

Summary of parametric statistics analysis for Interest/Enjoyment score in the pilot study for students with effective participation

Table 1: Summary of two-way ANOVA results for Interest/Enjoyment score in the pilot study for students with effective participation

| | Sum Sq | Df | F value | Pr(>F) | Sig |
|------------------|---------|----|---------|--------|-----|
| Type.(Intercept) | 278.842 | 1 | 201.754 | 0.000 | |
| Type.Type | 4.597 | 1 | 3.326 | 0.086 | |
| Type.CLRole | 0.134 | 1 | 0.097 | 0.760 | |
| Type.Type:CLRole | 2.505 | 1 | 1.812 | 0.196 | |
| Type.Residuals | 23.496 | 17 | | | |

Signif. codes: 0 “***” 0.01 “**” 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for Interest/Enjoyment score in the pilot 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 | 7 | 3.862 | 3.728 | 0.492 | 17 | 2.691 | 4.766 | | | | | | |
| Type.ont-gamified | 14 | 4.613 | 4.827 | 0.348 | 17 | 4.093 | 5.561 | | | | | | |
| Type.non-gamified - ont-gamified | 21 | -0.751 | -1.099 | 0.602 | | -1.899 | 0.397 | -1.824 | 0.086 | 0.185 | -0.606 | | |
| Type.non-gamified.Apprentice | 5 | 4.040 | 4.040 | 0.526 | 17 | 2.931 | 5.150 | | | | | | |
| Type.ont-gamified.Apprentice | 10 | 4.328 | 4.328 | 0.372 | 17 | 3.544 | 5.112 | | | | | | |
| Type.non-gamified.Apprentice - ont-gamified.Apprentice | 15 | -0.288 | -0.288 | 0.644 | | -2.118 | 1.543 | -0.447 | 0.661 | 0.969 | -0.232 | | |
| Type.non-gamified.Master | 2 | 3.417 | 3.417 | 0.831 | 17 | 1.663 | 5.171 | | | | | | |
| Type.ont-gamified.Master | 4 | 5.326 | 5.326 | 0.588 | 17 | 4.086 | 6.566 | | | | | | |
| Type.non-gamified.Master - ont-gamified.Master | 6 | -1.909 | -1.909 | 1.018 | | -4.803 | 0.985 | -1.875 | 0.078 | 0.275 | -1.274 | | |