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Seminarium dyplomowe w formie zdalnej: Wstępne doświadczenia

Zdjęcie: https://santanderimpacteducation.com/some-great-benefits-of-online-learning/

Agenda

- **Kontekst**
- Problem
- Metoda
- Zebrane doświadczenia

Kontekst

- **Seminarium dyplomowe mgr** (semestr letni 2019/20)

- Specjalność: *Software Engineering*

- **14 studentów** (w tym 4 obcokrajowców)

Kontekst

Praca magisterska (informatyka tech.)

Systema-tyczny przegląd literatury (SLR)

Własny pomysł

Badania empi-ryczne

- **Pace of adoption of new features of C# by software developers**
- **Definition of Done - Is it worth to use it in agile software projects?**
- **Evaluation of programming environments for quantum computing**
- **Comparative analysis of high availability solutions for MySQL/MariaDB**
- **Comparative study of asynchronous messaging systems**
- **OCR system for automated receipt reading**
- **Analysis of execution metrics for TensorFlow Lite**
- **Quantitative analysis of pulmonary fibrosis based on CT**
- **On the approaches to testing NFRs by software development teams**
- **On the quest to find new lines of code measures**
- **Automated classification of code review comments**
- **Word-embedding model for the requirements-engineering domain**
- **Tabular functions for end-user programming**

Kontekst

Semestr zimowy: *Pre-diploma Seminar:*

- **Markus Puschel**, *How to Give Strong Technical Presentations*, ETH Zurich

- **Structured abstract**

- **Systematic Literature Review**

- **Validity threats** to results of empirical study

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- **12.III PP przeszła na nauczanie zdalne.**

- **Student nie przygotował karty pracy dyplomowej na 17.III.**

- **Oto wymówka: "Bo jest chaos".**

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Przyrostowe referowanie postępów

- **2 grupy** (A i B),

- **Referaty co 2 tygodnie** (11' prezentacja + 4' uwagi)

Intro-duction (kontekst, cel, metoda)	**Short tutorial** (TED-like)	**Previous work** (SLR)	**Emp. study design** (GQM)	**Emp. study results**	**Re-hearsal**
24. III	7. IV	28. IV	12. V	26. V	9. VI
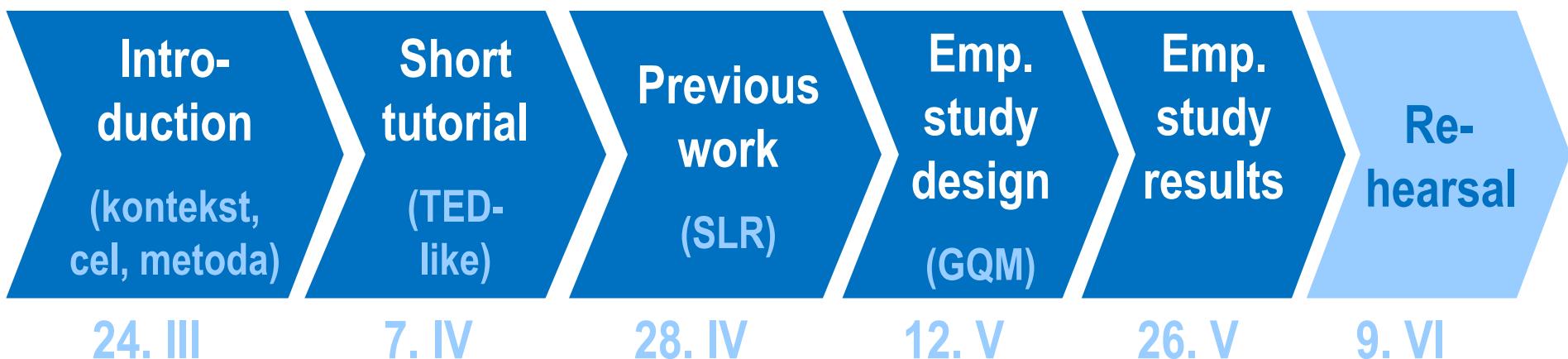
To nie jest model kaskadowy!

