

Effects of Psychological Factors and Academic Suppliers on Indonesian Students' Academic Records and Career

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Abstract-Students' academic records are an important part of students learning life. Academic records provide awareness to the observer about a student's performance and forethought about the student's future planning. Hence, insight against the factors that impact on academic records is very necessary. Although, there is a list of factors involved in the matter, however, psychological factors such as educational organization and teaching method play an essential role to build a better or junk academic record by a student. The current study has depicted the role of both the educational organization and teaching method, how these two can help an Indonesian student to make outstanding and exceptional academic records, which are necessary for the students to build a strong academic career. According to this study, a strong academic career is only possible when there are consistency and continuity of very good academic records for each class and course passed by a student. Statistical software; Partial Least Square was used for data analysis. Hence, for primary data collection, a survey was accomplished. Data analysis was completed to obtain final results based on the 395 responses received from the respondents of this study. Besides, our study provides a significant evidence for the fact that academic suppliers like family, student suppliers, and faculty suppliers are positively impacting on academic career of the students.

Keywords: *Psychological factors, educational organization, teaching method, academic records, strong academic career.*

1. Introduction

Students have to face several difficulties and challenges in their learning process. However, psychological factors are recognized as sometimes major problematic factors while sometimes they are considered as important beneficiaries [1]. In both cases, the role of psychological factors cannot be understated. Because psychological factors are the forces that are present with living no matter in which state is the living thing [2]. Hence, the impacts of psychological factors produce visible effects on both the mental and physical performance of a human. Therefore,

sensible awareness about the psychological factors is compulsory particularly for those who are seeking distinguished performances. Hence, there is more need for insights about psychological factors in students and concerned authorities.

In the world of today, when the competitions are present on each and every step particularly for the students, at least a strong academic career is very essential to successfully achieve the desired position or job. Hence, from the start, students need to pay extra attention to build a strong academic career. Students should build habits that are fruitful and essential to achieving great positions among their fellows [3]. Each and every position earned by a student for both the curricular and extracurricular activities at the school level has importance. Both activities and results add value to the academic records of students.

Many students every year pass from educational institutions such as schools, colleges, and, universities and then step forward into their practical life. However, most of the passed students don't have a strong academic career. Although, schools, colleges, and universities are producing a great number of qualified students from all over the world. However, there is a lack of quality education particularly in the education sectors of Indonesia, because most of the qualified students are unable to meet market requirements due to poor academic careers [4]. This study has investigated the psychological factors involved in the case. Hence according to the results of the present study, in whole Indonesia, there is a need for reconsideration, review, amendment of modern and more precise teaching methods plus efficient, more competent and well-organized educational organizations that can guaranty a strong academic career for the maximum students.

However, researchers in the past have been exploring the role of psychological factors for students' academic records and a strong academic career. According to the results of the previous studies, the influence of psychological factors on students cause better or poor students' academic records. The current study has specified psychological factors influencing students' academic records via educational organizations and teaching methods. Hence this is a unique study because it has explored how teaching methods and educational

organizations are important to make both the great academic records and a strong academic career for Indonesian students. Studies are available on the educational organization and teaching methods, but they have not considered academic records and the strong academic career of Indonesian students. Hence, this is a pioneer study exploring the effects of psychological factors such as educational organization and teaching method on Indonesian student's academic records and a strong academic career.

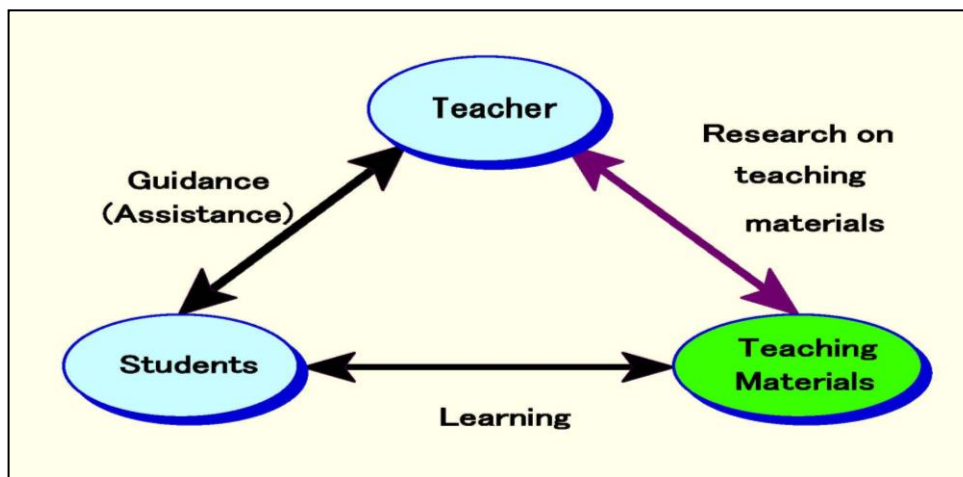


Figure 1: The relationship between teachers, students, and teaching materials.

