

Agenda

- Context / Starting point
- Making-of «Skills Quest»
- Research design, population, sample
- Selected results
- Discussion

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Context: Module BWL Skills

- Compulsory module at assessment level in the Business Administration degree program:
 - 6 ECTS points, block course of 4 lessons
 - Large module /-classes
- Module content:
 - Academic writing
 - Project management
 - Teamwork
- Intrinsic motivation: rather low
- Commitment of the students: unsatisfactory

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Reward-based gamification

It can have immediate effects and is appropriate for teaching new skills or completing tasks for which users do not have internal motivation. [Goshevski et al.]

Goshevski, D., Veljanoska, J., & Hatziapostolou, T. (2017, September). A review of gamification platforms for higher education. In *Proceedings of the 8th Balkan Conference in Informatics* (S. 1–6). <u>https://doi.org/10.1145/3136273.3136299</u>



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Inspiration for development



66 Good morning. Welcome to the first class of the semester. Everyone in this class is going to receive an F. [Lee Sheldon]

Sheldon, L. (2011). *Multiplayer Classroom: Designing Coursework as a Game.* Boston, MA: Course Technology. <u>https://doi.org/10.1201/9780429285035</u>

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Skills Quest

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Reward based Gamification

- 4 categories of assignments (pass/fail):
 - Teamwork (max. 50 points)
 - Disposition/Exposé (max. 60 Punkte)
 - Project management (max. 60 points)
 - Self-study assignments (max. 100 points)
- Assignment configuration in Moodle
- Students can see their score and grade in Moodle at any time
- Since Fall-term 2020: performance record (weighting: 40%)





What does the Skills Quest look like? (\rightarrow Quick Moodle Tour)





Research Design, Population & Sample

Population	Fall 2018	Spring 2019	Fall 2020	Spring 2021	Total
Students	Fulltime	Parttime	Fulltime	Parttime	
N Students	189	317	196	301	1003
Voluntary Gamification (VOL)	53	45	-	-	98
Compulsory Gamification (LN)	-	-	196	301	497
without Gamification (NO)	136	272	-	-	408
Notes: In the voluntary gamification approach, use occurred in only one of several classes. No selection-bias.					
	le VOL (63)	VOL (63) 64 % response			
LN (269) 54 % response					
NO (243) 60 % response zh school o aW Manager					of ment and Law

Eduhubdays 2022 | Presentation: Skills Quest - A game-based learning concept that boosts engagement





Open Feedback: Exemplary Feedbacks from Students

What else would you like to tell us for the further development of the Business Skills module? - We look forward to your feedback.

«I think it's great that there is **no MEP** at the end, but that the performance is **constantly checked** throughout the semester. So you stay on the ball from the beginning and really learn things..»

«Even after Corona, I would find it interesting to continue with the current format of Skills Quest, as this format **leads to higher achievement** among students.» «TOP lecture!!! It was a lot of fun.»

«Keep up the good work. It doesn't matter if it's online or on-site. These quests force you to go through the material. Even the books with VPN I have read through although it was several pages long. I always used 3 hours+ for the skills quest preparation because I did not know what questions would come. I always give 100% and aim for a 6.»

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Conclusion

- Reward needs to be meaningful to students
- Students are highly engaged
- Content development during semester
- Content better understood

However:

- Use gamification wisely: Extrinsic incentives can destroy intrinsic motivation.
 (→ see Hanus & Fox, 2015).
- One size does not fit all!

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Discussion



Literature

Inspiration for the development of the Skills-Quest:

Sheldon, L. (2011). *Multiplayer Classroom: Designing Coursework as a Game*. Boston, MA: Course Technology. https://doi.org/10.1201/9780429285035

Good morning. Welcome to the first class of the semester. Everyone in this class is going to receive an F. (Sheldon, 2011, S. 3)

Study on effects of gamification in teaching:

Hanus, M. D., & Fox, J. (2015). Assessing the effects of gamification in the classroom: A longitudinal study on intrinsic motivation, social comparison, satisfaction, effort, and academic performance. *Computers & Education, 80*, 152–161. <u>http://dx.doi.org/10.1016/j.compedu.2014.08.019</u>

As education continues on a trend of incorporating digital technology into the classroom, it becomes easier to incorporate game elements in the hopes of making the material more engaging. Using certain elements of gamification could be very effective, but our findings indicate that educators should be wary of using rewards, badges, and leaderboards as they may backfire. (Hanus & Fox, 2015, S. 160)

