

# IMPROVING LEARNING ACHIEVEMENT THROUGH INTERPERSONAL INTELLIGENCE AND SELF-REGULATED LEARNING

# Retno Purwitasari\*, Mardi<sup>2</sup>, Ayatulloh Michael Musyaffi<sup>3</sup>

<sup>1,2,3</sup> Jakarta State University Email: retnopurwitasari047@gmail.com

### ABSTRACT

The material in accounting computer lessons utilizes technology used to present problems to students. Thus, generating differences in student achievement based on various factors. To see the effect of interpersonal intelligence and self-regulated learning on student achievement. This study uses a survey method based on a quantitative approach. The Affordable population of this study is the eleventh-grade students in the Department of financial accounting SMKN Jakarta with 174 students. Simple random sampling is used as a sampling technique. The sample was taken randomly without certain criteria so that students who have high or low achievement can be a research sample. Known results of the average (mean) student achievement in this study into Category B (Good). Furthermore, students who have interpersonal intelligence and self-regulated learning are in the "low" category and the "high" category. In this study, teachers as educators in schools can guide and train students ' social relationships by forming study groups regularly so that students can improve interpersonal relationships with other students, besides that students can understand each other's learning needs to form learning strategies that will produce learning goals to be achieved. The findings of this study stated that there is a relationship between computer accounting learning achievement of vocational school students with interpersonal intelligence and self-regulated learning positively.

Keywords: Total Revenue, Authorized Capital and Corporate Inventories

### INTRODUCTION

Education describes one of the important activities in every human life activity. Good quality education will help the learning process so that it can produce changes in humans. Improving the development of Indonesian education is carried out in various ways to overcome existing problems. To support the development of development, education is absolutely carried out by someone. Knowledge-based economy (KBE) is the development of a knowledge-based economy, which is currently being developed globally used by countries in the world. According to (Oktaviastuti et al., 2019) education taken by students in Vocational High School (SMK) other than in general theoretical knowledge also equips students with technical skills. Skilled in the industry efficient and competent in their field of expertise is the main goal of Vocational High School (SMK) graduates. One of the areas of expertise in the accounting department is the subject of computer accounting competence which involves aspects of computerized technology in the management of accounting transactions. Technology that moves forward has an impact on

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accounting which is an important part in the industrial field (Musyaffi, 2020). Thus, vocational students as learners should be able to understand the development of technology in the field of accounting. The material in computer accounting lessons that use technology also usually presents problems to students such as in the discussion of MYOB accounting (Rosyadi et al., 2018). According to (Mulbar et al., 2019) a good education is one that can explore the full potential of the student. To see the changes that occur and help explore the full potential of students, in the learning process it is necessary to carry out an assessment (Fokalie, 2020). These learning outcomes certainly indicate there are learning difficulties that occur to students. Factors that cause differences in learning outcomes such as factors that come from within / from outside the student. Thus, researchers focused on the discussion of factors internally. Interpersonal intelligence is intelligence related to relationships between people. The Theory of Multiple Intelligences in education is very broad. Interpersonal intelligence must exist in students, because interpersonal intelligence can improve interaction with others effectively (Syasmita et al., 2019). People with strong interpersonal intelligence can usually easily collaborate and communicate with someone. Students must constantly train and improve their interpersonal intelligence. According to the concept of Educational Psychology, the efforts that students make to clarify the direction of education are mentioned as an indicator of self-regulation. Not a few students face difficult learning processes such as in understanding the material, this causes some students to receive poor learning outcomes. Students who receive unsatisfactory learning achievements are not caused by the low intelligence factor alone, but another thing that needs to be considered is self-regulation in different learning activities for each student (Jagad & Khoirunnisa, 2018).

### LITERATURE REVIEW

The process that students achieve after undergoing learning activities and producing evaluations in the form of numbers, letters, or words is the definition of learning outcomes (Kharisma et al., 2019). Evaluation of a student's learning outcomes to determine learning goals is known as learning achievement (Walid & Hadiwinarto, 2021). Through learning outcomes, students can experience learning progress (Istapra et al., 2021). It is concluded that learning achievement is the result of the learning process that each student does for effort and hard work to achieve a learning goal.

