

RESEARCH

Role of Technology in Language Learning

- M.G.Sudhir



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ROLE OF TECHNOLOGY IN LANGUAGE LEARNING

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This research project was done and submitted to University Of Madras, Chennai

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Abstract

In this project, I explained the role of technology in education and detailed the use of major tools in language learning. In the introduction chapter, I detailed the history of the development of technology into the classroom and its role in the development of language learning. In this chapter, I explained technological involvement in students and teacher's daily life. In the second chapter, I explained CALL, its uses, and how to use CALL tools. By reading this chapter reader can gain knowledge about using computer-assisted language learning (CALL). In the third chapter, I detailed the use of media, digital media and social media in language learning. So, the reader can gain information about the uses of media in language learning and education. In the fourth chapter, I explained the use of AI in language learning reader can get the different AI using tools in the educational field and how it develops language learning. And finally, in the conclusion, I concluded the use of CALL, Digital media, social media, AI and I debriefed the responses received to me in the digital form, which I shared the form in digital media platforms to get responses. In the end, this thesis reader can gain the maximum knowledge of technological use in language learning and education.

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Chapter-1

Introduction

Technology has always been an important part of the teaching and learning environment. Students tend to show more interest in subjects when technologies are integrated, it provides the opportunities to make the learning fun and enjoyable, it was seen to attract students to learn new things. If a teacher teaches his student through games, quizzes and polls, virtual trips, and other online resources, students can understand and learn better than in non-technological (physical) classrooms. When a student learns on the digital method, it encourages the student to be involved with his studies. In beginning wooden paddles with printed lessons are used to teach students in the colonial period. Then, a slide projector called magic lantern was invented which projected glass-printed slides. In 1880, chalkboard became famous in schools and in 1900 pencil, in 1920, radios began to take air-classes, in 1930, overhead projector, in 1940, ballpoint pen, which makes writing easy for the students, in 1950, headphones, in 1951, videotapes invented and began to give birth to the new era, in 1959, the photocopier was invented, in 1972, modified calculator was invented by seeing these developments we can see the development of technology and hungry of students for development of technology in the learning field.

Technology has changed the role of students and teachers because in the traditional way of learning sources are limited, teachers are the only primary sources to acquire information for the students. By implementing technologies into the physical classrooms helps the students to improve engagement. Students can improve their knowledge retention and learn individually that encourages collaboration and developing life skills. According to Bill Gates (Co-Founder of

Microsoft) “Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is most important .” he tells that technology can only be a tool for the kids to work together and to motivate them but a teacher is the most important person who can mentor them and teach them. At present, students don’t need to wait half to one hour for website loading time. Technology provides access to many resources instantly. Once students are used to taking bulk textbooks to their schools and colleges but now most of the textbooks are available on the internet and can easily be accessed through computers, tablets, and smartphones. The technology eliminates the boring part of the study. Also, a student can be tracked and graded by software, and it also creates collaborative learning. If a student learns through lecture, he can only obtain 20-30 % of information but using technology, a student can obtain 70-80 % of information through the internet. Using technology, a student can obtain many additional skills like learning, writing, communication, and technological skills. Teachers can use technology to collect data about students, materials, books on a single device. Students can work in their comfort zone and technology provides opportunities for the students to improve skills in other or related subjects, it can motivate students to learn more and explore. We can assure that our information is up to date and students can use a search engine like Google, Bing, DuckDuckGo to verify.

Teachers can use technology to study and experiment with the students. They can understand students and knows their ability, they can change the teaching method according to the student's field of interest. As mentioned earlier technology can be helpful for both teachers and students. A teacher can understand a student by analysing him with the digital and technical tools and the student can be encouraged by his teacher to actively participate in the classroom. Every student has his own mindset, hobby, learning, and his own abilities, and we cannot expect all students will learn in the same way.

If students use technologies to learn, it provides great opportunities for the students to learn effectively, for every student with different needs and different abilities. Technology can provide more support and opportunities for the students who struggle to learn. Technologies will be more helpful for physically challenged students. Students who have access to the internet have access to a broad range of resources, with the help of the internet and technological devices students can practice collaboration skills like collaborating with other classes or other intuitions around the world. Implement of technologies in classrooms will help to develop both teacher's and student's skills. At present, learning is about collaborating with other skills, and every student must know any of the technical skills to survey. Teachers can also use technologies to read their students and they can prepare with countless online sources. Blended language learning is easy if a student can't attend the physical class.

With the evolution of technology in language learning, we can see the domination of technology in everything.

The Covid-19 Pandemic showed us that development in the learning process is possible even when we are not able to present in the physical class. It was proved that we can learn, teach classes online, write exams and tests in the software. Teachers can send assignments and materials through google classrooms, mails. We can't tell that digital and technical method in learning is not possible if we take the survey the result will show that students and teachers use mobile phones, tablets, laptop, PCs, and television. Even when many students couldn't these facilities they can afford a radio and TV the government initiated television programs for those students who can't afford mobile phones and other digital devices. By using technology teachers can teach physically challenged students by projecting sign languages and by audio clips. This development helps the EFL (English as a Foreign Language) students to improve their English language skills by using

language labs, listening to English movies, series, etc. Technological development in Foreign language learning was very revolutionary, most teachers and learners know how to use or operate the technical devices. Nowadays it's rare to find a language class that doesn't use some form of technology. In language classes, technology has been used for both assisting and enhancing teaching and learning. Teachers are trying to use and incorporate technologies to teach their students. By using this technology remote language learning is possible, the main aspect of technology is its ability to reach audiences all over the world, so anyone can learn any language from the native language speakers, without technological development language teaching is limited.

In the book, *Integrating Technology Into the Curriculum* by Shelly Frei, Amy Gammill, and Sally Irons, they explained the history and development of technology into the learning process and implementing it into the curriculum. They also explained every method of teaching with and without technology including advantages and disadvantages in it.

The rapid development of information and communication technologies (ICTs) has had a profound impact on language education where interaction has been a central concept since the 1980s, both in sociocultural and cognitive approaches to learning (Lamy & Hampel, 2007). The virtual learning environment has been developed and makes a better way to communicate and strengthen the relationship between the students and teachers. Weller's (2007) definition of a VLE as 'a software system that combines several different tools that are used to systematically deliver content online and facilitate the learning experience around that content. Even the student who was not able to afford amount or without the formal qualification or from an excess age group are allowed by many open university lectures or anyone can attend seminars or assignments and provide with the tutorial, this also includes with face to face tutorials. Open Universities have

designed interactive and conventional distance language courses and include audio conference synchronous, asynchronous tools for language learning. By exploring the tools like blogs, wiki, websites, and forums can obtain more information, but many students are not aware of such tools and materials. In the book, *Tasked-Based Language Learning and Teaching with Technology*, edited by Michael Thomas and Hayo Reinders, they talked about CyberDeutsch projects collaborative learning, learning objectives, learner preference, tutor role. The project CyberDeutsch aimed to be learner-centred, collaborative language learning. The experiment of providing students with a collaborative environment and providing them scope in organizing their own, this project shows that students can't coordinate and study for themselves even they used technologies there must some mentor to lead them.

In the book, *second language teaching and learning with technology* edited by Sylvie Thouësny and Linda Bradley, they created a project named eBook project. They targeted the young research scholars who completed or nearly completed their Ph.D. It was studied by the two young Ph.D., Scholars in the idea of making eBooks free for the seekers. For verifying the quality of chapters, there has been a reading committee created consisting of seven prominent senior CALL researchers together with the two editors.

At the beginning of CALL (Computer Assisted Language Learning), an audio-lingual method was used to teach grammar and Phonetics. CALL is transformed into TELL as a Technology Enhanced Language Learning, CALL changes both teachers and learners' teachers indirectly involves in the student's construction of language by creating online activities and students can enhance their ability using CALL. TELL is now preferred in many educational

intuitions, they create a unique environment and gives the flexible way of learning style, TELL can be along with textbooks.

According to Chapelle & Jamieson “the area of applied linguistics concerned with the use of computers for teaching and learning a second language”(Chapelle and Jamieson, 2008)

According to Levy "the search for and study of applications of the computer in language teaching and learning" (Levy, 1997)

By experimenting with many methods, it led to the beginning of CLT (Communicative Language Teaching) in the 1970s, CLT can make fluency in languages learn, we can understand the meaning of new languages, communication can be stronger by using activities and learners can directly converse the language with the native speakers. CLT also used in foreign language learning classes and second language learning environments, in foreign language learning the teachers are non-native speakers, they feel more comfortable in teaching grammars and words but they can't teach the slangs and pronunciations, CLT is also used in the second language teaching and learning, here learners can learn the target language outside the classrooms. By using technology we can solve many issues in language learning especially today's interconnected world by digitalization.” As educational and political institutions in various countries become more sensitive to the importance of teaching foreign languages for communicative purposes (not just to fulfil a ‘requirement’ or of ‘passing a test’), we may be better able, worldwide, to accomplish the goals of communicative language teaching” (Brown, 2001)

Warschauer divided the history of CALL into three phases first phase from 1970 to 1980 as a structural, in this time learners started to learn the use of mainframe computers for grammar practice, the second phase from 1980 to 1990 as a communicative, during this period computers were used for communicational exercises to encourage the fluency of language and third as an

integrative from 21st-century it is the era of development of technology and digitalization, now we can use many devices to learn languages, we can connect easily to the native speakers and improve our language and linguistics skills. Davies, Walker, Rendall, and Hewer (2012) renamed the stages of Warschauer, 1970 to 1980 as a Dumb CALL, during that time there is lack of visualization and audios, 1990 as a multimedia CALL, time of multimedia development and 1993 to present as a web CALL, in 1993 web activities was started, started to develop interactions like videos and sounds.

As pointed out in the 2010 version of EUROCALL's Research Policy Statement, "[r]esearch in CALL has been carried out for more than thirty years and has now reached a significant level of volume and maturity. It is a truly international discipline and has led to notable improvements in the teaching and learning of languages in secondary and higher education institutions worldwide"

In the book *Second Language Teaching and Learning with Technology* the authors explore the Reading and Learning Vocabulary Independently with the help of CALL and NLP (Natural Language Processing) technologies, in the area of foreign language instruction independent learning is used in connection with computer technologies, they portray CALL as a money saver and as an easy way to form an independent learning environment. CALL as a money saver in their book, in the beginning, both software and hardware rate are high, in the beginning, both software and hardware rate are high but the infrastructure of CALL in the universities are ready and they also explained that it will not affect the teachers.

Technology changed our old method of learning, Nowadays most of the students aren't carrying their textbooks and large bilingual dictionaries to learn languages, we can find a sea of

resources on the internet to help anyone, who wants to learn a new language although there are many resources available in online but we need teachers and mentor to guide the students. Digitization made the resources easily accessible; we can't carry our books and materials everywhere. So digitalized e-books and online materials can be easily accessed anywhere we want, digitized dictionary made it easy for language learners. In this everyone can have access to the internet in the present days, so they can use the dictionary whenever they want. Dictionaries and hyperlinked texts are some of our first inventions in digitization. Websites like Google gives us the definition of every word.

