Tables and figures explaining the Dataset of Vietnamese student's learning habit during COVID-19

Descriptive statistics on student's learning behavior during school closure due to COVID-19 based on 12 different parameters are presented in Table 1, Table 2, Table 3, Table 4, Table 5, Table 6, Table 7, Table 8, Table 9, Table 10, Table 11, Table 12. Figures 1~12 present those data in bar charts, respectively.

Table 1. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Gender).

00,12		ing hours	Total Mean	Std.	95% Confidence Interval for Mean		Min	Max	
	Learn	ing nours	Total	Wican	Deviation	Lower Bound	Upper Bound	IVIIII	14142
		Total	166	3.78	2.905	3.33	4.22	0	15
		Total Online	166	2.77	3.129	2.29	3.25	0	21
	Male	Total Offline	166	2.95	3.186	2.46	3.43	0	21
	171410	Hours with instruction	166	1.61	2.488	1.23	1.99	0	20
		Hours wihout instruction	166	4.11	4.825	3.37	4.85	0	42
		Total	239	3.80	2.653	3.47	4.14	0	12
		Total Online	239	2.60	3.061	2.21	2.99	0	30
GEN	Female	Total Offline	239	2.90	2.451	2.59	3.21	0	11
DER		Hours with instruction	239	1.07	1.641	.86	1.28	0	10
		Hours wihout instruction	239	4.43	4.167	3.90	4.96	0	31
		Total	15	3.80	2.704	2.30	5.30	0	10
		Total Online	15	4.27	5.257	1.36	7.18	0	18
N	Not public	Total Offline	15	3.33	4.220	1.00	5.67	0	17
	1	Hours with instruction	15	2.60	3.542	.64	4.56	0	12
		Hours wihout instruction	15	5.00	3.854	2.87	7.13	0	12

Table 2. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (School type).

	Learning h	ours	Total		Std. Deviatio n	95% Con Interval f Lower	for Mean Upper	Min	Max
		Total	186	3.44	2.584	Bound 3.06	Bound 3.81	0	15
		Total Online	186	2.33	2.630	1.95	2.71	0	20
	Public school (normal)	Total Offline	186	2.77	2.792	2.37	3.18	0	20
		Hours with instruction	186	1.30	2.202	.98	1.61	0	20
School type		Hours wihout instruction	186	3.81	3.264	3.34	4.28	0	20
	Public	Total	132	4.15	2.951	3.64	4.66	0	12
	school (Gifted)	Total Online	132	2.67	3.149	2.12	3.21	0	18
		Total Offline	132	3.17	2.728	2.70	3.64	0	12

	Hours with instruction	132	.80	1.714	.51	1.10	0	12
	Hours wihout instruction	132	5.04	4.751	4.22	5.86	0	24
	Total	94	4.03	2.682	3.48	4.58	0	12
	Total Online	94	3.65	4.026	2.82	4.47	0	30
Privat	Total Offile	94	3.01	3.085	2.38	3.64	0	21
schoo (norma	Hours with	94	2.11	2.274	1.64	2.57	0	10
	Hours wihout instruction	94	4.55	5.743	3.38	5.73	0	42
	Total	8	3.38	3.335	.59	6.16	0	9
	Total Online	8	2.00	3.207	68	4.68	0	8
Internat	ion Total Ofline	8	1.75	2.053	.03	3.47	0	5
al scho		8	2.00	2.138	.21	3.79	0	5
	Hours wihout instruction	8	1.75	2.121	02	3.52	0	5

Table 3. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Grade level).

	Learning h	Moure	Total	l Mean	Std.	95% Confidence Interval for Mean		Min	Max
	Learning	iours	Total	Wican	Deviation	Lower Bound	Upper Bound	IVIIII	Wiax
		Total	234	3.95	2.721	3.60	4.30	0	15
		Total Online	234	2.90	3.335	2.47	3.33	0	30
	Secondary	Total Ofline	234	2.91	2.847	2.54	3.27	0	21
	school	Hours with instruction	234	1.51	2.167	1.23	1.79	0	20
Grade		Hours wihout instruction	234	4.30	4.554	3.71	4.89	0	42
level		Total	186	3.60	2.783	3.19	4.00	0	12
		Total Online	186	2.51	3.000	2.07	2.94	0	18
	TT' 1 1 1	Total Ofline	186	2.97	2.817	2.56	3.38	0	17
	High school	Hours with instruction	186	1.12	2.055	.82	1.42	0	12
		Hours wihout instruction	186	4.35	4.266	3.74	4.97	0	24

Table 4. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Family income).

	Learning hours			Mean	Std. Deviation	95% Confidence Interval for Mean		Min	Max
					Beviation	Lower Bound	Upper Bound		
	Less	Total	62	3.44	2.393	2.83	4.04	0	10
Family income	than 430	Total Online	62	2.44	2.170	1.88	2.99	0	8
	USD -	Total Ofline	62	3.06	2.573	2.41	3.72	0	11

		Hours with instruction	62	1.37	1.935	.88	1.86	0	8
		Hours wihout instruction	62	4.13	3.546	3.23	5.03	0	16
_		Total	141	3.35	2.394	2.96	3.75	0	12
	From	Total Online	141	2.20	2.198	1.83	2.56	0	10
	430 to	Total Ofline	141	2.74	2.598	2.30	3.17	0	17
	under	Hours with	141	1.13	1.591	.87	1.40	0	7
	860 USD	instruction Hours wihout instruction	141	3.80	3.298	3.25	4.35	0	18
		Total	97	4.01	3.084	3.39	4.63	0	15
	From	Total Online	97	3.06	4.227	2.21	3.91	0	30
	860 to	Total Ofline	97	3.00	3.072	2.38	3.62	0	20
	under 1,290	Hours with	97	1.42	2.621	.89	1.95	0	20
_	USD	instruction Hours wihout instruction	97	4.64	5.300	3.57	5.71	0	31
		Total	50	4.56	2.666	3.80	5.32	0	10
	From	Total Online	50	2.88	2.616	2.14	3.62	0	10
	1,290 to	Total Ofline	50	3.16	2.668	2.40	3.92	0	10
	under 1,720	Hours with	50	1.30	1.821	.78	1.82	0	8
	ÚSD	instruction Hours wihout instruction	50	4.74	4.179	3.55	5.93	0	18
		Total	30	4.47	3.224	3.26	5.67	0	12
	From	Total Online	30	3.73	3.062	2.59	4.88	0	10
	1,720 to	Total Ofline	30	2.83	2.493	1.90	3.76	0	10
	under 2,150	Hours with instruction	30	2.00	2.491	1.07	2.93	0	10
	USD	Hours wihout instruction	30	4.57	3.626	3.21	5.92	0	16
		Total	40	3.90	3.095	2.91	4.89	0	12
		Total Online	40	3.28	4.766	1.75	4.80	0	21
	Over 2,150	Total Ofline	40	3.05	3.796	1.84	4.26	0	21
		Hours with instruction	40	1.33	2.712	.46	2.19	0	12
		Hours wihout instruction	40	5.00	6.976	2.77	7.23	0	42

Table 5. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Siblings).

