HASIL CEK_data in brief.

by Pgsd Data In Brief.

Submission date: 11-Aug-2023 12:07PM (UTC+0700) Submission ID: 2144284307 File name: data in brief.pdf (252.7K) Word count: 2242 Character count: 11248

Data in Brief 33 (2020) 106422

Contents lists available at ScienceDirect

Data in Brief

journal homepage: www.elsevier.com/locate/dib

Data Article

Students' self-regulated learning (SRL) profile dataset measured during Covid-19 mitigation in Yogyakarta, Indonesia



Dwi Sulisworo^{a,*}, Meita Fitrianawati^a, Ika Maryani^a, Saleh Hidayat^b, Erie Agusta^b, Wulandari Saputri^b

^a Ahmad Dahlan University, Indonesia ^b Muhammadiyah University of Palembang, Indonesia

ARTICLE INFO

Article history: Received 10 June 2020 Revised 4 September 2020 Accepted 12 October 2020 Available online 20 October 2020

Keywords: Self-regulated learning Education policy Online learning Covid-19 Learning achievement

ABSTRACT

The Covid-19 pandemic has made changes in various sectors of life in Indonesia, including education. The Indonesian Ministry of Education and Culture issued a policy for the implementation of online learning. One of the factors that determine the success of online learning is the level of student self-regulated learning. Thus understanding the capabilities of SRL is essential for achieving successful education during this pandemic. This article presents data that explore the profiles of self-regulated learning in 1st-grade to 12thgrade students. Four aspects of self-regulated learning include planning, monitoring, controlling, and reflecting. Data retrieval is related to predictions of online learning success during Covid-19 mitigation. The sample consisted of 6571 students. The questionnaire was distributed to 61 schools (37 primary schools, 12 junior high schools, and 12 senior high schools) with an online survey in Yogyakarta, Indonesia. The questionnaire was prepared in an online format using Google Form. This link was presented with an introductory sentence from the researcher and distributed to students through the respective principal. Students may only fill in a questionnaire once but were allowed to make changes in response. The collected data were selected to be valid and reliable using the Rasch model. Some data released are items

* Corresponding author.

E-mail address: dwi.sulisworo@uad.ac.id (D. Sulisworo).

https://doi.org/10.1016/j.dib.2020.106422

2352-3409/© 2020 The Author(s). Published by Elsevier Inc. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/)

that are not filled in, extremely low or high data. These data can be further processed with various statistical techniques such as Two-way, ANOVA, MANOVA, or Cluster Analysis following the intended in-depth analysis needs. The data will be useful for researchers, educational decision-makers, and education managers to improve online learning services and implementation that enhance student learning achievement. © 2020 The Author(s). Published by Elsevier Inc.

This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/)

Specifications Table

Subject	Education
Specific subject area	Educational Psychology, especially on self-regulated learning profiles
Type of data	Table
How the data were	Survey with an online questionnaire (see Table 2)
acquired	
Data format	Raw
	Analyzed
Parameters for data	Students from 1st-grade 1 to 12th-grade participating in online learning during
collection	Covid-19 mitigation at Muhammadiyah schools in Yogyakarta, Indonesia.
Description of data	The questionnaire was for obtaining aspects of the SRL (planning: 5 items,
collection	monitoring: 6 items, controlling: 6 items, and reflecting: 5 items) of the
	students from 1st-grade to 12th-grade. The statements were in the form of
	positive and negative statements using a Likert scale ranging from score 1
	(strongly disagree) to 5 (strongly agree).
	The questionnaire was prepared in an online format using Google Form. This
	questionnaire link was presented with an introductory sentence from the
	researcher and was distributed to students through the respective principal.
	Students may only fill in a questionnaire once but were allowed to make
	changes in response.
	The collected data were selected to be valid and reliable using the Rasch
	model. Some data released are items that are not filled in, extremely low or
	high data. The data collection permit was obtained from the Basic and Secondary
	Education Assembly, Regional Leader of Muhammadiyah, Yogyakarta City. The
	data were taken in the period 18–25 March 2020.
Location source data	Institution: Muhammadiyah Schools
Location source data	City: Yogyakarta
	Country: Indonesia
	Latitude and longitude for collected samples/data:
	(-7.803164, 110.3398253)
	https://goo.gl/maps/Ps6HtDXjYsaax5G4A
Accessibility data	Repository name: http://eprints.uad.ac.id/
	Data identification number: -
	Direct URL to data: http://eprints.uad.ac.id/18871/1/Supplementary%20Data.xlsx
	(Supplementary data)

Value of the Data

- This data are useful to understand students' SRL profiles as a basis for predicting learning success.
- More specifically, these data can be useful for predicting online learning success during Covid-19 mitigation.
- Other researcher can process this data with various statistical techniques such as Two-way, ANOVA, MANOVA, or Cluster Analysis following the intended in-depth analysis needs.
- The data will be useful for researchers, educational decision-makers, and education managers to improve online learning services and implementation that enhance student learning achievement.

