

Appendices

Table 1: Codebook vectors of the self-organizing map of the student activities across the three courses (year 2020-2021).

	V1	V2	V3	V4	V5	V6	V7	V8	V9
questions/module	-0.206	0.428	0.006	1.103	-0.220	-1.146	0.958	-0.984	-0.684
% public questions	1.003	0.277	-0.144	0.309	-0.132	-1.252	0.378	-1.101	-1.183
contributions/question	-0.280	-0.082	-0.026	-0.574	-0.368	2.235	-0.613	0.676	-0.462
correct H5P ex.	0.155	0.165	0.185	0.137	0.067	0.167	0.152	0.059	-2.763
trials/H5P ex.	-0.695	-0.364	-0.355	0.540	0.050	-0.287	0.825	0.825	-0.718
correct learnr ex.	0.364	0.608	0.456	-0.086	0.336	0.273	-2.956	-0.243	-0.991
trials/learnr ex.	-0.043	-0.276	-0.251	0.580	-0.342	-0.153	0.628	0.101	-1.171
hints/learnr ex.	-0.458	-0.442	0.405	-0.143	-0.183	-0.331	1.996	0.466	1.117
time/learnr ex.	-0.072	-0.013	-0.055	-0.106	-0.309	-0.232	1.331	-0.048	0.798
commits/ind. project	0.116	1.318	1.484	-0.383	-0.535	0.355	0.589	-0.702	-1.136
contributions/ind. project	0.238	0.917	2.037	-0.508	-0.501	0.046	0.086	-0.571	-0.623
commits/group project	-0.238	1.069	0.739	0.660	-0.715	-0.513	0.366	-0.266	-1.656
contributions/group project	-0.171	0.537	4.063	-0.184	-0.532	-0.193	0.080	-0.175	-0.821
% contribution to group projects	-0.257	0.007	1.364	0.209	-0.653	-0.472	0.885	1.043	-1.417
work done	0.294	0.266	0.232	0.210	0.072	0.256	0.036	0.144	-4.495
work done in time	0.505	-0.187	-0.455	0.866	-0.485	-0.818	-0.343	-0.554	-0.842