Aspects Affecting Learning Management Policy Acceptance for Teachers in Vocational Higher Schools: A Structural Equation Modelling Approach

by Prabu Mandela

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Aspects Affecting Learning Management Policy Acceptance for Teachers in Vocational Higher Schools: A Structural Equation Modelling Approach

Sri Handayani

Department of Civil Engineering,
Faculty of Engineering,
Universitas Negeri Semarang,
Semarang, 50229, Indonesia
Email: handayani@mail.unnes.ac.id
*Corresponding author

Virgiawan Adi Kristianto

Department of Civil Engineering, Faculty of Engineering, Universitas Negeri Semarang, Semarang, 50229, Indonesia

Email: virgiawanadikristianto@mail.unnes.ac.id

Rizky Ajie Aprilianto

Department of Electrical Engineering, Faculty of Engineering, Universitas Negeri Semarang, Semarang, 50229, Indonesia Email: rizkyajiea@mail.unnes.ac.id

Harianingsih Harianingsih

Department of Chemical Engineering, Faculty of Engineering, Universitas Negeri Semarang, Semarang, 50229, Indonesia 22 Email: harianingsih@mail.unnes.ac.id

Abstract: The background of this research relates to the performance of teachers in engineering and technology vocational schools. About the main tasks carried out by a teacher, it is certainly not an exaggeration to say that the level of competence of a teacher determines the barometer of the quality of Indonesian vocational education. This study identifies and 6 alyses the factors influencing vocational education, especially in engineering and technology. This study examines the factors that influence the management of learning by vocational schoolteachers in technology and engineering. The evaluation includes five key variables, namely work 133 vation, work ethic, teacher performance, management innovation, and learning management. The following section examines the methodology used to assess the variables and describes the sampling and data collection approach. The sampling technique used simple random sampling, and the research respondents were 30 teachers in 3 vocational schools in Semarang, Indonesia. A combination of factor analysis and regression analysis was used to analyse the data using second order PLS-SEM analysis. The measurement model entails assessing two key aspects: convergent validity and discriminant validity. The results show that work motivation is 63.9%, and work ethics is 28.2%31 positively affecting teacher performance. So, all Ha hypotheses are accepted, which shows a positive and significant influence of 2 ork motivation and work ethic on teacher performance. The subsequent predictive relevance (Q2) assessment revealed that the research model attained a Q2 score of 0.446, surpassing zero. This outcome underscores the model's high predictive relevance 15 aggregate, our exogenous variables collectively account for 69.8% of the variance observed in the context of learning management found in Vocational Higher Schools in the field of technology and engineering, and this portion of variance is indeed considerable. Schools are expected to encourage work motivation and review the learning process from planning to implementation to improve teacher performance readiness.

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Introduction

The current era of modernization and 41 globalization demands a response to the growing 42 competitiveness of various competitions (Taranov⁴³ 4 & Taranov, 2021). It is essential to equip each⁴⁴ field with top-notch human resources. Among the 45 crucial sectors requiring the utmost focus and 46 priority is formal education provided by schools⁴⁷ (Morris & Rohs, 2023). These institutions play a⁴⁸ vital role in cultivating high-calibre human⁴⁹ resources and achieving educational objectives for 50 the betterment of the nation's well-being (Drigas.⁵¹ Mitsea, & Skianis, 2023; Gimbert, Miller, 52 Herman, Breedlove, & Molina, 2023; Zebua & 53 Chakim, 2023).

The role of the teaching profession is 55 pivotal within the education process, serving as a⁵⁶ crucial endeavour to nurture the nation's 57 development and cultivate exceptional human⁵⁸ resources (Zimmerman, Greenberg, & Weinstein, 59 2023). Effective communication and interaction ⁶⁰ between teachers and students undoubtedly yield⁶¹ high-calibre educational outcomes. This success 62 not only contributes to eliminating ignorance and 63 underdevelopment but also serves as a yardstick⁶⁴ for measuring the nation's advancement (Darling-65 Hammond, 2021).

This significant responsibility necessitates a⁶⁷ teacher to exhibit professionalism. Furthermore, ⁶⁸ teachers must possess the adaptability to confront⁶⁹ the diverse array of challenges that will arise in 70 the future due to the impact of advancements in 71 science and information technology (Alam, 2022).⁷² Teachers who comprehend their roles and 73 responsibilities as teachers and mentors remain⁷⁴ driven to continually evolve and progress as 75 experts in their field (Kusumaningrum et al., 76 capacity 2018). Nevertheless, independently advance into professionals isn't⁷⁸

universal among all teachers. As a result, teachers assistance require and guidance, underscores the necessity for initiatives aimed at enhancing teacher professionalism (Philipsen et al., 2019).

Hence, there arises a necessity for a dedicated governmental or related institutional effort to foster and advance the teaching profession, coupled with the individual teacher's commitment to attaining professional excellence (Lasmanawati et al., 2021). It is needed to enhance the capabilities deemed superior in encompassing creative teachers, productivity, sound decision-making, problemsolving, adaptability in learning, collaboration, and self-management (Cidral et al., 2018). In addition, teachers must possess the ability to facilitate independent learning among their students through the execution of effective learning processes. This implies that each teacher should be equipped with proficient learning management skills.

Online learning technologies, one product of management innovation to improve the quality of the learning aspect, designed for generating, overseeing, and dispensing course materials are termed Learning Management Systems (LMSs) (Sabharwal et al., 2018; Turnbull et al., 2020). Within the prevalent digital landscape of today, LMSs assum crucial function in enriching and streamlining the teaching and learning process (Turnbull et al., 2021). These systems not only facilitate the distribution of instructions and digital resources to enhance collaborative student learning but also empower teachers to concentrate on crafting purposeful pedagogical engagements (Zimmerman et al., 2023).

