

Design and Testing of Teacher Professional Development Models Focusing on the Optimization of Teachers' Teaching Ability in the Era of Asean Economic Communities and New Normal

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ABSTRACT

The Covid-19 pandemic, which is still ongoing, has changed the way various sectors work, including the education sector. Teachers are required to carry out online teaching which has affected the teacher's teaching competencies that must be possessed. The ability to teach teachers in various conditions must continue to be developed so that student outcomes also continue to increase. This study aims to examine the model of teacher professional development that focuses on optimizing teacher teaching skills in the era of the ASEAN Economic Community and the new normal. Teachers, school principals, and school supervisors in Malang City, Indonesia, and students at the Universitas Negeri Malang became respondents in this study. The research procedure used is the development steps proposed by Baker and Schutz (1971). Data were collected by open and closed questionnaires. The results conclude that the teacher development model developed is effective in order to improve the teaching ability of teachers. Our findings are discussed in the context of teacher professional development to improve teacher teaching skills.

Keywords: coaching model, teacher teaching ability, ASEAN Economic Community, new normal.

1. INTRODUCTION

Teacher professional development is an activity that can make a positive contribution to the professionalism of teachers, especially related to their ability in learning. The teaching ability of teachers, based on many research results, has been shown to affect student learning outcomes. Rubio [1] categorized teachers' teaching abilities into two: professional abilities and personal abilities. Imron [2] found that there was a significant causal relationship between learning supervision, teacher attitudes towards competency-based curriculum, teacher involvement in subject teacher consultations, and teacher's ability to manage classes, with student learning motivation. The research recommends the need for a strong conceptual building on teacher professional development that can optimize teacher commitment and teaching abilities.

Meanwhile, the teaching ability of teachers, by Glickman [3], [4], begins with a prerequisite ability called the level of abstraction. The abstract level of the teacher is very important in carrying out the duties of the teacher. Glickman [3], [4], his study found that teachers with high levels of cognitive development tend to think more abstractly, imaginatively, creatively, and democratically. They will be more flexible in carrying out tasks [5]–[9]. Such a teacher rarely has distractions. He even has a good relationship with his students and colleagues. Glassbers [3], the results of his study concluded that teachers with high levels of abstraction have appropriate power and relatively flexible teaching styles [10]–[12].

Such teachers are generally more outgoing and able to use a variety of learning models. They are also more effective in overcoming their difficulties. Glickman [3],

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[13], through his research concluded that teachers with a high level of abstraction can see various possibilities and are able to use various ways to find alternative teaching models. They are generally more consistent and effective in dealing with their students [14]–[19]. They can see things from many different perspectives. On the other hand, the teacher has a low level of abstraction. He was only able to find one alternative in dealing with his students. They are confused when they face problems in class. They don't know much about what to do. Therefore, he always asks for directions.

The teacher's teaching ability is actually a reflection of the teacher's mastery of his competence [9], [20]–[24]. Joni [25] suggests ten basic competencies that must be mastered by teachers: (1) mastering the material; (2) mastering the educational foundation; (3) develop teaching programs; (4) implement teaching programs; (5) assessing learning processes and outcomes; (6) organize guidance and counseling programs; (7) organize school administration; (8) develop personality; (9) interact with peers and the community; and (10) conducting simple research for teaching purposes. Teachers' teaching abilities must be continuously improved. Only in this way, teachers are ready to compete, collaborate and network in the ASEAN Economic Community (AEC) era and the new normal. One of the strategic alternatives to improve the teaching ability of teachers is by professional development that focuses on the ability to teach teachers on an ongoing basis [26]-[31]. Our study aims to examine a model of teacher professional development that focuses on optimizing teacher teaching skills in the era of the ASEAN Economic Community and the new normal.

2. METHOD

We designed this study with a research development approach. The research development procedure we use is based on the steps proposed by Baker and Schutz [32]: (1) formulating goals, identification of development rationale; (2) specification stage, determination of instructional objectives in specific and operational details; (3) the pilot phase, beginning with the preparation of a test instrument aimed at revealing the validity and reliability of the minimum response level that has been determined in the previous step (specification phase); (4) the product development stage, a flexible product development strategy to accommodate various positive suggestions and allow them to be completed in a short time; (5) product trial phase, addressed to respondents; (6) the product revision stage, improvements to the sample program are carried out on the basis of data obtained from trials and experience gained; and (7) the analysis phase for utilization, concluding a systematic and comprehensive product development system.

The research participants were teachers, principals, and school supervisors in Malang City, Indonesia, and students (bachelor, master, and doctoral) at the Universitas Negeri Malang. Data were collected by means of closed and open questionnaires about the teacher's professional coaching model. Therefore, the qualitative data collected from the open questionnaire were analyzed using the content analysis technique proposed by Mayring [33]. Meanwhile, quantitative data collected from closed questionnaires were analyzed using descriptive statistics (percentages) [34]–[37].