	I earnir	Learning hours		Mean Deviation I		onfidence for Mean	Min	Max	
			Total		Deviation	Lower Bound	Upper Bound	IVIIII	IVIUX
		Total	38	3.55	3.422	2.43	4.68	0	15
Siblings	One	Total Online	38	2.92	3.996	1.61	4.23	0	20
Sibilligs	person	Total Ofline	38	3.29	3.999	1.97	4.60	0	20
		Hours with instruction	38	1.58	3.350	.48	2.68	0	20

		Hours wihout instruction	38	4.63	5.329	2.88	6.38	0	20
•		Total	247	3.90	2.636	3.57	4.23	0	12
		Total Online	247	2.60	2.665	2.27	2.94	0	18
	Two	Total Ofline	247	2.74	2.424	2.44	3.04	0	17
	persons	Hours with instruction	247	1.32	1.921	1.08	1.56	0	12
		Hours wihout instruction	247	4.03	3.442	3.60	4.46	0	24
•		Total	57	3.40	2.744	2.68	4.13	0	10
		Total Online	57	2.96	4.400	1.80	4.13	0	30
	Three	Total Ofline	57	2.53	2.323	1.91	3.14	0	11
	persons	Hours with instruction	57	.77	1.464	.38	1.16	0	8
		Hours wihout instruction	57	4.72	5.150	3.35	6.09	0	31
•		Total	78	3.85	2.773	3.22	4.47	1	12
		Total Online	78	2.85	3.303	2.10	3.59	0	21
	Over 4	Total Ofline	78	3.67	3.515	2.87	4.46	0	21
	persons	Hours with instruction	78	1.69	2.332	1.17	2.22	0	10
		Hours wihout instruction	78	4.82	5.917	3.49	6.15	0	42

Table 6. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Father's job).

	Loovning	z hours	Total	Mean	Std.		onfidence for Mean	Min	Max
	Learning	Total Total Online Total Offline Hours with instruction Hours wihout instruction Total Total Online Social Total Offline Hours with instruction Hours with instruction Hours with instruction Hours with instruction Hours wihout		Mean	Deviation	Lower Bound	Upper Bound	IVIIII	Max
		Total	141	3.87	2.686	3.43	4.32	0	15
		Total Online	141	2.72	2.670	2.28	3.17	0	20
	CEPTA 6	Total Ofline	141	2.94	2.920	2.46	3.43	0	20
	STEM		141	1.55	2.500	1.13	1.96	0	20
			141	4.12	3.392	3.56	4.69	0	20
		Total	172	3.99	2.884	3.55	4.42	0	12
		Total Online	172	3.02	3.874	2.44	3.61	0	30
Father's	Social	Total Ofline	172	3.06	2.894	2.63	3.50	0	21
job	siences		172	1.26	1.972	.96	1.56	0	12
			172	4.83	5.402	4.01	5.64	0	42
		Total	73	3.47	2.729	2.83	4.10	0	11
		Total Online	73	2.33	2.754	1.69	2.97	0	11
	-	Total Ofline	73	2.95	2.823	2.29	3.60	0	11
	Free	Hours with instruction	73	1.27	1.895	.83	1.72	0	9
		Hours wihout instruction	73	4.00	4.200	3.02	4.98	0	22

	Total	34	3.18	2.302	2.37	3.98	0	12
	Total Online	34	2.09	1.913	1.42	2.76	0	7
	Total Ofline	34	2.21	2.027	1.50	2.91	0	9
Others	Hours with instruction	34	.97	1.566	.42	1.52	0	7
	Hours wihout instruction	34	3.32	2.682	2.39	4.26	0	14

Table 7. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Mother's job).

	Learning	g hours	Total	Mean	Std. Deviation			Min	Max
		Total	32	3.88	2.756	2.88	4.87	0	12
		Total Online	32	2.84	2.737	1.86	3.83	0	12
		Total Ofline	32	3.09	2.493	2.19	3.99	0	12
	Stem	Hours with	32	1.97	1.926	1.27	2.66	0	7
		instruction Hours wihout instruction	32	3.97	4.454	2.36	5.57	0	24
		Total	270	4.01	2.862	3.67	4.36	0	15
		Total Online	270	2.81	3.109	2.43	3.18	0	21
	Social	Total Ofline	270	3.05	3.040	2.68	3.41	0	21
	siences	Hours with	270	1.36	2.309	1.08	1.63	0	20
Mother's		instruction Hours wihout instruction	270	4.50	4.481	3.96	5.04	0	42
Mother's job		Total	63	3.03	2.514	2.40	3.66	0	10
		Total Online	63	2.56	4.402	1.45	3.66	0	30
	Б	Total Ofline	63	2.73	2.737	2.04	3.42	0	11
	Free	Hours with	63	.95	1.708	.52	1.38	0	9
		instruction Hours wihout instruction	63	4.33	5.334	2.99	5.68	0	31
		Total	55	3.53	2.300	2.91	4.15	0	10
		Total Online	55	2.45	2.062	1.90	3.01	0	10
	O41	Total Ofline	55	2.51	1.904	1.99	3.02	0	8
	Others	Hours with	55	1.31	1.609	.87	1.74	0	8
		instruction Hours wihout instruction	55	3.65	2.661	2.94	4.37	0	14

Table 8. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Occupational Aspiration).

Learning hours	Total	Mean	Std. Deviation		onfidence for Mean	Min	Max
Learning nours	Total			Lower Bound	Upper Bound		
A Total	52	3.44	2.209	2.83	4.06	0	9