Wykorzystane narzędzia

Workshop: repozytorium slajdów i recenzji
- deadline dot. slajdów i recenzji,
- definiowanie kryteriów oceny prezentacji

BigBlueButton: prezentacje on-line
- współdzielenie ekranu,
- proste zarządzanie prelegentami i dyskutantami,
- szybkie przechodzenie od jednego prelegenta do drugiego,
- nagrania z dyskusji jako notatki

Questionnaire & **Feedback**: opinie studentów
- podliczanie wyników i wykresy słupkowe

File: Wytyczne, przykładowe prezentacje i harmonogram prezentacji

Participants: zainteresowanie promotorów

Guidelines – Outline of presentation (SLR)

1. Context (thesis' motivation, aim and method) (~ 1')
2. Aim of the literature review (~ 0.5')
3. Research question(s) (~ 1')
4. Searching strategy (bibliographic DBs + queries) (~ 1')
5. Filtering procedure (~ 1.5')
6. Data extraction results (~ 2.5')
7. Conclusions (~ 2')
8. Validity threats (~ 1.5')

Guidelines – Evaluation criteria (SLR)

A. Is the aim of the SLR consistent with the aim of the thesis?

B. Have been the bibliographic databases properly selected?

C. Is the translation of each research question into query appropriate?

D. Is the filtering process of good quality?

E. Is the data extraction table well designed taking into account the research questions?

F. Are the conclusions appropriately inferred from the data extraction table?

G. Are you convinced that this SLR is complete (no important paper has been overlooked)?

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- **Zebrane doświadczenia**

Reflection Workshop (~ 10.V, po prezentacji nr 3)

Does the seminar stimulate you to work in a more systematic way on your thesis?

Response	Average
Rather no	31%
Hard to say	8%
Rather yes	46%
Definitely YES	15%
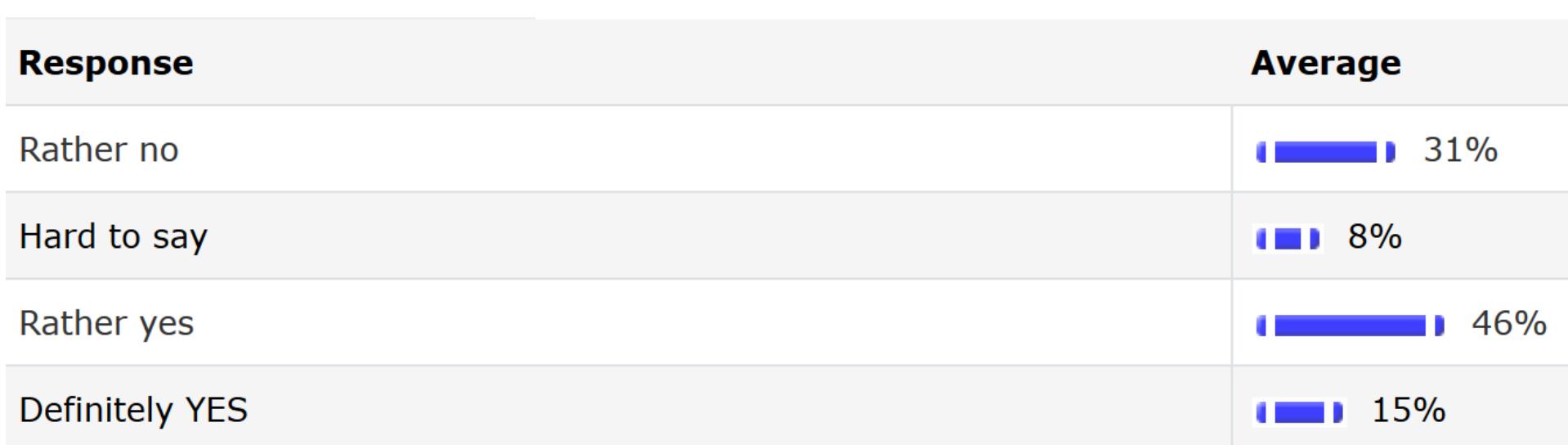
Reflection Workshop (~ 10.V, po prezentacji nr 3)

Is the feedback obtained from your colleagues and Jerzy Nawrocki helpful?

