics .....	2
Focus, objectives .....	2
Hypotheses/suspicions.....	3
Anonymized screenshots .....	3
Clarity & Fulfilment.....	3
Grading-anomalies.....	6
Conclusions.....	6
Annexes .....	7

## History of the project

The following sub-chapters present the history of the project “NEPTUN-TESTING”. The problem could be identified during the normal using of the Neptun-system. The preparation of the course is basing on existing and expected documentations from SDA-STUDIO.

### The problem

If the user (teacher) tries to store signatures and/or grades and in order to see which course is already completed concerning the administrative tasks, the teacher see irrational “screenshots”. The question is: is the Neptun-system coherent, but the users are not always capable of understanding the developed logic behind the surfaces/screenshots – or the functionality of the statistics module is definitively wrong, useless?

### Basic information units

To: "info@sdainformatika.hu" [info@sdainformatika.hu](mailto:info@sdainformatika.hu), 2025.I.06.

(Google Translate from original Hungarian email):

Dear Ladies and Gentlemen!

I would like to inquire regarding the preparation of demo tasks for educational activities involving software testing, whether there is public documentation on the Neptun course statistics service/menu item (cf. 74712, 74187) - more detailed/professional, such as this document:

<https://neptun.elte.hu/oktig/Neptun/SDA/OWEB.pdf#page=82>

(or [https://semmelweis.hu/neptun/files/2016/05/OWEB\\_4.7.pdf](https://semmelweis.hu/neptun/files/2016/05/OWEB_4.7.pdf))

I do not see any trace of such a specification/list containing expectations that can be checked/verified item by item during testing in this web knowledge base for the course statistics keyword: cf.

<https://tudasbazis.sdainformatika.hu/dosearchsite.action?q=siteSearch+~+%22kurzus+statisztika%20A1k%22+and+space+%3D+%22NDOK%22&queryString=kurzus+statisztika%20A1k&startIndex=20>

Is there a related video: cf.  
<https://tudasbazis.sdainformatika.hu/download/attachments/59211780/Vide%C3%B3lista%2020230823.xlsx?version=1&modificationDate=1692802926060&api=v2>

Thanks and regards

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To: us

Dear ...!

A detailed description of the course statistics function is included in the documentation of the Instructor web, the latest version 6.4 of which is available at the link below by entering the instructor web and clicking on the Help link in the footer. No other documentation or training video has been made about the function yet. If you have any questions, comments or problems regarding the specific operation, you can report them to the institutional contact person via Neptun Customer Portal.

Best regards:

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(Remark: Identified URL by us: [https://neptun.kodolanyi.hu/oktato/help/oweb\\_hu.pdf](https://neptun.kodolanyi.hu/oktato/help/oweb_hu.pdf))

(More precisely: [https://neptun.kodolanyi.hu/oktato/help/oweb\\_hu.pdf#page=82](https://neptun.kodolanyi.hu/oktato/help/oweb_hu.pdf#page=82) and further page=83-84-85 – Chapters 4.2.7 & 4.2.8)

The “same” documentation in English seems to be shorter/simpler: [https://neptun.kodolanyi.hu/oktato/help/oweb\\_en.pdf#page=52](https://neptun.kodolanyi.hu/oktato/help/oweb_en.pdf#page=52) (see only chapter: 4.2.6 – with just a few details).

## Functionality: course statistics

### Focus, objectives

Based on the identified (see above) documentation (page=82-85), following objectives can be listed in order to interpret the motivations of the development processes:

1. EN: “The “Course statistics” interface was created in order to give a better overview of the administration of courses.”
2. EN: “The information concerning the fulfilment, signature and grading of the course, are displayed on the interface.”

3. EN: “A green check mark will appear at those number values where in accordance with the number data, the fulfilment, the number of entered signatures and the recording of results is 100%.”

## Hypotheses/suspicions

The above-listed (1-2-3) objectives must be interpreted from point of view of the users:

1. A “better overview” should mean, maximal clarity concerning the interpretability of screenshots: e.g.
  - a. If one single misunderstanding is to identify, then the software testing should produce alert(s)
  - b. The status of “better” should always mean, there is a benchmark for evaluation: being better or not – this benchmark can only be the screenshot, where the teacher is capable of storing e.g. signatures (c.f. Figure#4)
2. “Fulfilment”: fulfilment should mean, the task is done – completely done and nothing can be identified as a lacking position.
3. “100%”: 100% should also mean, the task is done – completely done and nothing can be identified as a lacking position.

