

Finding Multidimensional Stop Schooling Students (Day) Index

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Abstract

Firstly, we build three dimensions and fifteen indicators and their questionnaire. And then, we meet friendly (200) final year students. Finally, we calculate the MSSSI.

Introduction

In the UN program, these are many indexes. They are HDR, MDPI, index of car insurance premiums, Education index etc. Our MSSSI is based on HDI and MDPI. Nowadays, we have a problem that so many students are out of University. Why did students drop out of school? It is based on the following facts:

- (i) Poor learning outcomes and cost.
- (ii) Failure at examinations.
- (iii) Forced withdrawal of manual adolescents.
- (iv) Never enrolling in University or enrolling too late.
- (v) Influence of family.
- (vi) Standard of living.
- (vii) Weakness of job creation.

So, we have an idea that we study multidimensional poverty index and then we calculate MSSSI.

1. Multidimensional Stop Schooling Students Index (Msssi)

The index uses the three dimensions: family, education, and income. These are measured using fifteen indicators.

1.1 Indicators

The following fifteen indicators are used to calculate the MSSSI and each indicator is weighted equally at $\frac{1}{3}$.

1. Income in the whole family ($\geq 5L$)
2. Parent (divorced, died, others)
3. Number in family
4. Health in family
5. Having own home / own car
6. Income of himself / herself
7. Understanding lectures
8. Other program (LCCI, Languages class, others)
9. Money is important
10. Have they got do enough supportive fund from a family?
11. What do you do if you have a degree?
12. Go abroad?
13. Degree is important
14. Dependent on the Government
15. Dependent on the family

1.2 Calculation Formula of the Index

The MSSSI is calculated as follows :

$$MSSSI = H \times A$$

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H : Percentage of stop schooling students ($\geq 33.33\%$)

A : Average intensity of MSSS (%)

