ISSN: 2008-8019 Vol 12, Issue 02, 2021



# An Empirical Study On Shift Of Lecturers Attitude (Lectures Of Higher Education) During Online Classes In Chennai, Tn.

#### DR. D UNIKA

Associate Professor and Head PG and Research Department of Commerce Patrician College of Arts & Science, Chennai,

Email: unikadavid2014@gmail.com,9840379196

Abstract: This study examines the shift of lecturers' attitudes during online class, whichis the contemporary teaching method of post-covid19 era. Measuring attitude and effort to shift in attitude towards technology is fundamental in effecting any changes through expertise. This study focuses on shift of lectures' attitude towards e-learning and online teaching classes and also to explore the relationship between lecturers' attitudes, online teaching and e-learning process. Online teaching is relatively a new concept in developing countries like India. It has replaced our orthodox traditional education system to the educational technologies (EdTechs) model, where teaching and assessments are conducted online. COVID-19 epidemic has made it mandatory for all the teachers of developing countries to use online platforms for teaching and assessment to support the education sector. Remote teaching and learning conditions through digital channels is possible with latest techniques and technology. The teachers of all discipline need to adapt this technology for the successful execution of online teaching programs and assessments practices. This particular study used a mixed-method and the number of respondents was 52; data collected through online questionnaires framed in Google Form and disseminated through e-mail, Facebook and WhatsApp to the lecturers of higher education in Chennai City. Data was translated into frequency and regression linear. The results showed that 35 lecturers can shift their attitudes toward online classes and remaining 17 lectures have difficulty in shifting to online teaching and prefer traditional classroom methods.

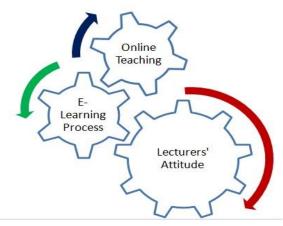
Keywords: Lecturers' attitudes, online classes, and learning process

#### 1. INTRODUCTION

Hutchison, A., & Reinking, D. (2011) accentuates that educationalist must go beyond computer literacy to achieve technological competence, which is successful integration of technology into the classroom. Deborah L. Lowther. (1998) states that the technological competences require an evolution from using the computer as an instructional delivery system to transforming the computer to a learning tool. Shu-Sheng Liaw. (2007) explored the trend of using e-learning as learning and/or teaching tool is now rapidly expanding into education. E-learning is the new wave in learning strategy. Through innovative use of modern technology, e-learning not only revolutionizes education and makes it moreaccessible, it also brings formidable challenges for instructors and learners. Mahdizadeh. H. (2007) cites on E-learning environments and important infrastructural

ISSN: 2008-8019 Vol 12, Issue 02, 2021





features of universities that enablestutors to provide students with unique representations of knowledge and to improve communication between teachers and students, amongst students groups themselves.

Technological change has made life easy, including teaching and learning process. Developments in technology have improvised innovation leading to many emerging methodsthat are implemented in e-learning. The increasinglypopular stage of higher education helps lecturers, students and institutions to develop further, while many of the lecturers are afraid of technology as they are not conversant in using e-learning techniques (Chiasson, Terras, & Smart, 2015).

The problem in India today is the lack infrastructural setup, unpreparedness of lecturers andinstitutions in adapting to virtual teaching and learning environments. Many lecturers do not prefer the e-learning method, as students understand better in physical classrooms while e-learning only sends and receives messages online. Many lecturers do not agree to shift learning from traditional teaching methods to the EdTech models, in spite of educational institutions providing such E-Classroom or virtual classrooms. The previous researches by Chin., et., al (2018) indicated that inteaching online, the lecturer strives to make communication of the precise messagethat has to be conveyed in learning appropriately to students as a whole, besides that when giving constructive feedback, the lecturer as a supporter finds a way topromote positive messages and criticism from students. (De, 2018). Based on the researchers above, the study concluded that teaching an online course is the encouragement and support as the approach to foster positive morals in the classroom and the classopens for convenient hours (24 hours and 7 days) a week, and lecturers can actively build a newknowledge while interacting in the learning environment that is a strength inonline learning. The purpose of the research is to investigate the lecturers'shift in attitudes during online classes and to seek online teaching in the learningprocess.