## Anonymized screenshots

The following (anonymized) screenshots should be interpreted as evidence for some suspicions:

### Clarity & Fulfilment

The suspicions are:

- the general view may not content any green check mark before the first transaction (first signature) of the user in a semester
- the green check mark should always be interpreted as a sign for the status = DONE (100% done = each expectation is fulfilled), it means, there is no more steps (transaction needed and no more transactions possible)

Evidence-level for the semester 2024/2025 – Spring/Summer
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The teacher did still not give any signatures, let alone grades. The statistics module does produce signs of existing signatures (c.f. column “aláírás rendezve” – with 3 green check marks):

https://neptun.kodolanyi.hu/oktato/main.aspx?ismenuclck=true&ctrl=1902

Kurzusok Kurzus statisztikák

Kurzusok [2024/25/2]

Tárgykód	Tárgy név	S/O	Félév	Kurzus kód	Kurzus típus	Aláírás rendezve	Érdemjegy beírva	Adminisztráció kész
LIN057	Agrárinformatikai fejlesztések minőség- és projektmenedzsmentje	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1
NIK167	Artificial intelligence in the IT-security	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/2	0/2
NIN033	Az elektronika fizikai alapjai	O	2024/25/2	V1_BP	Elmélet	0	0/1	0/1
NIN032	Elektronikus áramkörök	O	2024/25/2	V1_BP	Gyakorlat	0	0/1	0/1
TIN066	Információs rendszerek	O	2024/25/2	V1_BP	Elmélet	0	0/2	0/2
NIK168	Knowledge management in the IT-security	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/1	0/1
NIN031	Mentori óra 1.	O	2024/25/2	P1	Vizsgakurzus	0	1/1	0/1
NIN037	Mentori óra 2.	O	2024/25/2	G1-24NBUZB	Gyakorlat	0	0/22	0/22
LIN043	Mentori óra 3.	O	2024/25/2	G1-24LBUZBk	Gyakorlat	0	0/10	0/10
NIN050	Mentori óra 4.	O	2024/25/2	G1-23NBUZB	Gyakorlat	0	0/12	0/12
LIN050	Mentori óra 4.	O	2024/25/2	G1-23LBUZB	Gyakorlat	0	0/19	0/19
LIN052	Mentori óra 5.	O	2024/25/2	P1	Vizsgakurzus	0	4/4	0/4
LIN054	Mentori óra 6.	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/4	0/4
LIN058	Mesterséges intelligenciák az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1
LIN062	Mesterséges intelligenciák az IT-biztonság területén	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/4	0/4
TIN020	Operációs rendszerek	O	2024/25/2	P1	Vizsgakurzus	0	1/1	0/1
NIK166	Project management and quality management in the IT-security projects	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/2	0/2
NIK045	Service Science & Knowledge Economy: Research Methods	O	2024/25/2	V1	Labor	0	0/4	0/4
LIN055	Szakközpont	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/5	0/5
LIN059	Tudásmenedzsment az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1

Találatok száma: 1-20/20 (70 ms)

Figure #1: Step#1 – General overview (source = NEPTUN - see URL on the top of the picture)

Interpretations concerning figure#1:

- Why are green check marks given at all – especially before the first transaction?
- Is really nothing more to do?

https://neptun.kodolanyi.hu/oktato/main.aspx?ismenuclck=true&ctrl=1902

Kurzusok Kurzus statisztikák

Kurzusok [2024/25/2]

