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Management Analysis K3 Of The Digitalization Transformation For Students At Marshal Suryadarma Dirgantara University

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Abstract: Universities as service providers in increasing the level of knowledge, skills and leadership must provide optimal, updated and flexible education, Marshal Suryadarma Aerospace University provides online-based education and is required to provide the best service performance by utilizing technology that is currently developing, however, these aspects are The safety aspect in providing this service must be considered, with the existence of this technology it will have an impact on health, safety and work methods which will be impacted on students and teachers, K3 culture (Occupational, Safety and Health) is starting to be taken into account in various aspects of learning and teaching activities. teachers and students can carry out their activities well and safely.

Keywords: Management, K3, Healthy, Safety, Working

INTRODUCTION

Due to technological developments and the effects of Covid-19, many activities in various institutions such as agencies, companies and education use online facilities, apart from being easy to use and flexible in time, making it easier for all elements to carry out activities or work, all online activities still comply with legality, Online activities have the advantage of being efficient and effective because they are not bound by time, place and additional facilities as are activities carried out offline.

Marshal Suryadarma Dirgantara University has improved the system for educating the nation's life and increasing the level of knowledge and status of society by providing online and offline services. For offline, this is done by attending face to face with lecturers and is done in the learning room, for students from most working groups who Those who are busy at work or other business activities can still get educational services using the online system. This online system will make it easier for students who have limited time, place and accommodation.

With today's technology, apart from the network that connects PCs, laptops and gadgets to office and campus administrators, modern communication tools make it easier for humans to transfer and receive information. These tools influence the way people live even from the age of children. children to adults, but along with this, equipment has impacts, apart from





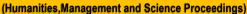












positive impacts, but also negative impacts, with negative impacts influencing how this can be managed through K3 management, both for individuals and for the public.

According to Mangkunegara statement (2002; 165) the objectives of K3 (occupational safety and health) are as follows:

- So that every employee is guaranteed work safety and health both physically, socially and psychologically.
 - So that every equipment and work equipment is used as selectively as possible.
 - So that all production results are kept safe.
 - To guarantee the maintenance and improvement of employee nutritional health.
 - To increase enthusiasm, work harmony and work participation.
 - To avoid health problems caused by the environment or working conditions.
 - So that every employee feels safe and protected at work.

With online learning or activities currently being held, safety aspects, especially for humans, must be taken into consideration. Even though the development of internet technology cannot be avoided, good K3 management can be carried out.

Cell phones, the internet, social networking sites, and texting have changed the way we view the world. There are ~6.9 billion currently using as many mobile devices as there are people on earth. People who use electronic gadgets excessively will experience musculoskeletal disorders. Repetitive strain injury is a chronic condition that develops due to repeated, forceful, or awkward hand movements over a long period of time that cause damage to the muscles, tendons, and nerves in the neck, shoulders, forearms, and hands, which can cause pain, weakness, death taste, or impaired motor control. The eyes, neck muscles, arms and wrists are affected by prolonged use of electronic gadgets.

People who use smartphones excessively, due to the reduced number of face-to-face interactions, tend to feel that their social relationships are not supportive and useful and do not actively contribute to conveying the courage to express opinions, because passive nature tends to influence users of this gadget, with the presence of this gadget A person's creative power begins to weaken, the tendency towards a consumerist nature that can only receive results from the exposure or performance of other people through gadgets, other effects also arise where there is a lack of self-confidence to perform, with gadgets all work or learning has minimal supervision so that users often ignore the trust given to them. .

Excessive smartphone use can lead to the development of repetitive stress injuries or overuse syndrome thereby affecting hand function resulting in pain in the thumb. Long-term use of electronic gadgets can have a bad impact on the human body. There is an important need to promote healthy ways of using smartphones, as well as the importance of friendship and family connectedness as a way to improve psychological well-being. Doctors need to be updated about these new disorders and the younger generation needs to be adequately educated about ergonomic practices and the safety of using gadgets for health.