2. Finding Multidimensional Stop Schooling Students Index(Msssi)

2.1 The Tabular of Indicators to MSSSI

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	%
001	100	0	0	0	100	0	100	0	100	100	100	0	100	100	0	53.33
002	0	0	100	0	0	0	0	0	0	0	100	100	0	100	0	26.67
003	0	0	100	0	0	0	0	100	100	100	100	100	0	100	0	46.67
004	100	0	0	0	100	0	0	0	100	0	0	0	0	0	0	20
005	100	0	0	0	0	0	0	100	0	100	0	100	0	0	0	26.67
006	100	0	0	0	0	0	0	100	0	100	100	100	0	100	100	46.67
007	100	0	100	100	100	0	100	0	100	100	0	0	100	0	0	53.33
008	100	0	0	0	0	0	0	0	0	100	100	0	0	100	0	26.67
009	0	0	0	0	0	0	0	100	0	100	100	100	0	100	0	33.33
010	100	100	0	0	100	100	0	100	100	100	100	0	0	100	0	60
011	0	0	100	0	0	0	100	0	100	0	100	100	100	100	0	46.67
012	0	0	0	0	0	0	100	100	100	100	0	0	100	0	100	40
013	0	0	100	0	0	100	0	0	0	0	100	100	100	100	100	46.67
014	100	0	0	100	0	0	0	0	0	0	0	100	0	100	100	33.33
015	0	0	0	0	0	0	0	100	0	100	0	100	0	0	0	13.33
016	100	100	0	0	100	100	100	100	0	0	0	100	0	0	0	53.33
017	0	0	0	0	0	0	100	100	0	0	100	100	0	100	0	33.33
018	100	0	100	0	0	100	100	100	100	100	100	0	0	100	0	60
019	100	0	0	0	0	0	0	0	0	0	0	100	0	100	0	20
020	100	0	100	0	0	0	0	0	0	0	0	0	0	100	0	20
021	100	0	0	0	0	100	0	0	0	0	0	0	0	100	0	20
022	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	6.67
023	0	0	0	0	0	0	0	100	0	0	100	0	0	100	0	20
024	100	0	100	0	0	0	0	100	0	100	0	0	0	0	100	33.33
025	100	0	0	100	0	100	0	100	0	100	100	100	100	0	0	53.33
026	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	13.33
027	100	0	0	0	0	0	0	100	0	100	100	100	0	100	0	40
028	100	0	0	0	0	0	0	0	0	0	100	0	100	0	0	20
029	0	0	100	0	0	0	0	100	100	0	0	0	0	100	100	33.33
030	0	0	0	0	0	100	0	0	100	100	100	0	0	100	0	33.33
031	0	100	100	0	0	0	0	100	100	0	100	0	0	100	0	40
032	100	0	0	100	0	0	0	0	100	100	0	0	100	100	0	40
033	100	0	0	0	0	0	0	100	100	0	0	0	0	0	0	20
034	100	0	100	0	0	100	0	100	100	0	0	0	0	0	0	33.33
035	100	100	100	0	0	0	0	0	100	0	0	0	0	0	0	26.67
036	100	0	0	0	0	0	0	0	100	0	0	100	0	0	0	20
037	0	0	0	0	0	0	0	0	0	0	100	0	100	100	0	20
038	0	0	0	0	0	0	0	0	100	0	0	0	0	100	0	13.33
039	0	100	100	0	0	100	0	0	100	100	0	100	0	100	100	53.33
040	0	100	0	0	0	0	0	0	100	0	0	100	0	100	0	26.67
041	100	100	0	0	100	0	0	0	100	0	100	0	0	100	0	40
042	100	0	100	100	100	0	0	0	100	0	100	0	100	100	0	53.33
043	100	0	100	100	0	0	100	0	100	0	100	0	0	100	0	46.67
044	0	100	0	0	0	0	0	0	100	0	100	100	0	100	100	40
045	100	0	0	0	0	0	0	0	100	100	100	100	0	100	0	40
046	100	0	100	0	0	0	0	0	100	0	0	0	0	100	0	26.67
047	100	0	0	0	0	0	0	0	100	0	100	100	0	0	0	26.67
048	100	0	0	0	0	0	0	0	0	0	0	100	0	0	0	13.33
049	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	13.33
050	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	13.33
051	100	0	0	0	0	0	0	0	100	0	100	0	0	100	0	26.67
052	100	100	0	0	0	0	0	0	100	0	0	0	0	0	0	20
053	100	0	0	0	100	0	0	0	100	0	0	0	0	0	0	20

