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| --- | --- | --- | --- | --- | --- |
| Latent variable | Questions | Mean | Standard deviation | Excess kurtosis | Skewness |
| IDL1 (Adapted from Henry & Cliffordson, 2017) | I see myself in the future as someone who is good at speaking/using English. | 2.609 | 0.944 | -0.618 | 0.075 |
| IDL2 | If my dreams come true, I will use English effectively in the future. | 2.728 | 0.945 | -0.849 | 0.103 |
| IDL3 | I see myself in the future as someone who uses English to communicate with people from abroad. | 2.717 | 1.004 | -0.610 | 0.204 |
| OUT1 (Adapted from Zheng et al., 2018) | I have to exchange language in VE because I don’t want to fail my university course. | 2.935 | 0.987 | -0.260 | 0.133 |
| OUT2 | Exchanging language in VE is important to me since my teachers usually stress its importance. | 3.000 | 1.043 | -0.730 | 0.117 |
| OUT3 | I have to exchange language in VE; otherwise, I think my teachers will be disappointed on me. | 2.967 | 0.994 | -0.617 | 0.066 |
| CU1 (adapted from Smith et al., 2020) | From now on, I see myself as someone who is good at speaking/using English in VE. | 3.250 | 0.842 | 0.084 | -0.173 |
| CU2 | Being someone who can speak/use English is part of the person I am now. | 3.120 | 1.082 | -0.593 | -0.138 |
| CU3 | I feel happy about being a person who can currently exchange language and information easily. | 3.109 | 0.914 | -0.549 | 0.041 |
| DSA1 (Adapted from Rahimi, 2023) | Learning English in VE is more interesting than a face-to-face language class. | 3.261 | 0.871 | -0.206 | 0.164 |
| DSA2 | I get greater personal motivation when I exchange information in VE than I do when I exchange information in face-to-face contexts. | 3.348 | 0.840 | -0.434 | 0.269 |
| DSA3 | The process of English language learning in the VE feels more real compared to the things we do in face-to-face English lessons. | 3.337 | 0.936 | -0.602 | 0.001 |
| CI1[[1]](#footnote-1) | My interests in exchanging language have changed after using VE. | 3.304 | 0.964 | 0.268 | -0.279 |
| CI2 | I now find learning English much more interesting than it was in the past. | 3.380 | 1.009 | -0.597 | 0.011 |
| CI3 | Previously, I was not interested in exchanging information and languages, but now I am highly interested in doing so. | 3.380 | 1.072 | -0.202 | -0.329 |
| PI1 | Now that I have decided to exchange language in VE, nothing can prevent me from reaching this goal. | 3.326 | 0.835 | 0.555 | -0.569 |
| PI2 | When it comes to exchanging language and information in VE, I am a hard-working learner. | 3.370 | 0.893 | -0.283 | 0.123 |
| PI3 | I devote much time and effort to the improvement of my language weaknesses in VE. | 3.380 | 0.919 | -0.217 | -0.238 |
| GS1[[2]](#footnote-2) | I set short-term and long-term goals while exchanging information in VE. | 3.413 | 0.911 | 0.235 | -0.396 |
| GS2 | I keep a learning high standard in VE. | 3.489 | 0.938 | -0.165 | -0.169 |
| GS3 | I set goals which help me manage my progress in VE. | 3.391 | 0.944 | -0.036 | -0.311 |
| SE1 | I communicate with my VE partners to find out how well I am performing in our VE tasks. | 3.402 | 0.933 | -0.195 | -0.077 |
| SE2 | I communicate with other VE groups to find out what I am learning that is different from what they are learning. | 3.413 | 0.991 | -0.966 | 0.246 |
| SE3 | I communicate with my project facilitator to find out how I am performing in our VE. | 3.446 | 1.097 | -0.800 | -0.211 |
| HS1 | I found someone who is knowledgeable in our VE so that I could consult with him/her when I needed help. | 3.500 | 1.128 | -0.710 | -0.393 |
| HS2 | I shared my problems with others in VE in order to gain a better understanding of what I was struggling with and how to solve the issue. | 3.598 | 1.143 | -0.638 | -0.490 |
| HS3 | I communicate with others in VE to find out what I am learning that is different from what they are learning. | 3.500 | 1.147 | -0.481 | -0.462 |
| TS1 | I prepare my questions before exchanging information in VE. | 3.500 | 1.128 | -0.710 | -0.393 |
| TS2 | I try to take more notes during my VE because these notes are even more important for exchanging information in VE than in a regular classroom. | 3.598 | 1.143 | -0.638 | -0.490 |
| TS3 | I avoided issues such as distractions in VE by expressing my concerns to my VE partners. | 3.500 | 1.147 | -0.481 | -0.462 |

1. All the L2 grit items adapted from Teimouri et al. (2020). [↑](#footnote-ref-1)
2. All the VESRL items adapted from Rahimi and Cheraghi (2022). [↑](#footnote-ref-2)