Excessive use of devices and equipment in social activities for adults, students and teachers, one of the effects that will be felt is sleep disturbances, feelings of loneliness, lack of creativity and the risk of cyberbullying. Apart from these effects, other risks can also occur, especially if someone does activities such as driving, working and even during rest activities.

The use of technology, especially cellphones, has the effect of disrupting health and work safety. From a magazine quote from which the author obtained some data, there were cases of work accidents caused by the use of cellphones, for example in 2019 when traffic operations were carried out for 14 days and 420 cases were found, gadget users while driving vehicles on busy roads, in the third quarter in the Kalimantan area there were 190 cases of death, 67 serious injuries, 407 minor injuries

The driving activity of driving a vehicle requires focus and concentration, especially for students and teachers who require an excessive level of focus when carrying out learning and teaching activities. Underestimating focus when driving can risk accidents and even fatalities, therefore drivers are recommended not to carry out activities that disturb concentration. Operating gadgets such as talking and replying to messages is very risky.















(Humanities, Management and Science Proceedings)

The GHSA (Governors Highway Safety Association) by the United States states that the use of gadgets with calling and replying to messages/chat activities is the cause of road accidents, this gadget activity is more risky than someone driving a vehicle while drunk.

Fast forward 20 years and your car's in-cabin entertainment technology may be little more than a radio and a CD player. Today the typical new car offers everything from satellite navigation and touch screen displays to iPod docks and voice-activated free calls, with these facilities one can carry out work, meetings, study and teaching activities while driving the vehicle.

The research was carried out by Professor Andrew Parkes, chief scientist at the Transport Research Laboratory (TRL), using a government-funded testing facility, which has been researching road safety for more than 20 years. "There are too many tasks available to the driver and many of them are not essential to safe vehicle control: tasks like checking email, checking web documents. "Which should be done when the vehicle is stationary, but many are also done while it is moving, although drivers are advised not to do it."

How much impact does the distraction have on the driver's ability to respond? The Sunday Times tested six scenarios at TRL's laboratory in Wokingham, Berkshire, in a driving simulator - essentially an ordinary hatchback parked in front of a large screen attached to sensors and computers in the control room. This analysis measures driver reactions as we see the impact of activities that many people do every day in their cars. The results were surprising.

One of the problems facing safety activists is that, apart from developments in technology in cars, they also have to overcome cultural changes in the way society views driving. Gone are the days when getting into a car meant being shut out from the outside world, where you could only concentrate on the road ahead and even chatting with passengers was considered a distraction.

So that the teaching and learning process can be effective and efficient, software has been developed that is well integrated between teachers and students, several support systems for learning and teaching activities can use a Learning Management System (LMS) such as SPADA (Online Learning System), SEVIMA EdLink, Moodle, Zoom, MS Teams or Google Classroom.

In order to fully understand the effects of the Internet on society, we should remember that technology is material culture. It is produced in a social process in a given institutional environment on the basis of the ideas, values, interests, and knowledge of their producers, both their early producers and their subsequent producers. In this process we must include the users of the technology, who appropriate and adapt the technology rather than adopting it, and by so doing they modify it and produce it in an endless process of interaction between technological production and social use. So, to assess the relevance of Internet in society we must recall the specific characteristics of Internet as a technology. Then we must place it in the context of the transformation of the overall social structure, as well as in relationship to the culture characteristic of this social structure. Indeed, we live in a new social structure, the global network society, characterized by the rise of a new culture, the culture of autonomy. At the heart of these communication networks the Internet ensures the production, distribution, and use of digitized information in all formats. According to the study published by Martin Hilbert in Science (Hilbert and López 2011), 95 percent of all information existing in the planet is digitized and most of it is accessible on the Internet and other computer networks. The following is a table of internet users in various countries in 2022 which is shown in Table 1, the reasons why someone carries out activities on the internet are shown in Table 2, The table explains how the use of the internet is currently very necessary and meaningful to society.