Studies focusing on the utilization of the LMS have been massively adopted. Raza and colleagues conducted a study to examine how

intention toward the use of a learning 25 Many Polytechnic lecturers have academic 81 management system, considering the moderating 26 backgrounds (70%) 4. The demographic bonus is influence of fear related to the Coronavirus (Raza27 83 et al., 2021). Aldiab and collaborators conducted \$28 85 comprehensive review of various features present 29 in commercially accessible and extensivel \$\psi 30\$ 87 utilized modern LMS systems, accompanied by **1**31 comparative assessment (Aldiab et al., 2019)1.32 people's welfare. 5. Industrial revolution 4.0 89 Juhanak et al delved into the exploration of 33 which resulted in changes in the economy, jobs 90 students' interactions and behaviours in diverse34 91 forms of online quiz-based activities conducted 35 92 within an LMS (Juhaňák et al., 2019). 136

93 Functioning as a pivotal instrument that 37 94 facilitates the implementation of learning 38 management strategies, the LMS stands out as and 39 innovative notably advantageous resource for 40 teachers. It serves as a robust means through 41 which teachers can seamlessly guide the learning 42 strengthen process and cultivate interactive engagement with 43 100 their students. However, amidst these benefits, it44 is crucial to underscore that successful attainment45 101 outcomes rely on the commitment of teachers as 46 industry 102 an internal factor in observing fundamental 47 Improving the quality and quality of human 103 requisites. This commitment is paramount in 48 resources in vocational education, including 104 105 utilization of learning49 ensuring that the management tools is executed in a manner that 50 Develop curriculum, facilities and infrastructure, 107 harmonizes with the projected objectives and 51

expected results. 108 109 general, the challenges faced b\$\\$53 110 vocational higher education: 1. Link and Match 54 collaboration with industry; 5. Changing people's with industry has not occurred as a whole: al.55 mindset that vocational education is more Industry involvement in 113 implementation is still very limited. Accreditation 157 of vocational institutions does not involve58 industry; b. Unemployment of Vocational 59 115 graduates is 16.41% of total unemployment; cl60 Conceptual Development 116 Industrial interest in collaboration with vocations 117 is limited. Tax incentives (PP. 45/2019) need to Organizational leaders always hope that their 118 be supplemented with meaningful engagement 163 employees can carry out the tasks given 119 incentives. 2. Facilities and Infrastructure a 164 efficiently and by expectations. When these tasks 120 Practice support facilities are not optimal; b. do not go smoothly, it is necessary to understand

social isolation impacts students' behavioural24 not enough lecturers in vocational institutions: characterized by the number of people of productive age being greater than the number of people of non-productive age. These conditions need to be utilized optimally to improve the quality of human resources, competitiveness and and even society. Trends in automation and data exchange in manufacturing technologies, including cyber-physical systems, Internet of Things (IoT), cloud computing and cognitive computing. The government needs to respond to this through courses and training programs that can touch every corner of people's lives.

> The contribution of this research is to the revitalization of vocational education. All educational institutions required to have cooperation and partnerships with the industrial world, initially by building trust in vocational education; 2. lecturers/instructors based on industry needs; 3. learning patterns based on industry needs; 4. 152 Developing content for competency tests as well as apprenticeships and placement of graduates in vocational 56 interesting because it is applicable, one of which is by implementing polytechnics as applied universities.

Work Motivation

There is a need for additional industrial practice why. Is this problem caused by limited individual places for students in several areas. 3. There are 167 abilities in completing tasks or a lack of support 168 or encouragement from superiors to thei212 recognition, financial rewards, or other rewards 169 subordinates? Etymologically, "motivation213 170 comes from the word "motive." Gerungan (2012214 171 140) explains that "motive" is a concept that 15 includes all factors, reasons, or impulses ia 16 173 humans that encourage them to act. Karton@17 (2010: 135) defines work motivation as "not onl218 175 related to financial needs, but also involve219 176 rewards from the environment, persona220 achievement, and social status which are abstract21 177 178 social rewards." Mangkunegara (2013:94322 describes work motivation as "a condition that23 179 180 influences, directs, and maintains behaviou224 related to the work environment." In other word 225 182 work motivation is a factor that motivate 226 individuals to perform specific actions in th227 184 context of work. In this context, it is essential t228 remember that a lack of work motivation ca229 186 result in individuals only giving minimal effort a230 work. Work motivation is a crucial element i231 187 understanding individual 188 performance i**a**32 189 organizations because work motivation include233 providing encouragement, creating motives, o234 190 influences that trigger specific actions. Accordin235 191 to Sri (2009), the term "motivation" has variou236 192 193 meanings, such as desire, hope, goals, objective 237 needs, encouragement, motivation, and incentive 238 195 The origin of the word "motivation" comes from 39 the Latin "movere," which means "to move." In 240 197 comprehensive definition, motivation is a proces241 involving physical and psychological deficiencie242 199 that encourage individuals to perform behaviour243 or drives aimed at achieving goals or incentive 244 200 201 According to ARUM (2022), several indicators of 245 work motivation can be recognized: Physiologica 246 Needs include basic needs such as food, drink247 203 204 shelter and other aspects that support one'248 physical survival. Safety Need: Individuals need49 205 206 to feel safe in their work environment. Thi250 includes aspects of physical security as well as jo\(\mathbb{2}51\) 208 stability. Socialization Need: Good socia252 relations and the quality of interaction wit 253 210 colleagues and superiors are also essential factors

211 in work motivation. Need for Reward: Rewards in

can increase individual work motivation. Self-Actualization Need: Developing potential, achieving personal goals, and being successful in a career is also an important motivating factor. By understanding and meeting these needs, organizations can create a more motivating and productive work environment for employees.

