

## Relationship between Self-Efficacy and Academic Performance of College Students

Vishakha Saini

Assistant Professor, Dept. of Psychology, Chandigarh University, Mohali, India

### Abstract

Education is influenced by several factors. The reason for this study is to take a gander at the association between students' self-efficacy and academic success in Indian education foundations. Relapse examination was utilized to look at the impacts of self-efficacy parts like self-guideline, self-regard, and the capacity to understand people on a deeper level on academic achievement in 135 college students from various segment foundations. The examination means to additional information on the factors influencing academic performance and the meaning of self-efficacy in student achievement. The outcomes show that academic success and self-efficacy are decidedly connected, particularly with regards to the ability to appreciate anyone on a profound level and self-guideline. In any case, there is no way to see a relationship between academic achievement and self-regard. These discoveries feature that it is so vital to assist students with creating sensible self-efficacy beliefs to improve both their academic advancement and general prosperity. These discoveries might be utilized by teachers and policymakers to make centered intercessions that further develop youngsters' academic performance. In light of everything, this study adds to the extending corpus of examination on the relationship between academic achievement and self-efficacy and has significant repercussions for both strategy and practice in education. Extra factors influencing academic achievement and self-efficacy might be the subject of future exploration.

**Keywords:** *Self-efficacy, Academic performance, Higher Education, Emotional Intelligence, Self-regulation, Self-respect*

---

### 1. Introduction

The process of teaching and learning is influenced by several factors (Gaikwad, 2016). This is because the students differ in their family background, value system, previous knowledge, level of motivation, ability to comprehend and communication competencies to the great extent (Gaikwad, 2014). Students' viewpoints in their capacity to get new limits and activities, as often as possible in a particular academic field, are suggested as self-efficacy (Cobo-Rendón, 2020). Put unexpectedly, saw self-efficacy connects with a solitary's belief in their ability to achieve explicit goals. Bandura's social mental speculation, which puts that human performance is subject to the trade between a solitary's approach to acting, individual variables, and regular circumstances, gives an explanation of self-efficacy. Students use data from their actual performances, their saw experiences, the disputes they hear from others, and their non-verbal correspondence to review their level of self-efficacy (Drago, 2018). Task assurance, effort, steadiness, adaptability, and achievement are certainly affected by self-efficacy beliefs (Grøtan, 2019). Students who feel talented for learning or completely finishing an obligation take part in the improvement of academic self-efficacy more really than individuals who question their ability to learn (Hauck, 2020). They in like manner study harder, get through longer through challenges, and perform at a higher level (Manzano-Sanchez, 2018).

To spread it out doubtlessly, self-efficacy is the belief in one's ability to deal with one's own contemplations, sentiments, and approaches to acting (Nasir, 2019). Put another way, people's approach to acting is unimaginably affected by their viewpoints in regards to their own capacities and the outcomes of their undertakings (Ozkal, 2019). It follows that the numerous assessments displaying the impact of self-efficacy on academic success, motivation, and learning are not unexpected (Ramnarain, 2018). According to explore, there is a positive relationship between academic achievement and self-efficacy, and students' academic performance increases when they are instructed to have more grounded self-efficacy beliefs (Sharififard, 2020). The greater part of studies reviewing the relationship among performance and self-efficacy have shown a critical association (Tus, 2020). When diverged from students who miss the mark on conviction, individuals who have a high personality efficacy will frequently take on problematic errands, put forward more energy and ingenuity, and achieve very well academically.

### **1.1.Importance of Academic Performance**

A student's academic performance provides an objective indicator of their accomplishments and level of expertise in the subject area they have selected. It shows how well they can understand and apply ideas, interact with the course content, and do well on assignments, tests, and projects (Wu, 2020). Academic achievement is a major objective and a crucial gauge of a student's aptitude and commitment for many. College students who excel academically have access to a wide range of possibilities. Their chances of finding job in the future may be greatly impacted since companies often see academic accomplishments as proof of a candidate's abilities, expertise, and work ethic (Choudhury et al., 2024). Furthermore, a student's academic standing may have an impact on their eligibility for financial assistance programmes such as grants, scholarships, and internships, which may help them further in their academic and career endeavours.