Response	Average
Rather no	15%
Hard to say	8%
Rather yes	38%
Definitely YES	38%
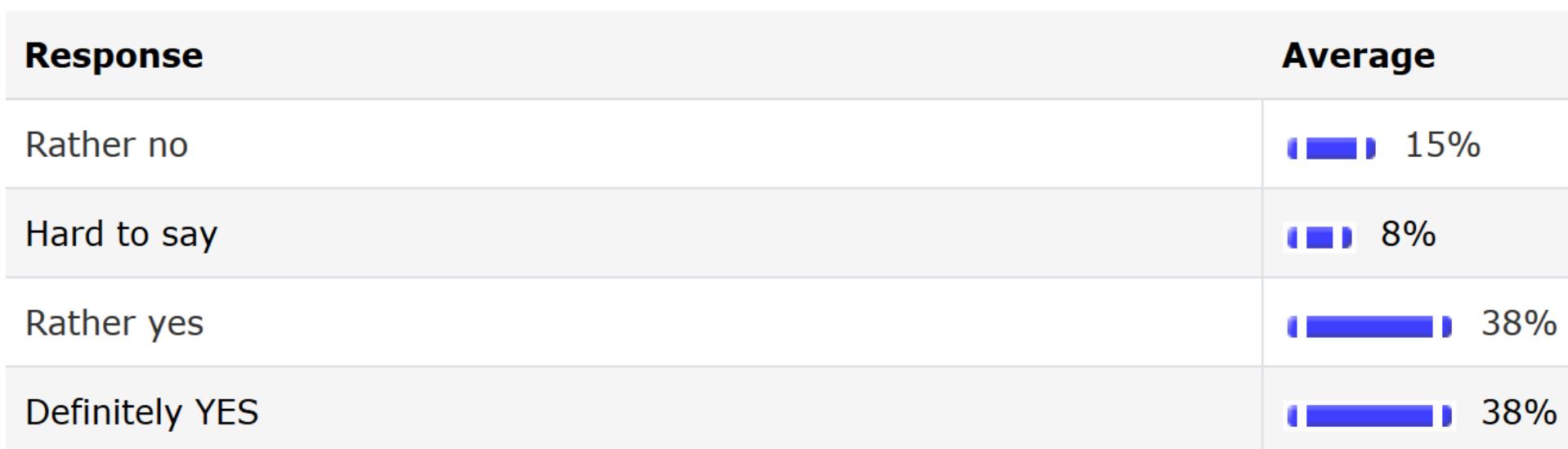
Reflection Workshop (~ 10.V, po spotkaniu #3)

Is your promoter/supervisor helpful enough?

Response	Average
Rather no	15%
Hard do say	15%
Rather yes	15%
Definitely YES	54%

What are the main **strengths** of the seminar?

1. "I really like the tutorial part, it was a nice occasion to learn something new."

2. "Focus on research part."

3. "The seminar classes are always well organized."

4. "We work in a systematic way."

5. "We get a high quality feedback."

6. "Training your presentation skills."

7. "Surveys like this one. I really like this idea"

What are the main **weaknesses** of the seminar?

1. "It requires quite a lot of time to prepare the slides."

2. "Predefined order may sometime not fit the thesis calendar."

3. "Agenda for presentations."

4. "The most questions I received were about visual aspects of my presentation."

What would you suggest to try?

(–) "Maybe switching to focusing on individual schedules?"

(+) "We could be getting the recordings of the seminars so that we can later revise the feedback that we received."