Academic records by the Indonesian students for each course and class have significant importance. Continuity and consistency increase performance by the students' in-class activities [5]. Hence this study was performed to inquire about the role of psychological factors such as teaching method and educational organization in the students' academic records that build a strong academic career. Conventional teaching methods and educational organizations are not according to the requirement [6]. Most of the educational institutions are unadventurous and produce a formulaic quality of education. Regular and ordinary teaching methods cannot prepare students who can produce successive prominent academic records that are imperative to build a strong academic career.

In academic supply chain, educational institutions closely work with different other parties. The reason to work through this collaboration is to satisfy different stakeholders. However, in academic supply chain, different parties are involved in it. For example, multi-tier suppliers include the students, family, student suppliers, faculty suppliers, assets and equipment suppliers, and educational material suppliers. Those who are entitled as service provider are entitled as universities both in public and private sector who are offering different programs, faculty, total quality management, knowledge management, facilities, researcher projects and research

centers. Finally, in overall academic supply chain, there comes customers who are entitled as new students, family, employers, and different research funding organizations [7-11]. Therefore, our study has investigated the impact of academic suppliers on academic career of the students in Indonesia.

Beneficiations of the present study for the literature are perpetual. With a detailed explanation, this study has explored the association between educational organizations, teaching methods, academic records, and a strong academic career. Contribution of the study has two aspects:

1. Theoretical contribution: The framework of the current study illustrates a relationship between the key variables of this study for the better understanding and implication of effective educational organization and a gainful, favorable, and advantageous teaching method.
2. Practical contribution: This study provides a massive contribution to the practitioners to build a strong academic career.

2. Literature Review

Factors effecting on mental states of an individual are known as psychological factors. Factors dealing with the spiritual and mental capabilities of the students' learning

process are also known as psychological factors [12]. The present study has brought into discussion and conclusion the role of psychological factors such as educational organization and teaching method impacting academic records, particularly in Indonesia. There is a direct relationship between the psychological factors and academic records of the Indonesian students. According to the study model and conclusion educational organization and teaching method indirectly relate to a strong academic career by a student. Previous studies have demonstrated that it the students' performance that helps them to achieve excellent academic records [13, 14]. While

students have to show full presence in the class both physically and mentally to achieve higher performance. Because only higher performances can guaranty excellent academic records[15]. Moreover, several factors are involved to achieve higher performances by Indonesian students. According to this study, the role of educational organizations and teaching methods is significant for the cause to attain good academic records. Excellent and good academic records are enforced for the purpose of a strong academic career. Hence, this is a vital study, giving the detailed description for the achievement of strong academic career.

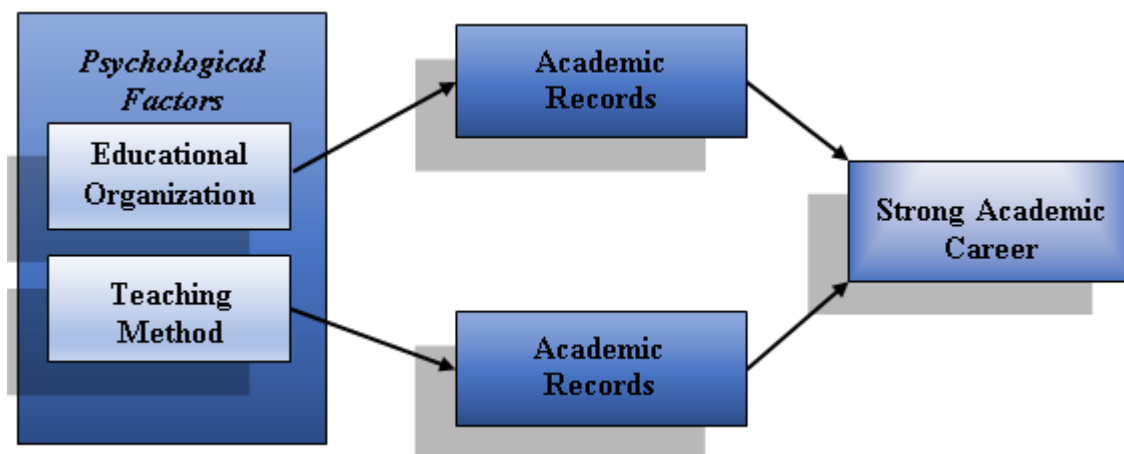


Figure 2(a) Exposes the relationship between educational organizations, teaching methods, academic records, and strong academic career.