We are living in the world of many languages; multimedia plays important role in this multi-language world and foreign language learning. We can also see the accompany of multimedia in the early period by CD and the other form of audio and video resources. In this era couches with the audio file of native language speakers will help the new language learners can feel the slang and fluency of language, if the learners listen to the native way of speaking, they can understand the language very clearly.

Many digital dictionaries are included with audio files, this will help the language learning students to understand the word with pronunciation. Multimedia also includes video files, it helps the language learners to analyze the lip movement and slang of the native language speakers, there are many platforms which offers free online course like Udemy, YouTube. Technology made everything simple like typing also include in it because of auto-correcting and some plugins, today we can find the auto-correction in every software and websites, it was auto-enabled and free to use, So if a student tries to learn a new language but he doesn't know the exact words, this problem will be solved by the auto-correction the student can learn that word without any errors. We can also find many websites that correct grammar and pronunciation too. By using technologies, we

can encourage our physical classroom experience, by mini-games, quizzes and tables will provide some fun and encouragement for the new learners to improve their skills. We can personalize our own experience of learning through the integration of technology into the language learning class because everyone is different in their thoughts, likes, dislikes, methods will vary from each other, this also applies in language learning, some also students choose to a structured program set by other. There are many websites like lingua.ly and skype that can enhance the language learning experience, we can share our skills with other people, or they can share with us. Language can also be learned by games, by adding games into language learning the learners can easily understand the new language. Now technologies are using AI's to teaching languages they can analyse us and teach us accordingly, the AI will analyse our rank by our answers to its quizzes and teach to us accordingly. Students are lucky to have access to digital and technical equipment, nowadays most of the students have access to digital devices, even they can use public libraries computers for learning purposes. Some countries get help from UNESCO, they provide funds and technical equipment for educational purposes in non-developed and less developed countries. And in India, some state governments give laptops to school students. As a development results maximum of the students has access to the technological devices. We can also find educational television channels in some countries which were created by governments. Teachers are encouraged to use digital devices in the classrooms to ensure and increase the student's learning skills. Many schools and colleges provide smart classes or projectors with a system, teachers can use the internet access to take the classes and on the internet, we can find many activities that encourage the students.

According to the International Society for Technology in Education (ISTE) of the U.S. Department of Education: "Curriculum integration with the use of technology involves the infusion of technology as a tool to enhance the learning in a content area...The technology should

become an integral part of how the classroom functions - as accessible as all other classroom tools. The focus in each lesson or unit is the curriculum outcome, not the technology”

Language training in universities and language centers are following the traditional ways more than adopting the educational technology (EdTech) until now growth and development of the transformation to digital technology are low. Technology in language learning made the students learning process less painful and less time-consuming, now educational technology is seen as an advanced way of language learning. Surveys show us that language learning classes in web or online lessons are more effective than the traditional way. The passion and enthusiasm of the language teachers are the main reason for the growth of technology in the educational field. Schools and colleges are implementing technologies in their classrooms to increase their reputation and to show the development of their institutions, tools for language learning like video conferences, software for e-learning, and language labs are mostly used in educational institutions.

Chapter – 2

COMPUTER ASSISTED LANGUAGE LEARNING (CALL)

Introduction

CALL – Computer Assisted Language Learning or CALI – Computer-Aided Language Instruction, CALL or CALI is the technology integration used in the language learning process. CALL was originated in the United Kingdom, focused on learning rather than instruction. CALL was introduced in the 1960s by university mainframe computers, there are very expensive and mainframe computer machines are in the size of a room. PLATO (Programmed Logic/Learning for Automated Teaching Operations) started to use computers and applications for English learning and teaching but most of the PLATO's works were done in the Russian language. Athena Language Learning 1983 project is based on exploring the role of computer in education, this is a joint project of MIT and IBM. In the 1990s many CALL programs were developed and published. Today there are many CALL programs available for both free and low cost on the internet.

Today technology and digital media impacting the method of traditional teaching and learning process. In the book, Contemporary Computer Assisted Language Learning “It can now be argued that computer-assisted language learning has come of age and that we are now entering a fully integrated and naturalized phase of CALL.” (Reinders, & Thomas, 2012). CALL helps students to use technology to improve their learning activity both inside and outside the classrooms it makes the classes and subjects more interesting. Students will do their activities only if it helps them to improve professional or learning skills, if the program explains to the students about the use of the subject and then teach them useful information students will eagerly learning using the CALL program. Teachers can easily motivate students to learn using CALL by using their names

or personal information in the learning process. By providing practical or practical activities like giving challenges or curious assessments will motivate students to learn.

Students will love to learn visually by including animated objects or videos on the screen. CALL helps student's in visual learning, most of the students are good at learning visually like seeing images or presentations. Computers help students and teachers to get visual learning materials, they can easily search on the web for images or videos they want. For the lower education students, they can study visually for basic knowledge like seeing the colour, animals, or fruits, it helps them to understand and visualize the objects or a thing.

CALL helps students in listening practice, it is a very important task in the language learning process. Teachers can play podcasts or music to make the students feel the fluency, pronunciation, and phonetics of the language. Teachers can also record their classes or conversation and play them to students, so they can understand how and where to use the correct words, they can understand how to use the language naturally in real situations. It helps them to speak the language with incorrect pronunciation.

Computer and digital devices updated the learning process and also teaching materials, it helps both teachers and students to boost the teaching and learning process. Computers can easily adapt to students and teachers, students can choose learning methods, they can skip unwanted contents. The computer is a device that anyone can adapt to it with basic knowledge in it, easy access and partial control over the computer make adapting to the learning process.

Tutorial CALL

CALL has been developed toward authentic activities to help learners and guide them to achieve their goals. Engaging students in tasks and virtual tests through web base platforms will make them feel more responsible for their work and make a good decision. Tutorial CALL is from

the 1960s to 1990s, it is the language learner's interaction with the computer and communication. In this tutorial CALL, students depend on a computer as an automatic tutor, this type of CALL program will help students and teachers to associate with grammar, writing, pronunciation, reading, and listening. If a student uses a CD for learning a new language, a course in the CD will help the student to complete his full course description even some device contains two or more language courses. Tutorial CALL is commonly used for practice like multiple choice questions or translation assessments. Technology development from the room of mainframe computer to small laptop also changed tutorial CALL method in language learning. At the beginning of the tutorial CALL program, mechanical practice for grammar and lexical items was provided to language learners. It was programmed to give feedback for the tests and assessments, it just gives correct or wrong or tries again. Tutorial CALL is the commonly do the work done by teachers. In the book, second language teaching and learning with technology by Sylvie Thounesny and Linda Bradley "Tutorial CALL programs, on the other hand, cannot do much more than mimic this idealized traditional language teacher"(Bradley and Thounesny,2012). Today tutorial CALL is functioning as stage one of the e-learning system, some of this program are only helping in administrative progress.

CALL in Language Learning Environment

CALL can help students both inside and outside the classrooms, students and teachers can communicate and collaborate anytime and anywhere they want. Some teachers don't accept technology integration into the learning environment because they think technology will eliminate teaching staff but that is not true, integration of CALL or new technologies in the classroom environment will easy and reduce teacher's workload instead of eliminating them. Using CALL

teachers can support students by creating activities and assessments. If there is no technological or digital integration in students learning process teachers and books are their sole source.

Traditional language classrooms may be boring, or students can lose interest in learning languages but using the virtual world in CALL, can attract students to learn new or more languages. The virtual world is the best CALL platform to be included in the language and other classes, it is the virtual platforms using 2D or 3D environments, research on the development of Virtual CALL is still going on because of its need in entertainment and learning environment. Virtual CALL programs can provide language games, animated videos, graphic models, 2D or 3D videos, and problem-solving videos, these virtual platforms can improve interest and motivation in language learning. The virtual world helps to break the difficulties of different time zone, teacher can record or create 2D and 3D videos using video editing software, then they can send them or upload them to the common platforms where students can use them in other time zone or other countries.

In distance education, online CALL is the major source for learners. Distance language education students cannot sit in the class, so technologies help them to connect with their teachers. By using CALL technologies distance education language students can learn through the digital platforms by using video conferencing communication students and teachers have to face to face conversations. Messaging applications and platforms help them to ask quick questions or information from teachers.

Sometimes games were used to teach languages, students love to play games and it is easy to teach language using games. According to the study, students will show interest and teachers can make students to respond the game. Using 3D games or virtual reality games teachers can help their students to know the theory into practical knowledge. If the students play a game similar to their study, they can discover new and additional information about the subject.

The teacher's role in the CALL classroom is very important, technologies are just a tool and development in the classroom. CALL reduces teacher's workload; they can teach students using technologies to make students more attentive to the class. CALL can also reduce admin tasks like providing attendance, assessments, and other admin tasks to teachers. CALL helps educational instruction to maintain the task and track student's activities, digital devices are used to mark attendance, attaching marks, exam results are stored in the database and it also helps a teacher to alert student's progress by messaging their parents. Teachers can use CALL to help language learners by assisting them to do some technical base learning.

Introducing digital feedback system in CALL classrooms will help both students and teachers to connect with others, there is two way of digital feedbacks first one is feedback provided manually by students and teachers and another one is automated and AI-based system which help students in their studies. Digital feedback provided manually will help the teacher to know her mistakes and drawbacks in her class, the teacher can analyze students' activities and test results then teachers can provide feedback. Automated and AI-based digital feedback will be included in language classes by using CALL technologies to provide feedback like finding and pointing mistakes or errors on the assessments conducted by teachers.

Communication and Media in CALL

Language learning always accepts and collaborates with technological development. At beginning of the implementation of technology, gramophone, and foreign radio channels were used to record and played to learn languages from the native language speakers. In CALL we can implement digital media, social media, media, and communicational platforms. In early 19th century, computers have low capacity and it was used to play audio and poor video only using some storage devices but now the teacher can play any videos or listen to audio in their digital

devices. Tools like email, text chat platforms, audio, video, and video conferencing platforms help to build strong CALL communicational platforms. Digital communicational tools help both teachers and students to connect and communicate any time they want. For language learning classes teachers can use communication platforms to connect their students with native speakers.

Telecollaboration is the online communicational tool used in foreign language learning, it was founded to combine language learners geographically from a different region to learn foreign languages and to do collaborative projects and tasks. The Telecollaboration of in-class interaction was foreign language learning interaction for the same class students. In an earlier period, there was not good internet and no other country communications, so in-class interactions were used between local classes using LAN (Local Area networks), today in-class communications also developed using blogs, local network connections, and other local communicational platforms. Class-to-class interaction uses the latest digital and technological platforms, although in the late 1990s communication was based on text asynchronous. Today these classes are conducted using multimedia in foreign language classes. Class-to-world interaction telecollaboration helps foreign language learners to learn any language from any where around the world by the video conferencing software.

