Summary of parametric statistics analysis for the differences of scores in the third empirical study for students with effective participation

Table 1: Summary of two-way ANOVA results for the differences of scores in the third empirical study for students with effective participation

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	1.938	1	0.281	0.599	
Type.Type	92.005	1	13.340	0.001	**
Type.CLRole	45.461	1	6.592	0.014	*
Type.Type:CLRole	0.013	1	0.002	0.965	
Type.Residuals	255.178	37			

Signif. codes: 0 "**" 0.01 "*" 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the differences of scores in the third empirical study for students with effective participation

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.ajd	g	sig	mag
Type.ont-gamified	23	1.821	1.383	0.595	37	0.178	2.589						
Type.w/o-gamified	18	-1.467	-1.853	0.657	37	-3.183	-0.523						
Type.ont-gamified - w/o-gamified	41	3.288	3.236	0.886		1.614	4.963	3.652	0.001	0.000	1.161	**	large
Type.ont-gamified.Apprentice	16	2.501	2.501	0.657	37	1.171	3.832						
Type.w/o-gamified.Apprentice	12	-0.696	-0.696	0.758	37	-2.232	0.840						
Type.ont-gamified.Apprentice - w/o-gamified.Apprentice	28	3.197	3.197	1.003		0.500	5.895	3.188	0.003	0.015	1.114	*	large
Type.ont-gamified.Master	7	0.265	0.265	0.993	37	-1.746	2.277						
Type.w/o-gamified.Master	6	-3.010	-3.010	1.072	37	-5.182	-0.838						
${\bf Type.ont\text{-}gamified.Master - w/o\text{-}gamified.Master}$	13	3.275	3.275	1.461		-0.655	7.205	2.242	0.031	0.131	1.385		