The basis for students' future aspirations, such as graduate studies and professional paths, is laid by their academic achievement. A student's competitiveness for admission to professional schools, graduate programmes, or distinguished fellowships might be increased by having high academic accomplishment. Furthermore, the information and abilities gained from academic endeavours provide a strong foundation for success in their chosen vocations and a lifetime of learning opportunities for professional growth.

Academic achievement may provide college students a feeling of personal fulfilment and happiness since it recognises and affirms their hard work and commitment to their studies. Reaching academic objectives may help students feel more competent, confident, and well-aware of themselves, which can improve their general wellbeing and sense of self. Validation of Effort and Commitment: Students' academic success is a reflection of their work ethic, tenacity, and devotion in addition to their intelligence. It represents the ultimate result of hours of studying, going to class, working with classmates, and participating in extracurricular activities. A student's feeling of purpose and drive to keep aiming for greatness are strengthened when they demonstrate strong academic success, which validates their efforts and dedication to their education.

### **1.2.Research Questions**

1. What are the levels of academic self-efficacy belief among students at Indian colleges of education?

2. Is there a connection between academic achievement in Indian colleges of education and academic self-efficacy?

### **1.3. Research Objective**

1. To determine the college students' academic self-efficacy levels
2. To ascertain the correlation between students' academic performance at India's colleges of education and their perceived academic self-efficacy

## **2. Literature Review**

**Khan (2023)** explores the intricate relationship that exists between college students' academic achievement, coping mechanisms, and academic self-efficacy. The research explores how students' views about their own academic talents affect how they tackle academic obstacles and eventually affect their academic performance, drawing on Bandura's social cognitive theory. Khan synthesises prior research results on academic self-efficacy via a thorough literature analysis, emphasising its value as a predictor of academic achievement and its role in influencing students' coping strategies in the face of academic pressures. Additionally, the research looks at the many coping mechanisms college students use to deal with the demands of their studies; these mechanisms range from problem-focused to emotion-focused. Through his analysis of the connection between academic performance, coping strategies, and academic self-efficacy, Khan provides insightful information on the processes that underpin student success in higher education. The findings of this study have consequences for educators, counsellors, and legislators who work to advance children' academic growth and general well-being.

**Talsma (2019)** examined the students' self-efficacy beliefs and academic performance results being off kilter. The creators investigate the perplexing connection between individuals' self-view of their gifts (self-efficacy) and their real performance in academic settings, expanding upon Bandura's social mental hypothesis as a premise. Talsma et al. challenge the possibility that self-efficacy is a self-satisfying prediction by making sense of how students' perspectives about their own capacities may not necessarily in all cases match their academic performance through an exhaustive examination of the proof. The exploration causes to notice circumstances in which students might misjudge or underrate their own abilities, bringing about contrasts among apparent and real performance levels. Through an examination of miscalibration-causing factors such individual changes, logical effects, and mental predispositions, the creators give smart data on the complexities of self-efficacy beliefs and what they mean for academic performance. This study features the meaning of right self-assessment in advancing academic achievement and explains the mind boggling nature of self-efficacy. It additionally has consequences for how educators and different experts could assist students with building sensible self-efficacy beliefs and work on their academic performance.

**Tiyuri (2018)** demonstrated the relationship between postgraduate students' investigation self-efficacy and academic achievement. The possibility of assessment self-efficacy, or people's confidence in their ability to do investigate, is figured out by the researchers through a study of the composing that has recently been formed. In the setting of Tehran College of Clinical Sciences, the audit analyses how postgraduate students' self-trust in their investigation gifts and limits impacts their academic performance, drawing on Bandura's social mental speculation. Give pieces of information into the ability of investigation self-efficacy as a sign of academic achievement in higher education settings,

especially in fields requiring research-heightened courses and errands, by consolidating past assessment results. The survey focuses on that it is so earnest to help postgraduate students' assessment self-efficacy to deal with their academic performance and expert success. It also has repercussions for how academic associations and representatives can give interventions and sponsorship organizations to help students with having great assumptions regarding try exploration and completing eminent academic work. Through an expansive assessment of the composition, they further develop discernment of the relationship between investigation self-efficacy and academic achievement, edifying the parts that shape students' investigation aptitudes and canny achievements.

