#### Preparation of Online Lecture through OBS Studio

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- Prepare content for Online Lecture : Presentation is preferred
- Different digital Platforms to deliver lecture: Zoom, Google Meet, Microsoft Teams, OBS
- Learning Management Systems to connect with students: Google Classroom, Edmodo, Moodle
- Various tools for conducting online exams for student assessment: Google forms, Microsoft forms, Testmoz, Kahoot
- Youtube : Huge repository of educational videos and learning channels.



- There are many platforms through which we can connect with students and deliver lectures online
- Some of them are free upto some extent, some are paid and some are completely free and open source software
- Zoom Meeting (most popular and very user friendly)
- Google Meet
- Microsoft Teams
- Open Broadcaster Software (OBS)- completely free- we recommendyou decide.



- Prepare the content of the lecture in presentation form.
- Use MS power point or LATEX beamer for presentations.
- Make sure each slide has limited content.
- Restrict entire lecture to maximum of 50 minutes duration.
- Avoid reading the content as it is, instead explain the summary with examples, etc.
- Keep focus on the main topic.
- State the objectives of the lecture at the beginning.
- Engage students through discussions and home assignments
- Provide the content in advance to students so that they can go through it before the online lecture.

# Some tools for effective online lectures





- Xournal++ is a handwriting note taking software.
- Pen tablet (e.g. iball, cost less than Rs.5000) is very much useful for virtual writing.
- Epic Pen: Write and draw over any software with Epic Pen, the worlds most popular screen marker



- Download the latest OBS Studio from the official website:
- Windows 64 bit:https://cdn-fastly.obsproject.com/ downloads/OBS-Studio-25.0.8-Full-Installer-x64.exe
- Windows 32 bit:https://cdn-fastly.obsproject.com/ downloads/OBS-Studio-25.0.8-Full-Installer-x86.exe
- Install OBS Studio and we are ready to use.
- We can use OBS for recording our computer screen and going Live on platforms like Youtube, Facebook, etc.

# Open Broadcaster Software(OBS)-Layout





• Sources: We can add Display Capture, Video Capture, Window Capture, etc.

• Controls: Start Live streaming, Recording, Settings, etc.

## **OBS:** Adding Sources





• Click on plus symbol and add the required sources.

• For example, Video Capture Device, Display Capture.

#### Adding Video Capture Device





#### Position of Video Capture Device





#### Adding Display Capture





#### Placement of both sources





The final output of the recording will be displayed in the above frames.

## **OBS:** Controls



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• Click on Start Streaming/Recording to stream or record the lecture.

Click on Settings for different options.

## **Output Settings**



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		Enable Replay Buffer	

- Change the streaming quality, default settings are fine most of the time.
- Adjust Recording settings as per user requirements.

#### Hotkeys for quick use



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We can assign shortcut keys for almost all features available in OBS.



#### How to find recorded videos



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• Goto File then click on Show Recordings to open the saved videos.

# Converting videos to MP4 format





- Goto File then select Remux Recordings.
- Select the video to be converted to MP4 and click on Remux button
  - to convert.

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# Live Streaming through OBS





• From controls select settings, then click on Stream

• Select the platform to stream the lecture, say Youtube.

# Youtube Live Streaming through OBS





- Long in to youtube account and click on plus symbol
- Select "Go Live " to proceed further.

## Youtube Live Streaming through OBS



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Enter the streaming details, schedule date if necessary and click on "Create Stream".

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#### Stream Key to be provided in OBS







- Download and install OBS studio
- Add two commonly used sources: Display Capture and Video Capture Device
- Adjust the positions of the above two sources
- Click on "Start Recording". Now whatever you do on computer, it will be recorded: explaining your ppt, showing other documents, etc.
- While recording, you can't see your face screen, but it will be visible after saving the video as per the positions of the sources adjusted.
- Best wishes for your first OBS recording and Live Streaming.