#### 2. DEFINITION OF TERMS

#### 2.1 Lecturers' Attitudes

According to Bakia, Shear, Toyama, & Lasseter, 2012 the important key for lecturers in teaching is to have adequate knowledge and that must be addressed by the ability and skills of lecturers inpreparing their teaching. Lecturers' attitudes have conceptual teaching frameworks, especially during online teaching, Arkorful & Abaidoo, 2014 states that, unfortunately, few lecturers have complete knowledge about the available tools, especially during online teaching. Lecturers' attitudes during online teaching can be seen from their knowledge, especially in teaching. Lecturers' knowledge during online teaching is a

ISSN: 2008-8019 Vol 12, Issue 02, 2021



confidence of belief that can replace traditional teaching knowledge to online teaching where the lecturers' attitudes are reflected on "the true belief' and definesknowledge as a vibrant human process that justifies personal belief in thetruth. Dalkir, 2005states that lecturers believe that to produce innovation, it is essential to create and learn visual knowledge so that the understanding becomesnew knowledge and spreads and is comprehended in learning The lecturers need not depend on textbookswhile teaching online. Also, the adaptation of information and communication technology will amplify accessto resources. Technologies such as interactive web applications, tend to pushlecturers toward fundamentally different teaching (Mählck& Chapman, 20014). Lecturers must have specific knowledge about technology and merge it withexisting academic content (Hutchison & Reinking, 2011). Many lecturers neglect their inability to adapt the online teaching methods, rather theyprefer teaching in front of the class, using textbooks (Kebritchi, 2017). Other research Davis, F. D (1989) identified a Lipschutz,&Santiague, closerelationship between technology, skills and AI (artificial intelligence) integration in the classroom. The lack of computers on campus and access to the broadband internet connections, outdated infrastructure, training costs and poor competence are significant obstacles. According to Bray (20017) states that behavior in using e-learning systems has an inverse relationship betweencomputer experience and the use of e-learning. Many lecturers consider the elearningprogram do not meet the studentsneeds due to lack oftechnology integration into teaching. However, the factors that influence thesuccessful implementation of technology and e-learning in the learning process are the attitudes andbeliefs of lecturers towards technology (Alazam, Bakar, Hamzah, a, & Asmiran, 2013). E-learning in a higher educational institutionalor an university environment has pedagogic variations impact similar to face-to-face learning, this implies that very few lecturers conduct online teaching on the same pedagogic basis, or the same technological and do have a strict discipline and hightechnological acquaintance (Bakia, Shear, Toyama, & Lasseter, 2012).

## 2.2 Online Teaching

Surveys by Gallup and Inside Higher Ed in 2014 on faculty attitudes towardsonline learning reported the following findings among faculty members and higher educational institute's administrators. Facultiesteaching online course are more optimisticabout the quality of online learning than are their counterparts whohave never tried doing such exercise. Faculty teaching online course is likelier than their peers who have never done so, strongly agree to the fact that online courses can achieve student learning outcomes which will be equivalent to physical classroom courses at any institution. The report also found that those who have experienced teaching online, and presumably were trained to do so, have quite different attitudes that those whohave not. Recent insights suggest that evolution of online teaching and learning at higher education institutions is still underway. Additionally, the importance of training faculty is the key to success of online educational programs. But it is still mysterious that which parts of training is more importantin building effective online classes and institutional programs

Infrastructure and hardware plays vital role in online teaching; online teaching will run smoothlyifinfrastructure and training are provided (Mardiana H.2018). During online learning, synchronize and asynchronous syllabus canbe shown by instructors who can motivate students. According to Partlow &Gibbs (2003) online teaching was designed from constructivistprinciples that were relevant, interactive, project-based and collaborative andcreate controlled environment for students learning. Besides Perveen(2016) simultaneous occurrence e-learning involves interactive active discussions, direct feedback sessions

ISSN: 2008-8019 Vol 12, Issue 02, 2021



andthere is familiarity in learning interactions. Therefore, the involvement in classroom carries over to e-learning and it is more dynamic than throughmultimedia with no time gaps. The discussions were lively and questions wereanswered immediately straight away. The speed and closeness of simultaneous online learning generates the same level of accountability and involvement asclassroom attendance, so ideas that emerge can compete and complement eachother in real time and tight schedule than good infrastructure of technology, allows students to enter learning whenever they download documentsor send messages to lecturers or classmates. Contribution by other participants in the online classes with additional questions or answers and suggestions and solutions, activating collaboration and connection in learning is justified (De, 2018).