**Talsma (2018)** analysed the association between students' academic success and their discernments about their own viability. The creators utilize a meta-logical cross-slacked board study, drawing on Bandura's social mental hypothesis, to explore the proportional effects between students' self-efficacy beliefs and their inevitable academic performance across time. Talsma et al. orchestrate earlier review results through an exhaustive assessment of the writing, stressing the complementary idea of the connection between academic success and self-efficacy. As per their meta-investigation, there is a connection between students' self-efficacy beliefs and their later academic success that is positive, showing that expanded self-efficacy might prompt better academic performance as well as the other way around. Furthermore, the examination sees learning styles, relevant factors, academic motivation, and other potential arbitrators and middle people of this affiliation. Bits of knowledge into the equal connection between academic success and self-efficacy are given by Talsma et al., which are of incredible worth to the area of educational brain science. Instructors, policymakers, and experts might profit from this concentrate by supporting students' self-efficacy beliefs and further developing their academic performance by means of centered mediations and backing administrations. Talsma et al. give hypothetical and useful ramifications to cultivating student achievement in educational settings by propelling our insight into the multifaceted relationship between self-efficacy and academic performance through their exhaustive writing audit and meta-examination.

### **3. Research Methodology**

**3.1. Research Design:** Regression analysis was used in this study's research design, which seems to be quantitative in nature and examines the connection between academic achievement of college students and self-efficacy components. The research strategy used in the study is probably empirical, with the goal of collecting numerical data to test hypotheses and make statistical inferences about the variables being studied.

**3.2. Research Sample:** 135 college students from varied Indian demographics make up the study sample. Given the sample's apparent diversity with regard to gender, age, and faculty affiliation, a thorough analysis of the correlation between self-efficacy and academic achievement across various student demographic subgroups is made possible. Nonetheless, the gender-specific percentages seem to be out of alignment, since they surpass 100%. It could be necessary to clarify or make adjustments to ensure correctness.

**3.3. Data Collection Instrument:** Most likely, structured surveys or questionnaires were used as the main data gathering instrument in this research. These tools would have contained questions or scales to assess academic success markers (including attendance, participation, self-confidence, and desire for learning) as well as

components of self-efficacy (such self-regulation, self-respect, and emotional intelligence). To reach a larger spectrum of people, data collecting may have been done using online surveys, in-person interviews, or a mix of the two.

### 3.4.VARIABLE

- **Independent Variable:** Self-Efficiency, Self-Regulation, Self-Respect, Emotional Intelligence
- **Dependent Variable:** Academic Performance of Students

3.5.**Data Analysis:** Several statistical techniques were used in the study's data analysis. The frequency and percentage distributions for gender, age, and academic affiliation show that descriptive statistics were probably first employed to summarise the sample's demographic features. The link between the independent factors (academic performance) and the dependent variable (self-efficacy components) was then investigated using regression analysis. To evaluate the overall fit of the model and the relevance of the predictors, the summary of the regression model, the summary of the ANOVA, and the coefficients of determination were provided. Regression modelling may have been carried out using statistical software, such as SPSS or R, to conduct data analysis and produce the coefficients and significance levels presented in the paper.

### 3.6.Research Hypothesis

(H0) In India's education institutes, there is no discernible relationship between students reported academic self-efficacy and their academic accomplishment.