3. RESULT

3.1 Conceptual Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in AEC and New Normal Era

Based on the results of literature and theory studies, discussions with colleagues and master and doctoral students from the Department of Educational Management, a conceptual model design for teacher professional development for optimizing teacher teaching abilities in the era of AEC and new normal is proposed, as presented in Figure 1.

3.2 Expert Judgment Model for Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era.

Based on the results of the review and suggestions from experts in learning supervision and teacher professional development, the conceptual model on teacher professional development for optimizing teacher teaching abilities in the AEC and new normal eras, there are many improvements to the conceptual model designed by researchers. The improvements made by the expert were: (1) the ability to plan learning in the AEC and new normal eras; (2) the ability to compose a syllabus with the integration of AEC material; (3) the ability to develop lesson plans with the integration of AEC materials; (4) the ability to plan the use of learning methods in the new normal era; (5) the ability to develop assessment tools according to the new normal era; (6) the ability to carry out learning according to the new normal era; (7) the ability to deliver learning materials according to the new normal era; (8) the ability to use learning methods and media according to the new normal era; (9) the ability to conduct learning interactions with students according to the new normal era; and (10) the ability to serve students individually, in groups and classically according to the new normal era. The complete refinement of the conceptual model designed by the researcher by the expert becomes an expert judgment model, as illustrated in Figure 2.



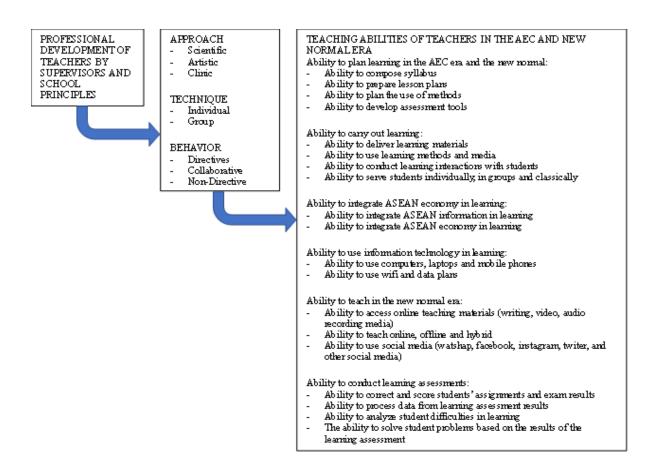


Figure.1. Conceptual Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era

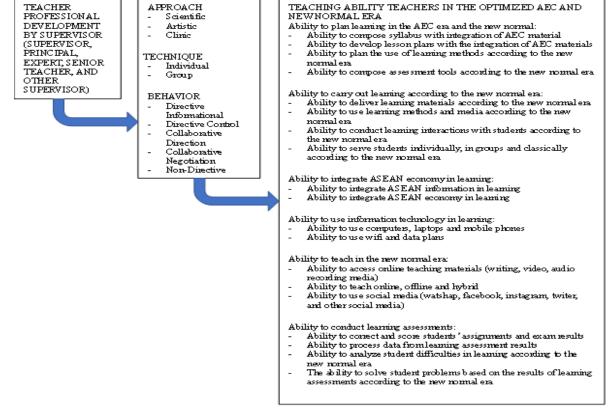


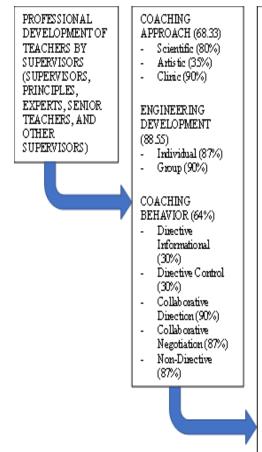
Figure.2. Expert Judgment Model for Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era



3.3 Empirical Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era

After producing an expert model on teacher professional development for optimizing teacher teaching skills in the AEC and new normal eras, an empirical test was conducted in the field. Empirical test targeting school supervisors; principal; teacher;

undergraduate students participating in Education Supervision and Learning Supervision courses; master students participating in the Education Supervision Matriculation course, and doctoral students who have taken the Education and Learning Supervision course. After the empirical test, respondents' answers to the instrument, the results of the percentage calculation are presented in Figure 3.