Work Ethic

Work ethic has a vital role in improving teacher performance. A positive work ethic is the key to carrying out tasks effectively and producing satisfying results. McShane and Von Glinow (2008) say that ethics is related to moral principles or values determining whether an action is right or wrong. Lawton (2013) defines ethics as principles that provide a framework for making morally based decisions and guide individuals in their actions. In other words, ethics provides guidelines for directing one's behaviour according to a set of moral principles. Individuals with a high or positive work ethic, as described by Porter (2004), usually exhibit the following characteristics: punctuality, pride in their work, ability to work independently, responsibility, willingness to take initiative, and ability to complete tasks. Task carefully. Meanwhile, according to Miller, Woehr, and Hudspeth (in Meriac, Poling, and Woehr, 2009), individuals with a strong work ethic will show traits such as a focus on work, self-confidence, hard work, efficient time management, integrity, morale, the ability to delay self-gratification and avoid wasting time. Previous research, such as by Wahyudi et al. (2013), has shown that work ethic significantly affects performance. This underscores the importance of establishing and encouraging a positive work ethic among teachers, as this can improve their performance and, overall, increase the effectiveness of education in the school setting.

Teacher Performances 254 255 Performance, or in English known a**2**99 256 "performance," is the leading indicator of succes300 257 for an organization and the individuals who work01 in it. Performance is one of the essential keys that 02 259 must run effectively so that the organization as 303 whole can achieve its goals. Performance is 304 261 result that can be measured by achieving specifi305

goals. Good performance results are usually 306 262 consequence of good behaviour. This include 307 263 prudent and effective conduct appropriate to th808 264 265 required skills and competencies. Pratami309

Harapan, and Arafat (2018) have emphasized the 310 266 267 importance of the link between good behavious 11

268 Ahmad (2019) describe that performance system313 269 270 usually cover two main aspects, namely behavious 14

(what employees do) and results (results of that 15 272 behaviour). However, it is essential to remembe \$16

that the performance dimension includes the 17 273 274 results of the behaviour and the behaviour itself318

In other words, how a person acts, works, and 19 275 276 behaves in a work context is very important iß20

277 determining the final performance results21 Therefore, promoting appropriate and effective 22 278 279

behaviour is essential to achieve optima323 organisational performance. Performance is 324 280 281 critical element that must function effectively t325

achieve overall organizational success. IB26 282 Armstrong's view, performance results from 27 283

achieving various goals and the processes that 28 285 enable the achievement of these goals. It cover329 dimensions, including30 various performance 286

performance related to work processes and31 287 288 outcomes. Armstrong (2006)states tha 32 performance involves behaviour and results333 289

290 Performance reflects the behaviour of individual 334 involved in work and changes the concept of 35 291

292 performance from something abstract to real36 action. Apart from being an instrument fo337

measuring results, behaviour in performance i338 294

298 Colquitt views performance as a set of behavioural values generated by employees, both positive and negative, that contribute to the achievement of organizational goals. Colquitt's view emphasizes that performance includes behaviour within the employee's control but only in the context of behaviour relevant to job achievement. In this definition, the performance focuses on employee behaviour in the context of the core job duties and responsibilities. Overall, performance results from the interaction between employee behaviour and organizational goals. This includes how individuals work, whether in terms of the tasks performed or the behaviours and good performance results. Walang and 12 that affect the productivity and effectiveness of the organization. The definition of performance, according to Colquitt, indeed focuses on performance behavior related to the core duties and responsibilities of the job. This includes behaviour that can be positive or negative, and all impact achieving organizational goals. The definition of performance proposed by Colquit emphasizes that performance primarily includes behaviour relevant to work performance that is within the employee's control. In other words, in Colquitt's view, performance is how healthy individuals carry out their core job duties and responsibilities and how their behaviour contributes to achieving organizational goals. This definition allows organizations to assess and measure the extent to which employees fulfil their duties and the extent to which their behaviour organizational supports success. Teacher performance results from the teacher's work in carrying out their duties based on abilities, skills, and experience and in accordance with predetermined competencies and work criteria.

Classroom observation is often used as a general way to assess teacher performance (Moradi, Sepehrifar, & Khadiv, 2014). In the evaluation process, students are often the primary assessors also an actual result, which is the product of 39 of teacher performance (Ardiana, 2017). Some mental and physical effort applied to tasks an 340 indicators used to measure teacher performance can be assessed separately from the final result. 341 include: Ability to Develop Lesson Plans (RPP):

342 This includes the extent to which teachers ca\(\frac{3}{8} \) 86 343 plan and organize learning materials according to 87 344 the curriculum and student needs. Ability t388 345 Implement Learning: The teacher can conve \$89 subject matter, facilitate discussion, and 90 347 implement appropriate learning strategies. Skill391 in Interpersonal Relations: Teachers must interac 392 348 349 well with students, colleagues, and parents. This 93 ability includes effective communication and th394 350 ability to build positive relationships. Ability t395 351 Assess Learning Outcomes: Teachers mus 96 352 objectively assess students' understanding and 97 353 354 progress. This includes skills in designing test398 and evaluation assignments. Ability to Implement 99 355 356 Enrichment Programs: Teachers must als400 identify the needs of more capable students an 401 357 358 implement enrichment programs for them. Thes \$\ddot{02}\$ indicators are an integral part of teache#03 359 360 performance assessment, and the results are use 404 to understand the extent to which teachers ar \$\delta 05\$ 361 successful in teaching and supporting studen#06 362 363 growth and development. 407 **Management Innovation** 364 408