		Total Online	52	2.83	2.084	2.25	3.41	0	8
		Total Ofline	52	2.27	1.921	1.73	2.80	0	8
		Hours with instruction	52	1.63	2.205	1.02	2.25	0	9
		Hours without instruction	52	3.46	2.469	2.77	4.15	0	10
		Total	64	4.70	2.758	4.01	5.39	0	12
		Total Online	64	3.47	3.568	2.58	4.36	0	18
		Total Ofline	64	3.70	2.915	2.97	4.43	0	12
	A1	Hours with instruction	64	1.34	1.887	.87	1.82	0	12
0 2 1		Hours without instruction	64	5.83	5.302	4.50	7.15	0	24
Occupational Aspiration		Total	23	4.48	2.192	3.53	5.43	1	9
Aspiration		Total Online	23	3.17	1.875	2.36	3.98	0	7
	_	Total Ofline	23	3.57	2.643	2.42	4.71	1	10
	В	Hours with instruction	23	1.96	2.266	.98	2.94	0	7
-		Hours without instruction	23	4.78	2.844	3.55	6.01	1	12
		Total	22	3.32	3.414	1.80	4.83	0	12
		Total Online	22	4.27	7.363	1.01	7.54	0	30
		Total Ofline	22	2.50	4.362	.57	4.43	0	21
	С	Hours with instruction	22	.95	1.327	.37	1.54	0	4
		Hours without instruction	22	5.82	10.423	1.20	10.44	0	42
		Total	187	3.74	2.863	3.32	4.15	0	15
		Total Online	187	2.42	2.877	2.00	2.83	0	20
	ъ	Total Ofline	187	3.02	2.954	2.59	3.44	0	20
	D	Hours with instruction	187	1.15	2.219	.83	1.47	0	20
		Hours without instruction	187	4.28	3.898	3.72	4.85	0	22
		Total	72	3.31	2.587	2.70	3.91	0	10
		Total Online	72	2.18	2.254	1.65	2.71	0	10
		Total Ofline	72	2.44	2.264	1.91	2.98	0	10
	Other	Hours with instruction	72	1.51	2.149	1.01	2.02	0	10
		Hours without instruction	72	3.11	2.625	2.49	3.73	0	10

Table 9. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Learning hours at home before COVID-19).

student's learning behavior (during			Total	Total Mean	Std.	95% C Interva	Min	Max	
	COVID)- 19)	Total	ivican	Deviation	Lower Bound	Upper Bound	141111	IVIAX
Learning	Under	Total	312	2.97	2.088	2.74	3.20	0	12
hours at	4h	Total Online	312	2.11	2.801	1.79	2.42	0	30

			212	0.45	0.470	0.17	2.72	0	21
home		Total Ofline	312	2.45	2.478	2.17	2.72	0	21
before COVID-		Hours with instruction	312	1.11	1.684	.92	1.30	0	12
19		Hours without instruction	312	3.44	3.935	3.00	3.88	0	42
		Total	93	5.91	2.936	5.31	6.52	0	12
		Total Online	93	4.18	3.176	3.53	4.84	0	12
From 4	Total Ofline	93	4.08	2.818	3.49	4.66	0	12	
	to 7h	Hours with instruction	93	1.72	2.252	1.26	2.18	0	11
		Hours without instruction	93	6.54	4.415	5.63	7.45	0	24
		Total	15	7.80	3.278	5.98	9.62	2	15
		Total Online	15	6.60	5.082	3.79	9.41	0	20
		Total Ofline	15	6.00	5.210	3.11	8.89	0	20
	Over 7h	Hours with instruction	15	3.67	5.551	.59	6.74	0	20
		Hours without instruction	15	8.93	6.408	5.38	12.48	0	20

Table 10. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Self-evaluation on academic performance).

student's lear	student's learning behavior (during COVID-19)			Mean	Std. Deviation	Confi Interv	dence val for ean Upper Bound	Min	Max
		Total	53	4.57	3.092	3.71	5.42	0	10
		Total Online	53	3.04	2.773	2.27	3.80	0	10
	44	Total Ofline	53	2.51	2.367	1.86	3.16	0	10
	Excellence	Hours with	53	1.21	1.885	.69	1.73	0	8
		instruction Hours without instruction	53	4.34	3.519	3.37	5.31	0	18
		Total	251	3.97	2.801	3.62	4.32	0	15
		Total Online	251	2.94	3.597	2.49	3.39	0	30
Self-	C 1	Total Ofline	251	3.25	3.087	2.86	3.63	0	21
evaluation on academic	Good	Hours with instruction	251	1.37	2.258	1.09	1.65	0	20
performance		Hours without instruction	251	4.82	4.891	4.21	5.42	0	42
		Total	109	3.11	2.327	2.67	3.55	0	12
		Total Online	109	2.11	2.229	1.69	2.53	0	12
	A	Total Ofline	109	2.39	2.325	1.95	2.84	0	12
	Average	Hours with	109	1.32	1.929	.95	1.69	0	11
		instruction Hours without instruction	109	3.18	3.386	2.54	3.83	0	24
	Below	Total	7	2.14	1.773	.50	3.78	0	5
	Average	Total Online	7	2.29	2.628	14	4.72	0	7

Total Ofline	7	3.29	2.289	1.17	5.40	0	7
Hours with instruction	7	1.29	2.215	76	3.33	0	5
Hours without instruction	7	4.29	4.716	08	8.65	0	14

Table 11. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (English).

studen	t's learning be COVID-1	havior (during 19)	Total	Mean	Std. Deviation	Confi Interv	dence val for ean Upper Bound	Min	Max
•		Total	59	4.71	3.275	3.86	5.57	0	15
		Total Online	59	3.29	3.499	2.38	4.20	0	20
		Total Ofline	59	3.17	3.394	2.28	4.05	0	20
	Excellence	Hours with	59	1.39	2.983	.61	2.17	0	20
		instruction Hours without instruction	59	5.07	4.362	3.93	6.20	0	22
	Good	Total	191	3.95	2.759	3.56	4.35	0	12
		Total Online	191	2.84	3.633	2.32	3.36	0	30
		Total Ofline	191	3.04	3.015	2.61	3.47	0	21
		Hours with	191	1.33	1.936	1.05	1.61	0	12
En allah		instruction Hours without instruction	191	4.55	5.129	3.82	5.29	0	42
English		Total	135	3.36	2.390	2.96	3.77	0	12
		Total Online	135	2.49	2.473	2.07	2.91	0	12
		Total Ofline	135	2.79	2.287	2.40	3.17	0	12
	Average	Hours with	135	1.44	2.047	1.09	1.79	0	11
		instruction Hours without instruction	135	3.84	3.462	3.25	4.43	0	24
		Total	35	3.03	2.640	2.12	3.94	0	12
		Total Online	35	2.06	2.363	1.25	2.87	0	10
	Below	Total Ofline	35	2.51	2.683	1.59	3.44	0	11
	Average	Hours with	35	.89	1.659	.32	1.46	0	7
	Average	instruction Hours without instruction	35	3.69	3.437	2.51	4.87	0	16

Table 12. Descriptive statistics of the number of student's learning behavior (during COVID-19) with parameter (Internet and Additional Resources).

student's learning behavior (during COVID-19)	Total	Mean	Std. Deviation	Confidence Interval for	Min	Max	
				Mean			