TEACHING ABILITY TEACHERS IN THE OPTIMIZED AEC AND NEW NORMAL ERA

Ability to plan learning in the AEC and new normal era (85%):

- Ability to compose syllabus with integration of AEC material (87%)
- Ability to prepare lesson plans with the integration of AEC materials (85%)
- Ability to plan the use of learning methods according to the new normal era (88%)
- Ability to compose assessment tools according to the new normal era (80%)

Ability to carry out learning according to the new normal era (83%):

- Ability to deliver learning materials according to the new normal era (80%)
- Ability to use learning methods and media according to the new normal era (82%)
- Ability to conduct learning interactions with students according to the new normal era (86%)
- Ability to serve students individually, in groups and classically according to the new normal era (84%)

Ability to integrate ASEAN economy in learning (87%):

- Ability to integrate ASEAN information in Learning (88%)
- Ab ility to integrate ASEAN economy in learning (86%)

Ability to use information technology in learning (90%):

- Ability to use computers, laptops and mobile phones (90%)
- Ability to use wifi and data plans (90%)

Ability to teach in the new normal era (90%):

- Ability to access teaching materials online (writing, video, audio recording media) (89%)
- Ability to teach online, offline and hybrid (91%)
- Ability to use social media (watshap, facebook, instagram, twiter, and other social media) (90%)

Ability to conduct learning assessment (85%):

- Ability to correct and score students' assignments and exam results (85%)
- Ability to process data from learning assessment results (86%)
- Ability to analyze student difficulties in learning according to the new normal era (85%)
- The ability to solve student problems based on the results of learning assessments according to the new normal era (84%)

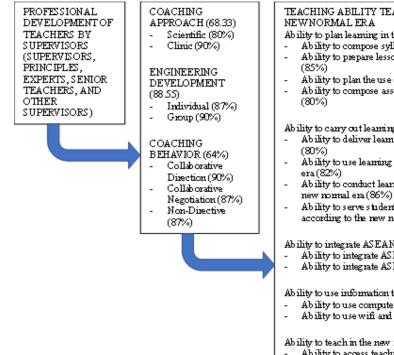
Figure.3. Empirical Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era

3.4 Recommended Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era After producing an empirical model on teacher professional development to optimize teacher teaching abilities in the AEC and new normal eras, an analysis was carried out which elements of the model were feasible to be maintained and used as elements of the recommended model. If the average value of the percentage value is



above 50%, then these elements are maintained or used as elements of the recommendation model. On the other hand, if it is less or equal to 50%, it will be rejected as a recommendation model. Based on the observation of the empirical model, several things that are reduced from the elements of the model are: (1) artistic development approach (35%); (2) an integrative coaching approach (30%); (3) directive informational coaching behavior (30%); and (4) directive control coaching behavior (30%).

Meanwhile, for the teaching ability of teachers in the AEC era and the new normal, there was absolutely no revision, because all of them were found to be in the percentage above 50%. In other words, all elements of the teacher's teaching ability model in the new normal era are maintained as elements of the recommendation model. After an in-depth analysis, the recommended of teacher professional development for optimizing teacher teaching abilities in the AEC and new normal eras is illustrated in Figure 4.



TEACHING ABILITY TEACHERS IN THE OPTIMIZED AEC AND

Ability to plan learning in the AEC and new normal era (85%):

- Ability to compose syllabus with integration of AEC material (87%)
- Ability to prepare lesson plans with the integration of AEC materials
- Ability to plan the use of learning methods in the new normal era (88%)
- Ability to compose assessment tools according to the new normal era

Ability to carry out learning according to the new normal era (83%):

- Ability to deliver learning materials according to the new normal era
- Ability to use learning methods and media according to the new normal
- Ability to conduct learning interactions with students according to the
- Ability to serve students individually, in groups and classically according to the new normal era (84%)

Ability to integrate ASEAN economy in learning (87%):

- Ability to integrate ASEAN information in learning (88%)
- Ability to integrate ASEAN economy in learning (86%)

Ability to use information technology in learning (90%):

- Ability to use computers, laptops and mobile phones (90%)
- Ability to use wifi and data plans (90%)

Ability to teach in the new normal era (90%):

- Ability to access teaching materials online (writing, video, audio recording media) (89%)
- Ability to teach online, offline and hybrid (91%)
- Ability to use social media (watshap, facebook, instagram, twiter, and other social media) (90%)

Ability to conduct learning assessment (85%):

- Ability to correct and score students' assignments and examinesults
- Ability to process data from learning assessment results (86%)
- Ability to analyze student difficulties in learning according to the new normal era (85%)
- The ability to solve student problems based on the results of learning assessments according to the new normal era (84%)

Figure.4. The Recommended Model of Teacher Professional Development for Optimizing Teacher Teaching Ability in the AEC and New Normal Era

3.5 Results of Comparative Constant Analysis between Conceptual Models, Expert Judgment Models, Empirical Models and Recommended Models on Professional Development of Teachers' Teaching Ability in the AEC and New Normal Era

Based on the observation and analysis of conceptual models, expert judgment models, empirical models and recommended models of professional development of

teachers' teaching ability in the AEC and New Normal Era, it was found that there are aspects that are the same and there are different aspects of the four models. the. These differences can be stated as follows: (1) there are those that are narrowed to the addition of the substantive aspects of the model; (2) there are those who are converging on the editorial refinement of the substantive aspects of the model; and (3) there is a reduction in the substantive aspect of the model. The results of the comparative constant analysis can be presented as in Table 1.