Management innovation's essence lies not i#09 365 366 creating innovative solutions per se but i#10 367 establishing an environment that nurture 411 368 creativity—a space wherein solutions can b412 369 envisioned, nurtured, and implemented. A413 370 pointed out by Goyal and Pitt in 2007, the 14 371 emphasis is not solely on generating nove415 answers but on cultivating an atmosphere that 16 373 encourages the birth and evolution of solution 417 from inception to execution. This perspective 18 374 375 highlights the significance of fostering a#19 organizational culture that supports and empower \$420 376 the entire innovation lifecycle, from ide421 377 378 generation to practical implementation. Accordin \$22 to Scarbrough and Swan (2001), the emergenc 423 379 and expansion of knowledge management 24 380 constitute a managerial reaction to the tangible 25 382 patterns linked with globalization and the er426 383 following industrialization. These pattern427 384 encompass the proliferation of knowledge-base 428 385 job roles and the technological progress of 29

information and communication technology (ICT).

The strategic implementation of technology has a dual impact, influencing the organizational milieu and production technology. This, in turn, shapes the creative procedures and the accumulation of organizational knowledge, thus impacting the competitive edge of the entity (Ahmad and Schroeder, 2011). A pivotal driver fuelling the swift evolution of organizations, including educational establishments, is the implementation effective of collaborative teamwork methodologies (Anderson and West, 1998). In contemporary settings, the strategic integration of learning technology holds the power to transform the very fabric of an organization. It has a twofold effect - not only does it reshape the immediate organizational context, but it also exerts influence on the technology employed for production. This interplay extends its reach to impact the intricate creative processes that underlie the generation of novel ideas and the accumulation of essential organizational knowledge. Ultimately, synthesis of technology and strategy becomes a determinative factor in shaping the organization's competitiveness within the broader landscape.

Within educational institutions and businesses alike, the impetus for rapid advancement is inherently tied to the efficient orchestration of collaborative efforts. In a landmark study, Anderson and West (1998) underscored the pivotal role of cohesive teamwork in propelling organizations forward. This bears testimony that the real catalyst for growth is not merely the application of advanced technologies or sophisticated strategies in isolation but rather the harmonious convergence of both elements to foster an environment conducive to innovation and development.

arning Management

The use of technology in learning, primarily through the Learning Management System (LMS) and E-learning, is essential in this digital era.

430 LMS is a system that facilitates online learning 74 management, while E-learning is a learning 475 431 approach that utilizes computer technology an 476 432 433 other devices. This includes using informatio#77 technology to create learning experiences in 478 435 virtual environments. In this context, E-learnin 479 can be defined as using internet and well-80 437 technologies to support the learning process. The 81 main principle of E-learning is its ability to b\ddlength 82 438 connected to a network, making it easier t483 439 update, store, distribute, and share instruction 484 440 and information instantly. This makes learnin 485 441 442 flexibly accessible to students, regardless of 86 443 location and time. The use of LMS and E-learning 87 444 has brought significant changes in the wa488 education and learning are carried out. The \$489 445 446 provide students and students with broader acces#90 to educational resources, interact with learnin 491 448 materials, and communicate with instructors an 492 fellow students online. It also provides moment 493 449 in study time, allowing individuals to stud#94 450 according to their schedule. 451 495 452

This study assesses factors influencin \$496 453 learning management by teachers in Vocationa497 Higher Schools in the field of technology an 498 454 455 engineering. The evaluation encompasses five ke#99 456 variables: work motivation, work ethic, teache 500 457 performances, management innovation, and01 458 learning management. The subsequent sectio 602 459 the methodology employed fox03 460 assessing the variables and outlines the sampling04 461 and data collection approaches utilized. Followin §05 that, this study delves into the techniques used fo 506 462 data analysis and the resulting findings. In las 607 463 the conclusion by highlighting the implication \$08 464 derived from the findings and proposes futur509 465 research directions. 466 510

468 2 Material and Method

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section outlines the undertaken to execute the present study. Th514 point Likert 470 chosen methodology involved the utilization of 515 questionnaire survey research design, aimed at comprehensivel \$16 respondents' answers that were neutral or unsure. 473 exploring the research objectives. The segment 17

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provides a comprehensive breakdown of the questionnaire design and the data collection process conducted. Furthermore, it delves into the finer details of how the constructs under scrutiny were meticulously measured to ensure a robust evaluation of the research variables.

Questionnaire Design

A set of questionnaires was meticulously devised to serve as a robust tool for gauging both the understanding of conceptual definitions and their practical application. Survey data collection carried out through questionares. Respondents filled out questionnares with 10 statement items for work motivation (Andrianto, Komardi, & Priyono, 2023; Febriani, Ahyani, & Fitriani, 2023; Nugroho, Tannady, Fuadi, Aina, & Anggreni, 2023), 10 statement items work ethic (Kamaruddin, Tannady, Al Haddar, Sembiring, & Qurtubi, 2023; Risadiana, Agung, & Yudana, 2023), 10 statement items for performances (Kamaruddin et al., 2023), 10 statement items for management innovation (Karatepe, Dahleez, Jaffal, & Aboramadan, 2023), 10 statement items for learning management (Riza, Piantari, Junaeti, & Permana, 2023).