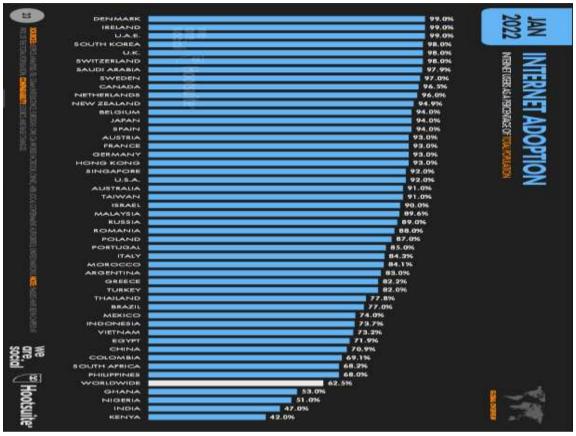


Table 2.

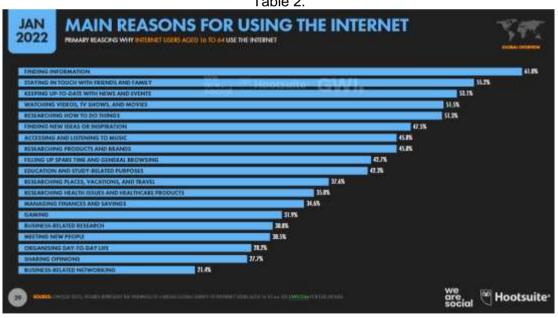


















Image 1

LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

WHO. Helmets: A Road Safety Manual for Decision - Makers and Practitioners. Geneva: World Health Organization; 2006.10.Vorko - Jović A, Kern J,Biloglav Z. Risk factors in urban road traffic accidents. Journal of Safety Research. 2006;37(1):93

METHODS

The research method uses a quantitative basis, from the results of the sources it was found that accidents involving drivers using gadgets and similar equipment were as follows:

Table 3

Accident and	Jumlah						
Losses	2011	2012	2013	2014	2015	2016	2017
Number of	10869	11794	10010	95906	98970	10664	10322
Accident	6	9	6			4	8
Death Victim	31195	29544	26416	28297	26495	31262	30568
Serious injury	35285	39704	28438	26840	23937	20075	14395
Material	217,4	298,6	255,8	250,0	272,3	229,1	215,4
losses (Milliar	35	25	64	21	18	37	46
of Rupiah)							



Image 2

Today, cars are seen as an extension of people's normal lives — and that means they are always on, connected to social media, ready to answer calls, SMS, WhatsApp from bosses, friends or family. The difference is that unlike in the office or at home, where multitasking is the norm, distractions in the car can have deadly consequences. Even using a hands-free device, while legal, does not guarantee that the driver will not be distracted.

Brake, a road safety charity, said many drivers let themselves get distracted because they believe they are in control. "Research shows drivers cannot predict exactly how distracted they are and 98% cannot divide their attention without a significant decline in

















driving performance. "Many drivers put themselves and others at risk by talking on the phone, texting or using social media," he said.

In America, video footage from inside vehicles shows that 22% of accidents are caused. at least in part, by driver distraction. A study conducted by the US National Highway Traffic Safety Administration also showed that drivers who perform secondary tasks while driving are two to three times more likely to have an accident than those who do not use gadget equipment.

Lawmakers are quickly trying to catch up with the changes taking place in the automotive world. Driving while using a handheld mobile phone is punishable by a £100 fine and three penalty points. However, there are no laws governing the use of next-generation technology. The Department for Transport (DfT) has warned drivers about the dangers of using smartwatches but there is no ban - those found to be wearing watches before an accident may be charged with driving without due care and attention, or dangerous driving.

An American technology company says it is considering changing driving tests to take technology into account: in the future, students may have to practice driving while following satellite navigation, in future a driver will have to be skilled at driving a vehicle while reading or listening to directions from a navigation device.

Automakers are also reacting to the annoyance issue: Ford recently announced that it would move away from pure touchscreen displays, which can be difficult to operate and navigate on the move, and reinstate some buttons and knobs, after drivers complained that touchscreen-only systems demands too much attention for common tasks like adjusting the volume. Along with companies like Audi, BMW and Tesla, Ford is also leading the way in developing voice recognition software, which it claims allows drivers to control satellite navigation, phones or entertainment systems without having to take their hands off the wheel or their devices. take your eyes off the road.