#### **Interpersonal Intelligence**

Savitri (2019) mentioned that smart means memorizing terms, being good at counting, reading quickly, quickly solving puzzles, and quickly being able to write words. The theory of multiple intelligence by Gardner (1983) that multiple intelligence is based on the definition of the concept of creating something with various abilities in problem-solving. The seven main bits of intelligence in his book are, linguistic, logical-mathematical, musical, spatial, bodily-kinesthetic, interpersonal, and intrapersonal. According to Wijaya et al. (2021) the ability to understand others, including emotions, temperaments, moods, intentions, and desires, manifested in creating good relationships, interactions, and collaborations that are mutually beneficial is the meaning of interpersonal intelligence. Because according to Hardi (2021) one of the intelligence that students must have is interpersonal intelligence. Hermita (2017) defines interpersonal intelligence as social intelligence, which refers to the ability to establish and maintain social relationships. Based on the opinions of experts on the definition of interpersonal intelligence, it is concluded that interpersonal intelligence is a mastery skill in establishing relationships that a person does to communicate

verbally or non-verbally, provide interaction and understand the feelings of others to provide the needs of others and the team. Interpersonal intelligence helps individuals to realize their presence to be able to enter into their social environment either in the community, family, school, or workplace.

# **Self-Regulated Learning**

Zimmerman (1990) states that students to achieve academic achievement to be achieved, students determine and utilize self-learning strategies based on feedback about the effectiveness and learning skills called self-regulated. Furthermore, according to Zimmerman (1989) the three factors that influence self-regulated learning are called the triadic form of self-regulation theory, namely personal self (person), action factor (behavior), and environmental situation factor (environment). Self-regulated learning can be interpreted as" adjusting or controlling oneself in learning "or" controlling or self-learning " (Ghufron & Suminta, 2017). According to Saputra et al. (2019) self-regulated learning means self-learning. Independent learning is the active and independent efforts of learners in the learning objectives. Self-learning according to van Alten et al. (2020) is someone who has the ability and motivation to think about how what, and why they learn (i.e. metacognition) and thus control their learning behavior (i.e. adjustment). From various expert opinions regarding the definition of self-regulated learning, it can be concluded that self-regulated learning is a process of a person's effort to adjust in organizing, coordinating, and controlling learning activities to improve abilities and achieve certain goals.

### **RESEARCH METHODS**

This study uses a quantitative approach using survey methods. Survey research is research that takes samples from one population and uses questionnaires as a primary data collection tool that aims to examine the behavior of an individual or group (Siyoto & Sodik, 2015). According to Sumargo (2020) survey research methods aim to obtain an explanation or a descriptive characteristic of a population. The population of this study are all students of SMKN 22, 51, and 44 Jakarta, then the Affordable population of this study is the 11th-grade students in the Department of financial accounting of SMKN 22, 51, and 44 Jakarta, amounting to 174 students. Researchers use simple random sampling techniques that perform simple and fair sampling, meaning that each population has the same opportunity to be selected (Sumargo, 2020). With the population of all SMKN students 22, 51, and 44 Jakarta, researchers chose random sampling without certain criteria so that students who have high or low achievement can be a sample in the study.

# **RESULTS AND DISCUSSION**

Completed data collection and data analysis found that the highest achievement in computer accounting is 98 and the lowest achievement is 78. Thus, it is known that the average (mean) student achievement in this study amounted to 88.06 and into the category of "B" (value > 80-90 "good"). Furthermore, after performing multiple linear regression analysis showed the result of a constant of 55.942 with a value for the variable X1 of 0.156 and the value for the variable X2 of 0.134. Then the equation can be determined as follows:  $\hat{Y}=55,942+0,156X_1+0,134X_2$ 

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The meaning of the equation above is that if interpersonal intelligence and self-regulated learning have a value of 0, then the value that will be formed for learning achievement is in the form of a positive value. Amounted to 0.156 for variable interpersonal intelligence and a value of 0.134 for variable self-regulated learning. Furthermore, the coefficient of determination test in this study found the R Square value of 0.400 or 40%. This means that the changes that occur in the variable learning achievement are influenced by variables interpersonal intelligence and self-regulated learning by 40%.

