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JL. Surya Kencana No.1 Pamulang, Tangerang Selatan – Banten

Telp. (021) 7412566, Fax (021) 7412491

Email : humanisproceedings@gmail.com



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Optimizing communication technology and work professionalism on student achievement at the Aerospace Air Chief Marshal Suryadarma University

Avid Dwi Prabowo

Student of Magister of the Aerospace Air Chief Marshal Suryadarma University, Jakarta
231173021@students.unsurya.ac.id

Abstract; Integrity issues in the workplace demand quality and professionalism. However, professionalism alone is not enough to produce quality output. Moreover, the worker is a student at one of the universities, especially at the Aerospace Air Chief Marshal Suryadarma University. This must be accompanied by good communication with company leaders and lecturers at Air Marshal Suryadarma University. By utilizing current technological developments, the combination of technological communication and professionalism of work is believed to make an effective and efficient positive contribution to the quality of work and the stability of achievement in following lecture learning at Air Marshal Suryadarma University. This research tries to examine the correlation between current communication technology and professionalism of workers to maintain the quality of work and achievement of these students at Air Marshal Suryadarma University. The research method used a qualitative approach with a case study as the main design. Research data obtained through observation and analysis of related literature review documents. The results of the study aim to determine that communication technology and professionalism at work for students who are already working contribute or have a positive effect on the quality of work and the stability of student achievement in participating in online learning at Air Marshal Suryadarma University, as well as increasing interaction between students and lecturers even during work activities. In addition, the utilization of this technology also provides flexibility in accessing material and can improve the technology mastery skills of each student. This research provides in-depth insight into the importance of the benefits of communication and professionalism of work and the utilization of technology in improving the quality of education on the achievement of elementary students. The implication of this research is the need to continuously develop technological skills in communication and develop skills and training for teaching staff and students in utilizing technology effectively and efficiently.

Keywords: Communication Technology, Work Professionalism, Achievement of Student, Quality of Work, Technology Utilization

INTRODUCTION

During the COVID-19 pandemic as we know in the world of education utilizing the science of communication technology in the form of utilizing the internet network to carry out teaching and learning activities. So students do not have to meet face to face to carry out classroom learning, but now use video conferencing for teaching and learning activities. Likewise, what is done at Air Marshal Suryadarma University, using the video conference learning method. As we know now not all Air Marshal Suryadarma University students in the Master of Management study program are purely students but besides students they are mostly workers too. So this IT is very helpful for students and lecturers for teaching and learning activities.

ICT stands for "Information and communication technology". It refers to technologies that provide access to information through telecommunication. It is similar to Information Technology (IT) but focuses primarily on communication technologies. This includes the internet, wireless networks, cell phones and other communication mediums. It means we have more opportunities to use ICT in teacher training programmes now days and improve quality of teacher for teach effectively. According to UNESCO "ICT is a scientific, technological and engineering discipline and management technique used in handling information, its application and association with social, economic and cultural matters". Teacher is the main part of the educational field in our society. He more works for the improvement level of our society in the every field. Skilled teachers can make the creative students in form of the good social worker, politician, poet, philosopher etc. for the society. Teachers can play a friendly role with the learner. The rapid development in technology has made creatively changes in the way we live, as well as the demands of the society. Recognizing the impact of new technologies on the workplace and everyday life, today's teacher education institutions try to restructure their education programs and classroom facilities, in order to minimize the teaching and learning technology gap between today and the future. ICTs are making dynamic changes in society. They are influencing all aspects of life. The influences are felt more and more at schools. Because ICTs provide both students and teachers with more opportunities in adapting learning and teaching to individual needs, society is, forcing schools aptly respond to this technical innovation.

In the Big Indonesian Dictionary, Professionalism has meaning; quality, quality, and conduct that characterizes profession or professional. Professionalism is the attitude of a professional. It is a term that explains that every job should be done by someone who has expertise in his field or profession. According to Supriadi, the use of the term professionalism refers to the degree of professionalism. Appearance of a person as a professional or the appearance of a work as a profession, there are those with high professionalism, medium and low. Professionalism also refers to the attitude and commitment of members of the profession to work based on high standards and the profession's code of ethics.

