

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

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

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	101.714	1	37.278	0.000	
Type.Type	0.255	1	0.093	0.761	
Type.CLRole	30.625	1	11.224	0.002	**
Type.Type:CLRole	5.620	1	2.060	0.158	
Type.Residuals	117.327	43			

Signif. codes: 0 “\*\*\*” 0.01 “\*\*” 0.05

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

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Type.non-gamified	19	1.450	1.425	0.379	43	0.660	2.190						
Type.ont-gamified	28	1.575	1.575	0.312	43	0.946	2.205						
Type.non-gamified - ont-gamified	47	-0.125	-0.150	0.491		-1.116	0.865	-0.306	0.761	0.800	-0.065		
Type.non-gamified.Apprentice	10	1.895	1.895	0.522	43	0.842	2.949						
Type.ont-gamified.Apprentice	14	2.751	2.751	0.441	43	1.861	3.641						
Type.non-gamified.Apprentice - ont-gamified.Apprentice	24	-0.855	-0.855	0.684		-2.683	0.972	-1.251	0.218	0.599	-0.412		
Type.non-gamified.Master	9	0.954	0.954	0.551	43	-0.156	2.065						
Type.ont-gamified.Master	14	0.399	0.399	0.441	43	-0.491	1.290						
Type.non-gamified.Master - ont-gamified.Master	23	0.555	0.555	0.706		-1.331	2.441	0.786	0.436	0.860	0.456		