RESULT AND DISCUSSION

The thing that makes you do upskilling and upknowledge to get a higher status than others is one of the reasons why someone has to study at college, apart from that, it also makes them more skilled in technical and managerial processing which is currently needed in agencies and companies, because to There are a lot of people looking for someone who is skilled at work, whereas there are only a few people looking for someone who has managerial and leadership skills.

Anyone who needs lectures or competency in managerial is everyone, because managerial is not limited to managing other individuals or the running of a system, but also managing oneself where a person must follow the rules that have been set but must also be critical and objective in accepting these rules if there is something that causes unrest and is not in accordance with what is being implemented, being able to think and convey it to the regulator, online learning has an impact on anyone to obtain managerial thinking competencies that are safe and beneficial for employees or employees as well as agencies or companies.

Why do students and teachers have to carry out online activities solely to convey information related to learning easily and not related to distance between time and activities? With these three things, occupational safety and health aspects should be managed in such a way as to reduce the occurrence of repetitive injuries, for example sitting, too long, back bone stressing which can trigger bone health and so on.

There are several things that students and teachers need to pay attention to in responding to the use of online learning by paying attention to safety aspects that are integrated and updated so that they are more effective and optimal in delivering material and objectives in accordance with what is expected, such as: Providing motivation, interactive and effective, making students Must Learn, Integrate Various Learning Activities, Build a Spirit of Collaboration.

Providing motivation and vision for the future to meet the challenges of the times. Whatever learning media is used, learner motivation is the main factor. In the face-to-face















(Humanities, Management and Science Proceedings)

method, if students are not motivated, then they will not attend class. In online learning, this attitude will be easier to implement because the teacher cannot monitor students.

Therefore, the first thing that teachers need to pay attention to is how to arouse student motivation. To generate motivation, the teacher can give words of encouragement, provide a link to a motivational video from a well-known motivator, and provide success stories from alumni at the start of the lecture.

Interactive and effective face-to-face learning is only 42%, so teachers should not assume that face-to-face is everything, thus requiring live meetings with students. Apart from using up student data quotas, time will also be less flexible.

So the occurrence of interactions needs to be the main concern, even though it doesn't have to be direct. So it is not good in online learning, a teacher just uploads material without any clear introduction or instructions. Greeting words as an introduction to ppt and/or video material are very necessary, because students will respond according to the introduction. Without an introduction, the material may just be downloaded and nothing will be done. Making students have to study. In general, teachers hope that students will learn the material provided. Apart from introducing the material, teachers also need to find ways and "force" students to learn the material provided.

This can be done by configuring an LMS (Learning management system) such as: Meet, Zoom, SPADA, EdLink, Moodle through features that require students to do certain things if they want to be considered present, or by creating a learning evaluation model that only students can participate in. who have studied certain material according to system settings.

Integrating various learning activities, teachers and students have implemented the Independent Learning Programms - Independent Campus where students are given the opportunity to choose the learning activities they are interested in. With the concept of independent learning, teachers can give students the opportunity to study at other institutions, for example taking online classes at other campuses or taking part in training related to certain subjects..

If the material studied by students at the institution is the same as the material in the courses taught by the instructor, the certificate obtained may be recognized as a grade for that course.

Building a Spirit of Collaboration. In this information era, it is very possible to build collaboration with anyone and anywhere. There is no longer a need to think about meeting costs, because communication can be done from each location.

Teachers and students can collaborate with academics from other campuses, domestically and/or abroad. Teachers can take advantage of similar study program forums that already exist. Teachers can also utilize their network of college friends to become collaborators. Likewise, students, through student association forums, carry out various forms of collaboration in certain fields.

By paying attention to these things, online learning will no longer be a problem. Even with the pandemic in this global era, students as learners can enjoy the freedom to learn and collaborate.

Self-motivation that life is a competition needs to be the mindset of learners. Those who are unable to utilize technology will become victims of information. In order to be able to take advantage of it, a learner needs to have the will to try lots of positive things from the available technology. Hopefully the goals you have set within yourself can be achieved, whatever learning system you use.

