

FACTORS INFLUENCING THE DECISION TO USE ARTIFICIAL INTELLIGENCE TECHNOLOGY (CHATGPT - AI) IN LEARNING AT COLLEGES AND UNIVERSITIES IN VINH LONG PROVINCE

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Appendix 1. Scale

Variable	Content	Reference
Perceived Usefulness (PU)		
PU1	Using ChatGPT – AI in learning allows me to complete tasks faster.	
PU2	Using ChatGPT – AI increases my study productivity.	
PU3	Using ChatGPT – AI improves my learning performance (avoiding wasted effort and time).	Davis (1989)
PU4	I find ChatGPT – AI useful for my studies.	
PU5	Using ChatGPT – AI helps me perform tasks more easily	
Perceived Ease of Use (PEOU)		
PEOU1	Learning to use ChatGPT – AI is quite easy for me.	
PEOU2	I find ChatGPT – AI clear and easy to operate.	Davis (1989)
PEOU3	I find it easy to master ChatGPT – AI.	
PEOU4	I find ChatGPT – AI easy to use.	
Performance Expectancy (PE)		
PE1	I believe that using ChatGPT-AI in my studies will help me complete assignments and academic tasks faster.	
PE2	I think that using ChatGPT-AI will improve the quality of my learning outcomes.	Venkatesh <i>et al.</i> (2003)
PE3	I believe that using ChatGPT-AI will help me gain a better understanding of academic knowledge compared to traditional learning methods.	
PE4	I think that using ChatGPT-AI will enhance my learning efficiency.	
Effort Expectancy (EE)		
EE1	I find it easy to use ChatGPT – AI for my learning tasks.	
EE2	I believe that using ChatGPT – AI requires little time and effort to become familiar with and master.	
EE3	I think using ChatGPT – AI in learning is simple and not complicated.	Venkatesh <i>et al.</i> (2003)
EE4	I feel no difficulty in finding and using the necessary features of ChatGPT – AI when studying.	
EE5	I think ChatGPT – AI is designed to be user-friendly, helping me achieve my learning goals easily.	
Social Influence (SI): Ảnh hưởng xã hội		
SI1	I feel influenced by the opinions of my friends or colleagues when deciding to use ChatGPT – AI.	
SI2	People important to me (such as teachers, instructors, or family members) encourage me to use ChatGPT – AI in my studies.	Venkatesh <i>et al.</i> (2003)
SI3	I believe that the opinions of those I trust and respect have influenced my decision to use ChatGPT – AI.	
SI4	I believe that using ChatGPT – AI will help me gain recognition and acceptance from others in my learning community.	
Technology Innovativeness (TI)		
TI1	When I learn about a new technology like ChatGPT – AI, I tend to explore and use it immediately.	
TI2	I feel excited about using advanced technologies like ChatGPT – AI, even when they are new and not widely known.	Dang, H. L. (2020)
TI3	I believe that the ability to experiment with and use new technologies like ChatGPT – AI helps me stay ahead in adopting modern learning methods.	

Variable	Content	Reference
TI4	I often seek out and update information about new technologies like ChatGPT – AI to apply in my studies.	
Habit (H)		
H1	Using ChatGPT – AI has become a habit for me.	Venkatesh <i>et al.</i> (2012)
H2	I use ChatGPT – AI regularly.	
H3	Even without any obligation, I still find it necessary to use ChatGPT – AI.	
H4	Using ChatGPT – AI has become natural to me.	
Decision to Use (DU)		
DU1	I can use ChatGPT – AI for my studies.	Davis (1989)
DU2	I use ChatGPT – AI more frequently when studying.	
DU3	I will continue to use ChatGPT – AI for my studies in the future.	
DU4	ChatGPT – AI makes me feel satisfied.	
DU5	I appreciate using ChatGPT – AI for my studies.	

Appendix 2. Exploratory Factor Analysis (EFA) Results

KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.853
	Approx. Chi-Square	5129.857
Bartlett's Test of Sphericity	df	435
	Sig.	.000

Communalities		
	Initial	Extraction
PU1	1.000	.823
PU2	1.000	.797
PU3	1.000	.783
PU4	1.000	.758
PU5	1.000	.787
PEOU1	1.000	.827
PEOU2	1.000	.808
PEOU3	1.000	.790
PEOU4	1.000	.828
PE1	1.000	.776
PE2	1.000	.684
PE3	1.000	.721
PE4	1.000	.814
EE1	1.000	.829
EE2	1.000	.741
EE3	1.000	.717
EE4	1.000	.704
EE5	1.000	.767
SI1	1.000	.738
SI2	1.000	.773
SI3	1.000	.721
SI4	1.000	.769
TI1	1.000	.806
TI2	1.000	.759

TI3	1.000	.731
TI4	1.000	.760
H1	1.000	.770
H2	1.000	.771
H3	1.000	.626
H4	1.000	.800

Extraction Method: Principal
Component Analysis.

Total Variance Explained									
Component	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.199	23.996	23.996	7.199	23.996	23.996	3.973	13.244	13.244
2	3.658	12.193	36.189	3.658	12.193	36.189	3.747	12.490	25.735
3	3.006	10.020	46.209	3.006	10.020	46.209	3.262	10.872	36.606
4	2.861	9.536	55.745	2.861	9.536	55.745	3.044	10.147	46.754
5	2.307	7.690	63.435	2.307	7.690	63.435	3.004	10.013	56.767
6	2.188	7.293	70.728	2.188	7.293	70.728	2.998	9.993	66.759
7	1.761	5.870	76.598	1.761	5.870	76.598	2.952	9.839	76.598
8	.552	1.841	78.439						
9	.521	1.737	80.176						
10	.478	1.594	81.770						
11	.441	1.470	83.240						
12	.425	1.416	84.655						
13	.405	1.350	86.005						
14	.374	1.246	87.251						
15	.360	1.201	88.452						
16	.354	1.181	89.633						
17	.328	1.092	90.725						
18	.308	1.026	91.751						
19	.287	.957	92.708						
20	.279	.931	93.639						
21	.255	.850	94.489						
22	.240	.799	95.288						
23	.214	.713	96.001						
24	.202	.674	96.675						
25	.187	.622	97.296						
26	.183	.611	97.908						
27	.167	.557	98.464						

28	.158	.527	98.991
29	.156	.519	99.510
30	.147	.490	100.000

Extraction Method: Principal Component Analysis.

Rotated Component Matrix^a

	Component						
	1	2	3	4	5	6	7
PU1	.887						
PU2	.870						
PU3	.857						
PU5	.845						
PU4	.838						
EE1		.882					
EE5		.863					
EE2		.834					
EE3		.824					
EE4		.823					
PEOU1			.883				
PEOU4			.875				
PEOU2			.872				
PEOU3			.859				
TI1				.868			
TI2				.837			
TI4				.834			
TI3				.822			
SI4					.847		
SI2					.847		
SI1					.831		
SI3					.804		
PE4						.889	
PE1						.865	
PE3						.836	
PE2						.801	
H4							.876
H1							.867
H2							.860
H3							.758

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 6 iterations.

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.890
	Approx. Chi-Square	714.312
Bartlett's Test of Sphericity	df	10
	Sig.	.000

Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	3.578	71.564	71.564	3.578	71.564	71.564
2	.425	8.505	80.070			
3	.369	7.375	87.445			
4	.330	6.594	94.039			
5	.298	5.961	100.000			

Extraction Method: Principal Component Analysis.