Educational portfolios are used in many fields like designing, developing, finance, marketing, arts, and education. Students nowadays use electronic portfolios; it was printed copy at the beginning of digital portfolios. E-portfolios are the platform or combined media of student's records, works, and growth, it is like the detailed profile of the student. Digital portfolios include the student's illustrated work, texts, contents, presentations, diagrams. These digital portfolios will help students showcase their works and talents in a digitalized presentation, now it was included in webpages and used for their job purpose.

Intelligent CALL

Intelligent CALL or ICALL which includes algorithms, concepts, techniques, and artificial intelligence (AI). AI is used for tutoring systems, natural language processing, user modelling, and expert system in ICALL. Intelligent CALL in natural language processing (NLP) plays role in generating and understanding natural language. NLP understanding process is written or spoken language, it is run by AI. This ICALL is mostly used in grammar checking tools, translation tools, auto-complete, and semantic input. An intelligent tutoring system (ITS) helps to reduce teacher's workload, this tool helps to maintain student records, granting assessments, and maintaining classroom environments. User modelling is the most advanced ICALL system, it uses human-computer interaction. The AI will use and analyze the student's usage process and organize it according to the student's interest. Expert system is used to study phonology, graphology, morphology features. ICALL expert system modules help the students and teachers to maintain additional details of student's grammar knowledge and linguistics structures.

CALL in Task-based Language Learning

Task-based language teaching and learning using CALL help the learners and teachers to work collaboratively, teachers can monitor student's every activity. Teachers can give authentic tasks in a target language like assessing with the task to include in. The target task is the task teacher gives students a real task done outside the classroom. The pedagogical task is given to the students to perform inside the classroom. Teachers can ask students to present or teach the class using technologies by paring with their classmates Taking ICALL in task is automating the process, AI can automate the task process given to the student, it can find and analyze the key vocabulary and grammatical constructs.

Mobile-Assisted Language Learning

Mobile technology was developed and developing, in the era 70% of teachers and students use a smartphone with an internet facility. By developing CALL as MALL (Mobile Assisted Language Learning) in language learning and teaching everything is possible to everybody but in most of the educational instruction's students are not allowed to use mobile phones in the classroom. Students can use their smart mobile phones to connect the native language learners according to their time zone. By using smart mobiles in learning students no need to wait a long time for answers, they can just access voice assistants or search engines to search the content or question they need. CALL needs more room space to install and it is hard to provide but MALL can easily provide and like commuter mobile no need to use large space CD or hard disk. Mobile is a multipurpose device it can be used as a video or audio recorder and it can play in it.

Chapter – 3

Using Media for Language Learning

Introduction

Media is the platform of mass communication; it is also used to store and deliver data. In the 21st century, the word media refers to many platforms, like digital media, mass media, news media, multimedia, cinema, publishing, advertising. Media will help the students to communicate and learn. The early-stage of communication media is through cave painting, pottery painting, sculpture, and early writings then it evolves to writing on paper and mailing it to long-distance, in this 21st century a revolution in telecommunication has made a path of communication and lead to a new era of media like social media, digital media, multimedia, etc. with this development in the media and communication students can easily communicate with their teachers and friends. In the book “Counterblast” (1954) Canadian communication theorist Marshall McLuhan used the term media "The media are not toys; they should not be in the hands of Mother Goose and Peter Pan executives. They can be entrusted only to new artists because they are art forms."(McLuhan,2004) The term medium is the plural to media, it is the common ground to the general communication and information platforms.

In the book “Teachers Discovering Computers – Integrating Technology and Digital Media in the Classroom” by Gary B. Shelly, Thomas J. Cashman, Glenda A. Gunter, and Randolph Gunter “digital media is defined as those technologies that allow users to create new forms of interaction, expression, communication, and entertainment in a digital format.”(Cashman and Shelly,2007). Multimedia is a communication platform that includes many content forms like video, animation, audio, images, texts in a single presentation. Media had a significant impact on students’ life and plays a major role in education. Media is created to cover a large audience. Today

media is made its place in the essentials like food, shelter media also deeply involved in human life. Media also made an impact on society, education, politics, etc. The media help to know spread education and information to all, digital media and social media make the news to travel around the world. Universities and educational institutions have computer labs, televisions, projectors, smart boards, laptops / personal computers, tablets, etc, and including them in the curriculum makes the students to interpret data from the media.

Modern media like social media and digital media are made the educational fieldwork remotely, every student can afford access to the digital media. It can be used in both classes and at home to enhance the learning process in any discipline.

Media in Language Learning

In the present century media is everywhere and everything, it became part of our daily life. Media has the strength to change personalities, change the way we observe and understand the world. There are two types of media print media and electronic media, print media are newspapers, magazines, books, and other printed materials and electronic media like the internet, radio, television, films, etc. Media is the most powerful tool; it can change the world with a single message. Media play a major role in the learning and teaching process.

Print media is the initial stage of technological development in media, print media like newspaper, the book is the basic and old form of communication, these are the only source before the early 21st century. Even in the 21st century, many country's educational systems are based on the printed study materials. In printed media the universal access is limited and consumes more time, it is being printed in every region language to facilitate the readers to get information and also printed translated versions, so the readers can also learn about foreign cultures. Printed newspapers can give us news and information in the local or foreign languages, newspaper is the

best way to educate the language learners and other students, it helps the language students to improve their vocabulary and communication skills. Although printed materials are outdated many teachers and scholars recommend reading the printed materials.

Electronic media is a developed stage of media, learners can get information and data from the radio, television, internet, computers. Radio and television help students to learn the new language from foreign channels and also their native languages. In television and radio, they conduct talk shows by inviting professors, scholars as a guest. Computers, the internet gave access to many materials, courses, now anyone can learn any language or subjects remotely and get a degree or certificate.

Digital Media and Multimedia in education

Digital media in education is the digital form of multimedia used in the classroom environment, we can attach digital products like software, devices, and platforms for learning. It plays important role in education and communication. Digital media has the power to stimulate imagination and critical thinking skills it makes own learning for the students possible; it also makes more success. Digital media platforms like email, video, photos, slideshows, websites, can be used to enhance the classroom environment. More students and teachers are encouraging digital media classes because the classes will help the students to interact, students will watch the videos and understand the concept of the lesson in a short time. Students have a short time to write down the notes and they can't keep track of the entire lessons, so tools like video, screen recorder, digital notes will help them to tie up with their lessons. Digital media make the learning process simpler, even a student with difficulties can be good at studies.

Social Media in language learning

Social media is a group of social internet-based applications in education that helps students and teachers to get more information. Technology development was only focused on students' needs maximum students use any of social media platforms, so the development of social media in education is necessary for this generation. Using social media in language learning provides students with more relevant and useful information and social media also connect the student with many learning groups and they can also connect with many other educational systems. Students can use social media for language learning, they can connect with fellow language learners and students can also connect and chat with the native language speaker. In this era, educational institutions encourage and connect with students using social media. Students can connect with the experts in the language or other subjects using social media platforms, when students start to connect with experts, they can gain more useful content. Educational institutions use social media platforms to connect with students, parents, and teachers. Parents and teachers can track student's activity, they can see the timeline of the usage of the platforms. The email was the first social media included in the education process, it helped students to contact their teachers.

Using digital and social media tools and platforms for language learning

Using video and video editing software will help the teachers to teach their students and make them more interactive in their classes. If we analyze every student in the class they are expecting to be visually stimulated, even below-average students are responding well to their classes if their teacher use video to teach them. Teachers can also use video tools to create and edit the video according to his theory. It is very hard for the students to keep track of their lessons and they are given only a short time to write notes, but if a student engages to watch video lessons they can understand it deeply and the study says that students can understand video classes and modules

more than traditional teaching methods. Videos can make the language learners to understand the speaker's pronunciation and their accent. Teachers can encourage the student to understand the video without sound or playing the video in a foreign language, it helps them to think creatively. Students expect something new, teachers can use a small video clip of introduction to the topic.

By using audio and podcasts students can recall the subject the teachers taught them in classrooms, audio and podcasts also help visually challenged students. If a student starts a project or research, a self-audio recording will help them to speed the brainstorming process. Language learners can record their audio and listen to it to avoid further errors, they can use audios and podcasts to understand the accent and fluent of the native language speakers.

Presentation is the best and most used process in all seminars, classrooms, conferences, business meetings, etc. By presenting on a large screen along with the lessons, it aids the teacher to convey information to their students and it helps their students to remember. Presenting many slides will help the students to take notes and involve in the classroom environment, but commonly everyone says that fewer slides are used for better presentation. Slides cannot and should not tell the whole story for you, the presenter should reduce the verbosity. The teacher must use low words and only use main topics or points on the slide. Using photos, icons, images, figures, charts, and graphs will trigger the memory of the students in the time of need, it helps them to remember what their teacher is saying and said. Language teachers can use the audio in their presentation and explain the word with exact pronunciation.

Pictures and image editing tools will help the teacher to teach their student the seeing the exact portrait of the lessons, if the teacher teaches the poem "Ought to a nightingale", the teacher can show the image of the nightingale and the background scenery, so the student can feel the nature of the poem. By displaying images or digital images allow students to imagine and help

them to think creatively. It also helps students to recall the lesson when they needed it. There are many royalty and copyright-free websites for free images, so the teachers and students can use them to collect the images.

Blogs are small weblogs or online journals. It is the best way to gain more knowledge and an easy way to self-learn. Teachers use blog platforms to publish materials, resources, assignments, they can also use them to help students master content and improve their writing skills. Students can use free platforms like bloggers, edublog, or WordPress to publish their writing.

E-book and Pdf platforms help the students to get free books and materials on one device, it can be downloaded and store anywhere with a digital device. E-Books and pdf can be shared with anyone. If the student feels uncomfortable or unable to read the text, they can use read-aloud future. Students need not buy all the books recommended to their curriculum, they can just download the eBooks on his device like mobile phones or laptops or tablets, or kindle. It is Environment friendly too, it eliminates using a paper process. We can easily get a pdf copy of research forums from the journal websites.

Communication platforms help both teachers and students to interact with each other. Using email and other messaging software can help to connect students and teachers after the class. In the communication process social media plays a major role, it is the best platform for the students to get connected with teachers. Both students and teachers can use Email to send and receive files and messages. There are many messaging apps for free, so communication between students and teachers can be strong. Using social media platform teacher can study student's mentality and the environment because in this era every student was on any one of the social media platforms.

Using Search engines students can find anything they want by just typing the word or phrase. The search engine is the container of many websites and social media platforms, so the student can get any information he wants in a second. Teachers and students can use search engines anytime they want, and the answer will receive them in less time comparing to searching books and materials in the library.

