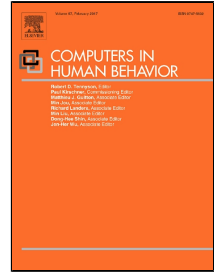


# Accepted Manuscript

Gamifying an ICT Course: Influences on Engagement and Academic Performance

Ünal Çakirođlu, Betül Bařibüyük, Mustafa Güler, Melek Atabay, Bahar Yılmaz Memiř



PII: S0747-5632(16)30838-X  
DOI: 10.1016/j.chb.2016.12.018  
Reference: CHB 4628  
To appear in: *Computers in Human Behavior*  
Received Date: 21 June 2016  
Revised Date: 26 November 2016  
Accepted Date: 06 December 2016

Please cite this article as: Ünal Çakirođlu, Betül Bařibüyük, Mustafa Güler, Melek Atabay, Bahar Yılmaz Memiř, Gamifying an ICT Course: Influences on Engagement and Academic Performance, *Computers in Human Behavior* (2016), doi: 10.1016/j.chb.2016.12.018

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**Highlights**

- Combination of five gamification elements were used together to stimulate students.
- Qualitative and quantitative reflections from a gamified course were examined.
- Leaderboard and points worked on university students well but real gifts did not.
- Gamification played significant role on engagement-academic performance relation.
- Suggestions were made for the use of each gamification elements in real ICT class.

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