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054	0	100	0	0	0	0	0	0	100	0	100	100	0	0	0	33.33
055	100	100	0	0	0	0	0	0	100	0	0	0	0	0	0	20
056	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	13.33
057	0	0	0	0	0	0	0	100	0	0	100	0	100	0	100	26.67
058	0	0	0	0	0	0	0	100	100	0	0	100	0	0	0	20
059	100	0	0	0	0	100	0	100	100	0	0	100	0	100	0	40
060	0	0	0	0	0	100	0	100	100	0	0	0	0	0	0	20
061	0	0	0	0	0	0	0	0	100	100	0	100	0	100	0	26.67
062	0	100	0	0	0	100	0	100	100	0	100	100	0	100	0	46.67
063	0	0	0	0	0	0	0	100	100	0	100	100	0	100	0	33.33
064	0	0	100	0	0	0	0	100	100	0	0	0	0	100	0	26.67
065	100	0	0	0	0	0	0	0	100	0	0	0	0	100	0	20
066	0	0	0	0	0	0	0	100	100	0	100	0	0	100	0	26.67
067	0	0	0	0	0	100	0	0	100	0	0	100	0	0	0	20
068	0	100	0	0	0	0	0	0	100	0	0	100	0	0	0	20
069	0	0	0	0	0	0	0	0	0	0	100	100	100	100	0	26.67
070	100	100	100	0	0	100	0	0	100	0	100	100	0	0	0	46.67
071	0	100	0	0	0	0	0	0	100	0	100	0	100	0	0	26.67
072	100	0	0	0	0	0	100	100	100	0	100	100	0	100	0	46.67
073	100	100	0	0	0	100	0	0	100	0	100	100	0	100	0	46.67
074	100	100	100	0	0	0	0	100	100	100	0	100	0	0	0	46.67
075	100	100	100	0	0	100	0	0	100	0	0	0	0	0	0	33.33
076	0	100	0	0	0	0	0	100	0	0	100	0	0	100	0	26.67
077	0	100	0	100	100	0	0	100	0	100	100	0	0	100	0	46.67
078	0	0	0	100	100	0	0	100	100	0	100	100	0	100	0	46.67
079	0	100	0	0	0	0	100	100	100	0	100	0	0	100	0	40
080	100	100	100	0	0	100	0	100	100	0	100	100	0	0	0	53.33
081	0	100	0	0	0	0	0	0	100	100	0	100	0	0	0	26.67
082	0	100	0	0	0	0	0	0	0	0	100	100	100	100	0	33.33
083	100	0	0	0	0	0	0	100	100	100	0	0	0	100	0	26.67
084	100	100	0	0	0	0	0	0	100	0	0	100	0	0	0	33.33
085	0	100	0	0	0	100	0	100	0	0	100	100	100	100	0	46.67
086	0	100	0	0	0	0	0	0	100	0	0	100	100	100	0	33.33
087	0	100	100	0	0	100	0	100	100	0	0	100	100	100	100	60
088	100	100	0	0	0	100	0	100	0	0	0	100	100	0	0	40
089	100	100	100	0	0	100	0	100	0	0	0	0	0	0	0	33.33
090	100	100	0	0	0	100	0	0	100	0	100	0	0	100	100	46.67
091	0	100	0	0	0	100	0	0	0	0	100	100	0	100	0	33.33
092	100	100	100	0	0	0	0	0	100	0	100	100	0	100	100	53.33
093	0	100	0	0	0	0	100	100	0	0	100	100	0	100	0	40
094	0	100	0	0	0	0	0	0	100	0	0	0	0	0	0	13.33
095	100	0	0	0	0	100	0	100	100	100	0	0	0	0	0	33.33
096	100	0	0	100	100	0	0	0	0	0	0	0	0	100	0	26.67
097	0	0	0	0	0	0	0	100	0	0	100	0	100	0	0	20
098	100	100	0	0	0	100	0	0	100	0	100	0	0	100	0	40
099	0	0	0	0	0	100	0	100	0	0	100	100	0	0	0	26.67
100	0	0	0	0	0	100	0	0	0	0	100	0	0	0	0	13.33
101	100	0	0	0	0	0	0	100	100	0	100	0	0	100	0	33.33
102	0	0	100	0	0	0	0	100	100	0	100	100	0	100	0	40
103	100	0	0	0	0	0	100	0	100	100	0	100	0	100	0	40
104	100	0	0	0	0	0	100	0	100	0	100	100	0	100	0	40
105	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	60
106	100	0	0	0	0	100	100	0	100	0	0	0	100	100	100	46.67
107	100	0	0	0	0	100	0	0	100	0	100	0	0	0	0	26.67
108	100	0	0	0	0	0	0	100	100	100	100	0	0	100	0	40
109	0	0	0	0	0	0	100	100	100	0	100	100	100	0	0	40
110	100	0	0	0	100	0	100	100	100	0	0	0	0	100	0	40
111	100	100	0	0	0	100	0	0	100	0	0	0	0	100	0	33.33
112	100	0	0	0	100	100	0	0	100	0	0	0	0	100	0	33.33
113	100	0	100	0	0	0	0	100	0	0	0	0	0	100	0	26.67