In the midst of current technological advances, we can do everything using a tool called a gadget or better known as a cellphone. Helping make it easier to communicate, do work and find entertainment, making gadgets a tool that is very popular and important to have to make human life easier.

This convenience causes us to use gadgets more than to interact with the surrounding environment. Excessive use of gadgets can have a negative impact on the body, for example exposure to gadget light is very dangerous for our eye health. Negative Impacts of Excessive Gadget Exposure Some of the negative impacts of exposure to PCs, laptops or gadgets that are used for too long for us, include:















(Humanities, Management and Science Proceedings)

- Headache
- Soreness in the area around the eyebrows, temples, forehead or neck.
- Blurred vision, tired eyes and double/shadowy vision
- Back pain due to sitting position
- Buttocks are hot and uncomfortable
- Feet tingling and sometimes cramps due to standing still for too long

Even though using gadgets can help make work easier, we must still maintain our physical health. One way is to reduce the time you use your PC/laptop and gadgets, you can also rest or stretch between uses to get your body back in shape.

Continue to apply Clean and Healthy Living Behavior, and immediately go to the doctor if you experience symptoms of illness due to exposure to the gadgets mentioned above, so that you can immediately get appropriate and fast treatment..

CONCLUSIONS

It is hoped that online lectures will be present in the midst of society. With current developments, online lectures are increasingly expected to be a solution in accelerating the increase in the level of public education to make it easier for people to study without being limited to age, location, time, place and current activities. taking place.

Marshal Suryadarma Aerospace University is one of the educational institutions that contributes to the intelligent life of Indonesian society in general and for workers/employees who want to improve their knowledge, upskilling and career or social status in particular.

The increase in technology has had a very significant impact in today's society, with the existence of PC, Laptop and Gadget technology, it has made it easier to carry out online education, with this convenience students will no longer experience problems in conveying information both in real time and in delay time.

Software that supports online learning such as Spada, Moody, G Meet, MS Teams, etc. is partly a forum for interaction between teachers and students. With software that is easy to use and does not require large data transmission, it will speed up the delivery of good information to teachers and students.

However, K3 safety aspects must be considered considering that online activities also require effort in terms of time, place, age and simultaneous activities. With K3 safety management, both individual students and teachers can maintain each other's fitness and health in receiving knowledge and conveying it. ideas to support the continuity of learning.

One aspect of Safety K3 in learning is how teachers and students maintain work health and safety when driving, in this aspect safety driving must be required where someone will lose focus when driving plus other activities, such as looking and hearing instead of the car object. , think instead of focusing on driving, etc.

Carrying out online teaching and learning activities by implementing a safety area, ensuring that students are in a comfortable zone to follow the lecturer's presentation, not working or taking part in other activities (simultaneous activities) which will interfere with concentration and focus on the learning material.

A system is designed where students are not always present online in real time but are provided with a system where there is recodable video and audio, when students cannot follow in real time at least students can still follow the material on recordings available both on the web and in gadget software. Implementing a synchronous and asynchronous system, namely one where students can attend lectures in real time, but there is also a program that will broadcast rebroadcasts of the learning at certain times so that if there are students who are unable to attend, they can play back lecture activities that have been recorded or discussed in real time. which has been saved in the program.

Flexibility Among the many benefits of an online learning, you'll find virtual classrooms are great for people who are advancing their education while working. In a traditional classroom, lectures will be scheduled at a specific time of day and your schedule will be formed around the availability of classes. If you're currently employed and courses aren't available after your working hours, it can be difficult to juggle a course load in addition to













your work duties. When attending a virtual campus, online learning allows for far more autonomy in deciding your own schedule. That means you can study whenever it's convenient for you. Live with some noisy roommates? Having more control over your schedule also means you can avoid distractions easier.

Reduced Costs Education can be expensive, but virtual learning can provide a number of ways for students to save. Not having to commute to campus can help you save on transportation costs. Every year, the average student spends more than a thousand dollars on textbooks and course materials. Virtual coursework often takes advantage of virtual resources, which translates into less money spent on textbooks. Tuition costs can also vary between online and on-campus programs. For instance, at Drexel University, students enrolled in online programs in the School of Education receive a 25% discount off the price of regular tuition. Most online programs offered by the school are also financial aid eligible. Between all these sources of savings, cost-cutting can be an enormous benefit of online classes.