These questionnaires incorporated a 5mint measurement scale, encompassing a range from "Strongly Disagree" (1) to "Strongly Agree" (5), following the methodology outlined by Likert in 1972. The variables were measured using a scale of 1 to 5, which explains whether the respondent agrees or not with certain statements. Score 1, the respondent strongly disagrees with a certain statement; score 2, the respondent does not agree with a certain statement; score 3, the respondent is neutral with certain statements; score 4, the respondent agrees with a certain 512 statement; and a score of 5, the respondent approach13 strongly agrees with a certain statement. A fivescale was used because this was able accommodate

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518 Reability and Validity

558 To ensure the calibre and relevance of the 59 520 content, various tools inherent to the researc 560 process were judiciously utilized. The assuranc561 of both content validity and reliability rested of 62 the evaluation of five experts, each a specialist in 63 their respective fields. This panel of experts64 meticulously reviewed the content to ascertain it \$65 alignment with the research's objectives and 66 scope. Reliability refers to the consistency of 67 stability of a measurement over time or betwee 68 different raters. A measurement instrument is 69 considered reliable if it consistently provides th570 same results when used repeatedly to measure th671 same thing. In other words, a reliable instrument 72 is an instrument that provides consistent results 73 regardless of who gives it, when it is given, and 74 under what conditions it is given. Validity refer\$75 to the extent to which a measurement instrument 76 measures what it is supposed to measure. A\$77 measurement instrument is considered valid if 78 accurately measures the concept or construct is 79 wants to measure. In other words, a valid80 instrument is one that measures what it claims to 81 measure and produces results that are meaningfuß82 and relevant to the research question. Reliabilit \$83 refers to the consistency of measurement, whil 584 validity refers to the accuracy or correctness of 85 546 measurement. Although reliability important to ensure the consistency and stabilit \$87 of results, validity is essential to ensure that th588 results obtained from a measurement instrument 89 are meaningful and relevant to the researc 500 question. 591

The Data Collection Procedure

Research data collection was carried out 94 through questionnaires which were distributed via Google Form to respondents. The respondents were teachers at vocational schools that had

building engineering education programs. The purpose of this study centred on discerning the factors influencing learning management by teachers in Vocational Higher Schools for the technology and engineering field. To ascertain an appropriate sample size for this study, the G*power analysis method, a well-regarded approach in the structural equation modelling realm, was applied (Kaya, Düzgün, & Boz, 2023). Since the model featured two predictors, this study aimed for a medium effect size and a power level of 0.8. As a result, a minimum sample of 32 was deemed necessary. However, the sample size was increased to 385 due to the diversity inherent in the population, as suggested by (Hair et al., 2019). By expanding the sample size, this study aimed to better accommodate the heterogeneous nature of teachers as participants. This larger sample would consequently enhance the statistical robustness of the findings. Specifically, with a sample size of 385, it would achieve a power exceeding 0.9. This strategic decision ensures that this study is equipped with ample statistical strength and confidently generates substantial and reliable insights from the data analysis carried out.

Construct Measurement

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This study has constructs comprising two independent variables, work motivation and work ethic. Teacher performances variable will have double functions as dependent variables for testing H1 and H2. Then, it will serially mediate together with management innovation to prove H5 and H6 with learning management as a dependent variable. In addition, learning management has the same role to check H3 and H4. Figure 1 shows the hypothesis paths of this study.

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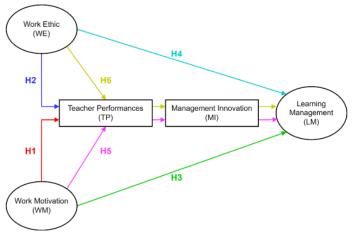


Figure 1. The hypothesis paths of the factors influencing learning management.

All the indicators used in the analysis were of a reflective nature. Additionally, it's noteworthy that every single item incorporated in the analysis was drawn and adapted from established and previously conducted research studies.

- Work motivation were adapted from the work of the study of (Andrianto, Komardi, & Priyono, 2023; Febriani, Ahyani, & Fitriani, 2023; Nugroho, Tannady, Fuadi, Aina, & Anggreni, 2023)
- Work ethic were adapted from the work of the study of (Kamaruddin, Tannady, Al Haddar, Sembiring, & Qurtubi, 2023; Risadiana, Agung, & Yudana, 2023)
- Teacher performances were adapted from the work of the study of (Kamaruddin et al., 2023)
- Management innovation were adapted from the work of the study of (Karatepe, Dahleez, Jaffal, & Aboramadan, 2023)
- Learning management were adapted from the work of the study of (Riza, Piantari, Junaeti, & Prmana, 2023)

The type of research used was quantitative research with sappling using random sampling techniques and a sample of 30 teachers from 3 vocational education institutions in Semarang was obtained. The list of schools and the number of respondents are Vocational Higher School (SMK)

7 Semarang, (10), SMK 4 Semarang (10) and SMK 1 Semarang (10). In order to ensure that the items were devoid of ambiguity and accurately captured the intended constructs, a preliminary pilotzaludy involving 30 participants was carried out prior to the primary data collection phase. This step was taken to refine the measurement instruments and to align them more precisely with the research objectives. Also, the expertise of specialists in the field was enlisted to validate the items for their relevance and suitability. Drawing from the insights gained from both the pilot study findings and the input provided by these experts, certain items underwent revisions to improve their clarity and overall effectiveness in capturing the intended nuances of the constructs under investigation.