(+) "Send an optional invitation to the promotors to take part on the meeting"

(+) "Maybe some comment from supervisor of the thesis"

Feedback (~20.V, spotkanie #4)

Which mode of Diploma Seminar is more effective and useful?
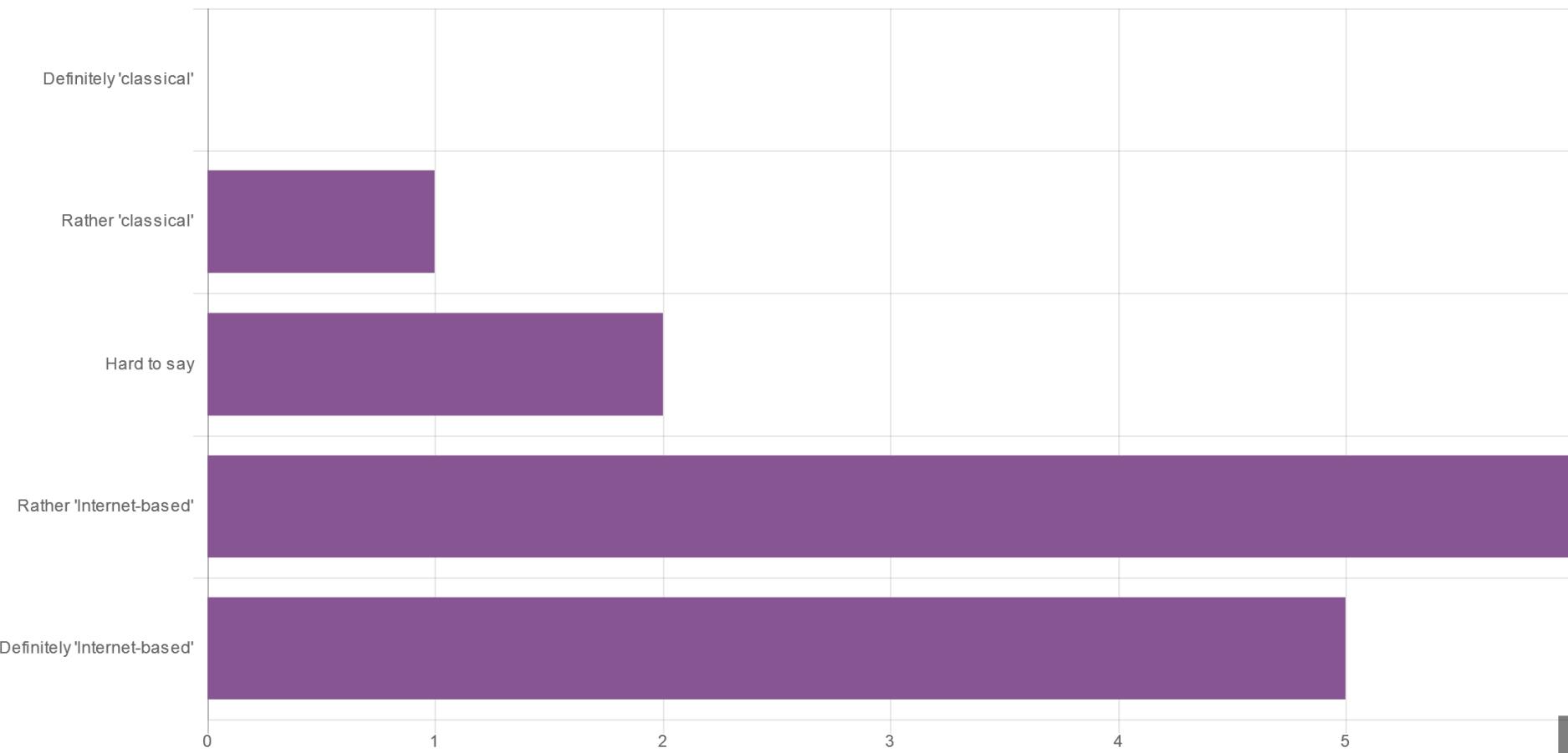
Zakończenie

Wnioski

Prowadzenie seminarium dyplomowego w środowisku Moodle:

(1) powinno być szczególnie zalecane na **studiach niestacjonarnych;**

(2) będzie kontynuowane na specjalności *Software Engineering* przynajmniej w kolejnym roku akademickim.