By using Job portals and professional forums students can follow and chat with professionals and great peoples, in these portals, the professionals will post important information and quotes. Portals like LinkedIn have every professionals and language speaker in the world, so it is very easy to connect with them.

Writing tools like Microsoft word and google Documents editor made typing simple, with these tools students can write books, journals, magazines, etc. Using some plugins makes translation, correction, and screen recording easy, students can translate a whole page or a letter in one click, they can also use these tools to write or take notes. Auto-correction plugins make the students write error-free texts. Screen recording will help them to monitor his typing speed and errors he made while writing.

The infographics tool will help the students to memorize or understand the concept of the chapter or lesson. Students cannot understand the concept of the chapter by just reading the texts, they like to see it in the visual. Teachers can use infographics to illustrate a timeline, to create awareness, to highlight important statistics, to offer step-by-step instructions. By incorporating infographics into a learning activity, a teacher can introduce a module and convey the basics of the module by using an infographic.

Text to speech is a tool used to convert typed text into voice generated by the computer, it helps students with dyslexia or struggling to learn the language. There are many free text-to-speech

software on the internet, just need to select the perfect one. Teachers can use text to speech software to create obstacles with the printed or digital text materials and help their students with reading issues. This tool will improve the student's word recognition skills, improve the student's focus and make them to remember the information for a long time, students can focus on both sound of words and comprehension.

Digital storytelling tools and software will help the teachers to transform their thoughts and ideas into a concrete form, so students can visually understand the concept that teachers are trying to convey. Students always like to hear, watch and tell stories, so a story is an easy way to attract students. Behmer stated, “Storytelling is a process where students personalize what they learn and construct their own meaning and knowledge from the stories they hear and tell”(Behmer,2005). By using software like adobe slate teachers can create a visual story, with colourful background illustrations.

By conducting surveys, quizzes, tests, and assessments through digital media will help the teachers to test their student's skills. Language teachers can make their students to watch videos or giving a passage and asking a question from it will help them to listen or read the given content and. Before starting the lesson, the teacher can create digital polls or quizzes to the knowledge of the subject. Digital quizzes, surveys, tests, and assessments will create more interactive sessions.

Screen capturing tools and software help teachers and students to capture important notes or subjects. Using a screen capturing / recording tool gives us a sharable image or video content, during online classes teacher can record or take a snapshot on the screen, so a teacher can share the material and record for further study or for an absent student. Students can use these recordings and images for homework.

Social bookmarking is an online platform where students can add, edit and share bookmarks of digital documents. This tool help students to identify the specific category of websites and web content easily. The tool will save the necessary content what the student or teacher referred to. Tools like eLearning Tags will help the teachers and students to share, discuss, vote, and discovering the content.

Bibliography and citation tools will help students to gather, cite and study sources for their projects, thesis and essays. Platforms like BibMe and Citation Machine will help teachers, students, and research scholars to crew a citation according to chosen styles like MLA or APA. These tools will help researchers to scroll important websites needed for their work and it also helps them to check plagiarism. This tool will be useful for researchers.

Note-taking using digital devices will help the students to take references or important points. If a student writes due to lack of time his written work will have errors and the handwriting may awful, even the student can't remember what he/she wrote, but by using digital note-taking tools or platforms students can take short note or voice note or video note or image note. Digital note-taking has seen perfect in laptops and computers more than a tablet and mobile phones, due to the small screen and lack of keyboard. Digital note-taking tools have text-to-speech options it so just student or teacher need to spell the word. Most importantly digital notes are easily saveable and sharable

Authoring is the tool that helps teachers to create digital content and make them an eLearning format, then they can share it through learning management systems. Every authoring tool has its own special features because it is designed and developed by different companies. By using authoring tools teachers can create lessons, they can add, edit and create images, texts,

videos, slides, audio. This tool makes the eLearning more interactive, like including games or activities in the platform. Teachers can use this tool easily by using premade templates.

Annotation tools are used to type text and draw, it is used to draw attention to the content teachers are teaching. Teachers can use these tools to highlight or mark the important content which students want to focus on. In this platform they give many tools for the teachers to teach, tools like a pointer, selection, calligraphy, oval, square, colour, and eraser are commonly used and given on every platform. Students can also collaborate and use these tools along with their teachers.

Cloud storage and cloud computing help students and teachers to store, share the contents, materials in large size. Cloud computing helps both teachers and students to use a cloud computer, if a student can't afford a personal computer or laptop he can use his mobile phone to buy cloud computing access. Cloud storage has the best usability and accessibility every student and teacher can easily use and access the cloud by using the internet. Security and privacy in these cloud platforms will be high it will be encrypted end to end. Every student can afford free cloud storage and computing but they give only limited access and limited storage for extra we must pay money but the cost also affordable for every student and teacher.

Chapter-4

AI and Automation in Language Learning

Introduction

AI (Artificial Intelligence) is a machine that is designed and created to perform tasks itself by using human intelligence. Artificial Intelligence is designed to automate the works, it thinks and acts like humans. Artificial intelligence (AI) was used in many fields like self-driving cars, suggestions from social media, shopping platforms, and translation. Concepts of automation were found before the 10th Century BC, In Greek myths of Hephaestus and Pygmalion incorporated the idea of intelligent robots (Such as Talos) and artificial beings (Such as Galatea and Pandora) 10th Century BC Yan Shi Presented a mechanical man to the king Mu of Zhou dynasty in China. In 384 BC Aristotle described syllogism, a method of formal mechanical thought and theory of knowledge. Greeks and Egyptians are not only who imagined Artificial Intelligence and automation, in Ancient Indian epics like Ramayana and Mahabharata, but we can also see the theory of automation are made by the engineering god Vishwakarma and the sorceress, it may be similar to Greek myths like the god of technology Hephaestus.

Artificial Intelligence (AI) and Automations are used for creating and developing educational tools like EdTech tools and software, it provides the students universal access to the teachers and students. AI and automation will provide global classroom accessibility for different language learners and help the students who have visual and hearing difficulties. AI can automate basic educational activities like providing homework, conducting tests, exams, and assessments. Educational software's can provide and adapt to the student's needs, for lower grades like

kindergarten needs basic language learning and teaching software without AI and for higher education, language learning tool must be advance, because students will have knowledge about what he learns AI will help them to develop language skills by using language pronunciation assessments and language tests. AI will tutor the language learners the AI can teach some fundamentals of language, although human tutors and teachers are best, it can be used to make trial and error learning process many students don't have the idea why he was failing, AI was designed to check students activity and teach the errors and reason of failing. We can understand that AI can change the role of teachers, teachers must know how to use and teach through technologies.

Artificial Intelligence (AI) makes the language learners learn digitally where the learners and teachers can personalize the learning method to the students. Machine learning algorithms will adapt to the learner's behaviour, so the platform will be automatically changed to the user's interest.

Translation

Machine Translations are created with Artificial Intelligence (AI), In 1954 the Georgetown IBM company experiments with Machine Translation, it successfully translated 60 Russian Sentence to English. AI is used to translate the word automatically by recognizing the typed or written text even the AI's can recognize the words we speak using the Voice reorganization tool. Students can use the help of machine translators to translate a word or a paragraph, Artificial Intelligence (AI) will translate it with the correct message, and it can also recognize the sentimental statement and translate it accordingly. Artificial Intelligence translator will help the students to translate a word or phrase without the teacher's help, students can easily access this translator by just typing the content in search engines and translation apps they translate for us. Artificial

Intelligence in the Machine Translators helps language learning students, they can easily translate a foreign language using a machine.

Voice Assistance like Google Assistance, Siri, and Alexa will help the students to translate the content very easily, students just need to access the voice assistant software and ask the word or paragraph to be translated, it use the search engines or apps to translate it and read it for you, it will help differently-abled students to translate easily. If a student cannot identify the language they hear, they can use the voice-assisted Artificial Intelligence tool to solve, it uses the language reorganization software and language learning apps like Duolingo, AI use the speech precognition algorithm to identify the spoken language and also convert voice to text for easy use.

Machine Translators are getting better than better every time, Artificial Intelligence was advanced the Machine Translators to the next level. Artificial Intelligence made Neural Machine translation possible (NMT) possible; this technology can maintain and manage a huge amount of data, which will help to reduce errors and speed up the translation process.

In a traditional translation and learning students must refer to the huge dictionaries for every language, it costs us much time but in the modern way of learning students just need to type or speak the word to get the translated meaning.

If a student wants to learn a foreign language, they can directly learn it with the native speakers, he/she just needs to use video conferencing software or apps to learn the language using the auto-generated captions. Artificial Intelligence Machine Learning is the best and better platform for self-learning, but the translation script made by the machine must be checked manually. Students can use the tools and plugins to translate, software like PowerPoint, word has inbuild translation tools.

Admin Tasks

Teachers spend more time giving homework, assessments, tests, and providing feedback to students but if a teacher uses Artificial Intelligence (AI) for administration tasks they can gain more time and students will complete their work regularly, it is easy to track the student's progress. According to Ramesh C Sharma, Paul Kawachi and Aras Bozkurt in their work “The landscape of artificial intelligence in open, online and distance education: Promises and concerns”, “AI in education, particularly in the distance and online education, where AI has enhanced efficiencies in institutional and administrative services.” (Kawachi and Sharma,2019)

Some programs reduce the burden on the teachers, it will provide a feedback forum to the students. In Intelligent Tutoring System (ITS) teachers can create a platform for testing student's ability or teachers can create an assessment for the student and make them answer, by using Artificial Intelligence (AI) the assessments can be evaluated and graded.

By using Intelligent Tutor System (ITS) admin tasks can be improved, the teacher can track student's attendance and notify them, student's test results, homework, and assessments can be posted on the platforms. If an educational institution uses digital devices to teach their students, a teacher can maintain and track the student's timeline. Teachers can also create a task for students and make them to complete it in time.

Exam and Answer Sheet Evaluation

Artificial Intelligence (AI) can be implied in exams to track the performance of the students in both online and offline, and teachers can get detailed analytics and evaluated answer sheet of the students. In the pen and paper exams teachers and students need to work hard and need lots of manpower to conduct and coordinate offline exams, but we can also implement Artificial Intelligence in offline exams to monitor the students.

In Online exams students feel free to write their exams, online exams or remote proctoring can be conducted digitally for some exams university or educational intuitions design and developed the software with Artificial Intelligence (AI) to monitor the students every move, in this process AI will allow the student if he follows the criteria. Online exams conducted by AI will be safer than physical exams, the student must give access to his device's camera microphone and device screen, so the AI can invigilate the student activities. AI will kick out the student if he malpractice in the online exam, it will monitor the candidate's every move by using the camera, then it analyses the sound through the candidate's device and it also analyses the screen and ensures that the candidate is not using the other tab. The AI will not allow other persons into the room, Students face must be visible to the camera then the surrounding must be quite because the microphone will detect the voice in that room if the candidates who were not following these rules he will be kicked out the software and his answer sheet will be submitted with the alerts.