Tárgykód	Tárgy név	S/O	Félév	Kurzus kód	Kurzus típus	Aláírás rendezve	Érdemjegy beírva	Adminisztráció kész
LIN057	Agrárinformatikai fejlesztések minőség- és projektmenedzsmentje	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1
NIK167	Artificial intelligence in the IT-security	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/2	0/2
NIN033	Az elektronika fizikai alapjai	O	2024/25/2	V1_BP	Elmélet	0	0/1	0/1
NIN032	Elektronikus áramkörök	O	2024/25/2	V1_BP	Gyakorlat	0	0/1	0/1
TIN066	Információs rendszerek	O	2024/25/2	V1_BP	Elmélet	0	0/2	0/2
NIK168	Knowledge management in the IT-security	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/1	0/1
NIN031	Mentori óra 1.	O	2024/25/2	P1	Vizsgakurzus	0	1/1	0/1
NIN037	Mentori óra 2.	O	2024/25/2	G1-24NBUZB	Gyakorlat	0	0/22	0/22
LIN043	Mentori óra 3.	O	2024/25/2	G1-24LBUZBk	Gyakorlat	0	0/10	0/10
NIN050	Mentori óra 4.	O	2024/25/2	G1-23NBUZB	Gyakorlat	0	0/12	0/12
LIN050	Mentori óra 4.	O	2024/25/2	G1-23LBUZB	Gyakorlat	0	0/19	0/19
LIN052	Mentori óra 5.	O	2024/25/2	P1	Vizsgakurzus	0	4/4	0/4
LIN054	Mentori óra 6.	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/4	0/4
LIN058	Mesterséges intelligenciák az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1
LIN062	Mesterséges intelligenciák az IT-biztonság területén	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/4	0/4
TIN020	Operációs rendszerek	O	2024/25/2	P1	Vizsgakurzus	0	1/1	0/1
NIK166	Project management and quality management in the IT-security projects	O	2024/25/2	PR-23NBCSIKK	Gyakorlat	0	0/2	0/2
NIK045	Service Science & Knowledge Economy: Research Methods	O	2024/25/2	V1	Labor	0	0/4	0/4
LIN055	Szakközpont	O	2024/25/2	G1-22LBUZB/23k-22NBUZB	Gyakorlat	0	0/5	0/5
LIN059	Tudásmenedzsment az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0	0/1	0/1

Találatok száma: 1-20/20 (70 ms)

Figure #2: Step#2 – Case “Mentoring#1a” (source = NEPTUN – see URL on the top of the picture)

https://neptun.kodolany.hu/oktato/main.aspx?ismenuclick=true&ctrl=1902

Kurzusok [2024/25/2]

Tárgykód	Tárgy név	S/O	Félév	Kurzus kód	Kurzus típus	Aláírás rendezve	Értékelési beírva	Adminisztráció kész
LIN057	Agrárinformatikai fejlesztések minőség- és projektmenedzsmentje	O	2024/25/2	G1-22LBUZB	Gyakorlat	0/1	0/1	
NIK167	Artificial intelligence in the IT-security	O	2024/25/2	PR-23NBCSIK	Gyakorlat	0/2	0/2	
NIN033	Az elektronika fizikai alapjai	O	2024/25/2	V1_BP	Elmélet	0/1	0/1	
NIN032	Elektronikus áramkörök	O	2024/25/2	V1_BP	Gyakorlat	0/1		
TIN066	Információs rendszerek	O	2024/25/2	V1_BP	Elmélet	0/2		
NIK168	Knowledge management in the IT-security	O	2024/25/2	PR-23NBCSIK	Gyakorlat	0/1		
NIN031	Mentori óra 1.	O	2024/25/2	P1	Vizsgakurzus	1/1	0/1	
NIN037	Mentori óra 2.	O	2024/25/2	G1-24LBUZB	Gyakorlat	0/22	0/22	
LIN043	Mentori óra 3.	O	2024/25/2	G1-24LBUZB	Gyakorlat	0/10	0/10	
NIN050	Mentori óra 4.	O	2024/25/2	G1-23LBUZB	Gyakorlat	0/12	0/12	
LIN050	Mentori óra 4.	O	2024/25/2	G1-23LBUZB	Gyakorlat	0/19	0/19	
LIN052	Mentori óra 5.	O	2024/25/2	P1	Vizsgakurzus	4/4	0/4	
LIN054	Mentori óra 6.	O	2024/25/2	G1-22LBUZB/23K-22LBUZB	Gyakorlat	0/4	0/4	
LIN058	Mesterséges intelligenciák az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0/1	0/1	
LIN062	Mesterséges intelligenciák az IT-biztonság területén	O	2024/25/2	G1-22LBUZB/23K-22LBUZB	Gyakorlat	0/4	0/4	
TIN020	Operációs rendszerek	O	2024/25/2	P1	Vizsgakurzus	1/1	0/1	
NIK166	Project management and quality management in the IT-security projects	O	2024/25/2	PR-23NBCSIK	Gyakorlat	0/2	0/2	
NIK045	Service Science & Knowledge Economy: Research Methods	O	2024/25/2	V1	Labor	0/4	0/4	
LIN055	Szakdolgozat	O	2024/25/2	G1-22LBUZB/23K-22LBUZB	Gyakorlat	0/5	0/5	
LIN059	Tudásmenedzsment az agrárinformatikában	O	2024/25/2	G1-22LBUZB	Gyakorlat	0/1	0/1	

