



Importance of Laptop in Video Conferencing and E-Learning at Higher Education

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Abstract:

The role of electronic device Laptop in higher education is increasing day by day. Video conferencing platform enables online communication for audio meetings, video meetings, and seminars, conference with built-in features such as chat, screen sharing, presenting subject related PPT and recording of meeting all done in efficient way using laptop.

Keywords: Video conferencing software, importance of laptop, higher education

The History of Video Conferencing:

The important concept of video conferencing was first materialized in the early 20th century. The concept Video conferencing was first used in the 1920s by Bell Labs. These concept was originally created to simplify large scale conferences. This video conferencing system was developed through the 1930s to the 1970s. In the year 1960s, AT & T presented a working video phone at the world's fair. This video conferencing system continued to be refined through to the early 2000s.

Objective of the study:

1. To study about video conferencing platform using Laptop.
2. To Find out the benefits of video conferencing.
3. To study about how video conferencing works on Laptop.
4. To understand the history of video conferencing.

Need of the study:

Video conferencing platform eliminate the need for physical attendance for students, adding convenience to daily schedules for all involved, improving educational environment and increasing educational communication between teacher and students. There is very important to study about the video conferencing software and its use with the help of Laptop.

**Important Features of Video Conferencing Software using Laptop:****Video calling:**

Apart from face-to-face meetings, high-quality video calls are the next best thing for team meetings. Video calling enhances collaboration and helps teams feel more connected when they are unable to meet in person.

Audio calling:

Video conferencing tools will offer to attend a video conference via audio only by joining via a dial-in number. Various products will give participants the option to join a conference call with either audio only or video and audio.

Recording:

This feature allow users to record a video or audio conference call so it can be reviewed later.

Screen sharing:

Screen sharing feature allows participants to share their screens alongside, or instead of, a webcam feed. Screen sharing software is a great collaborative tool, for remote or hybrid teams that participate in frequent online meetings.

Document sharing:

Document sharing features will be built inside of a text chat function, but this is not a hard-and-fast rule. Some video conferencing software will offer straight forward document sharing without a text chat.

Meetings Scheduling:

The ability to schedule meetings like online lectures in-app comes with some video conferencing tools. Others software will integrate with external scheduling or use of calendar software.

Text chat:

In meetings Some video conferencing tools or video conferencing software provide a live text chat for participants to use , texts chats can be recorded.

Presentations:

While some video conferencing tools or online learning platform will allow for presentation hosting via integration with external presentation software, others will allow users to build and present slideshows within the application.

Subtitles and closed captions:

video conferencing products offer subtitles and closed captions allows global teams to reduce friction around language barriers or cultural differences.



The Following are Advantages of Video Conferencing Software using Laptop

1. Save time:

With the help of Laptop you save your lot of important time for doing any educational works. Video conference platform using laptop devices is more effective than desktop computer.

2. Save costs:

Online learning platform can be a financially beneficial tool as it can save users the costs associated with long distance and international calls. For businesses, communication outside stakeholders, regardless of travel capability. Video conferencing software can also reduce travel costs by allowing employees, students to attend meetings from the comfort of their office and college .

3. Maximize time and resources:

By utilizing video conferencing software, students can easily meet for a quick one-on-one or hold a last-minute virtual meeting. Boost teacher collaboration by screen sharing, file sharing, and using collaborative whiteboards—all without leaving their desks or having to book meeting rooms unnecessarily. Video conferencing software platform save lot of time and free up conference rooms for those persons who need them.

4. Empower remote and hybrid teams:

These Video conferencing software platform enables teams to work together. Teachers are no longer required to work from the same office building or even the same state, or country, for that matter. In a post-pandemic world that is shift to video conferencing tools. They are critical for connection and collaboration. Students or teachers use laptop anywhere places.

5. Increased savings

Before the COVID-19 pandemic restrictions forced organizations to meet with clients and hold conferences virtually, which video conferencing software enabled. Most organizations saved their entire travel budgets over this time and can continue to travel less. Save valuable money in the future.

6. Increased employee productivity

Students can join video conference meetings from anywhere. Also, these meetings become more accessible to students with disabilities, students in different states or time zones and potential new hires from different locations. Video conference platforms can also improve communication between teacher and students, as they enable users to discuss issues in real time with chat capabilities, file sharing and video calling.



7. Meeting transcription services

Many video conferencing platforms, including Zoom, Go To Meeting and Microsoft Teams, they offer meeting transcription features to prevent this type of issues. These important features of conferencing software transcribe the spoken words into the text and also, provide the text to the meeting attendees students.