### **Interpersonal Intelligence On Learning Achievement**

The results of the calculation of the above data analysis found that the T-test obtained t calculate interpersonal intelligence is 2.842 and the T table on a significance of 0.05 with a value of 1.98027. Thus, it is concluded that t count > t Table is equal to 2.842 > 1.98027 then Ho rejected which means interpersonal intelligence has a positive influence on learning achievement. The results of these calculations are following research conducted by Istapra et al. (2021) because the relationship of interpersonal intelligence of a student has a great influence on the performance of the student's achievements. The results showed that students an average interpersonal intelligence in this study are in the category of" medium " by 70%. Students in this study showed the average interpersonal intelligence is in the category of "low " category of 14%. Students who have average interpersonal intelligence in this study were in the "high " category of 16%. Risan (2017) mentioned that interpersonal intelligence can affect student achievement inside or outside the classroom. Then, research conducted by Hardi (2021) explained that one of the dominant factors affecting learning outcomes is interpersonal intelligence, if students ' interpersonal is high, it will help students to be able to communicate and work together in groups to solve problems.

### Self-Regulated Learning On Learning Achievement

Furthermore, the results of the calculation of the above data analysis found that the value of t count self-regulated learning of 2.667 and the T table on the significance of 0.05 with the value of T table of 1.98027. Thus it can be concluded that t count > t Table is equal to 2.667 > 1.98027then Ho rejected which means self-regulated learning has a positive influence on learning achievement. The results of the above calculations according to research conducted by OZ (2021) state that these self-regulated learning skills help in setting specific goals for yourself, implementing effective strategies to achieve them, controlling tasks, rearranging the physical and social environment according to learning goals, managing time efficiently, and can be identified as learners who carry out assessments and apply possible strategies to themselves. The results showed that students have an average of self-regulated learning in this study in the category of" medium " of 72%. Students in this study showed the average self-regulated learning is in the category of" low " by 13%. Students who have an average of self-regulated learning in this study are in the "high " category of 15%. Then, research conducted by Magfirah & Thahir (2021)states that the ability to regulate academic activities is related to the ability of self-regulated learning. In addition, research by Alafgani & Purwandari (2019) states that self-regulated learning is one of the important predictors of school achievement.

### **Interpersonal Intelligence And Self-Regulated Learning On Learning Achievement**

The above calculation shows the value of the F count of 39.400 which means greater than the F table based on the F statistics table of 3.07. Thus, F count 39,400 > F table 3,07. Then there is the influence of independent variables of interpersonal intelligence and self-regulated learning

simultaneously to the dependent variable of learning achievement. The above calculation results are following research conducted by Okwuduba et al. (2021) that gender, age, self-regulated learning, and emotional intelligence in the form of intrapersonal and interpersonal significantly affect student academic achievement. Furthermore, research conducted by Fokalie (2020) self-regulation of learning and interpersonal intelligence applied to the learning process can affect academic achievement. Later, research conducted by Zhoc et al. (2018) showed students with higher levels of both intrapersonal and interpersonal emotional intelligence have higher levels of self-regulated learning and can perform better not only academically, but also in self-development, including social, cognitive, and self-development aspects. Kharisma et al. (2019) state that interpersonal intelligence, self-regulation, and logical thinking skills have a positive effect together on learning achievement.