Language tests conducted by Artificial Intelligence (AI) are conducted using voice remobilization software and also conducted in written method, voice recognition method is more complicated and rarer, because every region has its own pronunciation. If a voice reorganization software was coded with Indian English this software can't recognize Chinese English although it can be designed according to a certain area.

During Covid-19 Pandemic, many universities implemented this online exam method and trying to solve existing bugs in it.

Evaluating and correcting the physical answer sheet process is very difficult and painful for the teachers, manual method of correcting answer sheets takes more time, it takes a minute for each paper but Artificial Intelligence (AI) can make it in 12 – 15 seconds to evaluate an answer sheet. Ai can gain time and eliminates human effort to evaluate an answer sheet.

The manual evaluation will have errors because teachers will correct the paper with different mindsets and he can only correct limited answer scripts, a teacher working for 7-8 hours can evaluate only 450 to 500 answer scripts and they must complete it before the targeted date, this may lead to human errors.

Artificial Intelligence (AI) can evaluate 5000 to 6000 answer scripts in a day and it can work all day and night. If a university or educational institution use AI-based paper evaluation, it cost them less than manual paper evaluation because it is a one-time investment and we can also get updates regularly. The written answer scripts may be difficult for AI's because some student's handwriting cannot be recognized by the software, but it can almost recognize the clearly written letter and it can also evaluate typed scripts easily. AI will analyze the keywords and length of answers to evaluate the answer scripts.

Artificial Intelligence (AI) will also reduce the time for releasing results, it automatically stores the marks of the student in the database and it can also publish results on websites or on the allotted platform.

Personalized Education

Personalized education or personalized learning is the method of learning where the instructional approach is given for the needs of each learner. According to the United States National Education Technology Plan 2017 “Personalized learning refers to instruction in which the pace of learning and the instructional approach are optimized for the needs of each learner. Learning objectives, instructional approaches, and instructional content (and its sequencing) may all vary based on learner needs. Also, learning activities are meaningful and relevant to learners, driven by their interests, and often self-initiated.”

By using Artificial Intelligence (AI) in personalized learning properly, the universities and educational institutions can teach the students according to their expectations and level of learning, so the educational instructions

By using AI in personalized learning, it can boost the engagement and results of the students, machine learning algorithms learn about the learner by analyzing how he/she uses the platform and performance in quizzes and tests conducted by the platforms. It gives the online source to the learners according to the specific language or subject to fill the gaps and achieve learning goals. Learner no need to spend more time to study language, the AI can personalize the content according to the learners, if the learner was good at grammar but he struggles at pronunciation skills so the AI will give more pronunciation lessons and assessments. Artificial Intelligence (AI) can automate content scheduling, the platforms using AI can schedule the coursework and delivery recourse by analyzing the tests, assessments, and simulation results.

Artificial Intelligence (AI) personalizes the learning platform by collecting data like time of using the platform, watching educational videos, reading texts, and performance in assessments. The instructor can also view the data and analytics of the student, then he can personalize the teaching method and giving additional or relevant study materials.

Universal Access

Artificial intelligence (AI) can give language learners global classroom access and it also helps differently-abled students. By giving universal access anyone can get remote access to world-level content if a student was in a rural area he/she wants to learn a language from different regions so the student needs to search for the teacher who teaches the language but AI will grand the globalized level learning. Universal access can make the students to discover and develop their talents.

Artificial Intelligence (AI) can improve student's abilities like understanding, planning, communication, perception, and reasoning. By using an internet facility, it can connect us to different classrooms from different places, sometime the student cannot understand the foreign language so he can use the help of translators and auto-generated captions.

Artificial Intelligence (AI) can help the students who were home tutored or dropped out due to financial issues, he can get universal access to the teachers and institutions all over the world at affordable cost and also some teachers are teaching students without charging them but the student wants to get the access of internet and specific software.

Outside the Classroom

Parents are struggling to help their children to teach them language and other subjects, the AI supports parents to teach their children when they struggle to do their home works and test preparations. Some parents don't trust their children with their devices, so technologies help them to monitor the students and their devices, parents can install applications or software into their children's devices and they can monitor the usage of the device and the children application using time will be noted.

Teachers and mentors have responsibilities outside the classroom and they can monitor every student. Artificial Intelligence (AI) can be store more data than humans, the algorithms can provide suggestions to the students and it can determine the student's progress, so the AI can redesign the method according to the student's ability and their understanding level. Students and teachers can communicate easily and by using AI applications teachers can give homework to their students and it will give a detailed evaluation of the student's contributions. There are many AI applications and software for educational use and also developers updating software including AI mentors. Teachers are engaged with their admin tasks and their administration works limiting their

time spend with students, if the educational institutions install AI tools and software teachers can gain more time with students and also accompany with their home works outside the classroom. Student's homework and assessments can be used to improve the class environment and teachers can update their teaching style according to the student's capacity.

Inside the Classroom

Artificial Intelligence (AI) is mostly applied in every product and software used in language and other classrooms. For tutoring, AI can help both the learners and teachers to gain more learning and teaching time, if a student needs teaching time AI can grand tutoring to the student.

Virtual reality learning (VR) makes the learning process fun and interesting, students can feel the reality of the lessons through videos and 360-degree videos, they can understand the lip movement for understanding pronunciations. In other subjects like history, physics it can help them to feel the object and places without spending money.

In 2020, China started to used, study, and develop Artificial intelligence in a classroom environment they used a neural monitoring system to monitor the student is they listening to the class and how they feel during the class, this information will be computerized and analyzed by their teacher and the information shared to the student's parents. They also started to use AI in surveillance cameras to monitor how many times the student's yarn and how brisk they are in the classrooms. China uses robots in classrooms to get interactive sections and to monitor student's health.

Projectors and computers are used in maximum educational institutions to teach the students using presentations, videos, visual aid education, audios, etc. As time changes, the

institutions changed to smart boards, smart boards are one step more than projecting in the white screen, it is a touch screen and it has many AI-based software and tools in it.

Robust technology helps the students to attend the class without their physical presence in case of an emergency, they can attend the class using a personal robot with AI tools and make an interactive video like sitting in the classroom environment.

Individual Language Learning Using AI

Artificial intelligence (AI) algorithms are developing and advancing the eLearning process in every subject. In many countries' companies use language learning software to their employee's language skills. Language learners can use the AI learning software and tools to study in their times, and they can study language anywhere. Adapting learners' needs is one of the best features in AI language learning, those AI platforms offer language learning that allows the learner to work according to his expectations. Most of the learners fear about failing in the exams and assessments, but AI platforms won't criticize the learners, instead of criticizing it helps the learner to improve their skills by pointing out the reason for failing the test and recommend the materials.

In the individual language learning process using Artificial Intelligence (AI) the students can develop their deep involvement in the language learning task because the learner can study a foreign language by learning from the native speaker, they can set their own goal and follows their own track of syllabus. AI will help us to improve our skills by conducting games, quizzes, and other activities.

Some of Artificial Intelligence (AI) with algorithms is designed to learn and calculating every individual learners' capacity, vocabulary strengths, weaknesses and create a personalized study material. The algorithm can make smart and data-driven decisions and the AI can classify the data itself.

AI tools use for learning

Artificial Intelligence (AI) can be accessed only through the specified platforms like applications, websites, software, and chatbots. In every platform, we can see the AI included chatbots that can understand many languages and translate them to the targeted language. Language learners are eagerly searching for the perfect platforms to learn new and additional languages.

For translation there are many tools, plugins, software, and applications, they are many applications that provide multi dictionaries like oxford dictionary in both offline and online, Google is one of the best places to do all the things, in translation they use AI to understand the situation and sentiment of the words and translate it accordingly, in google docs we can use speech reorganization software to type and edit the document it can also translate the words and paragraphs. It is free and can be accessed through any device which has an internet facility.

Interacting with voice assistance like Alexa, Siri, and Google assistant, learners can practice their vocabulary with the AI-based voice assistant software. By interacting with this software, the learner can gain pronunciation skills. A learner can interact with the assistant and ask them to take notes and add tasks to their colander.

Language learning chatbot apps are designed and developed with Artificial Intelligence (AI) the bots are used to interact and analyze the learner and the bot will get statics of our performance and teach us accordingly, apps like Monday, Duolingo, and Andy are chatbot app designed for language learning practice, these bots will tutor us and offer us the audio, video and text responses to improve our language learning

These chatbots give feedback about our process of learning, this feedbacks are private, and it helps the students to identify the area they should focus on. Chatbots can be interacted and

provides instant help, so these AI will help the learners to get the globalized level of learning and help when we are finding difficulties while learning.

Artificial intelligence (AI) can be used in college devices like cameras, digital devices provided for students to study them, AI will send a detailed study about the student's skills, character, listening and learning skills, speaking, and other activities. So, tutors and teachers can easily focus on the student's needs and personalize the teaching method for the students. Admin tasks using AI will gain more time to spend with interacting students, AI will save time and cost of administrative tasks like evaluating papers, giving homework, conducting tests, exams, and evaluating papers and giving marks.

Plugins used in Microsoft Word, PowerPoint, and other learning software help the learner to grow their skills in both language and technical part.

Future of AI in Language Learning

Future is based on technological development, scientists and developers are developing EdTech to increase the educational level and trying to make everything globalized. In the future the teachers must gain knowledge about using software and AI, they must update according to the technological development. The AI will improve the teaching method, develop the classroom facilities, give access to universal learning and make it more interactive. These AI tools can be used for both self-learning and also used in a classroom environment.

Chapter-5

Conclusion

Technology in education will help the students and teacher, many teachers think that implement of technology will affect their job, but it is not true technology will only easy and reduce the workload to teachers. Digital and technological classrooms make students to explore and learn new things. Technology has the power to change the teaching environment, the role of teachers and students will be changed when digitalization invaded the classrooms but instead of eliminating staff members, it needs to add additional IT staff. In this era implementing technology is very easy because every student and teacher use at least one digital device. In this world, there are many languages spoken today, so we can't understand all the languages spoken.

CALL (Computer Assisted Language Learning) started to develop in the 1960s, educational field has the power to integrate technology along with technological development. CALL in the classroom help students to communicate with their teachers, by using applications, websites, and software to teach language to their students easily. Visual Learning is possible by using call, students will benefit from learning visually. Listening practice is important in the language learning process by using CALL software playing music or listening apps to help students to improve their listening and vocabulary skills. By adding CALL into the classroom, it creates interest and motivation in language learning and eliminates the boring parts in the learning by including animations, videos, VR, games will create increase student's interest. For solo learners CALL will allow them to have a non-sequential habit, it will help to develop additional skills. Immediate feedback is one of the best advantages in CALL, using test and quizzes platforms will give feedback immediately after the student completed the answer it encourages them by

showing the feedbacks. An error can be reduced using CALL in classrooms, computer will help students to identify errors they have done.