8. Translation services for multilingual meetings

Organizations have various options to support multilingual meetings. The video conferencing software like, Microsoft Teams and Skype software offer the ability for peoples communicating over text to receive text translations. This important feature transcribes spoken words and translates them in real time for attendees to view or hear. This system enables the multilingual communication in meetings and supports more than 30 languages.

9. File and screen-sharing capabilities

New video conferencing software also offers the ability to share important content and a user's screen with one or more meeting attendees.

10. One-stop shop and the gateway to other apps

The Organizations may struggle to see the value of having access to apps within a video conferencing software platform, but Microsoft Teams offers this access. Microsoft Teams offers support to other tools from within the UC platform and so users don't have to leave the app to connect to tools such as a CRM system, Microsoft SharePoint or Microsoft Planner.

The Following are Disadvantages of Video Conferencing Software using Laptop

1. Lack of personal interactions

Video conference meetings can feel impersonal. Even with video enabled, students are simply communicating with screens. A lack of personal connections and face-to-face contact may cause students to struggle to get to know their teacher and develop personal connections with them.

2. Network connectivity issues

The Office settings reliable network connectivity, as well as backup options when the Wi-Fi network goes down.

3. Securing meetings

After these incidents, security came more into focus. Many video conferencing apps have safeguards in place that ensure only authorized students attendees can join lecture meetings, such as the use of passwords to access meetings and waiting rooms, so unknown persons aren't automatically allowed in a meeting without the organizers' permission or



approval. These valuable and important features have helped address some major security concerns.

4. Complying with laws and regulations

The organizations must also contend with the issue of storing and archiving recorded content.

5. organizing newly created data

The newly generated data content from recorded meetings introduces the new challenges as organizations consolidate and classify these information available to users.

6. Creating policies

Content organizer's must plan around new types of content and sources. Content organizer's should create new sets of policies, then apply and implement those policies on the newly created video, audio and text files from the meetings.

7. Video and Audio Quality:

One of the important common issues with video conferencing software is video and audio quality. It's critical thing to ensure that students have access to reliable internet when using video conferencing software to prevent potential frustration.

8. Security concerns:

As with any software used for internal and confidential communication, teachers and students need to assess a product's security protocol. While video conferencing tools have been the subject of security breaches in the past, Teacher and students have taken steps to enhance meeting security, such as requiring passcodes to enter a meeting, implementing

Following are important and best video conferencing software programs

Zoom

Zoom most used video conferencing software in the world because of many options included in every plan. The platform feature flawless video, crystal clear audio and instant sharing capabilities that make it our favorite option for video conferencing. Many people who use Zoom meeting often switch from other conference call software because of frustrations they experience using other available platforms.

Zoom is the very good and ideal web meeting software for users, peoples who want to simply and effectively connect with customers and clients remotely. It also facilities such as Chrome and Linux, OS, support for increased flexibility and secure socket layer (SSL) encryption to guarantee secure communications.

All Zoom plans include: Screen sharing from Laptop, desktops, mobiles or Laptop devices, White boarding, HD video and voice, Unlimited number of meetings per month,



Secure Socket Layer (SSL) encryption, Chat and messaging (private and group), Scheduling with Chrome extensions, Meeting record option, Ability to join a meeting by telephone, Instant or scheduled meetings, Online support, Breakout rooms, these software Breakout Capability let you divide your meetings into as many as 50 separate sessions.

A free version of Zoom this capabilities are limited. Conferences time or lecture time have many participants cannot go beyond 40 minutes. User management, interoperability, custom meeting IDs for individual participants, phone support and managed domains, you must subscribe to one of its premium plans. The paid plans are less expensive than comparable plans with other providers.

Zoom Webinars & Events

Zoom Events and Webinars let you engage with an unlimited participation in live, virtual events. You can also implement digital signage and scheduling displays to help enhance office communication and make booking meetings very easy.

Microsoft Teams

Microsoft Teams is designed to seamless efficiency and collaboration software. It also integrates with Office applications like Word and Share Point. Its infrastructure make it interactive. The company features has also made it possible to integrate Skype for Business into Microsoft Teams.