## 2.3 Electronic learning or e-learning

Computer enhancedlearning is Electronic learning or e-learning is an all-encompassing term generally referred bythe generation Z. It is often extended to include the use of Smart mobile phone technologies, web based applications and interactive artificial intelligence technology. Italso include the use of web-based teaching materials and hypermedia in general, multimedia or websites, discussion boards, collaborative software, e-mail, blogs, wifis, text chat, computer aided assessment, educational animation, simulations, games, learning management software, with possibly a combination of differentmethods being updated and used. The term e-learning technology in educational technology is generally used to refer to implementation of technology in learning, much broader sense the computer-based training or computer aided instruction of the 1980s. It is also broader than the terms Online Learning or Online Educationwhich generally refer to purely virtual web-based learning, where mobile technologies using the term "webinar" has become more common in recent times.

#### 2.4 Higher Education

Higher Education is the edifice, which rises on the foundation laid down by the School Education. The realm of Higher Education comprises the study of language, Arts, Science, Engineering and Technology leading to graduate, post graduates, and research degrees in one's chosen field of study. The higher education system in our country included both private and public universities. Generally a public university is being supported by Central and the state governments, while private universities are supported by various autonomous bodies and societies. Universities are the mainstay of higher education, as they are the institutions responsible for imparting the advanced and higher education among the youth in any country. After finishing schools, the final steps that helps students gear-up for a career of their capabilities, upon completing their higher education degrees and pass out of the college to get placed in appropriate jobs. Mostlyindividual seek higher education to improve their job prospects and social status. Few othersgo for self-improvement, development of character and for the sake of knowledge. Highereducation supports individuals to face the real world in a rational way, get broader vision toperceive the facts of life. The dawn of new and advanced information and communication technologies is being applied in the context of Higher Education. Students of Higher Education deserve enriched content, interaction with the faculty and if possible with fellow learnerswho can achieved through modern communication technologies.

## 3. OBJECTIVES OF THE STUDY

1. To find out the relationship between lecturers' attitudes and the e-learning process.

ISSN: 2008-8019 Vol 12, Issue 02, 2021



2. To find out the relationship between online teaching and the e-learning process.

**3.** To find out the relationship between lecturers' attitudes towards online teaching, and predicting the best Online Classesprocess.

## 4. HYPOTHESIS OF THE STUDY

- H1. There exists a significant relationship between the frequency-independent variable of lecturers' attitudes and the e-learning process.
- H2. There exists a significant relationship between the frequency-independent variable of online teaching and the e-learning process.
- H3. There exists a significant relationship between the lecturers' attitudes towards online teaching, predicting the best online-classesprocess.

#### 5. METHODOLOGY

In order to collect data for the present study the researcher administered the tools to the lecturers workingin colleges of engineering and technology and university departments. The researcher has used a quantitative method, mixed with a semi-structured qualitative interview technique, by investigating the relationship between variables (Cresswell, 2014). The number of respondents was 52 and data collection was done virtually. Questionnaires were designed in Google Form and disseminated through E-mail, Facebook and Whats App. A semi-structured qualitative interview was conducted among 15 lecturers during the months of May 2021-Junen 2021 on predicting the best online class process. To collect data on the independent variables the researcher used two questions in particular, exploring the dimensions of lecturers' attitudes towards the technological change and the lecturers' attitude towards online teaching.

### 6. DATA ANALYSIS

The research used five questions in each dimension that were analyzed using frequency and regression lineartest for obtaining statistical significance of the relationshipbetween lecturers' attitudes towards online teaching and the e-learning process. First, the reliability and the correlation of data are to be obtained.

To analyze the data, reliability of dataand correlation between them has to be derived. Table 1 shows the reliability and correlation between the lecturers' attitudes, online teaching, and the e-learning process.

Table 1.

Reliability and Correlations of Lecturers'

Attitudes and Online Teaching in the Online Learning Process

No.	Variables	Reliability	Correlation		
			Lecturers'	Online	E-Learning
			Attitudes	Teaching	Process
1.	Lecturers'	0.700	1	0.650	0.897
	Attitudes				
2.	Online	0.749	0.650	1	0.919
	Teaching				
3.	E-Learning (online)	0.897	0.897	0.919	1

ISSN: 2008-8019 Vol 12, Issue 02, 2021



Process		

From the table 1 data, the reliability of questionnaires shows that lecturers' attitudes are 0.700. This proves that the reliability is strong, while thereliability of questionnaires of online teaching shows 0.749 and it is strong too. While the lecturers' attitudes and online teaching is in the learning process, thereliability of questionnaires results 0.919, which proves to be significantly strong. The correlation analysis among lecturers' attitudes and online teaching is moderate 0.650, but for the lecturers' attitudes to the e-learning process results in 0.897 is quite stronger. From data analysis, questionnaires of reliability and correlation prove that the data is valid.