# CONCLUSION

Based on the analysis of data and research that has been done and arranged in the chapters above, researchers have concluded that students with average interpersonal intelligence in this study are in the category of "medium". Thus, it was found that the relationship of significant and positive effect on learning achievement with interpersonal intelligence, meaning that high interpersonal intelligence of students will produce high learning achievement for students. Furthermore, students who have an average of self-regulated learning in this study are in the category of" medium ". Thus, it was found that self-regulated learning has a significant and positive effect on learning achievement, meaning that high self-regulated learning will produce high learning achievement for students. In this study, it was found that the average results (mean) student achievement in this study into the category of "B" (value > 80-90 "good"). It can be concluded that interpersonal intelligence and self-regulated learning have a significant and positive influence on the learning achievement of vocational students.

# REFERENCE

- Alafgani, M., & Purwandari, E. (2019). Self-efficacy, academic motivation, self-regulated learning and academic achievement. Jurnal Psikologi Pendidikan Dan Konseling: Jurnal Kajian Psikologi Pendidikan Dan Bimbingan Konseling, 5(2), 104. https://doi.org/10.26858/jppk.v5i2.10930
- Fokalie, C. (2020). Pengaruh Self-Regulated Learning Dan Kecerdasan Interpersonal Terhadap Prestasi Akademik Mahasiswa Program Studi Manajemen Di Universitas Kristen Petra Surabaya. *Agora*, 8.
- Gardner, H. (1983). Frames of mind: The theory of multiple intelligences. Basic Books.
- Ghufron, M. N., & Suminta, R. R. (2017). Hubungan antara kepercayaan epistemologis dengan belajar berbasis regulasi diri. *Jurnal Psikologi Insight*, 1(1), 40–54. https://zenodo.org/record/824610#.WYrO-ISGMdU
- Hardi, F. (2021). The relationship between interpersonal intelligence and linguistic intelligence with mathematics learning achievement in high school students. 2(2), 71–75. https://doi.org/10.34007/jdm.v2i2.840

Hermita, N. (2017). Pembelajaran Berbasis Kecerdasan Jamak di SD. Deepublish.

Istapra, E., Sasongko, R. N., Kristiawan, M., Kusuma, R. G. T., & Walid, A. (2021). Interpersonal Intelligence: A Strengthening in Efforts to Improve Student Learning Achievement. *Education Quarterly Reviews*, 4(2). https://doi.org/10.31014/aior.1993.04.02.202