Microsoft Teams this program was designed as a response to the growing number of collaboration tools, like Slack, that have dominated the market in the last some years. Microsoft Teams is program a catch all chat tool for the workplace, but its video conferencing options is just as powerful. Users can also launch video conferences directly from their chats. All Microsoft Teams plans include: Web versions of Word, Excel and PowerPoint, File storage and sharing, Ability to host up to 300 users at a time, 24/7 phone and web support

GoToMeeting

Go to Meeting it remains a highly polished remote meeting software with a long list of important features that would satisfy users and the needs of most business environments.

This Go to Meetings software has a few important advantages including its polling and raise a hand features. Go to Meeting allows users unlimited video meetings and very secures these meetings with end to end encryption. All GoToMeeting plans include: 24/7 customer care, HD video, Unlimited meetings Screen sharing from Laptop, desktops, mobiles or tablets devices, Messaging, Web audio – no phone required, Security, its give With a 14 days free trial, you can see convenience features first-hand. Go to Meeting allows to users 10 to 250 participants, depending on the type of plan you get.



Google Meet

Google Meet is an very important part of Google's G Suite software. Maximum Customers can integrate Google Meet with the full range of Google products, including Gmail and Google Calendar. With Google Calendar.

Google Meet detects and displays the speaker's video feed and gallery view is also available in meeting. Google meet has also improved sound quality and also video quality and noise reduction feature within the platform to stay competitive in the market. A free Google meet account can host a meeting for up to 60 minutes. Businesses, Colleges, schools and other organizations can take advantage of paid premium Google meet features and including live streaming to up to 100,000 viewers within a domain.

Easy to join in one click meetings, Screen share capabilities for specific documents, the whole screen this platform ability to join from mobile, tablet, Laptop or desktop, Waiting rooms, Virtual white boarding for collaboration.

A free account can host up to 100 participants and users. A paid account also can host up to 250 per meeting.

EzTalks Meetings

The most selling points of ezTalks Meetings are its continuous technological innovations, advancements and its developers' unwavering commitment to introduce cutting-edge features. State of the art video meeting protocols are very important.

This solution is also compatible with Android and iOS devices. This solution has a relatively straightforward user interface even for first-time users. ezTalks Meetings is a best web application for video conferencing in healthcare, community and educations. With less distribution, adoption as zoom platform you may find less partners. All ezTalks Meetings plans include: Unlimited number of meetings, Instant or scheduled meetings, Join by telephone call-in, HD video and audio, Private and group chat, Interactive whiteboards, Screen sharing. In the free version, it's possible to accommodate 100 people in a single meeting for up to 40 minutes and host an unlimited number of HD video conferencing recordings on this eztalks platform.

StarLeaf

StarLeaf its own API, which makes company possible to customize its video conferencing. The company provides an extensive range of important upgrades and integrations including Slack and Skype for Business, and it comes with a complimentary app for Android, iOS and Windows all users. StarLeaf's unique architecture allows you to deliver business-wide connectivity and avoiding the limitations associated with virtual meeting room solutions. The platform is an incredible alternative for those peoples who don't want to spend



on costly on premise video infrastructure. All StarLeaf plans include: Global audio dial-in telephone numbers, Full interoperability with Skype for Business, Unlimited guest invitations, Calendar integrations with Outlook and Google. StarLeaf is currently UK-based, but has a growing international client base in Europe, New Zealand, and America and Australia country. The StarLeaf Company has plans to invest in APAC and expand worldwide.

Microsoft Skype:

Microsoft Skype feature like Group video chat makes it easy for up to 100 people to meet at online and collaborate all at once time. With group screen sharing feature you can present Power Point slides, important video recordings and more documents to your entire team. Benefits like, work more efficiently and long-distance learning is made possible for students all over the world. Assigning important projects and discussing due dates are very faster and more productive with face-to-face conversations through Skype's group video calling feature. Microsoft's well-known video conferencing software is used in every home and company.

Cisco Webex

Cisco Webex is very good video conferencing software for online training, webinars and remote support. These software is excellent for businesses that have legitimate security concerns. This webex software important features Transport Layer Security (TLS), third-party accreditations and encryption, firewall compatibility, single sign-on and secure scheduling options. Cisco Webex includes seamless integration with Outlook and this ability to use it across various platforms including Mac, Windows and iPads. It allows you to add specialized functions for training, remote technical support and also webinars.

Conclusions:

Video Conferencing software can be used in online lectures, conference, external important meetings and presentations. Many video conferencing tools also offer like, providing file sharing and instant communication features that support collaboration within teams. Online Teaching & Learning platform come with extensive feature sets that support collaboration and communication on several fronts.

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