## 7. FINDINGS AND RESULTS

Here are the finding and results of the research. The frequency for each of the items as per the dimension of data is calculated below. The table also describes the research findingsof the frequency of lecturers' attitudes, online teaching and the frequency during e-learning process.

**Table 2.**Frequency of Lecturers' Attitudes,
Online Teaching in the E-learning process

Variables	Means	SD	Freq.	(%)		
Frequency of Lecturers Attitude						
Digital Literacy	3.63	0.558	35	67.3		
Lecturers' partnership	3.60	0.616	34	65.8		
Lecturers' on-time	3.58	0.623	30	62.5		
Lecturers' Beliefs	3.51	0.623	30	57.7		
Lecturers' Spirits	3.38	0.728	27	51.9		
Frequency of Online Teaching						
Interactive in teaching	3.67	0.530	37	70.2		
Technical Knowledge	3.63	0.525	33	64.4		
Queries and Comments	3.50	0.639	29	55.8		
Lecturers' preparedness	3.45	0.681	28	54.8		
Lecturers' Training	3.39	0.716	27	51.9		
Frequency During E-learning Process						
Lecturer's Attitude	16.70	1.576	35	67.31		
Online Teaching	16.64	1.672	37	70.19		
Source: Data Process						

From the table 2data analysis, the frequency of lecturers'attitudes in the e-learning processshows that "digital literacy" component sits in the highest frequency (35 participants or 67.3%) and frequency of online teaching, "interactive in teaching" occupies the highest (37 participants or 70.2%). In the virtual interview, most of the lecturers felt happy when the interaction between lecturers and students, also the interaction and describing the material. Most of the lecturers were able to deliver thematerial through voice messages. Alamsyah, A. (2018) states that the learningprocess is a relatively permanent change from behavioral learning because thepractice is strengthened and the learning process is carried out in differences in students' experiences and thoughts which will lead to difference in attitudes.

ISSN: 2008-8019 Vol 12, Issue 02, 2021



Also, the NSW report (2020) indicates that lecturers with digital literacyabilities can design teaching materials themselves online. Such study materials being interactive with students to question and make comments as well.

The analysis shows the second highest frequency of lecturers' attitudes in the elearningprocess is "lecturers' partnership" with the other departments of the institutions (34 participants or 65.8%). The secondhighest frequency of online teaching is "online knowledgebase" (33participants or 64.4%). The lecturers can collaborate with lecturers of several other departments though they teach different subject, this will pave way for broad knowledge sharing. Through successfully partnering with the others departments, lecturers can conduct the learning process, with the same level of efficiency, knowledge, ability, and skills (Caskey & Carpenter, 2014).

According to Hajric, 2018; Dalkir, 2005, online knowledge provides updated information, services and swift sharing of information. However, in analyzing the existing problems in learning, lecturers will have to understand suitablyas it requires a great effort in the learning process, such that learning products provided must address the pedagogical approachand altered if needed

Third highest frequency in the analysis of lecturers' attitudes in the e-learning process is "lecturers' punctuality" or keeping up the time (30 participants or 62.5%). The third highest frequency of online teaching is "queries and comment" (29 participants or 55.8%). To be effective in teaching, lecturers follow time management practices and set priorities, organize the day, prioritize tasks (Darby, 2017). Setting priorities can eventually help to stay on track throughout the day, and avoid unexpected workload. The interview results, is very interesting: lecturers who are on-time will becomequalified lecturers. To manage class periods, and to complete the class on time, they can setpriorities. Crisis in terms of to lecturer' behavior will have an effect onstudent learning outcomes and that will lead to new types of crisis (Bakia, Shear, Toyama, & Lasseter, 2012). When there are potential questions from students, it mustbe utilized. According to Graesser and Person (1994), students will raise severalqueries in search of developing their knowledge. If students raise few questions, thenthe lecturer will have to check whether students have understood the lesson. Usually, studentsdo not ask questions but the encouragement of lecturers will make studentsto raise quality thinking or cognitive questions (White & Gunstone, 1992); (Chin& Osborne, 2018) with questions that are factual, procedural or outside ofhuman thought.