 The method used in collecting these data can be replicated in other regions and make SRL comparisons between them.

1. Data Description

This dataset contains SRL data on four factors (Planning, Monitoring, Controlling, and Reflecting) with the item structure, as presented in Table 2. Item details for each factor are shown in Table 3. Based on these items, a questionnaire was developed to measure the SRL. The questionnaire was distributed to 61 schools (37 primary schools, 12 junior high schools, and 12 senior high schools) with an online survey. The raw data obtained from student responses can be seen in Table 1S (See: Supplementary Data). In Table 1S, all scores have considered negative statements.

Furthermore, these data were processed by the Rasch Model; they were displayed in Table 2S (See: Supplementary Data). From this analysis, data fit (Table 3S) was obtained, it can be used for various purposes (See: Supplementary Data). The primary processing done calculates the Mean, Standard Deviation for each aspect of Self-regulated learning (Table 4S; See: Supplementary Data). The extract is in Table 1, representing the descriptive of SRL aspects. Each item of the questionnaire's detailed response is provided as a supplementary file (see the link as mentioned in the 'Accessibility data' section).

2. Experimental Design, Materials and Methods

This data gathering was ex-post facto design. The data were taken by a survey using an SRL questionnaire. The SRL model used refers to [1] with a questionnaire structure like Table 2. Table 3 shows the statement of each factor. Each statement of the questionnaire items was

adapted from [1]. This questionnaire was translated into Indonesian and validated before used.

Items	Strongly Disagree (1)	Disagree (2)	Neutral (3)	Agree (4)	Strongly Agree (5)	Mean	Standard Deviation	N
P1	68	146	682	1094	1866	4.178431	0.966953	387
P2	120	301	972	1124	1352	3.849574	1.080357	387
P3	59	141	624	1073	1965	4,228,384	0.948257	387
P4	168	408	1053	1118	1117	3.674935	1.125455	387
P5	473	721	1137	907	623	3.125888	1.239552	387
M1	94	248	990	1289	1239	3,862,943	1.015565	387
M2	139	250	878	1272	1317	3.876056	1.064259	387
M3	76	235	1019	1238	1288	3,888,751	1.001325	387
M4	144	301	901	1286	1230	3,81,746	1.078186	387
M5	695	888	1081	634	561	2.864713	1.293032	387
M6	402	632	1061	930	836	3.301988	1.261341	387
C1	72	178	865	1258	1484	4,012176	0.978523	387
C2	107	204	914	1200	1436	3.946399	1.031132	387
C3	34	86	638	1149	1953	4.26969	0.87426	387
C4	29	74	423	1059	2277	4.419215	0.81591	387
C5	876	967	1098	581	341	2.623082	1.230814	387
C6	294	378	690	861	1639	3.82159	1.28187	387
R1	48	163	997	1422	1234	3,939,701	0.9232	387
R2	53	121	454	913	2326	4,380,398	0.906333	387
R3	55	151	966	1309	1382	3,986,807	0.94331	387
R4	47	90	444	983	2301	4.397419	0.867935	387
R5	214	263	612	853	1926	4,037749	1.19281	387

Table 1		
Descriptive	OF ST D	acnost

Table 2	
Questionnaire	structure.

		Item		
No	Factors	Positive Statements	Negative Statements	Total
1	Planning	1, 2, 3, 4	5	5
2	Monitoring	6, 7, 8, 9, 10	11	6
3	Controlling	12, 13, 14, 15	16, 17	6
4	Reflecting	18, 19, 20, 21	22	5

Table 3

Items of the questionnaire.