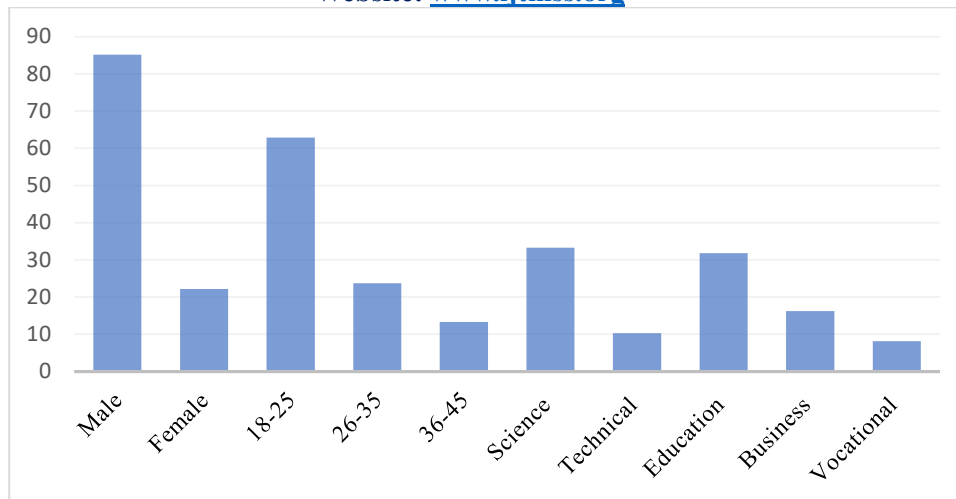
(H1) In India's education institutes, there is a significant and positive relationship between students' academic accomplishment and their perceived academic self-efficacy.

## 4. Data Analysis

The information supplied sheds light on the distribution and demography of a certain population. First, of the sample's total sample population, 85.18% of its members are men and 22.2% are women. This suggests that there is a notable disparity in gender among the respondents. Regarding the age distribution, the majority of the respondents (62.9%) belong to the 18–25 age group, which is the biggest subgroup.

**Table 1: Demographic Profile**

Variables	Sub group	Frequency (135)	Percent
<b>Gender</b>	Male	115	85.18
	Female	30	22.2
<b>Age</b>	18-25	85	62.9
	26-35	32	23.7
	36-45	18	13.3
<b>Faculty</b>	Science	45	33.3
	Technical	14	10.3
	Education	43	31.8
	Business	22	16.2
	Vocational	11	8.14



**Figure 1:** Graphical Representation of Demographic Profiles

The age-groups 26–35 and 36–45 show reduced percentages of 23.7% and 13.3%, respectively, indicating a decreasing rate of engagement as age increases. There is variation in the distribution of academic affiliations. With comparatively larger representations of 33.3% and 31.8%, respectively, science and education demonstrate a significant level of interest in these disciplines among the people polled. Less involvement is shown in the technical and business faculties, which have fewer percentages of 10.3% and 16.2%, respectively. With 8.14%, the lowest number within the assessed group, vocational faculty seems to have less interest in or representation in vocational studies. All things considered, this data offers insightful information on the makeup and preferences of the sample, information that may be used to develop focused strategies or interventions for certain professional or demographic groups.

### Pearson Correlation

**Table 2:** Correlation Matrix

Correlations						
		Self-Efficacy	Self-Regulation	Self-Respect	Emotional Intelligence	Academic Performance of Students
Self-Efficacy	Pearson Correlation	1	.658**	.569**	.578**	.448**
	Sig. (2-tailed)		0	0	0	0
	N	135	135	135	135	135
Self-Regulation	Pearson Correlation	.650**	1	.698**	.784**	.678**
	Sig. (2-tailed)	0		0	0	0
	N	135	135	135	135	135
Self-Respect	Pearson Correlation	.569**	.698**	1	.525**	.598**

	Sig. (2-tailed)	0	0		0	0
	N	135	135	135	135	135
Emotional Intelligence	Pearson Correlation	.578**	.784**	.525**	1	.845**
	Sig. (2-tailed)	0	0	0		0
	N	135	135	135	135	135
Academic Performance of Students	Pearson Correlation	.448**	.678**	.598**	.845**	1
	Sig. (2-tailed)	0	0	0	0	
	N	135	135	135	135	135
**. Correlation is significant at the 0.01 level (2-tailed).						