Fourth highest frequency of lecturers' attitudes in the e-learningprocess is "lecturers' beliefs" (30 participants or 57.7%), and the fourth highestfrequency of online teaching in the e-learning process is "lecturers preparedness" (28 participants or 54.7%). Belief focuses on instruction in presenting teaching, and as a form of belief that aims to teach and can streamline students in a beliefsystem that consists of great confidence based on evidence and reasonRichardson, 1996). The lecturer helps students to change their beliefs, progress the learning process and help students by identifying the value of their beliefs related to teaching (Mardiana& Daniels, 2019). Furthermore, the lecturers' must-have preparednessin online knowledge and skills in using latest technology. For online learning, institutions must strengthen on the training programs and the online learning infrastructure. There is a big significant difference among lecturers who have the awareness toteach online. The reflection of lecturers who keep constantly updating themselves and being prepare inteaching will have great control and can create a good learning ambience to achieve thefull learning objectives (Paolini, 2015).

The fifth frequency of lecturers' attitudes in the learning process is "lecturers' spirits" (27 participants or 51.9%) and the same in "lecturers' training" is (27 participants or 51.9%). The

ISSN: 2008-8019 Vol 12, Issue 02, 2021



interview results from thelecturers on their spirit to teach the students reflects theenthusiasm of spirit in teaching is to help students who do not understandanything. Making students independent is the pride oflecturers'; students can be independent with the guidance from lecturers, is a proud feeling. Lecturers will continue to teach even after their retirement from teaching profession. According to Slavin, R.E. (1991) thespirit of learning is the tendency of a high heart to obtain information, knowledge, skills through the effort of teaching or experience and Hardjana (1994) stated that the spirit of learning and teaching is the spirit toprovide time, energy, effort to absorb and organize information, knowledge, and skills received through various means.

The last frequency is lecturers on the online learning process (35participants or 67.31%). During the interview with the lectures, most of the respondents are ready to move from traditional teaching to online teaching. According to Redmond (2011) changes in teaching withtechnology will bring educationalist under pressure, therefore they can establish technologicalknowledge into online teaching, making them capable and skilled online teaching. Mardiana Daniels, 2019 stated that, teachingsimulations can challenge students, make them involve in online-based activities that require development of lecturer and student skills, teachingtools on the Internet will empower, sharpen abilities and skills.

Among the 52 lecturers of higher education, 35 lecturers wish to change towards online classes and e-learningwhile 17 lecturers face difficult situations in using e-learning technology and preferred traditionallearning. The lecturers prefer to persist teaching for their careers and they have enough training for e-learning, they have also adapted to teaching online learning courses to sustain their employment with the institution. In online teaching, it is shown that 31 lecturers have moved to onlineteaching, and 21 lecturers are still trying to learn the new technology that will enable them with required ability and skill for teaching online. Almost alllecturers who have difficulty in online teaching do not move quickly to adopt the technology. Bray (2007) and Davis (1998) revealed that generally lecturerswho find it difficult to use technology in teaching are lecturers who are technology illiterate, are not skilled and thus make them difficult to change. Most of the lecturers do not have common belief in using technology, rather they prefer physical class room teaching method.

The study also shows the relationship between lecturers' attitudes towards onlineteaching and learning process, predicting the best e-learning (online) process, in below table.

Table 3.

Variable	R	R	F	Sig.
		Squared	Change	Change
Lecturer's	0.818	0.766	502.756	0.000
Attitude –e-				
Learning process				
Online teaching	0.919	0.845	557.349	0.000
<ul><li>e-Learning</li></ul>				
Process				
Lecturer's	0.897	0.802	418.901	0.000
Attitude –Online				
classes				
Source: Data Process				

ISSN: 2008-8019 Vol 12, Issue 02, 2021



Descriptive statistical relationship is depicted in thetable 3, explaining the relationship between Lecturers' attitudestowards online teaching in the learning process with value R is 0.818indicates to predict the learning process, and R Squared measuresthe proportion of the variable of lecturers' attitudes and learning process whichis shown 0.766. It means that the proposition of lecturers' attitudes in thelearning process is 76.7% and remaining 23.4% does not include in this research. F-Change shows 502.756>0.05 (James, G.,2013). This can be the answer to the research hypothesis H1. Therefore it is concluded that in lecturers' attitudes and learning process H1 is accepted and H0 is rejected.