						Lower Bound	Upper Bound		
		Total	223	3.83	2.732	3.47	4.19	0	12
		Total Online	223	2.67	2.847	2.30	3.05	0	18
	Strongly	Total Ofline	223	2.63	2.356	2.32	2.94	0	12
	agree	Hours with instruction	223	1.14	1.814	.90	1.38	0	12
		Hours without instruction	223	4.16	4.015	3.63	4.69	0	24
		Total	106	3.94	3.023	3.36	4.53	0	15
	Agree	Total Online	106	3.14	4.306	2.31	3.97	0	30
		Total Ofline	106	3.27	3.579	2.58	3.96	0	21
		Hours with instruction	106	1.59	2.643	1.09	2.10	0	20
		Hours without instruction	106	4.82	5.712	3.72	5.92	0	42
	Neither agree nor disagree	Total	74	3.59	2.398	3.04	4.15	0	10
		Total Online	74	2.39	2.316	1.86	2.93	0	10
Internet and		Total Ofline	74	3.27	2.815	2.62	3.92	0	11
Resources		Hours with instruction	74	1.28	1.847	.86	1.71	0	9
		Hours without instruction	74	4.38	3.494	3.57	5.19	0	16
		Total	11	3.00	3.000	.98	5.02	0	10
		Total Online	11	1.55	1.864	.29	2.80	0	5
	D.	Total Ofline	11	2.64	3.042	.59	4.68	0	10
	Disagree	Hours with instruction	11	2.00	2.191	.53	3.47	0	6
		Hours without instruction	11	2.18	1.991	.84	3.52	0	5
		Total	6	3.67	2.503	1.04	6.29	1	8
		Total Online	6	3.67	3.204	.30	7.03	0	8
	Strongly	Total Ofline	6	4.67	3.077	1.44	7.90	1	8
	disagree	Hours with instruction	6	3.50	4.037	74	7.74	0	9
		Hours without instruction	6	4.83	6.014	-1.48	11.14	0	16

Figures from 13 to 18 visualize the descriptive statistic of number of student's learning hours (before and during COVID-19) based on student's different perceptions about self-learning, which are presented in Table 13, Table 14, Table 15, Table 16, Table 17, Table 18.

Table 13. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (Self-learning to ensure the academic progress)

Self-learning to ensure the academic progress	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
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	T 1	under 4h	7	1	16	67	35
	Learn hour before COVID	from 4 to 7h	3	1	3	19	6
Male	octore co vib	over 7h	0	0	2	4	2
Maie		under 4h	7	1	13	45	25
Learn hour during COVID	from 4 to 7h	3	1	5	35	11	
	during CO VID	over 7h	0	0	3	10	7
Learn hour before COVID	under 4h	8	3	28	100	35	
	from 4 to 7h	6	1	5	29	17	
Female	octore co vib	over 7h	0	0	0	6	1
remate		under 4h	6	4	23	72	24
	Learn hour during COVID	from 4 to 7h	5	0	9	48	18
	during CO VID	over 7h	3	0	1	15	11
	T 1	under 4h	0	0	2	9	1
	Learn hour before COVID	from 4 to 7h	0	0	0	2	1
Not	octore CO VID	over 7h	0	0	0	0	0
public		under 4h	0	0	0	8	1
	Learn hour during COVID	from 4 to 7h	0	0	2	3	0
	daring CO (ID	over 7h	0	0	0	0	1

Table 14. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (To maintain learning habit)

	To maintain learn	ning habit	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
		under 4h	5	1	30	55	35
	Learn hour before COVID	from 4 to 7h	3	0	3	19	7
Male	ocioic co vib	over 7h	0	0	3	3	2
Maie	T 1	under 4h	5	1	27	40	18
Learn hour during COVID	from 4 to 7h	3	0	6	28	18	
	during CO VID	over 7h	0	3 0 3 19 0 0 3 3 5 1 27 40 3 0 6 28	8		
	T 1	under 4h	8	4	25	111	26
	Learn hour before COVID	from 4 to 7h	4	1	6	29	18
Female	belore covid	over 7h	0	0	0	4	3
remate	T 1	under 4h	5	4	20	83	17
	Learn hour during COVID	from 4 to 7h	5	1	9	50	15
	during CO VID	over 7h	2	0	2	11	15
		under 4h	0	0	2	9	1
37.	Learn hour before COVID	from 4 to 7h	0	0	0	3	0
Not public		over 7h	0	0	0	0	0
Puone	Learn hour	under 4h	0	0	2	6	1
	during COVID	from 4 to 7h	0	0	0	5	0

over 7h	0	0	0	1	0
OVEL /III	U	U	U	1	U

Table 15. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (Because my teachers show me that it is necessary)

Because my teachers show me that it is necessary		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
	т 1	under 4h	11	7	25	51	32
	Learn hour before COVID	from 4 to 7h	4	1	5	16	6
Male	belore covid	over 7h	0	0	1	5	2
Maic	T 1	under 4h	8	8	19	33	23
	Learn hour during COVID	from 4 to 7h	6	0	10	28	11
	during COVID	over 7h	1	0	2	11	6
	Learn hour before COVID	under 4h	8	8	36	104	18
		from 4 to 7h	6	3	8	32	9
Female		over 7h	0	1	2	3	1
remate	T 1	under 4h	3	5	27	82	12
	Learn hour during COVID	from 4 to 7h	6	4	13	46	11
	during CO VID	over 7h	5	3	6	11	5
		under 4h	0	0	5	6	1
	Learn hour before COVID	from 4 to 7h	0	0	1	2	0
Not	ocioic co (ib	over 7h	0	0	0	0	0
public		under 4h	0	0	3	6	0
	Learn hour during COVID	from 4 to 7h	0	0	3	1	1
	during COVID	over 7h	0	0	0	1	0

Table 16. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (Because my parents show me that it is necessary)

Because my parents show me that it is necessary			Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
	T 1	under 4h	10	5	22	52	37
	Learn hour before COVID	from 4 to 7h	3	1	4	15	9
Male	belofe CO VID	over 7h	0	0	2	4	2
Maie		under 4h	8	5	18	35	25
	Learn hour during COVID	from 4 to 7h	4	1	8	27	15
	during COVID	over 7h	1	0	2	9	8

		under 4h	7	8	40	100	19
	Learn hour before COVID	from 4 to 7h	5	5	6	34	8
Female	octore co vib	over 7h	1	0	0	4	2
remate	T 1	under 4h	3	7	28	81	10
	Learn hour during COVID	from 4 to 7h	5	4	15	43	13
	during CO VID	over 7h	5	2	3	14	6
	Learn hour before COVID	under 4h	0	0	3	8	1
		from 4 to 7h	0	0	0	2	1
Not	001010 00 112	over 7h	0	0	0	0	0
public		under 4h	0	0	2	6	1
	Learn hour during COVID	from 4 to 7h	0	0	1	4	0
	daring COVID	over 7h	0	0	0	0	1

Table 17. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (Because my siblings show me that it is necessary)