Digital media and multimedia are the best way to learn a language, using media like videos, audios, etc. Using digital media teachers and students can record classes and use it in the future if anyone got doubts about the lesson. Using websites, we can get up to dated sources for 24 hours. CALL will be useful for self-studying students; self-study is necessary for every student after class hours students can easily connect to the source they want to learn. Developing written skills using text and document apps students can practice writing skills by writing blogs, poems, and contents. In digital media we can track our progress like how we have written, time spends to write, read, etc, and mistakes done by us also be recorded so we can track our progress. Digital learning in class makes students smarter, tools and technology help students to develop their language skills, students can learn anything they want, and they can also choose the method to learn.

Social Media is the best way of communication, using this platform we can communicate to anyone with digital devices. Communication and collaboration is the social media's best advantage, students can message and chat with another student or teachers all over the world even they communicate with other native language speakers. Some teachers and parents fear of misuse or mislead, so they can use tracking apps and software to view and analyze student's usage. Improve reading skills following professionals in social media platforms like LinkedIn, where students can connect directly to every CEO and message them. Distance learning can be possible using social media through video calling and audio calling applications and software we can connect to the world audience. Teachers can use social media and create the educational group in Facebook, WhatsApp, Google classroom to share materials, instructions, educational funny clips or memes, allow students to post important and necessary links to the group, post discussion topics

regularly. They can also use blogs for their assessments will help them to improve their skills, they can post book reviews, research papers, or other assessments on the digital media platforms.

AI (Artificial Intelligence) can be included in every process, in language learning, AI can help us by automating applications and software. AI can be used to monitor and analyze the student's process; it can produce the report in a short time by analyzing students. In China they started to use AI for the entire educational system, AI can monitor students listening capacity if the student was not paying attention to the class it will notify the teacher and it monitors every move of the student and at the end of the day it was programmed to send message to their parents but this method will irritate students, although it improved poor students listening skills and reading skills. AI can save teachers time and improves efficiency because it has human thinking skills like analyzing, learning, thinking, and most importantly problem-solving. It can reduce the burden of tasks of teachers. AI can be used in translation, it can automatically translate a word if we show it in a picture or text it automatically translate a word. it can also use in voice-assisted application like Google assistant, Alexa, and Siri, by using these apps we can develop our speaking skills and listening skills then we can search by just dictating the word.

I created and shared survey forms through social media and requested teachers, students, and research scholars to answer them, technology helped my research to reach targeted audiences and made them to answer it. In that form, I asked them what digital device they are using, how students referred to learn, and teachers referred to teach. I asked them how they and where did they get their learning and teaching materials, by using books or by using a library or by using a website to buy books and eBooks or to download free or torrent eBooks or using a website to get summaries and study materials. Then I asked their recommendation to digital implementation in a learning environment, and how teachers and students used to teach and study. How they study while

pandemic and how their online class went during covid19 pandemic. I asked them how they are planned to do their projects and if they recommend and engage to have online class, assessments, exams, projects through the digital method. By sending my form to digital and social platforms, I received 65 responses from students, 19 from undergraduate students, 35 from postgraduate students, 6 from school students, and 5 from students preparing for government exam and CA exam. From the survey form, I received 14 responses from teachers, 8 from language teachers, and 6 from non-language teachers. Then 5 responses from research scholars.

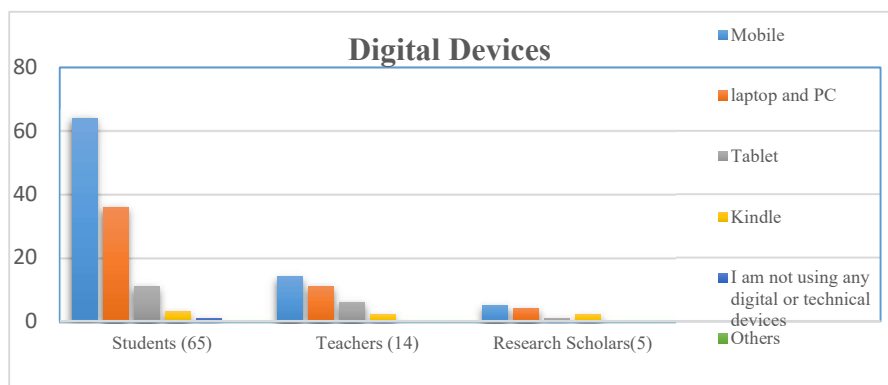


Figure 1 (Digital Devices Used By Students And Teachers)

In the above chart (Figure 1) we can see that maximum of the responders use digital devices like mobile, laptop, tablet, kindle, etc. From 65 responses from students 62 of them use the mobile phone, 36 of them use laptops and personal computers, 11 students use tablets, 3 of them use kindle device and 1 of the students responded that he wasn't using any digital devices. For my form 14 teachers responded, all 14 of them use mobile phones, 11 of them use laptops and personal computers, 6 teachers use tablets, and 2 of them use kindle devices. 5 research scholars responded to the form, all of them use a mobile device, 4 responders use a laptop and personal computers, 1 responder use a tablet and 2 of the scholars use a kindle device. By receiving this data, we can see that in this era maximum of students and teachers use digital and technical devices. So

implementing technology into the classroom was already began may educational institutions provide digital and technical device like projectors, smart board, tablets, laptops, etc. Some of the instructions allow students and teachers to use their own devices like personal mobile phones, laptops, and tabs for educational purposes in the classroom environment.

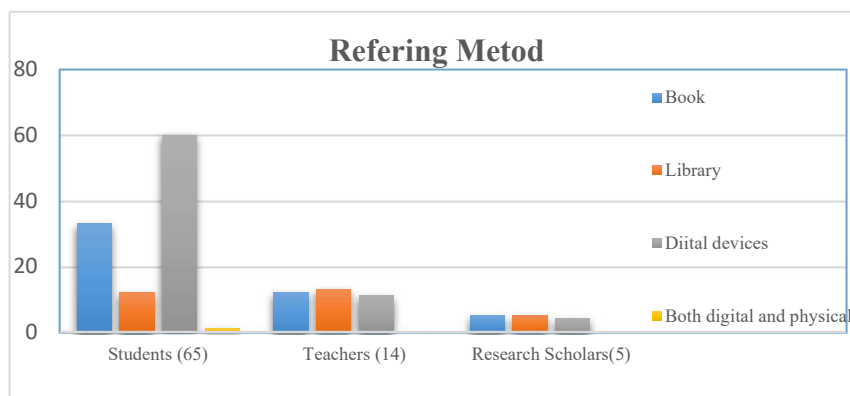


Figure 2 (Referring Methods By Students And Teachers)

The above chart (Figure 2) shows the referring methods used by the teachers, students, and scholars. In 65 student's responses 33 of them choose a book as a referring method, 14 of the students responded as a library, 60 responded to a digital and technical method and one responded as both. From 14 responses by teachers, 12 of them choose a book as a referring method, 13 of the selected library as referring for teaching, 11 teachers selected digital and technical methods. From 5 scholars all of them selected physical methods library and book and 4 of them selected technical and digital method for referring. In this chart, we can analyze that most of the students use digital devices to refer and study. Most of the teachers are supporting both methods because today it is necessary to refer to both physical and digital methods. Physical books help teachers, students, and scholars to read, revise, analyze the written books and Digital media will help them to keep up to date. Sometimes we can't find some books through the library here digital method helps us.

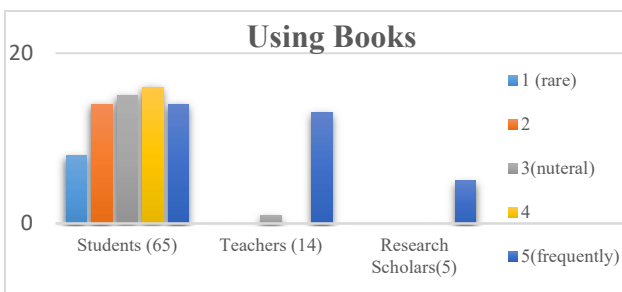


Figure 3 (Using Books)

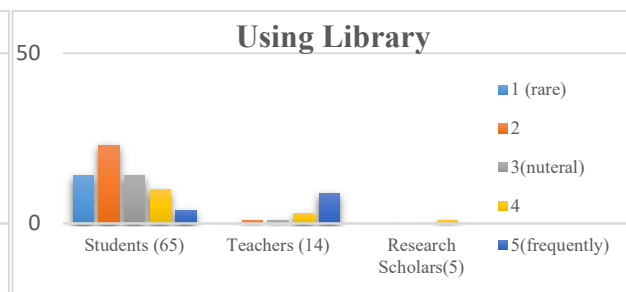


Figure 4 (Using Library)

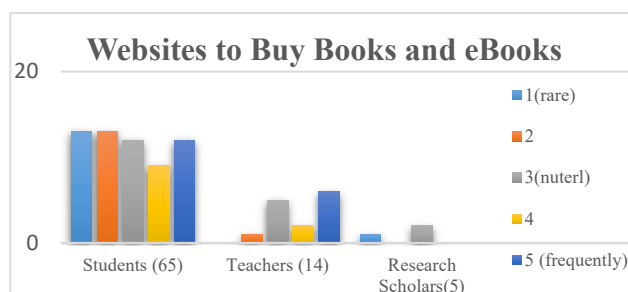


Figure 5 (Websites to Buy Books and eBooks)

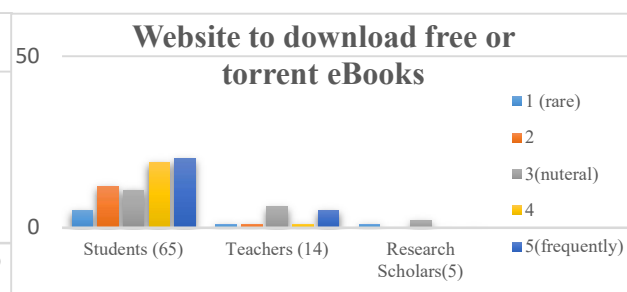


Figure 6 (Website to download free or torrent eBooks)

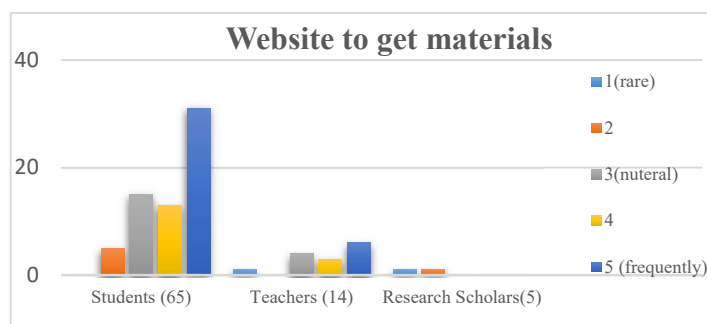


Figure 7 (Website to get materials)

The above chart (Figure 3) shows the rare and frequent use of physical books, libraries, websites to buy books and eBooks, websites to download free books or eBooks, and getting materials using websites by a total of 65 responders. For using books 8 students responded as extremely rare, 14 students as rare, 15 students as neutral, 16 as common, and 14 students as frequently. From the responses, all teachers use books frequently like teachers all research scholar responders also frequently use books. Always books are the best friend to the human maximum of

students, teachers and scholars use books frequently, most importantly many educational institutions encourage using books.