3 Result and Discussion

Partial Least Squares (PLS) which allows latent variable modeling in SEM analysis. Using PLS provides higher flexibility compared to other SEM methods. One of the advantages of PLS is its ability to moderate. Moderation is an important concept in this research because it refers to influence of an independent variable on the relationship between the explanatory variable (independent) and the dependent variable (dependent). PLS can explore moderation

relationships more effectively. PLS also has advantages in processing data that does not have a normal distribution. This allows data analysis that is more accurate and relevant to real conditions in research. PLS analyzes data realistically and is closer to the actual situation.

To conduct an analysis of the research model, this study employed structural equation modeling (SEM) techniques (Hair Jr & Sarstedt, 2019). Specifically, the analysis was executed utilizing the Partial Least Squares (PLS) method via SmartPLS 3.2.9 software. To scrutinize the pathways within the model, a bootstrap resampling technique was implemented, involving 5000 resampled inspaces. There are three distinct rationales driving the utilization of PLS in this study. Firstly, the distribution of the samples deviated from the normal distribution, a

characteristic that be effectively can accommodated by PLS as previously highlighted (Lubis, Zarlis, & Aulia, 2023). Secondly, PLS is renowned for its ability to handle smaller sample sizes, a particularly advantageous trait as emphasized by (Hair Jr & Sarstedt, 2019). Lastly, the nature of PLS makes it particularly well-suited for exploratory investigations such as the present study, aligning with the insights presented by (Chatterjee, Bhattacharjee, Tsai, & Agrawal, 2021). The research adhered to the recommended two-stage approach suggested by (Hair et ala 2019). This involved a sequential estimation of both the measurement model and the structural model, ensuring a comprehensive examinations the variables and their interrelations. structural model of this study is shown in Figure

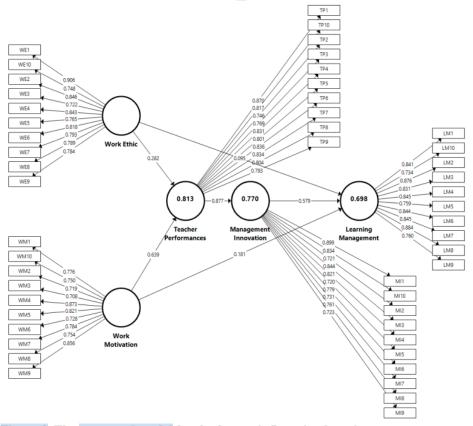


Figure 2. The structural model for the factors influencing learning management.

The Measurement Model

The measurement model entails assessment of two key aspects: convergent validity and discriminant validity. To ascertain convergent validity, the initial assessment considers indicator loadings and all these loadings re observed to exceed the stipulated threshold of 0.7 as recommended by (Hair et al., 2019). Furthermore, this study examined the Average Variance Extracted (AVE) and observed that all AVE values exceeded 0.5. Convergent validity means that a set of indicators represents one latent variable and is the basis for that latent variable. This representation can be demonstrated through unidimensionality which can be expressed using the average value of the extracted variance (AVE). The AVE value is at least 0.5. This value illustrates adequate convergent validity, which means that one latent variable is able to explain more than half of the variance of its indicators on average. Additionally, the Contruct Reliability

(CR) values were scrutinized, ensuring that each of them surpassed 0.7, in line with the criteria presented by (Supriyago et al., 2022). Moreover, the evaluation of Cronbach's alpha values that all values exceeded recommended threshold of 0.7 (Zebua & Chakim, 2023) The result of the convergent validity is shown in Table 1. Given these findings, convergent validity was substantiated, and a concurrent assessment of discriminant validity was also carried out (Hair Jr & Sarstedt, 2019). Meanwhile, the presented in Table 2 establishes that the square roots of each construct's AVE surpassed their respective correlations with other constructs, a principle advocated by (Habibi, Sofyan, & Mukminin, 2023). This thorough evaluation confirms the absence of issues with discriminant validity, allowing for the conclusion that all measures the model exhibited exceptional psychometric properties.

Table 1. The result of the convergent validity

Construct	Code	Outer Loading	Cronbach a	CR	AVE
Work	WM1	0.776	0.927	0.939	0.606
Motivation	WM2	0.719			
	WM3	0.708			
	WM4	0.873			
	WM5	0.821			
	WM6	0.728			
	WM7	0.784			
	WM8	0.754			
	WM9	0.856			
	WM10	0.750			
Work Ethic	YE1	0.906	0.938	0.948	0.645
	WE2	0.846			
	WE3	0.722			
	WE4	0.843			
	WE5	<mark>0</mark> .765			
	WE6	0.818			
	WE7	0.793			
	WE8	0.789			
	WE9	0.784			
	WE10	0.748			

Construct	S ode	Outer Loading	Cronbach α	CR	AVE
Teacher	TP1	0.807	0.942	0.950	0.657
Performances	TP2	0.746			
	TP3	0.769			
	TP4	0.831			
	TP5	0.801			
	TP6	0.836			
	TP7	0.834			
	TP8	0.804			
	TP9	0.793			
	TP 10	0.817			
Management	MI1	0.899	0.930	0.941	0.617
Innovation	MI2	0.721			
	MI3	0.844			
	MI4	0.821			
	MI5	0.720			
	MI6	0.779			
	MI7	0.731			
	MI8	0.761			
	MI9	0.723			
	M10	0.834			
Learning	LM1	0.841	0.947	0.954	0.678
Management	LM2	0.876			
	LM3	0.831			
	LM4	0.845			
	LM5	0.759			
	LM6	0.844			
	LM7	0.845			
	LM8	0.884			
	LM9	0.760			
	LM10	0.734			

Table 2. Discriminant validity (Fornell and Larcker Criterion)

	Learning	Management	Teacher	Work	Work
	Management	Innovation	Performances	Ethic	Motivation
Learning					
Management	0.823				
Management					
Innovation	0.829	0.786			
Teacher					
Performances	0.905	0.877	0.811		
Work Ethic	0.771	0.886	0.859	0.803	
Work Motivation	0.799	0.919	0.894	0.903qa	0.779

The Structural Model

In the structural model analysis, the investigation encompassed the evaluation of the path coefficient (β), the t-test value, predictive relevance (Q2), and the coefficient of determination (R2), as advocated by Hair et al. in 2017. To scrutinize the hypotheses and establish

their significance, a bootstrapping technique involving 5000 resamples was employed. This technique adhered to a significance level (*p*) of 5%, adopting a one-tailed test option. First, the testing results showed support for three structural hypotheses and three vice versa listed in Table 4.