Table.1 Results of Comparative Constant Analysis between Conceptual Models, Expert Judgment Model Empirical Models and Recommended Models on Professional Development of Teachers' Teaching Ability in the AEC and New Normal Era

No	Conceptual model	Expert judgement model	Empirical model	Rocommended model
1	Professional	Teacher professional	Teacher professional	Teacher professional
	development of	development by	development by supervisors	development by
	teachers by	supervisors (supervisors,	(supervisors, principals,	supervisors (supervisors,
	supervisors and	principals, experts,	experts, senior teachers, and	principals, experts, senior
	principals	senior teachers, and	other supervisors) (95%)	teachers, and other
		other supervisors)		supervisors) (95%)
2	APPROACH	APPROACH	COACHING APPROACH	APPROACH
	- Scientific	- Scientific	(68.33)	- Scientific (87%)
	- Artistic	- Artistic	- Scientific (80%)	- Clinic (90%)
	- Clinic	- Clinic	- Artistic (35%)	
		- integrative	- Clinic (90%)	
3	TECHNIQUE	TECHNIQUE	ENGINEERING	TECHNIQUE
	- Individual	- Individual	DEVELOPMENT (88.55)	- Individual (90%)
	- Group	- Group	- Individual (87%)	- Group (87%)
			- Group (90%)	
4	BEHAVIOR	BEHAVIOR	COACHING BEHAVIOR	BEHAVIOR
	- Directives	- Directive	(64%)	- Collaborative Direction
	- Collaborative	Informational	- Directive Informational	(90%)
	- Non-Directive	- Directive Control	(30%)	- Collaborative
		- Collaborative	- Directive Control (30%)	Negotiation (87%)
		Direction	- Collaborative Direction	- Non-Directive (87%)
		- Collaborative	(90%)	
		Negotiation	- Collaborative	
		- Non-Directive	Negotiation (87%)	
			- Non-Directive (87%)	

3.6 Results of Comparative Constant Analysis between the Substance of Conceptual Models, Expert Judgment Models, Empirical Models and Recommended Models of Teachers' Teaching Ability in the AEC Era and New Normal

After conducting a series of comparative constant analyzes, it was found that there are differences between

the conceptual model and the expert judgment model regarding the teaching ability of teachers in the AEC and new normal eras. Meanwhile, there is no difference between the expert judgment model with the empirical model and the recommended model. Therefore, Table 2 presents the differences between conceptual models, expert judgment models, empirical models and recommended models.



Table.2 Results of Comparative Constant Analysis between the Substance of Conceptual Models, Expert Judgment Models, Empirical Models and Recommended Models of Teacher Teaching Ability in the AEC and New Normal Era

The Substance of Conceptual Models and Expert Judgment of	Empirical Model Substance and Recommended Teacher Teaching	
Teachers' Teaching Ability in the AEC and New Normal Era	Ability in the AEC and New Normal Era	
Ability to plan learning in the AEC era and the new normal: 1. Ability to compose syllabus with integration of AEC material 2. Ability to develop lesson plans with the integration of AEC	Ability to plan learning in the AEC and new normal era (85%): 1. Ability to compose syllabus with integration of AEC material (87%)	
materials 3. Ability to plan the use of learning methods in the new normal era	2. Ability to prepare lesson plans with the integration of AEC materials (85%)3. Ability to plan the use of learning methods in the new normal	
Ability to compose assessment tools according to the new normal era	era (88%) 4. Ability to compose assessment tools according to the new normal era (80%)	
Ability to carry out learning according to the new normal era:	Ability to carry out learning according to the new normal era (83%):	
Ability to deliver learning materials according to the new normal era	Ability to deliver learning materials according to the new normal era (80%)	
Ability to use learning methods and media according to the new normal era	Ability to use learning methods and media according to the new normal era (82%)	
Ability to conduct learning interactions with students according to the new normal era	3. Ability to conduct learning interactions with students according to the new normal era (86%)	
4. Ability to serve students individually, in groups and classically according to the new normal era	4. Ability to serve students individually, in groups and classically according to the new normal era (84%)	
5. Ability to integrate ASEAN economy in learning	5. Ability to integrate ASEAN economy in learning (87%)	
6. Ability to integrate ASEAN information in learning	6. Ability to integrate ASEAN information in learning (88%)	
7. Ability to integrate ASEAN economy in learning	7. Ability to integrate ASEAN economy in learning (86%)	
Ability to use information technology in learning:	Ability to use information technology in learning (90%):	
1. Ability to use computers, laptops and mobile phones	1. Ability to use computers, laptops and mobile phones (90%)	
2. Ability to use wifi and data plans	2. Ability to use wifi and data plans (90%)	
Ability to teach in the new normal era:	Ability to teach in the new normal era (90%):	
Ability to access online teaching materials (writing, video, audio recording media)	Ability to access teaching materials online (writing, video, audio recording media) (89%)	
2. Ability to teach online, offline and hybrid	2. Ability to teach online, offline and hybrid (91%)	
Ability to use social media (watshap, facebook, instagram, twiter, and other social media)	Ability to use social media (watshap, facebook, instagram, twiter, and other social media) (90%)	
Ability to conduct learning assessments:	Ability to conduct learning assessment (85%):	
Ability to correct and score students' assignments and exam results	Ability to correct and score students' assignments and exam results (85%)	
2. Ability to process data from learning assessment results	2. Ability to process data from learning assessment results (86%)	
3. Ability to analyze student difficulties in learning according to the	3. Ability to analyze student difficulties in learning according to the	
new normal era	new normal era (85%)	
4. The ability to solve student problems based on the results of	4. The ability to solve student problems based on the results of	
learning assessments according to the new normal era	learning assessments according to the new normal era (84%)	