Because my siblings show me that it is necessary		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
		under 4h	18	14	41	38	15
	Learn hour before COVID	from 4 to 7h	4	1	8	13	6
Male	ocioic co vib	over 7h	0	2	2	3	1
Iviaie	т 1	under 4h	10	12	31	26	12
	Learn hour during COVID	from 4 to 7h	11	3	17	19	5
		over 7h	1	2	3	9	5
	T 1	under 4h	15	17	46	83	13
	Learn hour before COVID	from 4 to 7h	7	10	12	25	4
Female		over 7h	1	1	1	3	1
Telliale	T 1	under 4h	7	15	35	63	9
	Learn hour during COVID	from 4 to 7h	8	9	15	41	7
		over 7h	8	4	9	7	2
		under 4h	0	1	6	5	0
	Learn hour before COVID	from 4 to 7h	1	0	1	1	0
Not		over 7h	0	0	0	0	0
public		under 4h	0	0	5	4	0
	Learn hour during COVID	from 4 to 7h	1	1	1	2	0
	during COVID	over 7h	0	0	1	0	0

Table 18. Descriptive statistics of the number of student's learning behavior (before and during COVID-19) based on student's perception about self-learning (Because my friends show me that it is necessary)

Because my friends show me that it is necessary			Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
	т 1	under 4h	18	15	45	33	15
	Learn hour before COVID	from 4 to 7h	4	2	11	11	4
Male		over 7h	0	0	2	4	2
Maic	т 1	under 4h	12	13	31	23	12
	Learn hour during COVID	from 4 to 7h	9	4	20	19	3
	during co vib	over 7h	1	0	7	6	6
	т 1	under 4h	16	22	47	75	14
	Learn hour before COVID	from 4 to 7h	4	9	16	26	3
Female	ocioic covid	over 7h	1	1	1	3	1
remaie	т 1	under 4h	6	19	35	59	10
	Learn hour during COVID	from 4 to 7h	8	9	24	33	6
	during CO VID	over 7h	7	4	5	12	2
		under 4h	0	1	3	7	1
	Learn hour before COVID	from 4 to 7h	0	0	1	1	1
Not	belore covid	over 7h	0	0	0	0	0
public		under 4h	0	1	2	6	0
	Learn hour during COVID	from 4 to 7h	0	0	1	2	2
	during COVID	over 7h	0	0	1	0	0

The descriptive statistic of the student's learning hours during school suspension and the different factors that support their learning are presented in Table 19, Table 20, Table 21, Table 22, Table 23, Table 24, and Table 25. The bar charts in figures 19 to 25 visualize those data respectively.

Table 19. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (My individual motivation toward learning)

My individual motivation toward learning		Strongly disagree	Disagree		Neither agree nor disagree	Agree	Strongly agree	
	Learn	under 4h	11		9	35	31	5
Male	hour during	from 4 to 7h	3		2	13	25	12
	COVID	over 7h	0		1	2	10	7
	Learn	under 4h	6		15	47	56	5
Female	hour during	from 4 to 7h	2		5	25	41	7
	COVID	over 7h	3		0	5	15	7
Not public	Learn	under 4h	0		4	3	1	1
	hour	from 4 to 7h	0		1	1	3	0

-						
during COVID	over 7h	0	0	0	0	1

Table 20. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (My concentration skill)

My concentra	ation skill		Strongly disagree	Disagree		Neither agree nor disagree	Agree	Strongly agree
	Learn	under 4h	Ģ)	9	36	33	4
Male	hour during	from 4 to 7h	4	ļ	6	17	24	4
	COVID	over 7h	()	0	7	5	8
	Learn	under 4h	5	;	18	52	47	7
Female	hour during	from 4 to 7h	2	2	8	21	44	5
	COVID	over 7h	2	2	1	7	13	7
	Learn hour during	under 4h	()	3	4	1	1
Not public		from 4 to 7h	()	2	2	1	0
	COVID	over 7h	()	0	0	1	0

Table 21. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (Encouragement and support from my family)

Encouragement and support from my family		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
	Learn	under 4h	12	11	18	40	10
Male	hour during	from 4 to 7h	3	12	5	26	9
	COVID	over 7h	0	1	3	9	7
	Learn	under 4h	5	26	36	57	5
Female	hour during	from 4 to 7h	5	10	16	41	8
	COVID	over 7h	4	9	5	9	3
	Learn	under 4h	0	2	4	3	0
Not public	hour during	from 4 to 7h	0	0	0	4	1
	COVID	over 7h	0	0	0	1	0

Table 22. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (Effective learning space)

Effective learning space		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
	Learn	under 4h	10	7	27	38	9
Male	hour during	from 4 to 7h	4	5	19	11	16
	COVID	over 7h	1	2	2	7	8
	Learn	under 4h	4	14	32	72	7
Female	hour during	from 4 to 7h	3	5	17	45	10
	COVID	over 7h	2	2	4	13	9
	Learn	under 4h	1	1	2	3	2
Not public	hour during	from 4 to 7h	0	0	1	4	0
	COVID	over 7h	0	0	0	1	0

Table 23. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (I set learning target for each day)

I set learning target for each day		Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	
	Learn	under 4h	13	8	41	22	7
Male	hour during	from 4 to 7h	7	3	13	20	12
	COVID	over 7h	0	0	5	9	6
	Learn	under 4h	6	11	56	49	7
Female	hour during	from 4 to 7h	1	1	19	50	9
	COVID	over 7h	2	2	4	12	10
	Learn	under 4h	0	1	5	2	1
Not public	hour during	from 4 to 7h	0	0	4	1	0
	COVID	over 7h	0	0	0	1	0

Table 24. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (I have proper learning resources)

I have proper learning resources		Strongly disagree	Disagree	_	ther ee nor gree	Agree	Strongly agree	
	Learn	under 4h	13		4	30	32	12
Male	hour during	from 4 to 7h	4		1	13	20	17
	COVID	over 7h	0		0	3	10	7

Female	Learn hour during COVID	under 4h	2	10	36	71	10
		from 4 to 7h	3	3	11	55	8
		over 7h	2	0	4	17	7
Not public	Learn	under 4h	0	0	4	4	1
	hour during COVID	from 4 to 7h	0	0	0	3	2
		over 7h	0	0	0	0	1

Table 25. Descriptive statistics of the number of student's learning behavior (during COVID-19) based on factors that support student's learning (I communicate and collaborate with my friend)

I communicate and collaborate with my friend			Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
Male	Learn	under 4h	18	15	26	26	6
	hour during COVID	from 4 to 7h	5	14	15	9	12
		over 7h	1	0	4	8	7
Female	Learn	under 4h	6	22	42	51	8
	hour during	from 4 to 7h	6	14	18	36	6
	COVID	over 7h	4	3	7	14	2
Not public	Learn	under 4h	0	0	6	3	0
	hour during	from 4 to 7h	0	0	0	2	3
	COVID	over 7h	0	0	1	0	0

The total learning hours of students during school closure due to COVID-19 is shown in Figures $1\sim12$, in associated with socioeconomic factors.