However, there are many factors that influence on Indonesian students' academic implementation and performance. Such as gender of the student, distance between home and school, student-teacher relationship, parents' education, attendance ratio by students, family income, abilities of teachers present at school, and time spent by students in school. The results of this study revealed that the two factors; educational organization and teaching method are most important especially regarding students' academic records and a strong academic career. The conventional learning process of the students is not working proficiently [16]. Because with the practice of the conventional learning process, a great number of Indonesian students has not a strong academic record. Previous studies have disclosed that maximum outcomes of the learning process are mandatory to achieve higher performances that are compulsory for great academic records [17]. However, this study has also divulged the

factors that affect commonly both the teaching method and learning process. As claimed by this study the factors such as physical factors, teacher's personality, learning factors, mental factors of individuals, social factors, emotional factors and intellectual factors are the general factors involved in teaching method and educational organizations.

In addition, our study has investigated whether the supply chain factors in the field of academic supply chain like students, family, student suppliers, and faculty suppliers are significantly impacting on the academic records of the students and their career. For this purpose, Figure 2(b) shows the conceptual relationship between academic suppliers and academic career of the students. This relationship is expected to be a direct in nature where four factors are playing their role as main explanatory variables to determine the academic career of the students.

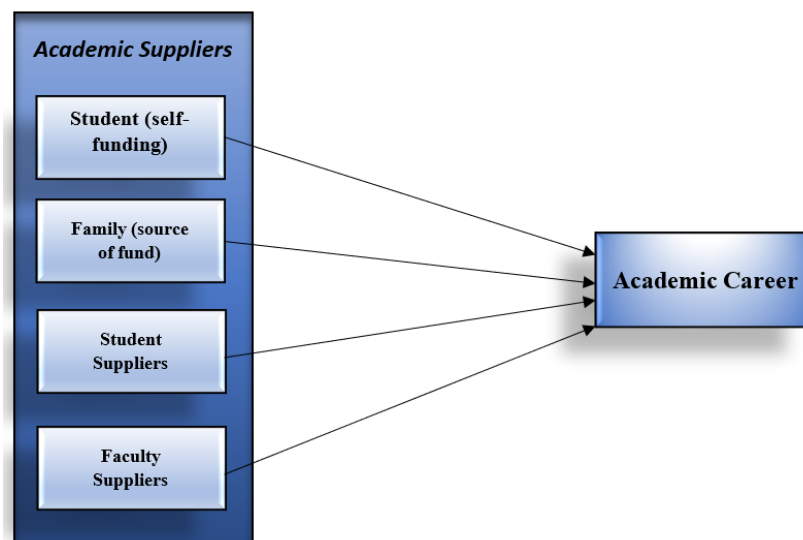


Figure 2(b): Impact of Academic Suppliers on Academic Career of the students

Educational Organization and Academic Records

Regarding educational psychology, an educational organization deals with the interior scope of education. In school transformation, a way or methodology in which an educational organization operates the system of educating the human mind [18]. Before further explanation, it is necessary to know about the fundamental part of an educational organization. Hence, the following list is showing the parts of an educational system or organization:

1. Educational Administration
2. Educational Direction
3. Educational Supervision
4. Educational Evaluation
5. Educational Planning
6. Educational Co-ordination
7. Educational Controlling

An organization provides crucial easiness for various aspects of the life of students. It helps students to be more efficient, provides insights to them to opt right direction, and gives guidance to students to be illustrated from the right teachers. Educational organizations teach students how to be benefited from their knowledge and learning [19]. Furthermore, coordination among students, their teachers, and their parents only possible because of an educational organization. According to the outcomes of this study educational organization directly impacts students' academic records. Students' academic records are exceptional wherever educational organization is working with its full functionality in the Indonesian. An educational organization reduces students' stress and depression gained from daily life activities. A student overcomes easily on his/her weakness and produces extraordinary results, once he/she is most organized in the class [20]. To be organized students need to focus on more clarity on their minds.

An educational organization helps students to achieve excellent and extraordinary academic records. Because a well-organized student possesses the following capabilities.

1. Focused.
2. Time Managed.
3. Balanced.
4. Positive.
5. Productive.
6. Target Oriented.
7. Flexible.
8. Creative.
9. Optimal Decision Maker
10. Auspicious Mood

According to the current study, an educational organization makes Indonesian students capable to deal confidently with their curriculum and extra curriculum problems and challenges. However, an educational organization must have notice and maintenance to meet its characteristics such as external and internal constraints, smooth hierarchy, principles of authorities, confliction of demand, lack of control and command, implementation of rules and regulation, appropriate size of educational staff, and self-image [21]. However, short or long term goals set by students, teachers and the educational institution impacts on students' academic records [22]. Educational organizations help to manage goals and targets set for teachers, students, and institutions to achieve long or short-term objects regarding students' academic records. Hence, if it is more educational organization is present in all the participants of students' learning process, more exceptional academic records will be produced. Therefore, it is encapsulated that;

H1: Educational organization has a positive effect on academic records.