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114	100	0	0	0	0	0	0	100	0	100	0	0	0	100	0	26.67
115	100	0	0	0	0	0	0	0	0	0	100	0	0	100	0	20
116	100	0	100	0	0	0	0	0	0	0	0	0	0	100	0	20
117	0	0	0	0	0	100	0	0	0	0	100	0	0	100	0	20
118	100	0	0	0	0	0	0	0	0	0	0	100	0	0	0	13.33
119	100	0	0	0	0	0	0	100	100	0	100	100	0	100	0	40
120	100	0	0	0	0	0	0	0	100	0	0	100	0	0	0	20
121	0	0	0	0	0	0	0	0	100	0	0	100	0	0	0	13.33
122	100	0	0	0	0	0	0	0	0	100	100	0	0	0	0	26.67
123	100	100	100	0	0	0	0	0	100	100	100	100	0	0	0	46.67
124	0	0	0	0	0	100	0	100	100	0	100	100	100	100	100	53.33
125	0	0	0	0	0	0	0	100	100	0	0	100	0	0	0	20
126	0	0	0	0	0	0	0	100	100	0	0	100	0	0	0	20
127	100	0	0	0	100	0	0	0	0	0	0	0	0	0	100	20
128	100	0	0	0	100	0	0	0	0	0	0	0	0	0	0	13.33
129	100	0	100	100	100	0	0	0	0	0	0	0	0	0	0	26.67
130	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.67
131	100	0	0	0	0	0	0	100	100	100	100	0	100	0	100	46.67
132	100	0	100	0	100	0	0	0	100	100	0	0	100	0	0	40
133	100	0	0	0	100	0	100	0	100	0	100	0	100	100	100	60
134	100	0	100	0	0	0	0	0	100	100	0	0	100	0	0	33.33
135	100	100	0	0	100	0	100	100	100	100	100	0	100	100	100	80
136	100	100	0	0	0	0	0	100	0	100	100	0	100	0	100	46.67
137	0	0	100	0	0	0	0	0	0	0	100	0	100	0	100	26.67
138	100	0	100	100	0	0	100	100	100	100	0	0	100	100	100	73.33
139	100	0	0	100	0	0	100	100	100	100	0	0	100	100	100	66.67
140	100	0	100	100	0	0	0	100	0	0	100	0	0	0	100	40
141	100	0	100	100	0	0	0	100	0	0	100	0	0	0	100	40
142	100	0	0	0	0	0	0	0	0	0	100	0	0	0	100	20
143	100	0	0	100	100	0	0	0	0	0	0	0	100	0	0	26.67
144	100	0	100	100	100	0	0	0	0	0	100	0	100	0	100	46.67
145	100	0	0	100	100	0	0	100	100	100	100	0	100	0	0	53.33
146	100	0	100	0	0	100	0	100	100	0	0	100	0	0	0	40
147	100	0	0	0	100	100	0	100	0	0	100	0	0	100	100	46.67
148	100	0	0	0	0	100	0	100	100	100	100	100	0	100	0	53.33
149	0	0	0	0	0	100	0	100	100	100	100	100	0	100	0	46.67
150	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	13.33
151	100	0	0	0	0	0	0	100	0	0	100	100	0	0	0	26.67
152	0	0	100	0	0	0	0	0	100	0	0	0	0	100	0	20
153	100	0	0	0	0	0	0	100	0	0	100	100	0	100	0	33.33
154	100	0	0	0	0	100	0	0	0	0	100	100	0	0	0	26.67
155	100	0	0	0	100	0	0	100	100	100	100	100	100	100	0	60
156	100	0	100	0	0	0	0	0	0	100	0	0	0	0	0	20
157	0	100	0	0	0	0	0	0	100	0	100	100	0	100	100	40
158	100	0	0	0	0	0	0	0	0	0	100	100	0	0	0	20
159	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	13.33
160	0	100	0	0	0	0	0	100	0	0	100	0	0	0	0	20
161	100	0	100	100	100	100	100	100	100	100	100	100	0	100	100	86.67
162	100	0	100	0	0	0	100	0	100	100	100	100	0	100	0	53.33
163	100	0	0	0	0	0	0	0	0	100	100	0	0	100	100	40
164	100	0	0	0	0	0	0	0	0	100	100	0	0	100	100	40
165	100	0	100	0	0	0	0	100	100	0	100	100	100	100	0	53.33
166	100	100	0	100	0	0	100	0	100	100	100	0	0	100	0	53.33
167	0	0	0	0	0	0	0	100	0	0	100	100	0	100	0	26.67
168	100	0	0	0	0	0	0	0	0	0	100	0	100	100	0	26.67
169	100	0	0	0	0	100	0	100	0	100	100	100	100	100	100	60
170	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	13.33
171	0	0	100	0	0	0	100	0	0	0	100	100	0	100	0	33.33
172	100	100	0	0	0	0	0	0	100	100	100	100	0	100	0	46.67
173	100	0	0	0	0	0	0	0	0	100	100	100	0	100	0	33.33