4. DISCUSSION

The ability to teach is an essential ability that must be possessed by a teacher, because the main task of the teacher is to teach. The thing faced by teachers is dynamic students, both as a result of internal dynamics that come from students and as a result of environmental

dynamics that more or less affect students [38]–[44]. Therefore, the teaching ability of teachers must be dynamic as well, as a result of the inevitable demands of student dynamics [45]–[48]. Imron [25] discusses various models of teacher professional development: (1) directive models; (2) collaborative models; and (3) non-directive models. The model was originally developed by



Glickman [3]. In recent developments, the model has changed into four: (1) directive informational model; (2) directive control models; (3) collaborative models; and (4) non-directive models. Although, both the teacher professional development models in 1981 and 1996 both categorize the collaborative model with: collaborative with direction and collaborative with negotiation [3], [13].

Supervisors in providing professional guidance to teachers are recommended to use the directive model, when faced with teachers who drop out (low level of commitment and level of abstraction). If the teacher works unfocused (unfocused woker), i.e. high level of commitment and low level of abstraction, it is recommended to use a collaborative model combined with direction. Facing a teacher whose analytical observer is a high level of abstraction but low level of commitment, it is recommended to use a collaborative model with an emphasis on negotiation. Professional teachers, who have a high level of commitment and high level of abstraction, are recommended to use a non-directive model.

In order to provide professional coaching to the right teachers, Dreyfus and Rabinow [49] recommend the need to rely on the level of teacher maturity and ability development. First, the novice level is when the teacher feels that practical personal experience is more valuable than information given verbally. Teachers at this level are taught the meaning of certain terms and concepts, school rules, and the goals and characteristics of situations [50]— [55]. Second, the late advanced level is when the teacher has gained some experience, ranging from influencing behavior in a meaningful way. At this level, teachers do not feel a sense of independence/autonomy regarding their work. Teachers still don't feel fully responsible for their actions. Third, Competent level is when the teacher has moved on and has had enough experience and motivation to succeed. Fourth, the proficient level is when the teacher begins to recognize formulas and equations in a comprehensive way. Fifth, the expert level is when the teacher has demonstrated the appearance and intuition of decision making. They present in a qualitatively different way to other teachers [56]–[60].

Research by Garet et al. [61] showed that learning supervision should focus on subject matter content, provide opportunities for teachers to play an active role in learning, integrate with everyday school life, and produce more knowledge and skills. This study also suggests the importance of collective participation and coherence of activities in the supervision of learning, guiding professional communication activities among teachers to support changing ways of making the learning process more effective. Green and Allen's [62] found that the quality of teacher professional development (learning supervision) designed with professional learning

elements contributed to higher student achievement [39], [63]–[67].

5. CONCLUSION

Our study found that the teacher coaching model developed was effective in order to improve the teaching ability of teachers. Teacher training is an important factor in school organization. It is undeniable that teachers are the spearhead of schools in providing instructional services to students. Principals as educational leaders in schools have the responsibility to provide professional coaching services to teachers so that teacher professionalism continues to develop in a sustainable manner, and is able to respond to the challenges of various changes in society.