Teaching Method and Academic Records

According to modern and effective educational experts and specialists, there is various kind of teaching methods that can be classified into 4 types. First is called "Teacher-Centered Methods", the second is "Learner-Centered Methods", the third is "Content Focused Methods", and the fourth and last is "Interactive/Participative Methods" Hence, choice of a teaching method category totally depends upon the need and educational environment. The best teacher always goes with an optimal solution [23]. However, the qualities of a besting teaching method are as follows.

1. Cooperative learning: cooperation among the participants such as teachers, students, parents, and institutions, of the learning process is mandatory.
2. Use of Technology: in the ages of modern days use of technology has opened new and more effective ways of learning. Hence it is necessary to use technology in teaching methods.
3. Inquiry-based Instruction: Feedback is a compulsory part of the learning process. Hence, adopting a teaching method that provides efficient time for inquiry-based learning.
4. Behavioral Management: Students are recognized at first glance due to their behavior. Hence behavioral management should be a compulsory part of a teaching method.
5. Professional Development: Students should know and in good practice that how to perform their theoretical results. Because professionalism develops from practices done at the early age of learning. Hence, a teaching method with the professional development of the students is encouraged.

According to the results of this study, teaching methods have direct impacts on an academic record of Indonesian students. If an optimal, smart, more effective and modern teaching method is proposed in the class, it results in prominent academic records for Indonesian students [24]. According to research in the recent time, a new teaching method that is more effective and result oriented for colleges and universities going students has the following features:

- Projected Based Learning.
- Problem Based Learning.
- Thinking Based Learning.
- Cooperative Learning.
- Flipped Classroom.
- Gamification in the Classroom.
- Design Thinking.

The core objective of a teaching method is to attain maximum exceptional results from students. Hence, the teaching method plays a significant role to earn excellent academic records, particularly for Indonesian students.

Because an appropriate teaching method help students to complete their task on time, teachers can deliver what it was planned, both the students and the teachers in class remain focused, and makes an easy accomplishment of the objectives of students especially regarding their academic records [22]. Hence, a good teaching method guaranty for excellent academic records particularly for the students of Indonesia. While if a teaching method is just unidirectional, it is only a great waste of time, energies and resources of all the participants of the learning process [25]. Hence, it is hypothesized that;

H2: The teaching method has positive effects on academic records.

Academic Records and Strong Academic Career

A record containing information about a student such as a name, father name, age, gender, address, contact information, attendance records, marks obtained against all the selective and compulsory subjects, grades, awarded the position, honors, short remarks and title of earned degree, is called an academic record of a student's. However, there are different types of records are present at an educational institution [26]. Such as textbook record, teacher record, stationary record, salary record, performance record, equipment/furniture record, miscellaneous record sheet, and student academic record. Students' academic record is the most important record for that all other records are maintained. Because students' academic record is responsible to illustrate the performance of all the participants of the education process [27]. If students' academic records are more than good, it shows that all the participants of the learning process are giving their best to achieve their set goals and targets [28]. In Indonesia, it is observed that students standing with excellent academic records ultimately become successful to build a strong academic career.

However, according to this study, the Indonesian students who were flexible, prefer quality over quantity education, and passed out from a graduate school have achieved a successful academic career. Students with prominent academic records successfully achieve their desired position in the area of their interest [29]. While the students who don't pay attention to a good academic record, have to struggle to find their desired job. Therefore, it is mandatory particularly for Indonesian students to get maximum marks at every step of their learning, hence, it helps them to obtain excellent academic records that are necessary for the achievement of a strong academic career. Therefore, it is enclosed that;

H3: Academic records have positive effects on a strong academic career.

H4: Academic records mediates the relationship between educational organization and strong academic career.

H5: Academic records mediates the relationship between teaching method and strong academic career.

3. Research Methodology

Research method for any research has an efficacious role. This is why the current research study went for a quantitative research method. Customarily well-known research methods are qualitative, quantitative and mix methods. Kind of the research was the best suit to a quantitative research method that is the fundamental reason to opt quantitative research method. Selection of region that the research covers was the next step. It was decided to consider principle authorities of various educational institutions from the whole Indonesia as the population of this study. The population of the present study consist of the whole country; hence, area cluster sampling was elevated. Because area cluster sampling is an ideal alternative when an extensive region is under review. Next step was to select sample size for this study; hence, 500 sample size was settled down. Because 500 sample size is recognized as a good sample size by the researchers. Furthermore, regional educational offices were contacted for the purpose of obtaining metadata such as contact information containing home address and contact number about the selective principle's authorities servicing in their corresponding schools, colleges, or universities.