So, the problem now for students who are already working is quite complex, where they have to be able to divide work and study. On the other hand, the company where they work demands the professionalism of employees while working and on the other hand in the world of lectures also demands the achievements of each student so that they can still take part in learning activities until graduation. But back again to the original intention of each student must be

committed to what is his decision to continue his education even though he works too. All will be beautiful in time and remain enthusiastic in undergoing both.

LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

1. Literature Review.

Literature review is a critical analysis of existing research on a particular topic. It is a summary and evaluation of the current state of knowledge on a specifically defined topic. Literature reviews are usually included in research papers, dissertations, and other academic documents. The purpose of a literature review is to provide a comprehensive overview of the current knowledge of a topic, identify gaps in existing research, and suggest areas for further study. To obtain a theoretical review that also contains the identification of optimisation of communication technology and work professionalism on student achievement at Air Marshal Suryadarma University, a theoretical review was prepared based on the systematic review method. This method is carried out according to the applicable procedures to ensure the utilisation of this method in further research.

- a. Formulation of research questions
- b. Determination of research location
- c. Selection and evaluation of research findings
- d. Analysis and synthesis
- e. Reporting and further research utilization

Referring to the method, this research begins with determining the research question as the first step. The research question that is the basis of this research is in the research hypothesis. The next step is to determine the research location. Our research location took a sample of postgraduate students at Air Marshal Suryadarma University and workplaces that are not in the Air Marshal Suryadarma University environment. In this case, the keywords used in the database search are the keywords in the abstract section to limit the search results. No combination with other related keywords was done. The database used is Google Scholar. Due to the research objectives and current world developments, only articles from international databases were used in this study. The first search resulted in a total of 2576 articles. In the first stage of selection, articles that were not relevant to the purpose of this research were eliminated. After the selection, there were about 5 articles that were in line with the research objectives. These articles will then be analysed and interpreted. In the last step, the conclusions of the 4th stage will be confirmed as well as an explanation of the potential for future research in the same scope.

2. Hypothesis Development.

Referring to the background of the problem described above, it is obtained problem formulation as follows:

- a. What is the role of Communication Technology for work and learning purposes?
- b. What is the role of the correct use of Communication Technology for student achievement and work professionalism?
- c. How does Communication Technology as a communication tool affect distance learning and office work?

METHODS

The research method used a qualitative approach with a case study as the main design. Research data obtained through observation and analysis of related literature review documents. The results of the study aim to determine that communication technology and professionalism at work for students who are already working contribute or have a positive effect on the quality of work and the stability of student achievement in participating in online learning at Air Marshal Suryadarma University, as well as increasing interaction between students and lecturers even during work activities

RESULT AND DISCUSSION

The search results of articles based on the methods used produce the information presented in the table as follows

Table 1. Table Literature Review.

No	Title	Author	Methods	Result
1	Information Communication Technology in Education	K. Ratheeswari, 2018	Qualitative analysis and literature review	The use of such technology in teaching training programmes the quality of teaching will increase effectively. A well-designed teacher training program is essential to meet the demand of today's teachers who want to learn how to use ICT effectively for their teaching. It is thus important for teacher trainers and policy makers to understand the factors affecting effectiveness and cost-effectiveness of different approaches to ICT use in teacher training so training strategies can be appropriately explored to make such changes viable to all.



2	Professionalism and Work Performance of Commissioned Officers: The Mediating Role of Work Values	Christian E. Marimon, 2022	The descriptive-correlational research design and mediation analysis	The outputs of the set of data were presented and ordered based on the objectives of this study. First, to ascertain the level of professionalism of the commissioned officers; Second, to assess the level of work performance of the commissioned officers; Third, to describe the extent of work values among the subordinates; Fourth, to determine the significant relationship between professionalism and work performance; and finally, to determine the significance of mediating role of work values on the relationship between professionalism and work performance.
3	<i>Analisis Statistik Faktor-Faktor Yang Mempengaruhi Indeks Prestasi Mahasiswa</i>	Karyanus Daely, Ujian Sinulingga and Asima Manurung, 2013	Bartlett's test of sphericity, Kaiser-Meyer-Olkin (KMO), Measure of Sampling Adequacy (MSA)	Factors affecting the achievement index of undergraduate students Mathematics FMIPA USU is a fact that occurs in the field during the process of the study period. The four factors are as follows: a. Factors of Environmental Conditions and Parental Supervision. b. Financial Condition and Learning Motivation Factors. c. Quality of Study and Division of Study Time Factors. d. Quality of Lecturer Teaching and Student Health Factors.