Figure 1. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Gender)

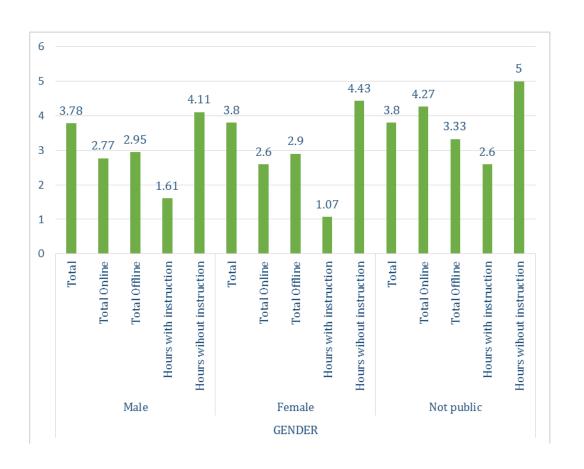


Figure 2. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (School type)

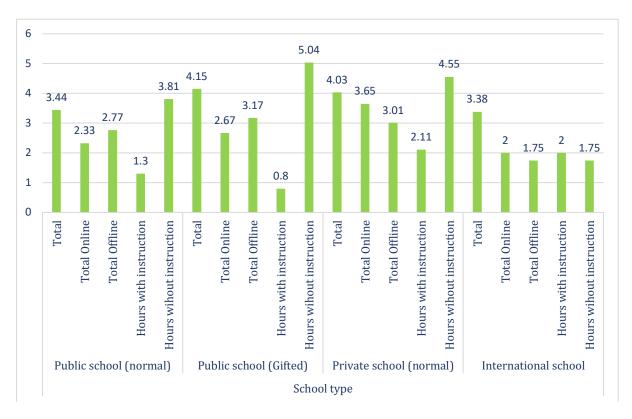


Figure 3. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Grade level)

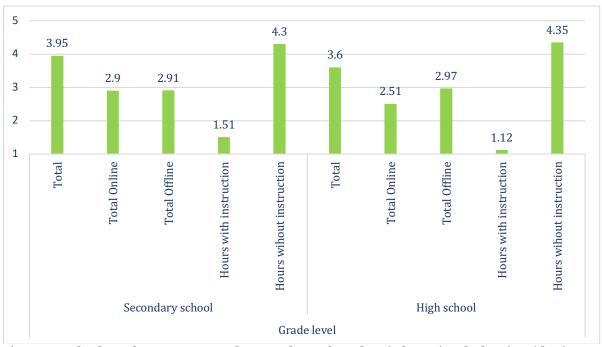


Figure 4. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Family monthly income)

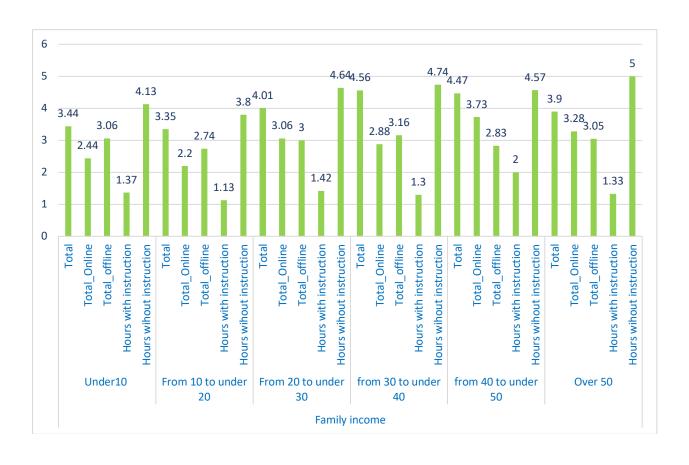


Figure 5. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Siblings)

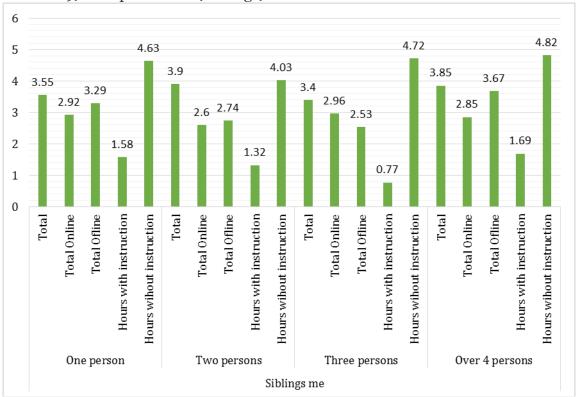


Figure 6. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Father's job)

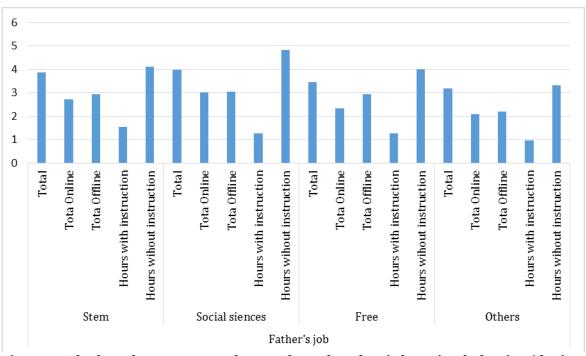


Figure 7. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Mother's job)

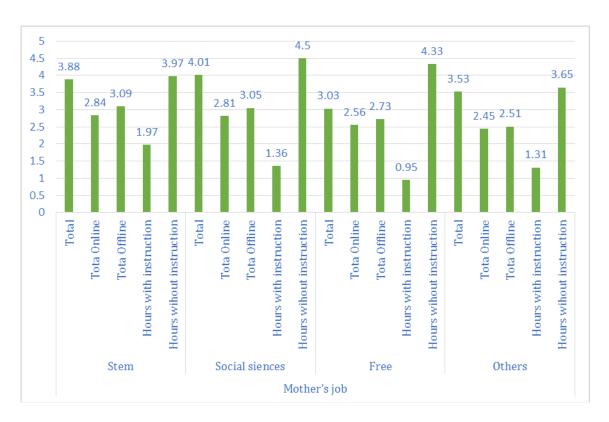


Figure 8. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Occupational Aspiration)



Figure 9. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Learning hours at home before COVID-19)



Figure 10. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Self-evaluation on academic performance)