#### 4.1. Regression

**Table 3:** Model Summary of Variables

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.750 <sup>a</sup>	.545	.585	.90241
a. Predictors: (Constant) Self-Efficiency, Self-Regulation, Self Respect, Emotional Intelligence				

**Table 4:** Anova summary

ANOVA <sup>a</sup>						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	235.30	2	60.450	69.165	.000 <sup>b</sup>
	Residual	122.13	185	.755		
	Total	14.145	201			
a. Dependent Variable: Academic Performance of Students						
b. Predictors: (Constant) Self-Efficiency, Self-Regulation, Self-Respect, Emotional Intelligence						

**Table 5:** Coefficient of Determination of the Variable

<b>Coefficients<sup>a</sup></b>						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.745	.250		-2.745	.010
	Self-Efficiency	-.065	.07	-.035	-.651	.356
	Self-Regulation	.195	.95	.153	3.457	.002
	Self-Respect	.150	.85	.95	1.231	.75
	Emotional Intelligence	.542	.070	.455	7.651	.000
a. Dependent Variable: Academic Performance of Students						

The discoveries of the relapse examination shed light on the associations between various parts of self-efficacy and academic achievement in college students. Whenever the effects of self-efficacy parts are dismissed, the block term, addressed by the consistent, is negative (- 0.745) and measurably critical ( $t = - 2.745$ ,  $p = 0.010$ ), recommending a standard adverse impact on academic performance. The ability to appreciate anyone on a deeper level has the most noteworthy and most critical relationship with academic success among the parts of self-efficacy that have been explored. Higher degrees of the ability to appreciate individuals on a deeper level appear to be connected to more noteworthy academic achievement, as shown by the positive and exceptionally critical coefficient of the capacity to understand people on a profound level ( $B = 0.542$ ,  $t = 7.651$ ,  $p = 0.000$ ). The huge effect size shown by the high normalized coefficient ( $Beta = 0.455$ ) loans more proof to this connection. Conversely, self-guideline, yet it has a lesser impact size ( $Beta = 0.153$ ) than the capacity to understand individuals on a deeper level, actually shows a positive and measurably huge connection with academic achievement ( $B = 0.195$ ,  $t = 3.457$ ,  $p = 0.002$ ). Be that as it may, since self-regard's p-esteem is higher than the typical importance edge ( $p > 0.05$ ), it doesn't show a genuinely huge connection with academic success. Generally speaking, these outcomes show that while self-guideline and the capacity to understand people on a profound level well affect college students' academic performance, self-regard doesn't appear to be a main consideration in foreseeing academic success in this exploration.

## 5. Conclusion

This research investigates the connection between academic achievement and self-efficacy among College of Education students in India. It emphasises the significance of emotional intelligence and self-regulation in predicting academic performance by drawing on Bandura's social cognitive theory. The findings demonstrate a favourable relationship between a number of measures of academic performance and self-efficacy components, in particular emotional intelligence and self-regulation. The most significant predictor is emotional intelligence, which is followed by self-regulation. Academic results do not significantly correlate with self-respect. When creating interventions to assist children'



academic growth and well-being, educators and policymakers should take these results into consideration. Encouraging kids to have realistic self-efficacy beliefs is essential to helping them make correct self-assessments. This study adds to the expanding body of research on the relationship between academic achievement and self-efficacy and offers insightful information for educational practice and policy-making. Future studies could look at other variables affecting academic performance and self-efficacy.