Table 4. The summary of the hypothesis test

Hypothesis Path	β	t-test	P-value	Result	
H1: Work Motivation → Teacher Performances	0.639	4.446	0.000	S	
H2 : Work Ethic → Teacher Performances	0.282	1.893	0.029	S	
H3 : Work Motivation → Learning Management	0.181	0.707	0.240	NS	
H4 : Work Ethic → Learning Management	0.095	0.367	0.357	S	
H5 : Work Motivation → Teacher Performances →	0.325	2.043	0.021	NS	
Management Innovation → Learning Management					
H6 : Work Ethic → Teacher Performances →	0.143	0.157	0.061	NS	
Management Innovation → Learning Management					

S: Supported, and NS: Not Supported

Table 4 shows the results of the hypotheses testing were as follows:

- **H1:** The work motivation possessed by teachers in Vocational Higher Schools is the field of technology and engineering has a direct and positive influence of teacher performances. Hypothesis testing found that the work motivation of the teachers has a direct and positive influence on teacher performances as witnessed by the coefficient = 0.639, the fact that the hypothesis significance is p < 0.05.
- **H2:** The work ethic possessed by teachers in Vocational Higher Schools in the field of technology and engineering has a direct and positive influence on teacher performances. Hypothesis testing found that the ethic motivation of the teachers has a direct and positive influence on teacher performances as witnessed by the coefficient = 0.282, the fact that the hypothesis significance is p < 0.05.
- H3: The work motivation possessed by teachers in Vocational Higher Schools in the field of technology and engineering has a

- direct and positive influence on learning management. Hypothesis testing found that the work motivation of the teachers has an indirect and positive influence on learning management as witnessed by the coefficient = 0.181, the fact that the hypothesis significance is p < 0.05.
- **H4:** The work ethic possessed by teachers in Vocational Higher Schools in the field of technology and engineering has a direct and positive influence on learning management. Hypothesis testing found that the work ethic of the teachers has an indirect and positive influence on learning management as witnessed by the coefficient = 0.095, the fact that the hypothesis significance is *p* < 0.05.
- H5: The work motivation possessed by teachers in Vocational Higher Schools in the field of technology and engineering with serially mediated teacher performance and management innovation acted has a direct and positive influence on learning anagement. Hypothesis testing found that it has a direct and positive influence on learning

- management as witnessed by the coefficient = 0.325, the fact that the hypothesis significance is p < 0.05.
- **H6:** The work ethic possessed by teachers in Vocational Higher Schools in the field of technology and engineering with serially mediated teacher performance and management innovation acted has a direct and positive influence on learning management. Hypothesis testing found that it has an indirect and positive influence on learning management as witnessed by the coefficient = 0.143, the fact that the hypothesis significance is p < 0.05.

Upon calculating the path coefficients, the subsequent Q2 assessment revealed that the research model attained a Q2 score of 0.446, surpassing zero. This outcome underscores the model's high predictive relevance. In aggregate, our exogenous variables collectively account for 69.8% of the variance observed in the context of learning management found in Vocational Higher Schools in the field of technology and engineering, and this portion of variance is indeed considerable.

Discussion

The Affecting of Work Motivation on Teacher Performances

Motivation is the drive that pushes someone to achieve organizational goals by trying hard when their needs are met. The better a person's performance, the greater the rewards they receive and the higher their job satisfaction. Positive attitudes toward work can create high work motivation in the work environment, while negative attitudes can reduce motivation. Motivated teachers make a better contribution to achieving organizational goals. According to (Andrianto et al., 2023) and (Kamaruddin et al., 2023), improving teachers' work motivation levels can result in increased work motivation, which in turn contributes to improving individual, group,

and organizational performance. Findings from research conducted by (Febriani et al., 2023), also show that three aspects of psychological needs can predict work notivation and job performance. In addition, in research conducted by (Chatterjee et al., 2021), there is a significant correlation between work motivation and work performance. Meanwhile, research conducted by Imam and his colleagues in 2015 stated that three variables significantly influenced teacher performance, namely leadership style, corporate culture, and teacher motivation. Results also confirm a positive relationship between work motivation and teacher performance. These views confirm that teacher work more ation has a vital role in shaping the level of work motivation successful teacher performance organizajonal context.

H1: Work motivation has a positive and significant effect on teacher performance (accepted)

The Affecting of Work Ethic on Teacher Performance

Work ethic is important in providing enthusiasm and stamina for a teacher to carry out his duties. It also influences the teacher's charisma and authority and shapes the teacher's personality and work behaviour. In this context, work ethics refers to viewing work as desirable rather than a burden. Individuals with strong work ethic are highly committed to their work and often feel satisfied in the teacher's work environment (Abbasi and Ghulam, 2012). Work ethics is not just about understanding moral values but also applying them in daily practice, and this can provide significant benefits in a teacher's professional development. The results of the various jou mentioned, all show that work ethic has a significant positive impact on improving performan (Kaya et al., 2023). These findings underscore the importance of a strong work ethic in influencing performance and contributing positively to various aspects of work.