A questionnaire to achieve the determination of the current study was designed. Hence, it was focused to design the questionnaire in portions according to the nature of questions. Therefore, two portions were allocated to the questionnaire. In the first portion, the respondents were to answer the demographic questions such as questions about the respondents' age, experience,

gender, and qualification with some other related queries. While in the second portions respondents were responsible to answer the questions about key variables of this study. Moreover, a 5-point Likert scale was adopted consisting of multiple questions that were necessary to obtain the result of this study.

Then a survey from the respondents of the present study was performed. Hence, the questionnaire along with a piece of descriptive information about the objective of this study was distributed among the respondents. Through the national courier services, the distribution of copies of the questionnaire was accomplished. However, the respondents were affirmed that the feedback provided by them will remain confidential. In the beginning, 195 responses received within 2 weeks, hence, a phone call as a reminder, was made to the rest of the respondents. In the next 20 days from the reminder call, 210 more responses were recorded. Hence, 405 responses received in total out of 500 sent questionnaires. 10 out of 405 responses were not completely filled. Therefore, the remaining 395 responses were accounted for as primary data of the current study. Hence, these primary data were analyzed for the capitalization results of this study. Insomuch, Partial Least Square, statistical software was used to attain the results of this study.

Data Analysis

The current study used the latest technique for data analysis, namely; Partial Least Square (PLS)-Structural Equation Modeling (SEM). Various previous studies highly recommended this technique to test the hypotheses [30-32]. However, before proceeding for data analysis, this study presented data screening in Table 1. PLS measurement model is given in Figure 3.

Table 1. Data Screening

	No.	Missing	Mean	Median	Min	Max	SD	Kurtosis	Skewness
EO1	1	0	3.045	3	1	7	1.393	-0.192	0.386
EO2	2	0	3.226	3	1	7	1.321	0.741	0.718
EO3	3	0	3.147	3	1	7	1.442	0.35	0.697
EO4	4	0	3.073	3	1	7	1.477	0.481	0.743
EO5	5	0	3.254	3	1	7	1.413	-0.01	0.57
EO6	6	0	3.181	3	1	7	1.324	0.528	0.635
TM1	7	0	3.062	3	1	7	1.333	0.01	0.608
TM2	8	0	3.198	3	1	7	1.311	0.492	0.691
TM3	9	0	3.198	3	1	7	1.406	0.075	0.762
AR1	10	0	3.232	3	1	7	1.381	0.151	0.641
AR2	11	0	3.203	3	1	7	1.277	0.426	0.729
AR3	12	0	3.384	4	1	7	1.558	-0.522	0.118
SAC1	13	0	3.362	4	1	7	1.679	-0.62	0.246
SAC2	14	0	3.424	4	1	7	1.876	-0.789	0.348
SAC3	15	0	3.446	3	1	7	2	-1.045	0.387
SAC4	16	0	3.271	3	1	7	2.071	-0.985	0.479

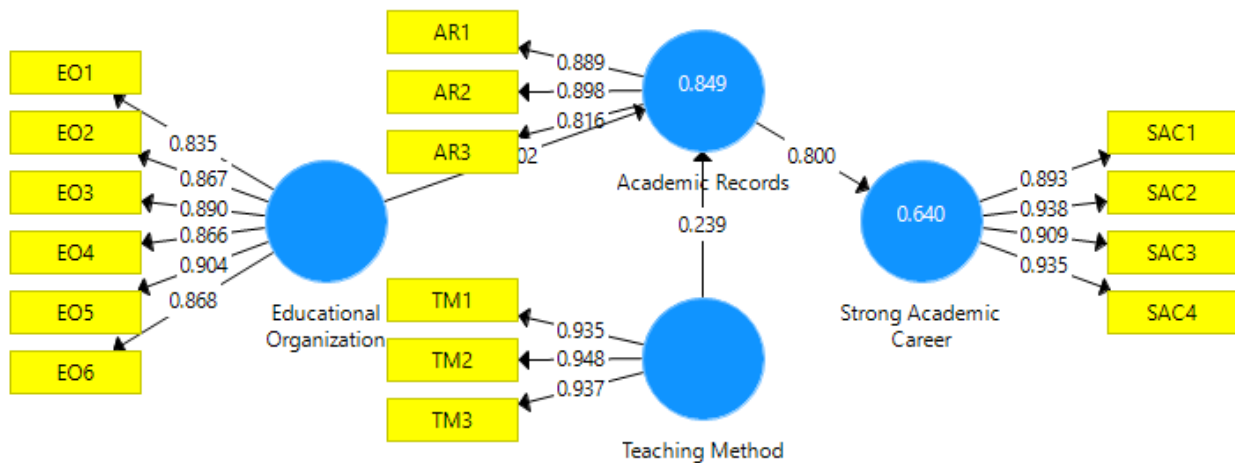


Figure 3. Confirmatory Factor Analysis (CFA)

Analysis of the study shows that factor loading for all items is above 0.5, composite reliability (CR) is above 0.7 which is minimum level for acceptance [32]. Moreover, average variance extracted (AVE) is also in acceptable

range which confirm the convergent validity in the current study. These results are provided in Table 2 and Table 3. Finally, discriminant validity is given in Table 4.