It is proven that the relationship between online teaching and learning process is 0.919 and RSquared is 0.845. This indicates that the relationship between online teachingand learning process is 84.5% and remaining 15.5% does not include in this research. For F-Change shown here 557.349>0.05 is greater. Therefore H2 is answered and the conclusion is there exists a significant relationship between online teaching and learning process, obviously Ho is rejected.

The results demonstrate that the relationship among lecturers' attitudes and online classes teaching are shown R is 0.897 and R Squared is 0.802. This indicates that relationship among lecturers' attitudes, online Classes process is 80.2% and remaining 19.8% do not include in this research. The F-Change value shown here under this category is 218.901>0.05. The H3 is answered and it can be concluded that there is significant relationship between lecturers' attitudes, online classes process, therefore Ho is rejected.

## 8. RESULTS & DISCUSSION

Attitude plays animperative role in utilizing technology as a strong tool for a positive change. There must be programs at higher educational institutions which may focus on developing a positive attitude among faculty members towards e-learning and information and communication technology.

Lecturers' attitude is listed as an important component in thelearning revolution which triggers the beliefs and values of lecturers to be more active in teaching (Mardiana & Daniels, 2019). Shift of Lecture's attitudes play major role in teaching andlearning process in identifying and molding a students' future. The most important thing in education is to focus on students, maximize teaching resources and proper utilization of time. From the frequency of the lecturer's online learning process, 35 lecturers fromlecturers' attitudes and 17 lecturers from online teaching (online classes) are eager to improve their attitudes and abilities and skills. This shows that almost 80% of the lecturers are eager to shift their attitudes. These changes can be predicted as a sign of how much the changescan occur from beliefs, strong desires to shift the knowledge base, abilities and skills gained through experience, training and expertise of the lecturer (Kneale, 2009). While 17 lecturers from lecturers' attitudes and 13 lecturers from online teaching are having difficulty to change the face-to-faceteaching into online teaching. The interview results reflect the facts such as, afraid of technology, technologically illiterate, long time to learn, shifting in attitude is a problem. Besides, they also do not possess astrong belief to change even though the change has been imposed through training and increasing knowledge (Hajric, 2018, Dalkir, 2005).

In online learning, lecturers enter the realm of constant learning phase, in the real world through multimedia, video, and interactivity. Hence, lecturers can effectively employ the power oftechnology in online learning (Hajric, 2018). In the interviews, many lecturers stated

ISSN: 2008-8019 Vol 12, Issue 02, 2021



that their campus lack in infrastructure, inadequate access to e-learning, teaching expertise being unutilized by the campus and students. Teachers who possess knowledge about computer are having favorable attitude towards e-learning. Therefore the benefits of infrastructure should be accompanied along with the ability of lecturers to teach and understand digital literacy to cope up with the online curriculum construction (Caskey & Carpenter, 2014). In particular contexts and small-classsizes, synchronization can be done and very well supported by adequate web based technology. The positive effect is immediately felt by students and lecturersafter completing e-learning because of using a synchronous learning approach.

Besides, online classes is increasingly in demand by all the institutions, especially during this post-pandemic situation because of the flexibility in schedule, cost-effectiveness ofeducation and learning opportunities, distanceteaching enabling lecturers and students to access the elearning platform. Besides, training to lecturers'on online teaching must be improvised so thatlecturers are more conversant in teaching. Thequickening of learning depends on the learner who offers the opportunity at the same time learning with minimal costs is an effective methodology.

## 9. CONCLUSION

Education is entering a new era; the era of remote teaching and learning process, especially to mark the new normal of post pandemic situation, no other reason can be appropriate for shifting to the online classes. Right from the primary educational institutions to the higher educational institutions and universities are getting adapted to this new normal. Onlineeducation makes sense these days in sharpening technological skills new web based applications, enabling lecturers to teach intertiary institutions, do their learning wherever they are, either from far-off places that are not relevant for teaching, but the lecturers can still continue teaching.

However, lecturers need to plan effective integration of online classes asoften as possible. Posting prior announcements, providing further explanation, and providing tips on upcoming assignments and reply to online discussion posts are important in answering student questions. Therefore, when teaching directlylecturers need not expect students to continue without regular guidance, because the involvement of faculty and campus will apply on the Internet.