Találatok száma: 1-20/20 (70 ms)

Figure #3: Step#3 – Case “Mentoring#1b” (source = NEPTUN – see URL on the top of the picture)

https://neptun.kodolany.hu/oktato/main.aspx?ctrl=o\_course\_mark&issub=true

Kurzus jegybeírás

Tárgy: NIN031 - Mentori óra 1.  
Kursus: P1 - Vizsgakurzus

Bejegyzés módja:  
☒ Bejegyzés hallgatónként  
☐ Bejegyzés csoportosan  
☐ Módosítás, törlés hallgatónként  
☐ Módosítás, törlés csoportosan

Megajánlott: ☐  
Bejegyzés típusa: Aláírás  
Oktató: Dr. Pitlik László  
Bejegyzés dátuma: 2025.02.06

Excel fájl feltöltése  
+ Fájl feltöltése

Az intézmény által beállított bejegyzés típusok esetén csak akkor kerül be a jegy a vizsgához, hogy ha a bejegyzés dátuma megegyezik a vizsga dátumával!

Kurzus hallgatóinak eredményei

Műveletek: Mentés Hallgatók eredményeinek nyomtatása További funkciók -

Neptunkód	Név	Tanrend típus	Bejegyzések (Aktuális félév)	Bejegyzés	Kijelölés
[REDACTED]	[REDACTED]				<input type="checkbox"/>

Találatok száma: 1-1/1 (200 ms)

Műveletek: Mentés Hallgatók eredményeinek nyomtatása További funkciók -

Figure #4: Step#4 – Case “Input new signature” (source = NEPTUN – see URL on the top of the picture)

Kurzus hallgatóinak eredményei

Műveletek: Mentés Hallgatók eredményeinek nyomtatása További funkciók -

Neptunkód	Név	Tanrend típus	Bejegyzések (Aktuális félév)	Bejegyzés	Kijelölés
[REDACTED]	[REDACTED]				<input type="checkbox"/>

Találatok száma: 1-1/1 (200 ms)

Műveletek: Mentés Hallgatók eredményeinek nyomtatása További funkciók -

Figure #5: Step#5 – Case “Checking all inputs before the first input” (source = NEPTUN – see URL on the top of the picture)

Interpretations concerning figure#2-3-4-5:

- Why should be interpreted a refused signature of the previous semester as input for a new semester?
- Why does lead the refused signature of the previous semester to a green check mark at all?
- Should / may store the teacher a new signature-transaction at all?
- What will happen concerning the course statistics module, if a new signature-transaction will be started?
- Are the expectations concerning the clarity and the fulfilment really covered?
- Will be visible the green check mark for all courses (having already these green check marks), if only one single new signature-transaction will be stored?
- ...

## Grading-anomalies

...

## Conclusions

...

# Annexes

← → ↺

https://neptun.kodolanyi.hu/oktato/help/oweb\_en.pdf#page=52

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☰ Ide kerül a dokumentum címe

53 / 115 | — 79% + | 🖨️ 🔗

50


51

52

## 4.2.6. Course statistics

The "Course statistics" interface was created in order to give a better overview of the administration of courses.

Issued on: February 20, 2013      Version: 3.8.      Page number: 52 / 115

 NEPTUN Education  
System Documentation

TEACHER'S WEB

The information concerning the fulfillment, signature and grading of the course, are displayed on the interface. Single values appear in **number / max number form** (for example, how many students have completed the given course out of all the students of the course).

The upper filter option applies to the interface, so you can search by subject type, course type and term. Beyond the usual "Subject code", "Subject name", "Course type" and "Course code", "O/E" (own or educated course) and "Term" columns at Courses, three statistical columns appear on the interface concerning the following information:

- **Fulfillment number**
- **Signature given**
- **Grade entered**

A **green check mark** will appear at those number values where in accordance with the number data, the fulfillment, the number of entered signatures and the recording of results is 100%. Thus, on this interface you can easily make inquiries about that in which cases the administration has been completed without exception (e.g., grade has been entered for all students of the course) or equally you can get a spectacular view if you have administrative incompleteness at any of your courses.

A **separate green tick indicates** at the end of the course's line if all values are 100%.