From figure 4 we can see the usage of the library by the responders 14 students selected extremely rare, 23 students selected rare, 14 students selected neutral, 10 selected common and only 4 students selected frequently. Most of the teachers responded frequently and commonly, only 2 teachers responded naturally, like teachers all scholars also frequently use the library. From these responses, we can see that most of the students are not interest in using the library from 65 student's responses 37 students rarely visit the library because many books can be bought or downloaded online. Teachers and scholars mostly use the library frequently they know how libraries useful; they mostly use it for references.

In Figures 5 and 6 we can see the use of the website to buy physical books and eBooks, free eBooks. Most of the responders use the website to download and buy books. 12 Students frequently use the website to buy books and eBooks, 9 students commonly use websites, 12 students are neutral in buying books using websites, 26 students selected rare. Teachers always prefer to read books, 6 teachers frequently use websites to buy books, 2 of them commonly use websites, 5 of them use neutral in using the website to buy books only one teacher selected rare. One scholar selected rare, 2 neutral and 2 frequently use websites to buy books. Like amounted books, torrent and free book websites are majorly used to download eBooks. 20 students frequently use the website to buy free books, 19 students commonly use the websites, 11 students stand neutral, 12 students selected rare, and 5 of them selected extremely rare. Only 2 teachers selected rare, 6 teachers selected neutral, and 6 teachers selected frequently. 2 scholars frequently use websites to download free books, 2 neutral in it and 1 selected rare. Most of the students and teachers use websites to buy or download free and amounted book than visiting library because in

some library they don't allow us to take books, but if we have our copy of book or pdf we can use it anytime we want. But eBooks by using kindle are better to learn.

In Figure 7, we can see the responses of usage on the website to get study or teaching materials, 31 students frequently use websites to get study materials, 13 were commonly using these platforms, 15 were neutral in using it and only five of the students rarely use the websites to see study materials. Only one teacher rarely uses websites to view teaching materials, 4 teachers choose neutral, 3 of them choose commonly and 6 of them used websites frequently. 3 research scholars choose frequently and 2 of them use the website to get material rarely. In figure 7 we can see the blue was high on three of the professions, blue is frequently used. On websites, the maximum of materials will be up to dated and it is easy to get.

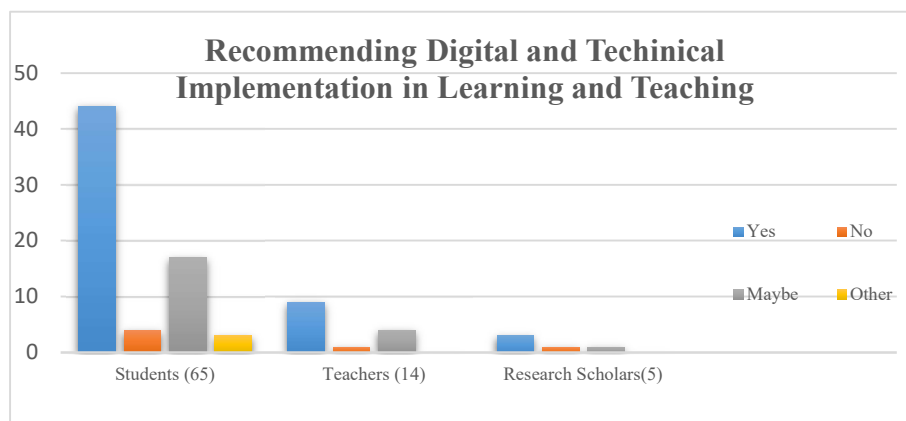


Figure 8 (Recommending Digital and Technological Implementation in Learning and teaching)

In the above chart (Figure 8) we can see the detailed yes or no or maybe answers, 44 students recommended Digital and technological implementation in learning and teaching, 4 of them selected no, and 17 of students selected maybe. They explained digital and technology was easy to use and adopt for learning, it can help students to learn more, it is easy to get and save more time, it helps students who are not able to attend physical classes, it is easier than just only referring books and we can get authentic information immediately, we could re-watch classes and clear our

doubts. 9 teachers choose yes, 1 of them choose no, and 4 maybe. Teachers try harder to a better environment, so technology is the best way to improve the educational process. 3 research scholars selected yes, 1 choose no, and 1 maybe. All other students, teachers, and scholars have fear of using technology in a learning environment but from proper education and management, we can break that fear.

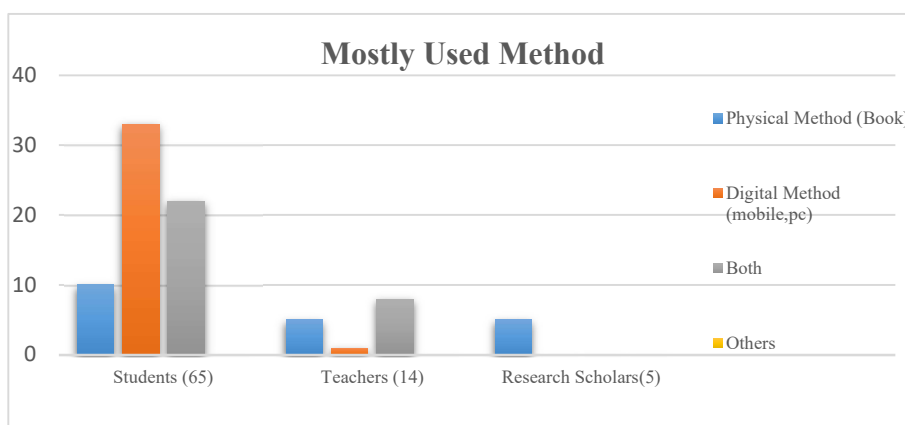


Figure 9 (Mostly used methods)

In the above chart (Figure 9), we can see the most used methods in the learning, reading, and teaching process. Of 65 students 10 students only choose to learn using books and libraries, 33 students choose digital and technical methods, 22 students choose both. By using both methods it is an easy way to learn in only physical materials or digital and technical methods. From 14 responses from teachers 6 choose physical books and materials and 1 of them choose the digital method and 8 of the teachers choose both methods. All research scholars choose physical materials like books, libraries, etc.

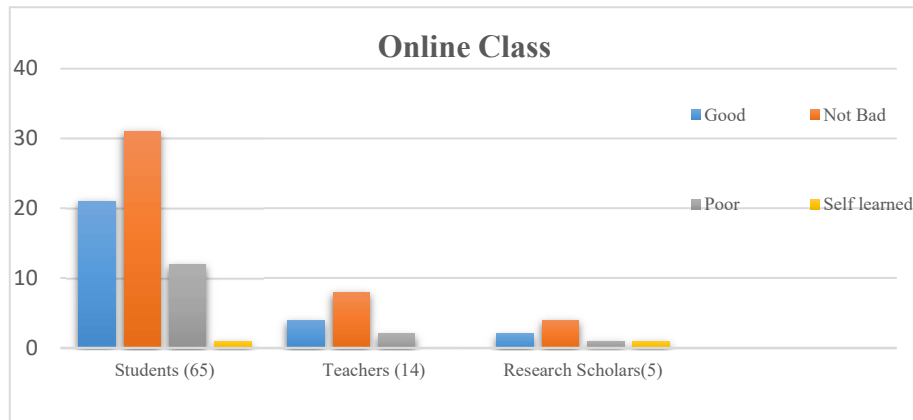


Figure 10 (Online Class)

From figure 10 we can see the chart of online classes during the pandemic, in total students responded 65, 21 students choose good, 31 choose not bad, 12 of them choose poor and one of them self-learned. Out of 14, 4 teachers choose good, 8 of them choose not bad and 2 choose poorly. 2 research scholars choose good, 1 choose not bad, 1 of them choose poor and one chooses self-learned. Due to lack of knowledge, technical problems, and pandemic make online class poor, most of them choose not bad due to internet problem and lack of interaction with teachers, students not willing to interact with the teacher during the online class.

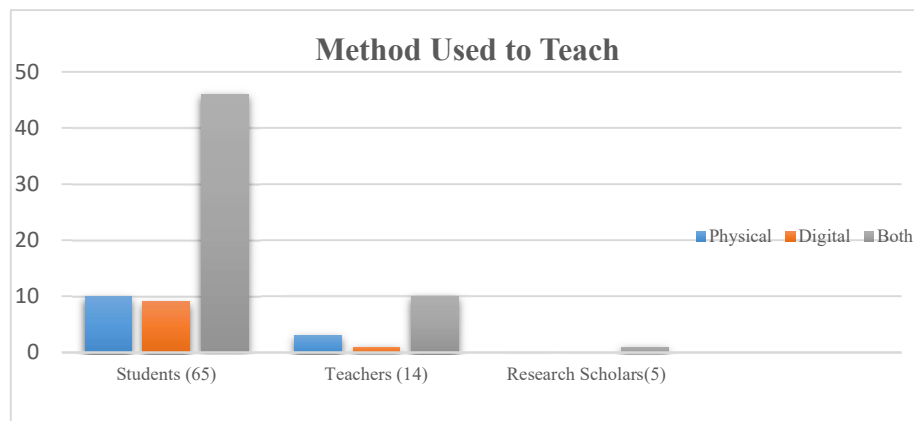


Figure 11 (Method Used to Teach)

In Figure 11 we can see the responses for teaching methods used by teachers, 10 students choose the physical method, then 9 students choose the online method and 46 students choose both methods. 10 teachers choose both methods, 1 choose digital and 3 choose an only physical method. All five scholars choose both methods. Nowadays teachers teach through both physical materials and digital materials, it is the easiest and best way to teach students.

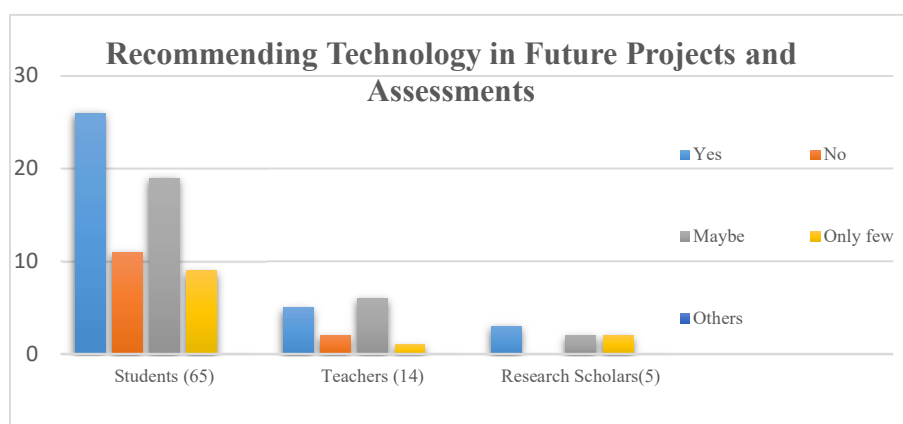


Figure 11 (Recommending Technology In Feature Project And Assessments)

In Figure 9, 26 students selected yes to recommend technology in future projects, assessments, exams, tests, and quizzes, 11 of the students choose no, 19 choose maybe and 9 recommend only a few concepts. 5 teachers choose yes, 2 choose no, 6 choose maybe and 1 of them recommends only a few concepts. 3 of the responses from the research scholars choose yes and 2 choose maybe. Due to fear of digital and technical disadvantages, many students and teachers selected may be options those fear can be eliminated by proper education about technology.