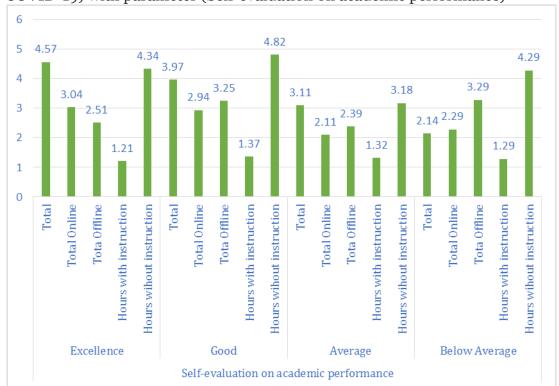


Figure 11. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (English)

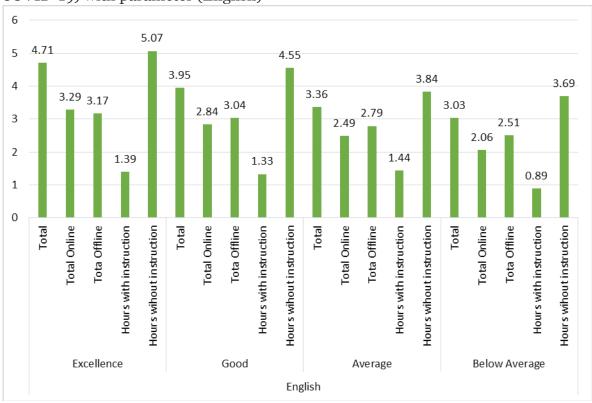
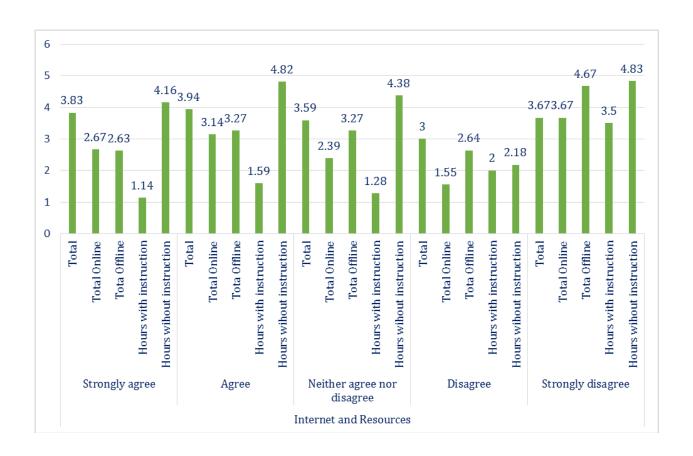


Figure 12. The bar chart presents the number of student's learning behavior (during COVID-19) with parameter (Internet and additional Resources)



The total learning hours of students before and during school closure due to COVID-19 is shown in Figures 13~18, in associated with student's perceptions about self-learning.

Figure 13. The bar chart show student's learning hours (before and during COVID-19) based on student's perception about self-learning (Self-learning to ensure the academic progress)

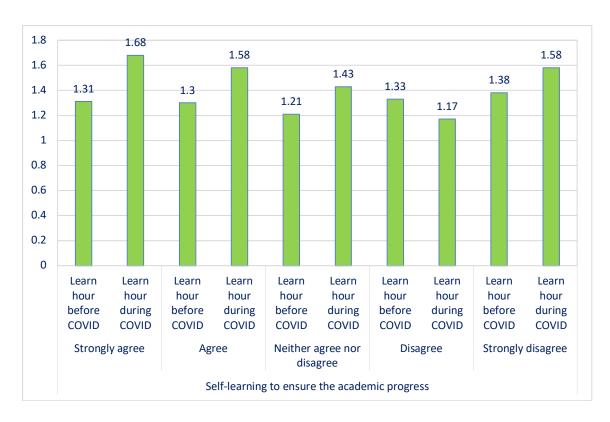


Figure 14. The bar chart show student's learning hours (before and during COVID-19) based on student's perception about self-learning (To maintain learning habit)

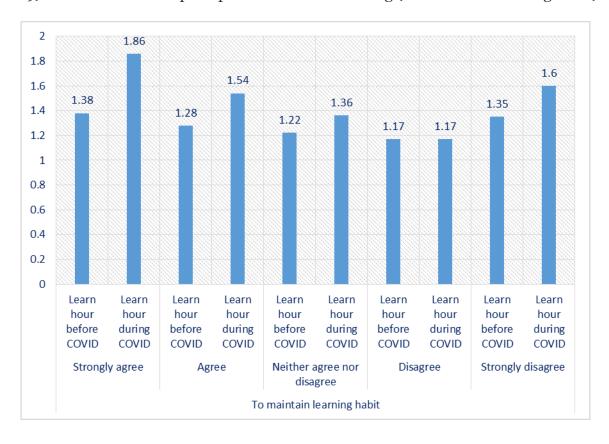


Figure 15. The bar chart show student's learning hours (before and during COVID-19) based on student's perception about self-learning (Because my teachers show me that it is necessary)

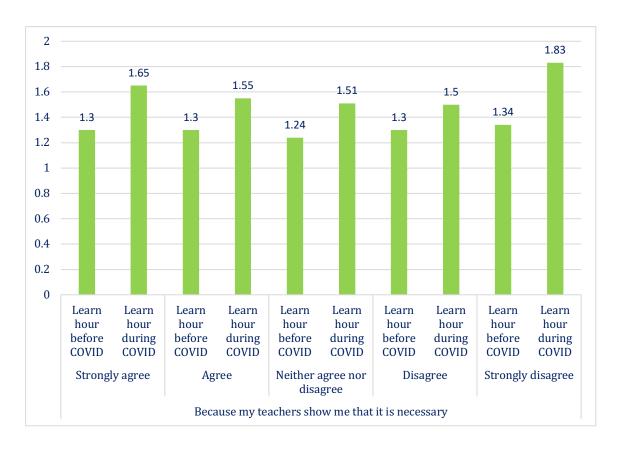


Figure 16. The bar chart show student's learning hours (before and during COVID-19) based on student's perception about self-learning (Because my parents show me that it is necessary)

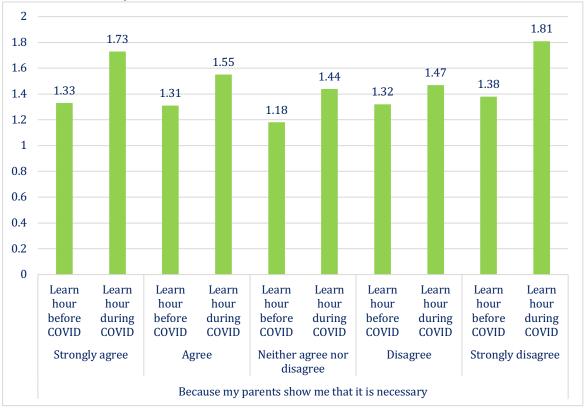


Figure 17. The bar chart show student's learning hours before and during COVID-19) based on student's perception about self-learning (Because my siblings show me that it is necessary)