A good work ethic creates a productive work environment and can improve overall individual and organizational performance results.

H2: Work ethics has a positive and significant effect on teacher performance (accepted)

The Affecting of Work Motivation on Learning Management

Teachers must consider work motivation factors relevant to the school when developing scientific development programs that support school needs. Funding for the provision of elearning and financing related to other facilities, responsibilities and achievements are the main factors considered necessary by schools when considering work motivating factors influence teachers' decisions to adopt a course learning management system (LMS) into their teaching practice. The school development program should provide financing to teachers, strengthen teachers' responsibilities for teaching, and help schools achieve their goals and advance their knowledge of teaching using the LMS. Another vital area that motivates teachers' work is the influence of policies both from schools and the state, which in particular, the use of the LMS is mandatory for teachers to use or not. This is what motivated the teacher's decision to adopt the LMS. Because LMS requires bureaucracy and interference from other parties, it does not gignificantly affect teacher's work motivation. Work motivation also does not have a significant effect on LMS.

H3: Work motivation has not a significant effect on learning management (rejected)

The Affecting of Work Ethics on Learning Management

There are several problems surrounding the implementation of the learning management system, including strengthening work ethics that cannot be carried out continuously and continuously. Strengthening work ethics certainly requires good learning management. Management

of continuous supervision work ethics. This phenomenon provides extra duties and responsibilities for teachers to maximize their personal work ethics and the need for proper management of a legining management system.

H4: Work ethics has a positive and significant effect on learning management (accepted)

The Affecting of Work Motivation, Teacher Performances, and Management Innovation on Learning Management

This study has limitations, namely only conducting an analysis using the principal's managerial ability and work motivation variables to determine the effect on teacher performance. Some suggestions that can be followed up by other researchers based on the results of this study are efforts by relevant agencies to increase the competency of school principals in management innovation through holding workshops and training and optimizing supervision of school principal performance. In addition, it is necessary identify more learning management factors. This is because many factors influence and contribute to teacher performance in their duties and obligations. Other researchers can follow up by conducting further training and research activities by adding or replacing broader variables.

H5: Work Motivation, Teacher Performances, and Management Innovation has not significant affecting on Learning Management (rejected)

The Affecting of Work Ethic, Teacher Performances, and Management Innovation on Learning Management

This study has several limitations, namely the focus on analysing principals' managerial abilities and work ethic variables in relation to teacher performance. For further research, it suggested that relevant agencies make efforts to improve the competency of school principals in management innovation through organizing workshops and training, as well as maximizing

the supervision of school principals' performance. In addition, it is essential to identify more learning management factors that might influence teacher performance. Because many factors can contribute to teacher performance, future research may consider adding or replacing variables to make them more comprehensive. This underscores the need for more in-depth and broad research to understand the factors influencing teacher performance and how to improve it in the educational context.

H6: Work Ethic, Teacher Performances, and Management Innovation haven't significant affecting on Learning Management (rejected)

4 Conclusion

This study provides information that work motivation and work ethics affect teacher performance in vocational education. Work motivation, from the results of this study is quite good and has a significant effect on teacher performance. This confirms that teachers' work motivation and work ethic level can directly fluence their performance. Hypothesis testing found that the work motivation of the teachers has a direct and positive influence on teacher performances as witnessed by the coefficient = 0.639, the fact that the hypothesis significance is pTherefore, to improve teacher performance, school supervisor needs to provide high management innovation to teachers. Schools can create a more productive environment and help teachers reach their full potential by providing innovative management that encourages and maintains teacher motivation. This can include developing training programs, organizing workshops, providing support constructive feedback to teachers. Innovative management can also help teachers feel valued and encouzeged to work better, which will strengthen the quality of education they provide to students. Therefore, it is suggested to the school to design management innovation, provide encouragement and evaluate the learning

management system process. The school can review the learning process from planning to the implementation process in the field and whether there are still deficiencies in the learning management system. It is hoped that this review will continue to improve teacher performance. the learning system in innovative management emphasizes on effective, open communication, discussion and public examination of problems encountered in learning, consider each other's views and put forward trategies. System collaborative work where conscious effort has been made to create strategies, policies and structures and institutionalize values, behavior and practices enables individuals and groups to work effectively together achieve organizational goals.

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Conflict of Interest Statement

The authors have no conflicts of interest to disclose. All authors declare that they have no conflicts of interest.

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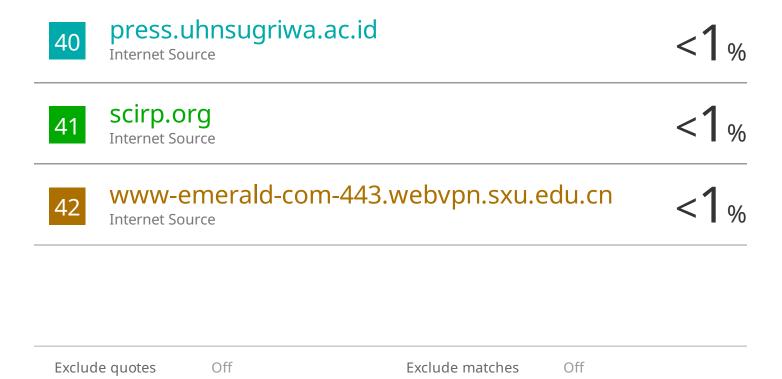
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