Teachers who possess knowledge about computer are having favorable shift in attitudes towards e-learning. Teachers having blogs differ significantly in their attitude towards e-learning from those who do not have blogs. The following conclusions favor the above mentioned findings: Kayteo`neill (2004) found that the inference of e-learning on lecturers and students are extensive; and that the e-learning concept can help deliver innovative teaching and learning practices and develop thework force. Sarah Golden, 2006 observed in her study that lecturers were positive and proactive in their attitude towards the role of e-learning in supporting their teaching practice. Pei-Chen Sun A, 2007 opines that the teachers' attitude towards e-learning is one of the critical factors affecting the learners' perceived satisfaction level. Shu Sheng Liew, 2007 found in his study that the instructors have a very positive perception towards using e-learning as a teaching assisted tool for online classes.

The shifting in attitude is more in the case of lecturers who have net access both at home and in the institution. The attitude shift is fluent in the case of lecturers those who have knowledge in computer and using smart phones.

ISSN: 2008-8019 Vol 12, Issue 02, 2021



In near future, provided if lecturers have mastered the technology, online teaching and online learning will be fun and students can do quality learning justas we do in the physical class rooms. Focusing the online teaching knowledge, lecturers are compelled to know and deepen the technology that is the 21st-century' teachingreference. The ability, skills and expertise of lecturers are to automateteachings methods, teaching materials and procuring assessment digitally, to track student progress through reporting tools and analytic platforms that are created bythe institutional management. Moreover, student progress can be demonstrated in real-time tracking. Students can empower themselves through digital technology and can also gobeyond functional and relevant exploration of learning.

#### 10. REFERENCES

- [1] Arkorful, V., & Abaidoo, N. (2014, December). The role of e-learning, the advantages and disadvantages of its adoption in Higher Education. *International Journal of Education and Research*, 2(12), 397-410. Retrieved from <a href="https://www.ijern.com/journal/2014/December-2014/34.pdf">https://www.ijern.com/journal/2014/December-2014/34.pdf</a>
- [2] Bakia, M., Shear, L., Toyama, Y., & Lasseter, A. (2012). Understanding the Implications of Online Learning for Educational Productivity. US Department of Education, Office of Educational Technology. Washington, DC: Center for Technology in Learning SRI International. Retrieved from <a href="https://tech.ed.gov/files/2013/10/implications-onlinelearning.pdf">https://tech.ed.gov/files/2013/10/implications-onlinelearning.pdf</a>
- [3] Bray, D. A. (2007). Being a Systems Innovator. In R. T. Watson, *Information Systems* (pp. 4-15). Idaho, Idaho State, USA: Global Text Project. Retrieved from http://www.uky.edu/~gmswan3/777/IS\_Book.pdf
- [4] Chiasson, K., Terras, K., & Smart, K. (2015). Faculty Perceptions Of Moving A Face-To-Face Course To Online Instruction. *Journal of College Teaching & Learning Third Quarter*, 231-240. Retrieved from https://files.eric.ed.gov/fulltext/EJ1067275.pdf
- [5] Chin, C., & Osborne, J. (2018, March). Students' questions: a potential resource for teaching and learning science. *Studies in Science Education*, 4(1), 1-39. doi:10.1080/03057260701828101
- [6] Caskey, M. M., & Carpenter, J. (2014, October). Building Teacher Collaboration School-wide. (A. Magazine, Producer) Retrieved from Association for Middle Level Education (AMLE): https://www.amle.org/BrowsebyTopic/WhatsNew/WNDet/TabId/270/ArtMID/888/ArticleID/446/Building-Teacher-Collaboration-Schoolwide.aspx
- [7] Cresswell, J. W. (2014). Research Design: Qualitative, Quantitative and Mixed Method Approaches (4th Edition ed.). (V. Knight, Ed.) Thousand Oak, California, USA: SAGE Publication, Inc. Retrieved January 31, 2020, from <a href="http://fe.unj.ac.id/wpcontent/uploads/2019/08/Research-Design\_Qualitative-Quantitative-quantitativ
- [8] Darby, F. (2017). *How to Be a Better Online Teacher Advice Guide*. (J. M. Lang, Editor, & D. S. Chronicle, Producer) Retrieved from The Chronicle of Higher Education: https://www.chronicle.com/interactives/advice-online-teaching
- [9] Dalkir, K. (2005). Knowledge Management in Theory and Practice.
- [ 10] De, B. (2018, February 4). *Traditional Learning Vs. Online Learning*. Retrieved from Learning Industry: https://elearningindustry.com/traditional-learning-vs-online-learning