More Free Time Because your schedule isn't dictated by classes, you can spend more time doing the things you want. Plus, in addition to saving money, not having to commute also means saving time because you don't need to travel to-and-from campus. That extra time can be used in any way you want, such as focusing on your career or spending time with your family. All you need is a digital device and an internet connection, and you have access to the necessary tools to further your education and earn your degree on your own time.

Increased Course Variety Another reason why online school is better for some is the increased variety of education options. Since students are not required to travel to campus for courses schedule on specific days and times, students can enroll in the courses they are most interested in. There's no need to rearrange schedules, students in an online program can take the course they want and complete the coursework at a time that is most convenient for them. Through online courses, students can gain the knowledge they need to earn their degree or grow in their profession. Online courses allow you to earn essentially the same range of different degrees that can be earned from a traditional educational environment. That includes learning certificates and professional certifications to master's degrees or doctoral degrees.

Career Advancement Opportunities Just like courses taken in a traditional classroom setting, virtual learning can provide you with a number of career advancement opportunities. Because you're the master of your own schedule, students of virtual learning are better prepared to continue working while pursuing academic credentials. And for students who aren't employed, academic work can serve to explain any discontinuity or gaps in a resume. In either case, the advantages of virtual learning can be clearly seen on a resume.

Increased Collaboration Online students have better opportunities to collaborate with classmates through virtual group work and meetings. One of the benefits of online courses are the message boards and grouping tools that allow students to post their feedback on readings and other assignments and respond to their classmates. Students may also receive more one-on-one time with their professor with virtual learning, which is beneficial for both learning and networking. Students can communicate director with their professor and upload assignments for review.

Personalized Education Students who find their focus suffers from classroom activity may benefit from online classes. Students who aren't as assertive may have better opportunities to participate in class discussions when communicating online. Working from your own choice of environment, with self-paced learning, the result can be a more personalized learning experience. In online courses, students to choose the time that works best for them to complete readings and assignments. Since the coursework is online, courses can be completed anywhere there is an internet connection.

Enhanced Time Management Skills While the benefits of online learning include the flexibility to complete assignments at a time that is most convenient to the student, the student still needs to manage their time wisely to ensure they complete their assignments by the deadlines set by the professor. Online courses teach students how to manage their time





better since the student bears the responsibility of engaging with the course instead of simply showing up to class on an assigned day and time. As a result, students not only gain knowledge from the coursework, but they also sharpen their time management skills.

Immediate Feedback Integrating coursework with technology provides a number of advantages. Rather than waiting days or weeks after exams, you can often get immediate feedback. In online courses, students upload assignments digitally for review by their professor. Professors review student work online and submit feedback electronically. As a result, students receive feedback right away. In a traditional classroom setting, students may need to wait a week or two to receive feedback on their assignments. By receiving feedback sooner, students can learn faster and make adjustments for future assignments.

Repeated Access to Course Materials Where a traditional lecturing leaves you at the mercy of your best note-taking skills, video presentations can be watched and revisited as necessary. If a student didn't quite understand some of the content covered in a video lecture, they can go back and listen to it again. Students can use lecture videos as a supplemental tool to help with competing assignments.

Our society is a network society; that is, a society constructed around personal and organizational networks powered by digital networks and communicated by the Internet. And because networks are global and know no boundaries, the network society is a global network society. This historically specific social structure resulted from the interaction between the emerging technological paradigm based on the digital revolution and some major sociocultural changes. A primary dimension of these changes is what has been labeled the rise of the Me-centered society, or, in sociological terms, the process of individuation, the decline of community understood in terms of space, work, family, and ascription in general. This is not the end of community, and not the end of place-based interaction, but there is a shift toward the reconstruction of social relationships, including strong cultural and personal ties that could be considered a form of community, on the basis of individual interests, values, and projects.

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