4	Quality Of Work Life –A Literature Review	Balaram Bora, Soumendra Das, And D. Vishnu Murthy, 2015	A Literature Review	A happy worker can concentrate on work and give more productivity. A skilled worker can be retained in the organisation if he is satisfied. So it is the duty of the management to provide required facilities to improve QWL of the employees. It ensures greater participation and involvement of workers, makes work easier and improves quality and efficiency. Literature reviews have shown that QWL is a multidimensional constructs, these constructs have to be considered during the job design process. Researchers differ in their views on the core constituents of Quality of Working Life.
5	A Utilization of Information Technology on Education in Indonesia (2017-2020)	Arif Wahyu Widodo, Ismi Solikhatusun, Setya Raharja, Ahmad Abdun Salam, Florentina Sri Wartini, 2020	A Systematic Literature Review	The utilization of information technology on education in Indonesia throughout the year 2017- 2020 has experienced a surge in innovation in the field of development of learning media and education governance facilities. These developments are mostly solutions to overcome past and present problems. In a research approach, the dominance of development and survey is inversely proportional to the case study method, action research, phenomenology, and evaluation. Similarly, in the research object, policy evaluation sector, learning evaluation, and quality assurance have not been lifted as a research object. These sectors have the potential to be objects in future research.

In terms of future research potential, most of the articles found in 2010-present on these research keywords in the referenced databases were related to development and survey research. This contrasts with the use of Action Research, case studies, phenomenology and evaluation methods. This suggests that there is potential for research using these methods in the future. The use of

these methods can be used to test and evaluate innovations in the field of information technology in the education sector in Indonesia. Objects in the field of learning evaluation have also not yet been adopted as a research area, with a variety of alternative methods. The articles related to the optimisation of communication technology and work professionalism on student achievement found in this study have the aim of answering problems that are developing in today's society. There is a tendency to develop information technology products that answer the needs of the education community in Indonesia, both in the teaching and governance sectors. In addition, the majority of existing research highlights the development of learning media, personnel/organisational governance, library services, actors' impressions regarding the use of information technology, database management, and institutional website management.

The utilisation of such technologies in teacher training programmes can effectively improve the quality of teaching. Therefore, it is important to understand the factors that influence the effectiveness and cost-effectiveness of different approaches in the use of ICT, so that learning strategies can be explored appropriately to make such changes feasible for all parties.

Factors that affect student achievement index are as follows:

- a. Factors of Environmental Conditions and Parental Supervision.
- b. Factors of Financial Condition and Motivation to Study.
- c. Quality of Study and Division of Study Time Factors.
- d. Lecturer Teaching Quality and Student Health.

A happy worker can concentrate on work and deliver more productivity. A skilled worker can be retained in the organisation if he is satisfied. So, it is the duty of the management to provide the necessary facilities to improve the Quality of the employees. This ensures greater participation and involvement of the workers, makes work easier and improves quality and efficiency. from the data collection is presented and sorted based on the objectives of this study.

- a. to determine the level of professionalism of the assigned officers
- b. to assess the level of work performance of the assigned officers
- c. to describe the extent of work values among subordinates
- d. to determine the significant relationship between professionalism and work performance
- e. to determine the significance of the mediating role of work values on the relationship between professionalism and work performance.

CONCLUSIONS

Currently, technology is developing rapidly, so the role of Communication Technology for work and learning purposes is very necessary. We can do 2

activities at once, namely work and study. In addition to the achievements in learning are maintained but our professionalism as employees is also stable. So that productivity at work is still productive. I feel firsthand how influential this Communication Technology is as a communication connector for my lecturer even though the distance is far away and I can still carry out a job in my office. So the development of the times must now be balanced with the mastery of communication technology so that we can optimise the communication technology and our work professionalism and learning achievements are stable.

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