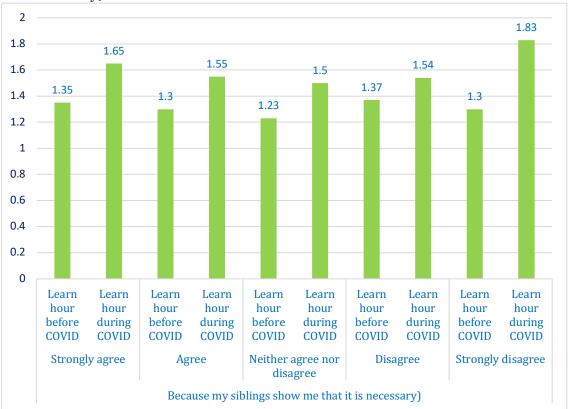
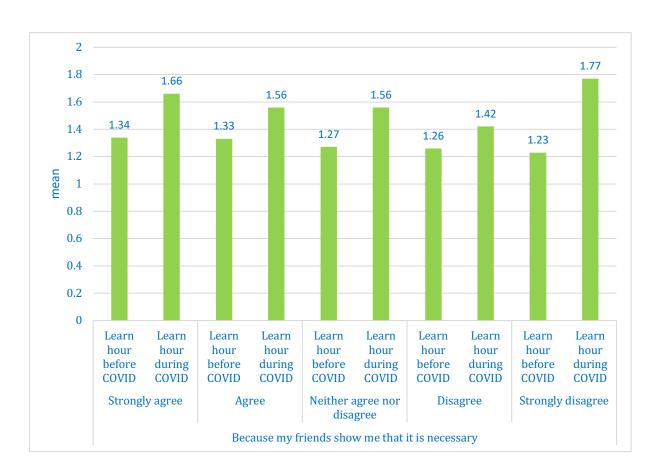


Figure 18. The bar chart show student's learning hours (before and during COVID-19) based on student's perception about self-learning (Because my friends show me that it is necessary)



The total learning hours of students during school closure due to COVID-19 is shown in Figures 19~25, in associated with factors that support student's learning.

Figure 19. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (My individual motivation toward learning)

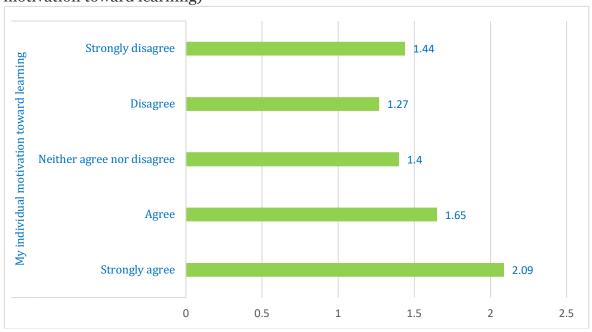


Figure 20. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (My concentration skill)

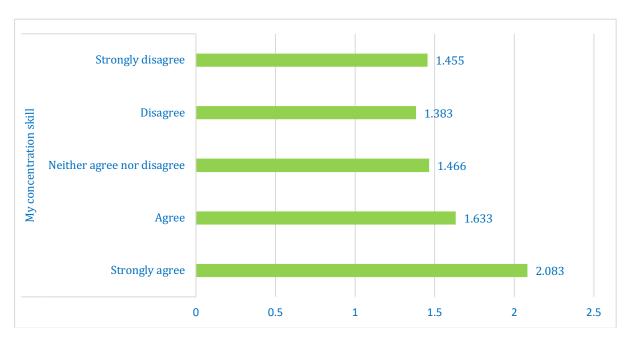


Figure 21. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (Encouragement and support from my family)

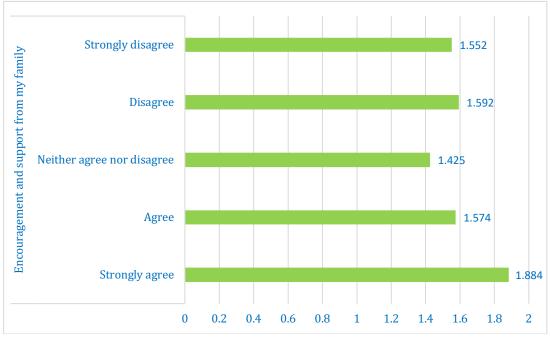


Figure 22. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (Effective learning space)

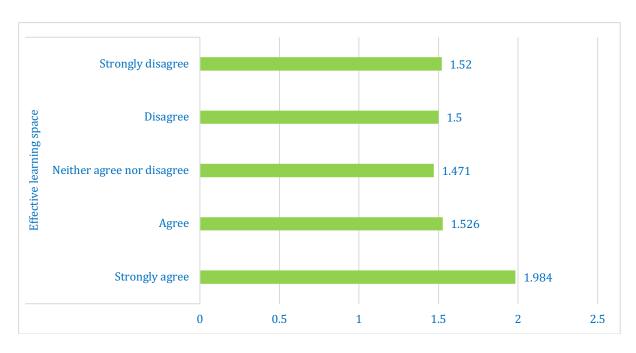


Figure 23. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (I set learning target for each day)

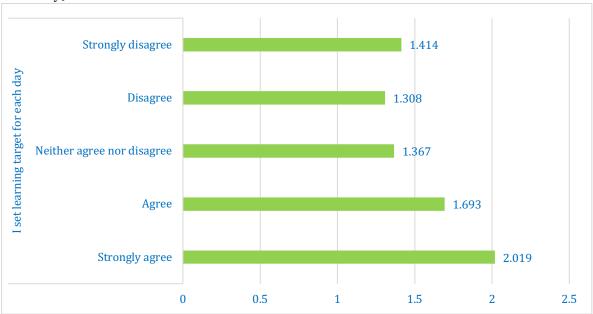


Figure 24. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (I have proper learning resources)

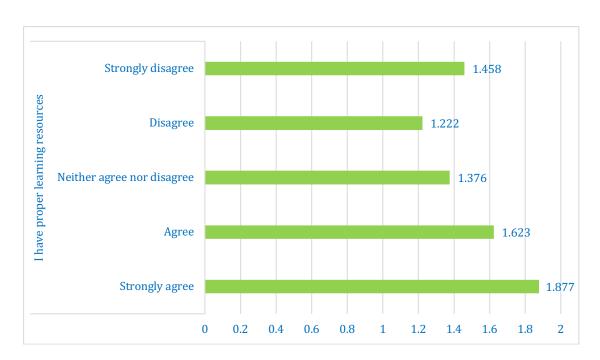


Figure 25. The bar chart shows the number of student's learning hours (during COVID-19) based on factors that support student's learning (I communicate and collaborate with my friend)