Table 2. Factor Loadings

	Academic Records	Educational Organization	Strong Academic Career	Teaching Method
AR1	0.889			
AR2	0.898			
AR3	0.816			
EO1		0.835		
EO2		0.867		
EO3		0.89		
EO4		0.866		
EO5		0.904		
EO6		0.868		
SAC1			0.893	
SAC2			0.938	
SAC3			0.909	
SAC4			0.935	
TM1				0.935
TM2				0.948
TM3				0.937

Table 3. Alpha, CR and AVE

	Cronbach's Alpha	rho_A	Composite Reliability	Average Variance Extracted (AVE)
Academic Records	0.836	0.838	0.902	0.754
Educational Organization	0.937	0.938	0.95	0.76
Strong Academic Career	0.938	0.939	0.956	0.844
Teaching Method	0.934	0.934	0.958	0.883

Table 4. Discriminant Validity

	Academic Records	Educational Organization	Strong Academic Career	Teaching Method
Academic Records	0.868			
Educational Organization	0.715	0.872		
Strong Academic Career	0.8	0.724	0.919	
Teaching Method	0.764	0.79	0.624	0.94

In this study, the psychological effect of educational organizations and teaching method was examined in academic records. Moreover, the effect of academic record was also examined on strong academic career. It is found that all relationships are significant having t-value

above 1.96. Thus, all the direct hypotheses are accepted by the results. It is shown in Table 5 and Figure 4. Further to this, indirect effect is given in Table 6 which shows that academic record is a mediating variable.

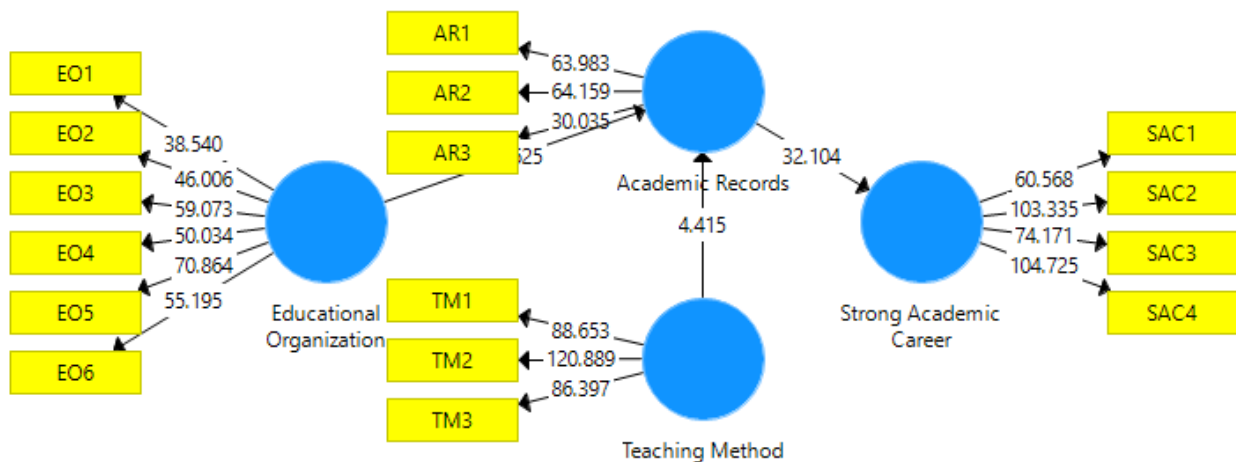


Figure 4. Structural Model

Table 5. Direct Effect

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics ((O/STDEV))	P Values
Academic Records -> Strong Academic Career	0.8	0.8	0.025	32.104	0
Educational Organization -> Academic Records	0.702	0.701	0.052	13.625	0
Teaching Method -> Academic Records	0.239	0.24	0.054	4.415	0

Table 6. Indirect Effect

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics ((O/STDEV))	P Values
Educational Organization -> Academic Records -> Strong Academic Career	0.561	0.561	0.042	13.334	0
Teaching Method -> Academic Records -> Strong Academic Career	0.191	0.192	0.045	4.245	0