- Jagad, H. K. M., & Khoirunnisa, R. N. (2018). Hubungan Antara Efikasi Diri Dengan Self Regulated Learning Pada Siswa Smpn X. *Character: Jurnal Penelitian Psikologi.*, 5(3), 1–6.
- Kharisma, D., Paduppai, D., & Djam'an, N. (2019). Pengaruh Kecerdasan Interpersonal, Regulasi Diri, Dan Kemampuan Berpikir Logis Terhadap Prestasi Belajar Matematika Siswa Kelas Xii Sma Negeri 2 Sengkang. Jurnal Nalar Pendidikan, 7(1), 21–27. http://ojs.unm.ac.id/nalar/article/view/9390
- Magfirah, N., & Thahir, R. (2021). Peranan Self Efficacy dan Self Regulated Learning Terhadap Prestasi Akademik Mahasiswa ( The Role of Self Efficacy and Self Regulated Learning on Student Academic Achievement ). *Ilmiah Pendidikan Biologi*, *7*, 63–70.
- Mulbar, U., Arwadi, F., & Assagaf, S. F. (2019). The Influences of Intrapersonal Intelligence and Interpersonal Intelligence towards Students' Mathematics Learning Outcomes. 227(Icamr 2018), 219–221. https://doi.org/10.2991/icamr-18.2019.54
- Musyaffi, A. M. (2020). Perspektif Kritis Kesuksesan Implementasi Cloud Accounting Bagi Calon Akuntan: Kajian Model UTAUT & IS Succes Model. *Substansi: Sumber Artikel Akuntansi Auditing Dan Keuangan Vokasi*, 4(1), 17–38. https://doi.org/10.35837/subs.v4i1.810
- Oktaviastuti, B., Nurmalasari, R., & Wena, M. (2019). Prosiding Peran Vocational Attitude dan Technical Skill Bagi Siswa SMK Prosiding. November, 260–266.
- Okwuduba, E. N., Nwosu, K. C., Okigbo, E. C., Samuel, N. N., & Achugbu, C. (2021). Impact of intrapersonal and interpersonal emotional intelligence and self-directed learning on academic performance among pre-university science students. *Heliyon*, 7(3), e06611. https://doi.org/10.1016/j.heliyon.2021.e06611
- OZ, E. (2021). The Effect Self-Regulated Learning on Students' Academic Achievement: A Meta-Analysis. *International Online Journal of Educational Sciences*, *13*(5), 1409–1429. http://10.0.59.241/iojes.2021.05.008%0Ahttps://libproxy.albany.edu/login?url=https://searc h.ebscohost.com/login.aspx?direct=true&db=eue&AN=153946948&site=ehost-live
- Risan, R. (2017). Pengaruh Motivasi Belajar dan Kecerdasan Interpersonal Terhadap Prestasi Belajar IPS SMP Negeri di Kecamatan Cilandak Jakarta Selatan. *Hikmah: Journal of Islamic Studies*, *13*(1), 161. https://doi.org/10.47466/hikmah.v13i1.86
- Rosyadi, A., Warneri, & Okianna. (2018). Kesulitan Belajar Myob Accounting Pada Siswa. *Jurnal Pendidikan Dan Pembelajaran Khatulistiwa*, 1–9.
- Saputra, W. N. E., Handaka, I. B., & Sari, D. K. (2019). Self-Regulated Learning Siswa SMK Muhammadiyah di Kota Yogyakarta: Kedua Orang Tua Berpengaruhkan? Jurnal Pendidikan (Teori Dan Praktik), 4(1), 7. https://doi.org/10.26740/jp.v4n1.p7-11
- Savitri, I. M. (2019). Montessori for Multiple Intelligences. Bentang Pustaka.
- Siyoto, S., & Sodik, M. A. (2015). DASAR METODOLOGI PENELITIAN. Literasi Media Publishing.
- Sumargo, B. (2020). TEKNIK SAMPLING. UNJ PRESS.
- Syasmita, I., Setiawan, D., & Saragi, D. (2019). The Influence of Ethno Pedagogy Approach and Interpersonal Intelligence on the Results of Civic Education Learning in Pelangi Elementary school Medan. *Budapest International Research and Critics in Linguistics and Education* (*BirLE*) Journal, 2(4), 603–615. https://doi.org/10.33258/birle.v2i4.652
- van Alten, D. C. D., Phielix, C., Janssen, J., & Kester, L. (2020). Self-regulated learning support in flipped learning videos enhances learning outcomes. *Computers and Education*, 158(July), 104000. https://doi.org/10.1016/j.compedu.2020.104000
- Walid, A., & Hadiwinarto, H. (2021). Assessment Instruments of Learning Motivation and Science Learning Outcomes of Class V Elementary School Students. *ISEJ: Indonesian Science*

Education Journal, 2(1), 17-26. https://www.siducat.org/index.php/isej/article/view/156

- Wijaya, H., Arismunandar, & Gani, H. A. (2021). *Pembelajaran Think Pair Share Berbasis Pendidikan Karakter*. Sekolah Tinggi Theologia Jaffray.
- Zhoc, K. C. H., Chung, T. S. H., & King, R. B. (2018). Emotional intelligence (EI) and selfdirected learning: Examining their relation and contribution to better student learning outcomes in higher education. *British Educational Research Journal*, 44(6), 982–1004. https://doi.org/10.1002/berj.3472
- Zimmerman, B. J. (1989). A Social Cognitive View of Self-Regulated Academic Learning. Journal of Educational Psychology, 81(3), 329–339. https://doi.org/10.1037/0022-0663.81.3.329
- Zimmerman, B. J. (1990). Self-Regulated Learning and Academic Achievement: An Overview. *Educational Psychologist*, 25(1), 3–17. https://doi.org/10.1207/s15326985ep2501\_2