

**Course
&
Test Series**



Video Conferencing

Module 2 - Video Conferencing

Video conferencing means holding a live, face-to-face meeting between two or more people in different locations using video and audio technology over the internet. It allows people to **see and talk to each other in real time** through computers, smartphones, or other devices, without needing to be in the same place.



Use of Video Conferencing across different areas:

1.  **Education (India)**
 - **Virtual school trip:** A Delhi school organizes an online trip to the **Indian Museum, Kolkata** using Zoom.
 - **Cross-cultural exchange:** Students from a school in **Mumbai** interact with students in **Nepal** to learn about each other's cultures and festivals like Diwali and Dashain.
 - **Special education support:** A child with learning difficulties in **Lucknow** attends personalized sessions from a **special educator in Bengaluru** via Google Meet.
 - **Parent workshops:** **Kendriya Vidyalaya** conducts a virtual session on parenting tips during exam season using Microsoft Teams.
2.  **Healthcare (India)**
 - **Remote consultations:** A patient in a **Himachal village** consults a **neurosurgeon at AIIMS Delhi** through video call on Practo.
 - **Research collaboration:** Doctors from **Apollo Hospitals** and researchers at **ICMR** meet virtually to discuss dengue vaccine progress.

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- **Support groups:** Cancer survivors from across India join a virtual group session hosted by Tata Memorial Hospital.
 - **Post-surgery follow-up:** A patient in Guwahati does a video check-up with their surgeon in Kolkata after an operation.
3. **Business (India)**
 - **Investor meetings:** A startup in Hyderabad pitches to investors in Bengaluru and Mumbai via Zoom.
 - **Virtual trade show:** IndiaMart hosts an online B2B expo where sellers showcase their products to buyers across India.
 - **Team-building:** An IT company in Pune organizes a fun online Bollywood quiz and games using Zoom.
 - **Customer training:** Zoho (a Chennai-based tech firm) offers online tutorials for customers on how to use their accounting software.
 4. **Government and Public Services (India)**
 - **Police training:** Delhi Police conducts an online session on cybercrime handling for new recruits using NIC video platform.
 - **Diplomatic meetings:** Indian Ministry of External Affairs holds a virtual conference with SAARC countries on disaster response.
 - **Virtual town hall:** A Panchayat in Kerala hosts a Google Meet session to discuss water issues with villagers.
 - **Crisis management:** During COVID-19, district collectors of Tamil Nadu coordinated relief work through regular video meetings.
 5. **Entertainment and Media (India)**
 - **Virtual auditions:** Aspiring singers from small towns send video call auditions for Indian Idol.
 - **Online concert:** Singer Arijit Singh performs a live online concert to raise funds for COVID relief.
 - **Fan meet-and-greet:** Bollywood actor Ayushmann Khurrana interacts with fans from across India in a virtual event.
 - **Remote content creation:** YouTubers from Chennai and Delhi collaborate on a cooking video through video calls.
 6. **Legal and Judicial (India)**
 - **Remote deposition:** A witness from Assam gives a statement through video in a case being heard in Delhi High Court.
 - **Client consultation:** A lawyer from Bhopal explains legal options to an NRI client via video call.
 - **Virtual mediation:** A family property dispute is solved with help of a mediator from Bengaluru, all done online.
 - **Online court:** During the pandemic, Supreme Court of India heard urgent matters through video conferencing.



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7. Science and Research (India)

- Researchers at IIT Delhi and IIT Bombay collaborate on AI research through regular video calls.
- Scientists at ISRO hold a live online discussion with engineers during the Chandrayaan-3 mission.
- A professor from IISc Bengaluru gives a virtual lecture on renewable energy to PhD students across India.
- Researchers across CSIR labs join weekly video calls to share results from ongoing COVID-19 studies.

Device used in Video Conferencing



1. Computer or Laptop

- Most popular device for video conferencing
- Built-in or external webcam and microphone
- Allows screen sharing, chat, and other features

2. Smartphone or Tablet

- Portable and convenient
- Uses front and rear cameras
- Apps like Zoom, Google Meet, Microsoft Teams available

3. Webcam

- External camera connected to a computer
- Provides higher video quality than built-in cameras
- Useful for desktop setups

4. Microphone and Headset

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- External microphone improves audio clarity
- Headsets with microphones reduce background noise and echo

5. Speaker or Headphones

- External speakers or headphones for better audio quality
- Headphones also help reduce echo

6. Video Conferencing Systems / Room Kits

- Integrated hardware designed for conference rooms
- Includes high-quality cameras, microphones, and speakers
- Examples: Polycom, Cisco Webex Room Kit, Logitech Rally

7. Display Screens

- Monitors, TVs, or projectors to show video feeds clearly
- Large screens often used in meeting rooms.

Video Conferencing Platforms

1. Zoom

- Use: Business meetings, webinars, online classes, and social events.
- Features: HD video and audio

- Breakout rooms (small group discussions)
- Screen sharing and whiteboard

- Meeting recording
- Strengths: Easy to use, supports large meetings (up to 1000 participants with add-ons), widely used in education and businesses.

2. Skype

- Use: Personal and professional video calls, messaging, and screen sharing.

Features:

- Video and audio calls
- File sharing and chat
- Can call landline or mobile numbers
- Strengths: Long-standing platform; good for international personal calls; now part of Microsoft.



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3. Google Meet

- Use: Online classes, team meetings, and personal calls.

Features:

- Easy access via Gmail and Google Calendar
- No need to install software on desktop
- Captions and screen sharing

Strengths: Fully integrated with Google Workspace (Docs, Calendar, Gmail); secure and reliable.

4. Microsoft Teams

- Use: Business collaboration, remote work, education.

Features:

- Chat, video calls, and file sharing
- Deep integration with Microsoft Office (Word, Excel, etc.)
- Virtual backgrounds and meeting notes

Strengths: Ideal for companies using Office 365; combines messaging and conferencing in one tool.



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