General statements	Item Code
Plan	
1. I plan out projects that I want to complete.	P1
2. If an important test is coming up, I created a study plan.	P2
Before I do something fun, I consider all the things that I need to get done.	P3
4. 1 an usually estimate how much time my homework will take to complete.	P4
5. Thave trouble making plans to help me reach my goals. (N)	P5
M <mark>e11</mark> tor	
6. 1keep track of how my projects are going.	M1
7. Thow when I'm behind on a project.	M2
8. 1 rack my progress in reaching my goals.	M3
Know what my grades are at any given time.	M4
10. D1 y, I identify things I need to get done and track what gets done.	M5
11. I have trouble remembering all the things I need to accomplish. (N)	M6
Con <mark> 10</mark> l	
I do what it takes to get my homework done on time.	C1
I make choices to help me succeed, even when they aren't the most fun right now.	C2
 As soon 1as I see things aren't going right, I want to do something about it. 	СЗ
15. I keep trying as 11 any different possibilities as necessary to succeed.	C4
16. 11 ave difficulty maintaining my focus on projects that take a long time to complete. (N)	C5
17. When I get behind on my work, I often give up. (N)	C6
Reflect	
18. Think about how well I'm doing on my assignments.	R1
19. 1eel a sense of accomplishment when I get everything done on time.	R2
20. I think about how well I've done in the past when I set new goals.	R3
21. When I fail at something, I try to learn from my mistake.	R4
22. I keep making the same mistake over and over again. (N)	R5

The method for obtaining data that fit is using the Rasch model [2,3]. Some fit indexes provided in the Rasch analysis are ZSTD Person Infit, ZSTD Person Outfit, MNSQ Infit Person, MNSQ Person Outfit, ZSTD Infit Item, ZSTD Outfit Item, MNSQ Infit Item, MNSQ Outfit Item [2]. The data from the raw data (Table S1; look at supplementary data) were processed using the WINSTEP 3.73 application to obtain pertinent data. The data were processed with the Rasch model (Table S2; Look at supplementary data). From 6613 out of total respondents were analyzed. This action was conducted because 46 respondents filled in their identity but did not fill in the questionnaire. Therefore, there were 6659 - 46 = 6613 respondents only (see Table S2, Supplementary Data), the respondents who met the criteria.

- 1. Outfit Mean Square (MNSQ) received: 0.5 < MNSQ < 1.5
- 2. Z-Standard Outfit (ZSTD) value received: -2.0 <ZSTD <+2.0
- 3. Outfit Point Value Correlation (Pt Mean Corr) Value: 0.4 <Pt Measure Corr < 0.85.

So if fit data are collected, there are 3874 fit total respondents. The rest of the respondents who did not fit were 2785 people consisting of 42 people indicated as outliers (40 people from the maximum extreme score group and two people from the minimum extreme score group),

46 people were indicated not filling in the questionnaire. However, they had identities, and 2697 entered the most misfitting responses and the most unexpected responses.

Ethics Statement

Before the participant filled in the questionnaire, he/ she had to give his/ her informed consent. If he/ she did not provide it, he/ she would automatically leave from the application. Therefore, all the datasets were obtained with the proper procedure, including the participant's informed consent.

Declaration of Competing Interest

The authors declare that they have no conflict of interest that could influence this work.

Acknowledgments

Directorate of Higher Education, Ministry of Education and Culture of Indonesia for the funding through the 2020 Basic Research Grant for the Year. The Basic and Secondary Education Assembly, Regional Leadership of Muhammadiyah, permitted the data collection in schools. The Institute for Research and Community Service, Ahmad Dahlan University, assisted in proposing this activity.

Supplementary Materials

Supplementary material associated with this article can be found in the online version at doi:10.1016/j.dib.2020.106422.

References

- P.M. Noonan, A.S.G. Erickson, The Skills that Matter: Interpersonal and Intrapersonal Teaching Competencies in any Classroom, Corwin Press, California, 2017.
- [2] W.J. Boone, R.J. Staver, S.M. Yale, Rasch Analysis in the Human Sciences, Springer, London, 2014.
- [3] B. Sumintono, W. Widhiarso, Aplikasi Pemodelan Rasch pada Assessment Pendidikan [The application of the Rasch Model on Education Assessment], Trim Komunikata, Cimahi, 2015.

HASIL CEK_data in brief.

ORIGINALITY REPORT

6% SIMILARITY INDEX

9% INTERNET SOURCES



0% STUDENT PAPERS

5%

PRIMARY SOURCES



www.ncbi.nlm.nih.gov

Exclude	quotes	On
Exclude	bibliography	On

Exclude matches < 5%