## References

- Choudhury, S., Chechi, V. K., Gaikwad, S. R. & Verma, A. (2024). Exploring Educators' Perception of Augmented Reality in Indian Context: Psychometric Validation and Determinants Analysis. 2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT). DOI: 10.1109/IC2PCT60090.2024.10486371
- Cobo-Rendón, R., Pérez-Villalobos, M. V., Páez-Rovira, D., & Gracia-Leiva, M. (2020). A longitudinal study: Affective wellbeing, psychological wellbeing, self-efficacy and academic performance among first-year undergraduate students. *Scandinavian journal of psychology*, 61(4), 518-526. <https://onlinelibrary.wiley.com/doi/abs/10.1111/sjop.12618>
- Drago, A., Rheinheimer, D. C., & Detweiler, T. N. (2018). Effects of locus of control, academic self-efficacy, and tutoring on academic performance. *Journal of college student retention: Research, theory & practice*, 19(4), 433-451. <https://journals.sagepub.com/doi/abs/10.1177/1521025116645602>
- Gaikwad, S. R. (2014). The Role of Values in Unforeseen Circumstances of Business. *IOSR Journal of Business and Management*. Available at: [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=KufjkiwAAAJ&citation\\_for\\_view=KufjkiwAAAJ:2osOgNQ5qMEC](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=KufjkiwAAAJ&citation_for_view=KufjkiwAAAJ:2osOgNQ5qMEC)
- Gaikwad, S. R. (2016). To Assess the Present Employability Skills and Impact of Skill Development Initiatives on 'GenNext'. *International Journal of Economics and Commerce*, Vol.1 (3). Available at: [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=KufjkiwAAAJ&authuser=1&citation\\_for\\_view=KufjkiwAAAJ:u-x6o8ySG0sC](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=KufjkiwAAAJ&authuser=1&citation_for_view=KufjkiwAAAJ:u-x6o8ySG0sC)
- Grøtan, K., Sund, E. R., & Bjerkeset, O. (2019). Mental health, academic self-efficacy and study progress among college students–The SHoT study, Norway. *Frontiers in psychology*, 10, 408316. <https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2019.00045/full>
- Hauck, A. A., Ward, C., Persutte-Manning, S. L., & Vaughan, A. L. (2020). Assessing first-year seminar performance with college engagement, academic self-efficacy, and student achievement. *Journal of Higher Education Theory and Practice*, 20(4), 88-101. [http://www.na-businesspress.com/JHETP/JHETP20-4/7\\_HauckFinal.pdf](http://www.na-businesspress.com/JHETP/JHETP20-4/7_HauckFinal.pdf)
- Khan, M. (2023). Academic self-efficacy, coping, and academic performance in college. *International Journal of undergraduate research and creative activities*, 5(1), 3. <https://digitalcommons.cwu.edu/ijurca/vol5/iss1/3/>
- Manzano-Sanchez, H., Outley, C., Gonzalez, J. E., & Matarrita-Cascante, D. (2018). The influence of self-efficacy beliefs in the academic performance of Latina/o students in the United States: A systematic literature review. *Hispanic Journal of Behavioral Sciences*, 40(2), 176-209. <https://journals.sagepub.com/doi/abs/10.1177/0739986318761323>