REFERENCES

- [1] C. M. Rubio, "Efective teachers-profesional and personal skills," *Rev. la Fac. Educ. Albacete*, vol. 24, pp. 35–46, 2009.
- [2] A. Imron, "Model hubungan kausal antara supervisi pembelajaran, sikap guru terhadap KBK, keterlibatan dalam MGMP, kemampuan mengelola kelas, dan motivasi belajar siswa," Malang, 2006.
- [3] C. D. Glickman, Developmental supervision: Alternative practices for helping teachers improve instruction. New York, 1981.
- [4] C. D. Glickman, S. P. Gordon, and J. M. Ross-Gordon, Supervision and instructional leadership: A developmental approach. New York: Pearson, 2009.
- [5] A. Nurabadi *et al.*, "Measuring the effectiveness of using the principal's induction program website," in 2021 7th International Conference on Education and Technology (ICET), Sep. 2021, pp. 90–94.
- [6] A. Imron *et al.*, "Improving teachers' teaching abilities in the era of the ASEAN Economic Community by the teacher's professional coaching," in *Community Empowerment through Research, Innovation and Open Access*, 2021, pp. 18–21.
- [7] I. Gunawan *et al.*, "The effectiveness of using SIPEJAR to improve the quality of learning with the information technology-based interactive skill station method," in 2021 7th International Conference on Education and Technology (ICET), Sep. 2021, pp. 81–89.



- [8] A. Nurabadi, I. Bafadal, A. Y. Sobri, and I. Gunawan, "Pemberdayaan pendidik pada Sekolah Laboratorium Universitas Negeri Malang untuk menulis karya ilmiah berbasis PTK," Abdimas Pedagog. J. Ilm. Pengabdi. Kpd. Masy., vol. 4, no. 1, pp. 1–8, 2021.
- [9] I. Gunawan, Pengembangan model pembelajaran kooperatif berbasis lesson study di perguruan tinggi (upaya meningkatkan keaktifan dan hasil belajar peserta didik). Malang: Universitas Negeri Malang, Penerbit UM Press, 2018.
- [10] I. Gunawan, "Analisis dampak supervisi pendidikan terhadap perkembangan masyarakat dan ilmu pengetahuan dan teknologi," in Prosiding Seminar Nasional Pendidikan Revitalisasi Manajemen Pendidikan Nasional Menuju Perbaikan Mental, 2014, pp. 249–269.
- [11] I. Gunawan, "Penerapan manajemen pembelajaran berbasis lesson study dan dampaknya terhadap keaktifan mahasiswa dalam perkuliahan," *J. Pendidik. dan Pembelajaran*, vol. 24, no. 1, pp. 126–138, 2017.
- [12] D. E. Kusumaningrum, R. B. Sumarsono, and I. Gunawan, "Principal empowerment through soft system methodology approach," in *Proceeding International Conferences on Education and Training*, 2nd ICET 2016, 2016, pp. 205–211.
- [13] C. D. Glickman, Supervision as instructional leadership. New York: ASCD, 1996.
- [14] N. W. N. Setya *et al.*, "Development of student leadership variables instruments: Validity and reliability analysis," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 541–545.
- [15] S. Taftania *et al.*, "Implementation of total quality management through the leadership of schools in efforts to improve teacher creativity: A conceptual paper," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 501–505.
- [16] N. O. Yulindasari et al., "Principal's visionary leadership in the framework of school change process," in Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020), 2020, pp. 477–483.
- [17] A. Prastiawan *et al.*, "School leadership skills in educational institutions," in *Proceedings of the*

- 6th International Conference on Education and Technology (ICET 2020), 2020, pp. 438–441.
- [18] I. Gunawan, "Pendidikan anak usia dini: Teori dan aplikasinya," in Seminar Nasional Revitalisasi Manajemen Pendidikan Anak Usia Dini (PAUD) di Era Revolusi Industri 4.0, 2019, pp. 116–120.
- [19] D. E. Kusumaningrum, R. B. Sumarsono, and I. Gunawan, Model pemberdayaan sumber daya manusia sekolah berbasis pesantren dengan pendekatan soft system methodology: Teori, pengukuran, dan pengembangannya. Malang: Universitas Negeri Malang, Penerbit UM Press, 2019.
- [20] E. M. Budiarti, I. Gunawan, and B. A. Pambudi, "The effect of spiritual leadership and academic supervision on teacher performance," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 157–161.
- [21] D. E. Kusumaningrum, R. B. Sumarsono, and I. Gunawan, "Pendampingan penulisan karya ilmiah melalui pendekatan clinical coaching bagi guru madrasah inklusi," *Abdimas Pedagog. J. Ilm. Pengabdi. Kpd. Masy.*, vol. 3, no. 1, pp. 23–31, 2020.
- [22] S. O. Ningsih, I. Gunawan, and Sultoni, "Relationship of self-efficiency and school climate with teacher work motivation," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 342–345.
- [23] W. Zulkarnain, A. Nurabadi, and I. Gunawan, Model prob-ject based learning matakuliah komputer aplikasi manajemen pendidikan. Malang: Universitas Negeri Malang, Penerbit UM Press, 2020.
- [24] Kusmintardjo and I. Gunawan, *Manajemen layanan khusus*. Malang: Universitas Negeri Malang, Penerbit UM Press, 2017.
- [25] A. Imron, Supervisi pembelajaran tingkat satuan pendidikan. Jakarta: Bumi Aksara, 2012.
- [26] I. Gunawan, I. Bafadal, A. Nurabadi, and Juharyanto, "School leadership strategy in excellent schools," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 210–215.
- [27] I. Bafadal, I. Gunawan, A. Nurabadi, and Juharyanto, "School performance development:



- Measurement of variables affected by the moral debate program," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 201–205.
- [28] I. Bafadal, I. Gunawan, A. Nurabadi, and Juharyanto, "Leadership in excellent school: A qualitative study," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 63–66.
- [29] Siska, S. K. Rofiah, I. Gunawan, and A. D. Wardani, "What multimedia can teachers use in learning?," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 691–695.
- [30] A. Y. Sobri and I. Gunawan, *Pengantar manajemen pendidikan*. Malang: Universitas Negeri Malang, Penerbit UM Press, 2020.
- [31] Hardika, E. N. Aisyah, and I. Gunawan, Transformasi belajar generasi milenial. Malang: Universitas Negeri Malang, Penerbit UM Press, 2018.
- [32] R. L. Baker and R. E. Schutz, *Instructional product development*. New York: Van Nostrand Reinhold Co, 1971.
- [33] P. Mayring, Qualitative content analysis: Theoretical foundation, basic procedures and software solution. Klagenfurt: Gesis, 2014.
- [34] I. Gunawan, *Introduction to inferential statistics*. Jakarta: Rajawali Pers, 2016.
- [35] I. Gunawan, Statistika untuk kependidikan sekolah dasar. Yogyakarta: Penerbit Ombak Yogyakarta, 2013.
- [36] S. Hadi, I. Gunawan, and J. Dalle, *Statistika inferensial: Teori dan aplikasinya*. Jakarta: Rajawali Pers, 2018.
- [37] I. Gunawan, *Pengantar penelitian kuantitatif*. Malang: Universitas Negeri Malang, Penerbit UM Press, 2019.
- [38] I. Gunawan, "Peningkatan aktualisasi dan mutu proses pembelajaran dengan interactive skill station berbasis teknologi informasi," 2010. http://masimamgun.blogspot.com/2010/02/penin gkatan-aktualisasi-dan-mutu-proses.html.
- [39] A. Prastiawan *et al.*, "Office management of educational institutions: Theories and applications," in *Proceedings of the 5th*

- International Conference on Education and Technology (ICET 2019), 2019, pp. 758–762.
- [40] D. D. N. Benty *et al.*, "Validitas dan reliabelitas angket gaya kepemimpinan mahasiswa," *JAMP J. Adminitrasi dan Manaj. Pendidik.*, vol. 3, no. 3, pp. 262–271, 2020.
- [41] N. N. Sukawati, I. Gunawan, A. G. Prayoga, and A. D. Wardani, "Teacher personality, interpersonal relationships, performance, and professionalism in the learning process: A qualitative study," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 250–254.
- [42] D. N. Sari, I. Gunawan, and A. Imron, "Relationship between managerial skills and morale with teacher performance: A regression analysis," in *Proceedings of the 6th International Conference on Education and Technology (ICET* 2020), 2020, pp. 125–129.
- [43] D. E. Kusumaningrum, R. B. Sumarsono, and I. Gunawan, "Pemberdayaan tenaga administrasi sekolah menengah pertama berbasis pesantren," in *Prosiding Seminar Nasional Pendidikan: Sinergitas Keluarga, Sekolah, dan Masyarakat dalam Penguatan Pendidikan Karakter*, 2017, pp. 127–138.
- [44] I. Gunawan, L. K. Hui, M. A. Ma'sum, and N. N. Sukawati, "Enhancing learning effectiveness by using online learning management system," in *Proceedings 2020 6th International Conference on Education and Technology, ICET 2020*, Oct. 2020, pp. 48–52.
- [45] A. Nurabadi, Sucipto, and I. Gunawan, "Informal supervision model 'Managing by Walking About' in improving quality of learning," in *Proceedings of the 5th International Conference on Education and Technology (ICET 2019)*, Dec. 2019, pp. 10–12.
- [46] I. Gunawan et al., "Measurement of vocational high school teachers professionalism," in Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020), 2020, pp. 67–72.
- [47] A. N. Faizah, I. Gunawan, I. Bafadal, and A. Timan, "The relationship between learning leadership and teacher performance: A correlation analysis," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 599–602.