ISSN: 2008-8019 Vol 12, Issue 02, 2021



- [11] Deborah, L. Lowther., Tempa, Bassoppo-moyo., & Gary, R. Morrison. (1998), "Moving from Computer Literate to Technology Competent: The next educational reform", *Computers in Human Behaviour*, 14(1), 93-109.
- [12] Deepak, K., Srivastava. (2005), "e-learning: A New way of Education", *University News*, 43(26), 12-15.
- [ 13] Edwards, A. L. (1960), *Experimental Designs in Psychological Research*, New York: Henry Holt and Co.
- [ 14] Gefen, D., Straub, D.W. (1997), "Gender differences in the perception and use of e-mail: An extension to the technology acceptance model", *MIS Quarterly*, 21(4), 389–400.
- [15] Hajric, E. (2018). Knowledge Management System and Practices A Theoretical and Practical Guide for Knowledge Management in Your Organization. Jacksonville, Florida, USA: Helpjuice.
- [16] Hutchison, A., & Reinking, D. (2011). Teachres' Perception of Integrating Information and Communication Technologies into Literacy
- [17] Hrastinski, S. (2008, November 18). *Asynchronous and Synchronous ELearning*. Retrieved from EDUCAUSE REVIEW: https://er.educause.edu/articles/2008/11/asynchronous-andsynchronous-elearning
- [ 18] Hamdan Mubarak Al-Khashab. (2007), "Attitudes towards e-learning: An Empirical Study in Kuwait", *Dissertation*, Masters of Business Administration (MBA) of the Maastricht School of Management (MSM), Maastricht, the Netherlands).
- [19] Kayte O'Neill., Gurmak Singh and John O'Donoghue. (2004), "Implementing eLearning Programmes for Higher Education: A Review of the Literature", *Journal of Information Technology Education*, 3, 313-323.
- [20] Liaw, S. S., & Huang, H. M. (2003), "An investigation of users attitudes toward search engines as an information retrieval tool", *Computers in Human Behavior*, 19(6), 751–765.
- [21] Mahdizadah, H., Harm, Biemans., & Martin Mulder. (2008), "Determining factors of the use of e-learning environments by University teachers", *Computers & Education*, 51(1), 142-154.
- [22] Murahari B., Kumar V.V. (2008), "New Technologies for Teaching and Learning in the Information Age", University News, 46(40), 1-8.
- [23] Norah jones., & John o'shea. (2004), "Challenging hierarchies: The impact of elearning", *Higher Education*, 48(3), 379–395.
- [24] Pei-Chen Sun., Ray J. Tsai., Glenn Finger., Yueh-Yang Chen & Dowming Yeh. (2007), "What drives a successful e-Learning? An empirical investigation of the critical factors influencing learner satisfaction", *Computers & Education*, 50(4), 1183-1202.
- [25] Shu-Sheng Liaw., Hsiu-Mei Huang &Gwo-Dong Chen. (2007), "Surveying instructor and learner's attitude towards e-learning", *Computers & Education*, 49(4), 1066–1080.
- [26] Szajna, B. (1996), "Empirical evaluation of the revised technology acceptance model", *Management & Science*, 42(1), 85–92.
- [ 27] Taylor, S., & Todd, P. A. (1995), "Understanding information technology usage: A test of competing models", *Information Systems Research*, 6(2), 144–176.
- [28] Mardiana, H., & Daniels, H. K. (2019, October). Technological Determinism,
- [29] Mardiana, H., & Daniels, H. K. (2019, March). The Role of Rationality and Technological Change in Learning Process. *Indonesia Journal of Learning Education and Counseling*, *I*(2), 151-158. doi:10.31960/ijolec.vli2.64

ISSN: 2008-8019 Vol 12, Issue 02, 2021



[30] New Literacies and Learning Process And The Impact Towards Future Learning. Journal of Educational Science and Technology, 5(3), 219-229. doi:10.26858/est.v5i3.8662

[31] Paolini, A. (2015). Enhancing Teaching Effectiveness and Student Learning Outcomes. *The Journal of Effective Teaching - an online journal devoted to teaching excellence,* 15(1), 20-33. Retrieved from https://files.eric.ed.gov/fulltext/EJ1060429.pdf