174	100	0	0	0	0	0	0	0	100	0	100	100	0	100	0	33.33
175	100	0	0	0	0	0	0	0	100	0	100	0	0	0	0	20
176	100	0	0	0	0	100	100	0	100	100	0	100	0	100	0	46.67
177	0	0	0	0	0	0	0	100	100	0	100	100	0	100	0	33.33
178	100	0	100	100	0	0	0	0	100	100	0	100	0	100	100	60
179	100	0	0	0	0	100	0	0	100	100	100	0	0	100	100	53.33
180	0	0	100	100	100	0	0	0	100	100	100	100	0	100	0	53.33
181	100	0	0	0	0	0	0	100	100	0	100	100	0	0	0	33.33
182	100	0	100	0	0	0	0	100	0	100	100	100	0	100	0	46.67
183	100	0	0	0	100	0	0	0	0	0	100	0	0	100	0	26.67
184	100	0	100	100	100	0	100	100	0	0	0	0	100	0	0	46.67
185	100	0	0	0	100	0	0	0	100	100	0	100	0	0	0	33.33
186	100	0	100	0	0	0	0	0	100	100	0	100	0	0	0	33.33
187	100	0	100	0	100	0	0	0	100	100	0	100	0	0	0	40
188	100	0	0	0	100	0	0	0	100	100	0	0	0	0	0	26.67
189	0	0	100	0	0	0	0	100	100	0	100	100	0	100	0	40
190	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	13.33
191	0	0	100	0	0	0	0	0	100	0	100	0	0	0	0	20
192	0	0	0	0	0	0	0	100	100	0	0	0	0	100	0	20
193	100	0	100	0	0	0	0	0	100	0	0	0	0	100	0	26.67
194	0	0	100	0	0	100	0	100	0	0	100	100	0	100	0	40
195	100	0	0	0	0	100	0	100	100	100	100	0	0	0	100	46.67
196	100	0	100	0	0	0	0	0	100	0	100	100	0	100	0	40
197	100	0	0	0	0	0	0	100	100	0	100	100	0	100	0	40
198	100	0	0	0	0	0	0	0	0	0	0	0	0	100	0	13.33

2.2 Finding the MSSSI

H = percentage of stop schooling students ($\geq 33.33\%$) = 0.44 %

A = average intensity of MSSS (percentage) = 34.38 %

$$\text{MSSSI} = 0.44 \% \times 34.38 \% = 15.13 \%$$

Thus, the multidimensional stop schooling students index value is 15.13 % . This value indicate the number of stop schoolings students.

Conclusion

The multidimensional stop schooling students index value is 15.13% and so, we conclude that the number of the graduate students is almost 280 students.

Acknowledgements

I would like to express my heartfelt gratitude to **Dr Maung Maung Naing**, Rector, **Dr Si Si Khin**, Pro-Rector and **Dr Tint Moe Thuzar**, Pro-Rector, Yadanabon University for their permission to carry out the research and for their encouragement. And then, I would like to thank **Dr Win Kyaw**, Professor and Head of the Department of Mathematics, **Dr Hla Win**, Professor, the Department of Mathematics and **Dr Nan Mya Ngwe**, Professor, the Department of Mathematics, Yadanabon University, for their exhortation and helpful comments on this research.

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