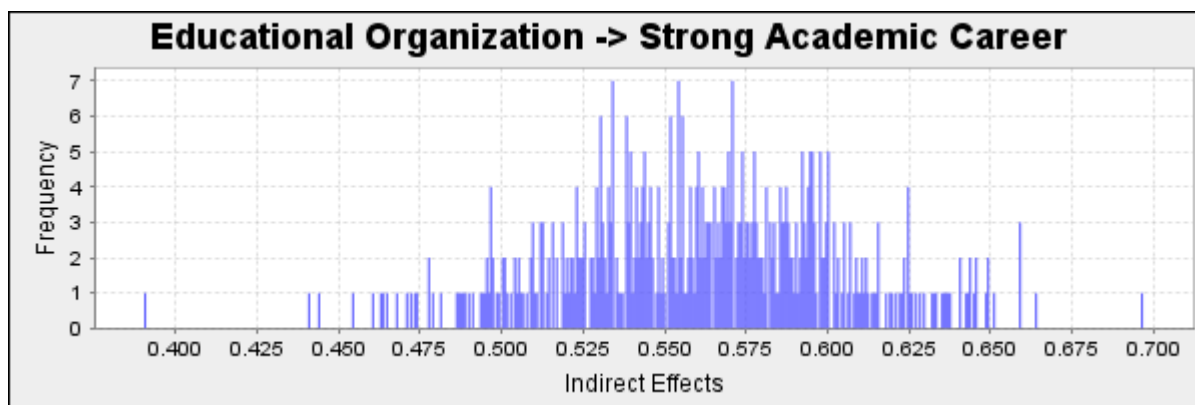


Figure 5. Indirect effect histogram between Educational Organization and Strong Academic Career

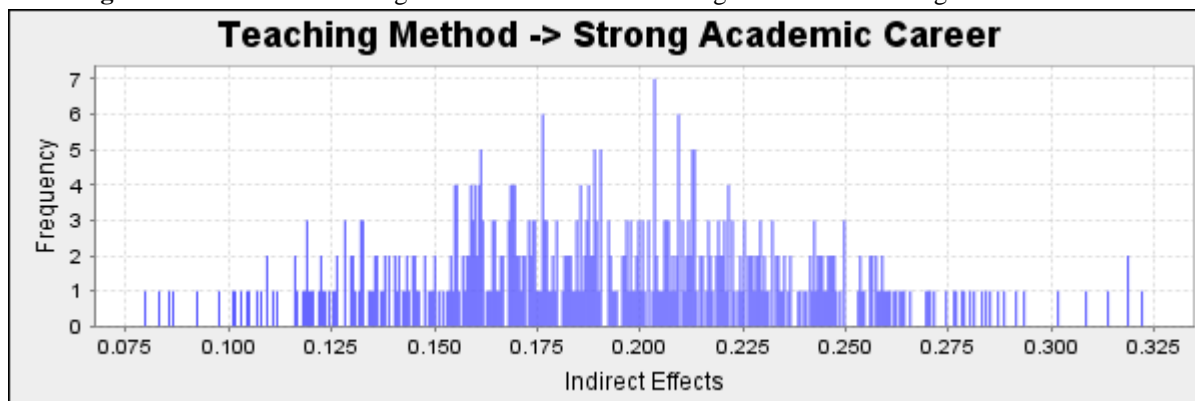


Figure 6. Indirect effect histogram between Teaching Method and Strong Academic Career

Impact of Academic Suppliers on Academic Career of the Students

After investigating the effect of psychological factors on academic career of the students, present analysis is examining the relationship between academic suppliers and student academic career in Indonesia. For this purpose, four key suppliers entitled as students who are providing self-funding, family (source of funds for the students), student suppliers (high schools and colleges), and finally the faculty suppliers (other educational institutes like universities) are added in the model. Whereas student academic career is observed as main outcome factor of the study. The results are provided in Table 6. As per stated findings, coefficient of 0.018 indicates that there is a positive impact on academic career of the students. However, this effect is not significant due to higher level of standard error which is 0.1629. This would employ that academic suppliers like students are not the significant determinant of academic career in the educational institute of Indonesia. Meanwhile, the impact

of family support on academic career is positively significant at 1 percent (i.e coefficient=0.216673, standard error= 0.052, t-score=4.135, p-value=0.000). It means that academic career is positively and significantly determined by the family. In addition, the effect of supplier of the students like schools and colleges have shown their positive and direct impact on academic career of the students. This fact is justified through a direct coefficient of 0.980 and standard error of 0.147. It means that higher the supplies from schools and colleges, higher the chance of academic career for the students and vice versa. This effect is significant at 1 percent at p-value is 0.000. Lastly, our study examined the effect of suppliers of faculty on academic career of students. The coefficient of suppliers of faculty (other educational institutes) have provided the fact that there is a direct and significant impact of 0.687 on academic career and vice versa. The overall findings under Table 6 indicates that three out of four indicators of academic suppliers have their positive and significant impact on academic career of the students.