- Nasir, M., & Iqbal, S. (2019). Academic Self Efficacy as a Predictor of Academic Achievement of Students in Pre Service Teacher Training Programs. *Bulletin of Education and Research*, 41(1), 33-42. <https://eric.ed.gov/?id=EJ1217900>
- Ozkal, N. (2019). Relationships between self-efficacy beliefs, engagement and academic performance in math lessons. *Kıbrıslı Eğitim Bilimleri Dergisi*, 14(2), 190-200. <https://www.ceeol.com/search/article-detail?id=966307>
- Ramnarain, U., & Ramaila, S. (2018). The relationship between chemistry self-efficacy of South African first year university students and their academic performance. *Chemistry Education Research and Practice*, 19(1), 60-67. <https://pubs.rsc.org/en/content/articlehtml/2018/rp/c7rp00110j>
- Sharififard, F., Asayesh, H., Hosseini, M. H. M., & Sepahvandi, M. (2020). Motivation, self-efficacy, stress, and academic performance correlation with academic burnout among nursing students. *Journal of Nursing and Midwifery Sciences*, 7(2), 88-93. <https://www.sid.ir/FileServer/JE/H50001020200204>
- Talsma, K., Schüz, B., & Norris, K. (2019). Miscalibration of self-efficacy and academic performance: Self-efficacy ≠ self-fulfilling prophecy. *Learning and Individual Differences*, 69, 182-195. <https://www.sciencedirect.com/science/article/abs/pii/S104160801830178X>
- Talsma, K., Schüz, B., Schwarzer, R., & Norris, K. (2018). I believe, therefore I achieve (and vice versa): A meta-analytic cross-lagged panel analysis of self-efficacy and academic performance. *Learning and individual Differences*, 61, 136-150. <https://www.sciencedirect.com/science/article/abs/pii/S104160801730211X>
- Tiyuri, A., Saberi, B., Miri, M., Shahrestanaki, E., Bayat, B. B., & Salehiniya, H. (2018). Research self-efficacy and its relationship with academic performance in postgraduate students of Tehran University of Medical Sciences in 2016. *Journal of education and health promotion*, 7(1), 11. [https://journals.lww.com/jehp/fulltext/2018/07000/An\\_investigation\\_of\\_the\\_relationship\\_between.11.aspx](https://journals.lww.com/jehp/fulltext/2018/07000/An_investigation_of_the_relationship_between.11.aspx)
- Tus, J. (2020). Self-concept, self-esteem, self-efficacy and academic performance of the senior high school students. *International Journal of Research Culture Society*, 4(10), 45-59. [https://d1wqtxts1xzle7.cloudfront.net/65631489/SelfConceptSelfEsteemSelfEfficacyandAcademicPerformance.pdf?1612758585=&response-content-disposition=inline%3B+filename%3DSelf\\_Concept\\_Self\\_Esteem\\_Self\\_Efficacy\\_a.pdf&Expires=1714726899&Signature=YafAGNgPChTQtuJgnJNU5f~mylX5exURjoXdjqNYg4rvqeyfaG7ejavSkipunPqP1mxZqTUx9dV-RUqup2j5hjp0fTkSxDhrlwnb7vcxpak7keXw0qydocynTm8NJUCrt1fmuaMJR8Xt~2CiVTtvuMmoz-YM6UESYGRRg6TcfLcnCTUmV45hXlwB4iFjVARJAbjYlWydVKvdSmNSuyJJ2rao9O6~DUA7PHz3YXseQJGsw9~eDYcvaaD6lBeuLW6k3caMcLxoV~HIA2US9KaG8JUb-LBLUsIiJzkSLFMUIXug~WO-IM61rY-VqcTc2h-OWXrezyxgNfk6K4oTD1TFHA\\_\\_&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA](https://d1wqtxts1xzle7.cloudfront.net/65631489/SelfConceptSelfEsteemSelfEfficacyandAcademicPerformance.pdf?1612758585=&response-content-disposition=inline%3B+filename%3DSelf_Concept_Self_Esteem_Self_Efficacy_a.pdf&Expires=1714726899&Signature=YafAGNgPChTQtuJgnJNU5f~mylX5exURjoXdjqNYg4rvqeyfaG7ejavSkipunPqP1mxZqTUx9dV-RUqup2j5hjp0fTkSxDhrlwnb7vcxpak7keXw0qydocynTm8NJUCrt1fmuaMJR8Xt~2CiVTtvuMmoz-YM6UESYGRRg6TcfLcnCTUmV45hXlwB4iFjVARJAbjYlWydVKvdSmNSuyJJ2rao9O6~DUA7PHz3YXseQJGsw9~eDYcvaaD6lBeuLW6k3caMcLxoV~HIA2US9KaG8JUb-LBLUsIiJzkSLFMUIXug~WO-IM61rY-VqcTc2h-OWXrezyxgNfk6K4oTD1TFHA__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA)
- Wu, H., Li, S., Zheng, J., & Guo, J. (2020). Medical students' motivation and academic performance: the mediating roles of self-efficacy and learning engagement. *Medical education online*, 25(1), 1742964. <https://www.tandfonline.com/doi/full/10.1080/10872981.2020.1742964>