- [48] R. B. Sumarsono, T. Triwiyanto, D. E. Kusumaningrum, and I. Gunawan, "Opportunities for the implementation of schoolbased management in the eastern area of Indonesia," *Int. J. Innov. Creat. Chang.*, vol. 5, no. 4, pp. 180–196, 2019.
- [49] H. Dreyfus and P. Rabinow, "What is maturity? Foucault and Habermas on "what is enlightenment"?," in *Foucault: A critical reader*, M. Foucault and D. C. Hoy, Eds. Oxford: Blackwell, 1986, pp. 109–130.
- [50] C. M. Shanti, I. Gunawan, and A. Y. Sobri, "Relationship of school visionary leadership and organizational climate with teacher performance," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 624–629.
- [51] I. Gunawan, N. Ulfatin, Sultoni, A. Sunandar, D. E. Kusumaningrum, and T. Triwiyanto, "Pendampingan penerapan strategi pembelajaran inovatif dalam implementasi Kurikulum 2013," ABDIMAS Pedagog. J. Ilm. Pengabdi. Kpd. Masy., vol. 1, no. 1, pp. 37–47, 2017.
- [52] F. D. Pratiwi *et al.*, "Principal's role in thematic learning supervision that works in elementary school," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 176–181.
- [53] B. A. Pambudi and I. Gunawan, "The effect of learning leadership and academic supervision on teacher teaching skills in the covid-19 pandemic," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 1–5.
- [54] E. Ubaidillah, I. Gunawan, M. A. Adha, N. S. Ariyanti, and Y. Erviana, "Students perception of technology-assisted services and readiness of employee digital competencies in covid-19 pandemic era," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 151–156.
- [55] A. Nurabadi, Sucipto, I. Gunawan, and Y. L. Sari, "The application of informal supervision to improve the quality of learning in laboratory schools," in *Proceedings of the 4th International Conference on Education and Management (COEMA 2019)*, Jan. 2019, pp. 78–81.
- [56] A. K. Pertiwi, S. S. A. Cahyani, R. C. Diana, and I. Gunawan, "Kepemimpinan berbasis nilai dan etika: Suatu kajian interaksi simbolik kyai dan

- santri," in *Prosiding Seminar Nasional Pendidikan: Sinergitas Keluarga, Sekolah, dan Masyarakat dalam Penguatan Pendidikan Karakter*, 2017, pp. 1–9.
- [57] A. K. Pertiwi, S. S. A. Cahyani, R. C. Diana, and I. Gunawan, "Analisis interaksi simbolik kyai dan santri dalam perspektif kepemimpinan berbasis nilai dan etika," *JMSP (Jurnal Manaj. dan Supervisi Pendidikan)*, vol. 2, no. 3, pp. 185–191, Jul. 2018.
- [58] R. B. Sumarsono *et al.*, "Training on the implementation of cooperative learning models as an effort to improve teacher's performance," in *Proceedings of the 4th International Conference on Education and Management (COEMA 2019)*, Jan. 2019, pp. 259–263.
- [59] D. E. Kusumaningrum, T. Triwiyanto, and I. Gunawan, "Educational management of natural disaster response at Lapindo Mudsidoarjo East Java," *J. Basic Appl. Sci. Res.*, vol. 6, no. 4, pp. 1–8, 2016.
- [60] I. Bafadal, A. Y. Sobri, A. Nurabadi, and I. Gunawan, "Standards of competency of head of school beginners as leaders in learning innovation," in 5th International Conference on Education and Technology (ICET 2019), 2019, pp. 13–18.
- [61] M. S. Garet, A. C. Porter, L. Desimone, B. F. Birman, and K. S. Yoon, "What makes professional development effective? Results from a national sample of teachers," *Am. Educ. Res. J.*, vol. 38, no. 4, pp. 915–945, 2001.
- [62] T. R. Green and M. Allen, "Professional development urban schools: What do teachers say?," *J. Inq. Action Educ.*, vol. 6, no. 2, p. 2015, 2015.
- [63] A. D. Wardani *et al.*, "How teachers optimize the role of classroom administration in learning?," in *Proceedings of the 6th International Conference on Education and Technology (ICET 2020)*, 2020, pp. 422–426.
- [64] A. D. Wardani et al., "Subject teacher deliberation: Role and functions in school management," in Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020), 2020, pp. 720–724.
- [65] B. A. Pambudi and I. Gunawan, "The effect of learning leadership, academic supervision, and teacher skills on teacher performance



- effectiveness," in *Proceedings of the 1 st International Conference on Information Technology and Education (ICITE 2020)*, 2020, pp. 1–4.
- [66] D. E. Kusumaningrum, I. Arifin, and I. Gunawan, "Pendampingan pengembangan perangkat pembelajaran berbasis Kurikulum
- 2013," *ABDIMAS Pedagog. J. Ilm. Pengabdi. Kpd. Masy.*, vol. 1, no. 1, pp. 16–21, 2017.
- [67] I. Bafadal, A. Nurabadi, and I. Gunawan, Pembinaan kepala sekolah pemula sebagai pemimpin pembelajaran: Teori, pengukuran, dan pengembangannya. Malang: Universitas Negeri Malang, Penerbit UM Press, 2021.