Table 6: Impact of Academic Suppliers on Academic Career of the Students

	Coefficients	Standard Error	T-Stat	P-value
Intercept	2.366339	1.210872974	1.954242	0.064118
Students	0.081863	0.162959464	0.502353	0.620646
Family	0.216673***	0.052394405	4.135414	0.000
Suppliers of Students	0.980494***	0.147773673	6.635109	0.000
Suppliers of Faculty	0.687394***	0.148771756	4.620459	0.000

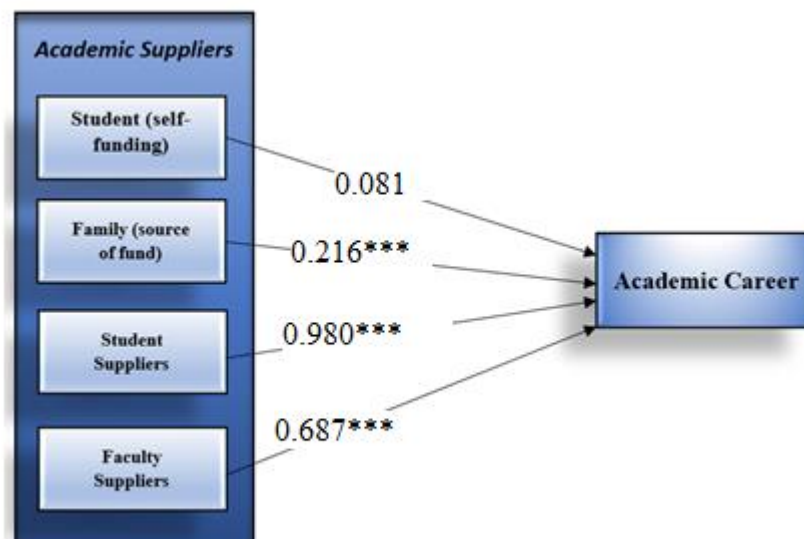


Figure 7: Output for the conceptual Model exploring the Impact of Academic Suppliers on Academic Career of the Students

4. Discussion

In total three hypothesizes were developed in the present study, according to the first hypothesis; the educational organization has a positive effect on academic records. When all the participants of a learning process are contributing to their maximum capacities and capabilities, exceptional and outstanding academic records with more acceptable results of the students particularly from Indonesia are possible. However, unorganized educational participants are not able to produce such results [33]. The second hypothesis of the present study describes that; teaching method has positive effects on academic records. A smart, modern and optimal method of teaching adopted in the classroom always produces prominent outcomes by all the members of the learning process. Teachers who utilize their energies by following an advance and excellent teaching method, always able to produce stars and heroes for their nation [34]. Because the teaching method has a direct relationship with the academic performances and records of the students. While manual and conventional teaching method is not enough to make such students that are compatible with the challenges present in the world of today. The final hypothesis of this study has encapsulated that; academic records have positive effects on a strong academic career. It is observed that the Indonesian students who have earned great marks during their learning process, and passed with prominent positions at every class, they have earned excellent academic records. According to the end results of this study, excellent academic records are promising for decisive and desired positions in the area of interest for the students, especially from Indonesia. In addition, our study has also provided a meaningful evidence for the

direct impact of academic suppliers like family, supplier of students, and supplier of teachers on academic career of the students. This would justify the significance of key parties in the supply chain of educational institutes.

5. Conclusion

In this research and discussion, it is concluded that factors such as educational organizations and teaching methods have a significant role in Indonesian students' academic records and a strong academic career. There is a need to reestablish all the educational organizations that are practicing traditional, unremarkable, and common systems of education. Such educational organization needs to bring people who are more competent and eligible with adequate capabilities. Weakness in administration units, irresponsible employees, and incompetent staff is the major weakness of the educational organizations. Due to these major problems, the organizations are unable to perform according to the need. Hence, students' academic records are not as worthy and meritorious in such educational organizations working in Indonesia. The educational organizations with full functionality and spending their maximum potential for providing quality education by increasing their students' performances and producing better academic records with consistency are promising for a strong academic career for the students.

The teaching method is another factor that plays a vital role to produce continuous performance by students. This study has concluded that teaching methods which are not as smart and modern, fail to obtain required results from students. Ordinary and formulaic teaching methods are just wastage of time and resources not only by the teachers but also for the students. While teachers

practicing a smart, perceptive, and penetrative teaching method, successfully make their students capable to stand with outstanding positions to produce greater academic records that are compulsory in the making a strong academic career.

Moreover, the current study has two kinds of implications:

1. Practical Implication:

Practically this study helps the practitioners and the professionals from Indonesia to achieve a strong academic career.

2. Theoretical Implication:

Theoretically, it's a great contribution to the literature for awareness and realization of the relationship between teaching method, educational organization, and students' strong academic career.

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