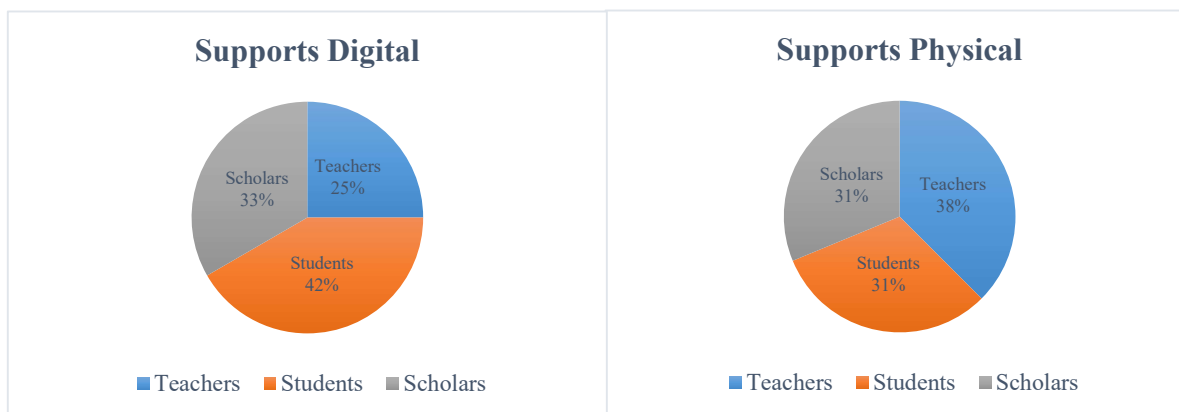


Figure-12 (Supports Digital Learning)

Figure 13 (Supports Physical Learning)

According to my survey maximum of students, teachers and scholars use digital devices, in Figure 1 we can see the number of devices used by both of them. From the pie chart Figure, 12 and 13, 53% of the students supports the digital way of learning. 33% of scholars support digital learning and 25% of teachers support digital learning. In Physical learning, it is vice versa only 31% of student and scholar supports the physical method. 38 % of teachers support the physical method. The above pie chart was created from the overall answers given based on responses received by digital form. Most of them be afraid of technology due to lack of technical knowledge, it can be braked by teaching technical knowledge to teachers and students. Although maximum of teachers, students, and research scholars use and support digital methods.

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APPENDIX

Survey Forms

For School Student's

* Required

1. Name
(Optional)

2. Email ID
(Optional)

3. Class *
eg- III Std/V Std

4. Devices *
You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Studying & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)
Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /summaries

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon , amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to get study materials and summaries *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning Process ? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe
☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & study

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
☐ Mobile/Websites/E-Books (by Digital)
☐ Both
☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
☐ Not Bad
☐ Poor
☐ Other: _____

17. Why ? *

18. Methods used by teachers/ guides /mentor *

Mark only one oval.

- ☐ Only Books and Physical Materials
☐ Only Technical and Digital Methods
☐ Both Books/Physical Materials and Technical / Digital Methods
☐ Other: _____

19. How did you Study in this Pandemic ? *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Did you do any projects/thesis/research ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If Yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet In TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For Student's (other's like CA,CS,Coaching...)

* Required

1. Name
(Optional)

2. Email ID
(Optional)

3. Department *
Eg-CA,CS,NET,TNPS,etc

4. Devices *

You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Studying & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)

Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /summaries

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon, amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to download free or torrent e-books *

usage of websites to get summaries and study materials

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning Process ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & study

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
- ☐ Mobile/Websites/E-Books (by Digital)
- ☐ Both
- ☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
- ☐ Not Bad
- ☐ Poor
- ☐ Other: _____

17. Why? *

18. Methods used by teachers/ guides /mentor *

Mark only one oval.

- ☐ Only Books and Physical Materials
- ☐ Only Technical and Digital Methods
- ☐ Both Books/Physical Materials and Technical / Digital Methods
- ☐ Other: _____

19. How did you Study in this Pandemic ? *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Did you done any projects/thesis/research ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For PG College Student's

*** Required**

1. Name
(Optional)

2. Email ID
(Optional)

3. Department *****
eg- M.A/M.E (English/Civil)

4. Devices *****
You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Studying & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)

Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /summaries

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon , amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of websites to see Summaries or get materials *

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning Process ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & study

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
- ☐ Mobile/Websites/E-Books (by Digital)
- ☐ Both
- ☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
- ☐ Not Bad
- ☐ Poor
- ☐ Other: _____

17. Why? *

18. Methods used by teachers/ guides /mentor *

Mark only one oval.

- ☐ Only Books and Physical Materials
- ☐ Only Technical and Digital Methods
- ☐ Both Books/Physical Materials and Technical / Digital Methods
- ☐ Other: _____

19. How did you Study in this Pandemic *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Do you done any projects/thesis/research *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method * *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For UG College Student's

* Required

1. Name
(Optional)

2. Email ID
(Optional)

3. Department *
eg- B.A/B.E (English/Civil)

4. Devices *
You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Studying & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)
Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /summaries

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon , amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to get summaries and study materials *

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning Process ? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe
☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & study

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
☐ Mobile/Websites/E-Books (by Digital)
☐ Both
☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
☐ Not Bad
☐ Poor
☐ Other: _____

17. Why? *

18. Methods used by teachers/ guides /mentor *

Mark only one oval.

- ☐ Only Books and Physical Materials
☐ Only Technical and Digital Methods
☐ Both Books/Physical Materials and Technical / Digital Methods
☐ Other: _____

19. How did you Study in this Pandemic *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Do you done any projects/thesis/research ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do your Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For Research Scholars

* Required

1. Name
(Optional)

2. Email ID
(Optional)

3. Department *
eg- MPhil/PhD in English

4. Devices *
You have / use

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Studying & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)

Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /summaries

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon, amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to get study materials *

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning Process ? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe
☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
☐ Mobile/Websites/E-Books (by Digital)
☐ Both
☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
☐ Not Bad
☐ Poor
☐ Other: _____

17. Why? *

18. Methods used by teachers/ guides /mentor *

Mark only one oval.

- ☐ Only Books and Physical Materials
☐ Only Technical and Digital Methods
☐ Both Books/Physical Materials and Technical / Digital Methods
☐ Other: _____

19. How did you Study in this Pandemic *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Do you done any projects/thesis/research *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do your Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For Language and Literature Teacher's

* Required

1. Name

(Optional)

2. Email ID

(Optional)

3. Department *

eg- English / Tamil

4. Devices *

You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Teaching & referring method *

Check all that apply.

☐ By Books

☐ In Library

☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)

Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /references

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon, amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to get teaching materials *

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning & Teaching Process ? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe
☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & teach

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
☐ Mobile/Websites/E-Books (by Digital)
☐ Both
☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
☐ Not Bad
☐ Poor
☐ Other: _____

17. Why? *

18. Methods used to teach your student's *

Mark only one oval.

- ☐ Only Books and Physical Materials
☐ Only Technical and Digital Methods
☐ Both Books/Physical Materials and Technical / Digital Methods
☐ Other: _____

19. How did you teach in this Pandemic ? *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Do you done any projects/thesis/researches ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do your Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

Survey Forms

For Teacher's (other than language & literature teacher's)

* Required

1. Name
(Optional)

2. Email ID
(Optional)

3. Department *
eg- Science/Physics/Maths..

4. Devices *
You have used or using

Check all that apply.



☐ Mobile



☐ Laptop / Computer



☐ Tablet



☐ Amazon Kindle

Other: ☐ _____



☐ I am not using any digital or technical devices

5. Teaching & referring method *

Check all that apply.

- ☐ By Books
☐ In Library
☐ By use of Technical/Digital Devices (like Mobile , Laptop , Kindle , etc.)

Other: ☐ _____

6. Educational apps & Website *

eg- Google Classroom , Solo learn , Wikipedia , SparkNotes , w3schools ,etc.

Where do you get most of your books/study materials /references

7. Use of Books *

Physical Books

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

8. Use of Library *

Time you Spent

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

9. Use of website to buy books & e-books *

usage of website to buy books online , website like amazon, amazon kindle , flipkart ,etc.

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

10. Use of website to download free or torrent e-books *

usage of website to download books online , website like kindle , freebook , pdfdrive...

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

11. Use of website to get teaching materials *

Mark only one oval.

	1	2	3	4	5	
Rare	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Frequently

Your Recommendation and Mostly Used Methods

12. Do you recommend digital or technological implement in Learning & Teaching Process ? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe
☐ Other: _____

13. Why did you recommend it ? *

14. Mostly used Method *

To refer & teach

Mark only one oval.

- ☐ Book/Library/Shop/websites to buy books (by Physical)
☐ Mobile/Websites/E-Books (by Digital)
☐ Both
☐ Other: _____

15. Why did you select it ? *

16. How was your online classes during this pandemic went ? *

Mark only one oval.

- ☐ Good
☐ Not Bad
☐ Poor
☐ Other: _____

17. Why? *

18. Methods used to teach your student's *

Mark only one oval.

- ☐ Only Books and Physical Materials
☐ Only Technical and Digital Methods
☐ Both Books/Physical Materials and Technical / Digital Methods
☐ Other: _____

19. How did you teach in this Pandemic ? *

Mark only one oval.

- ☐ Online Only
- ☐ By Physical Methods
- ☐ Both Methods
- ☐ Other: _____

20. Do you done any projects/thesis/researches ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Going to
- ☐ Other: _____

21. If yes or going to , How do you planned to do it ?

Mark only one oval.

- ☐ By the help of online materials only
- ☐ By using physician materials only
- ☐ Using both methods
- ☐ Other: _____

22. Do you recommend to do your Projects , Assignments , Class , Materials ,Exams , Tests , Practices , Practical through online or digital method ? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe
- ☐ Only few methods
- ☐ Other: _____

23. Any recommendations to learn language by using technical/digital methods *

eg - learning watching the video of Romeo & Juliet in TV/Screen

24. Any Comments or Questions or Recommendations *

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