

Development of eTutorial for Online Course

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Discussion Points

- What is a Tutorial and eTutorial?
- Need of eTutorials
- Scope of eTutorials
- Presentation Formats of eTutorials
- Need for Presentation Formats
- Video File Formats
- Process of Developing eTutorials
- Requirements of Story Board
- Tips for Developing Effective Video Tutorials
- Digital Tools for Developing Video Tutorials
- Criteria for Evaluation of Video Tutorials

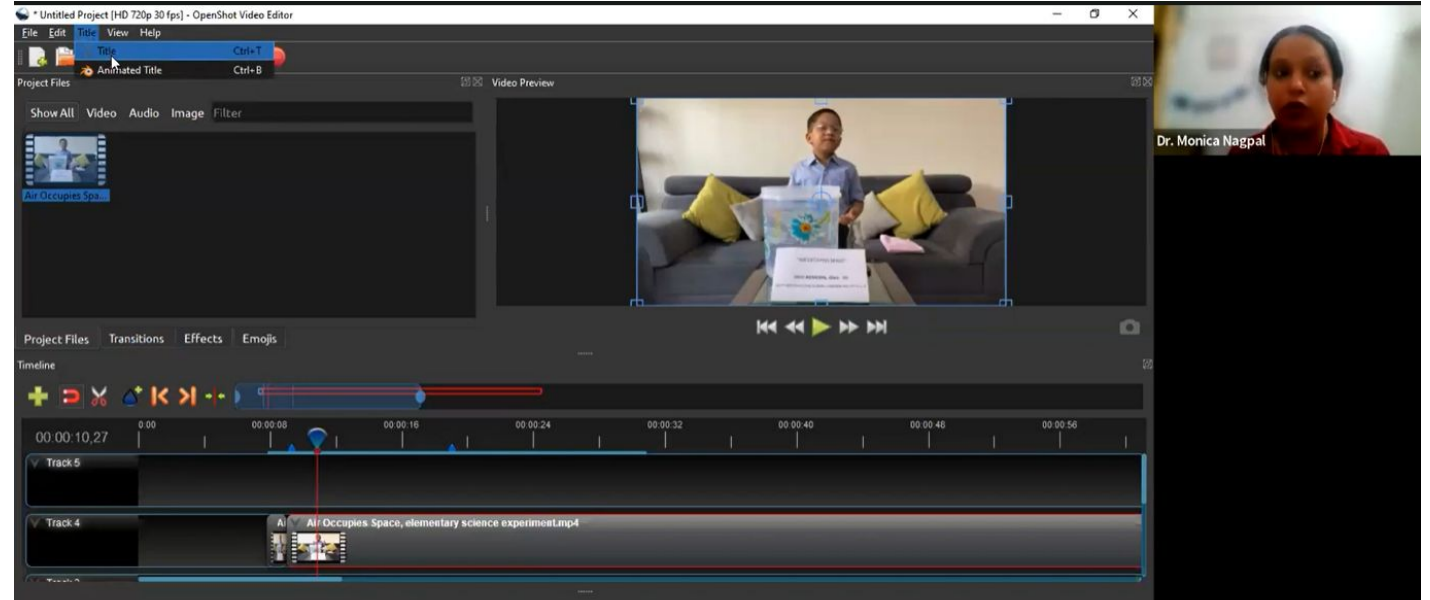
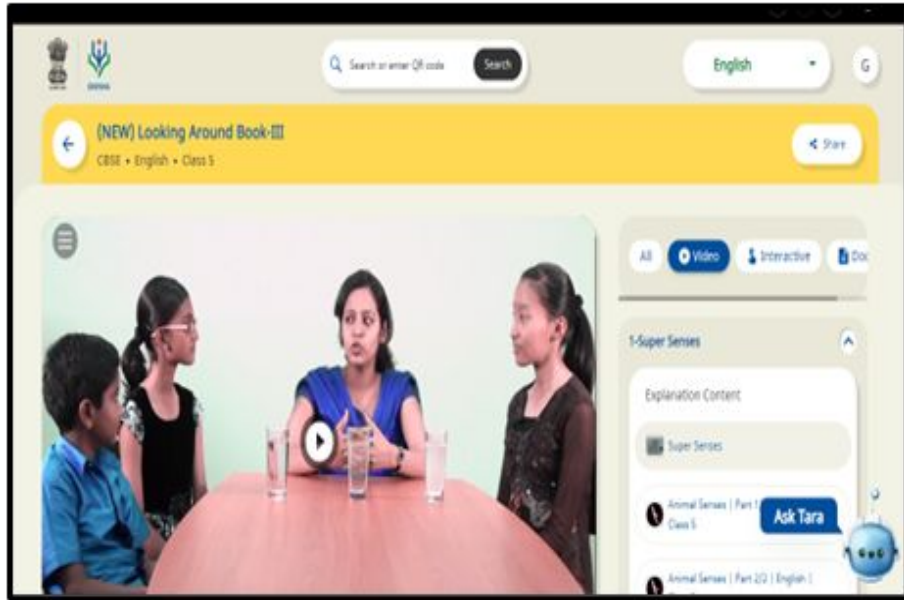


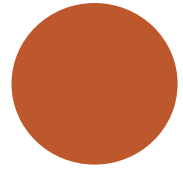
What is a Tutorial in Online Courses?

Tutorial- Process of engaging students in teaching sessions by a tutor (or teacher)

eTutorial- Use of ICTs or digital teaching-learning resources or any form of electronic gadgets for the delivery of subject matter

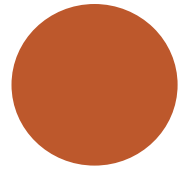
Examples of eTutorial





Need of Tutorials in Online Courses

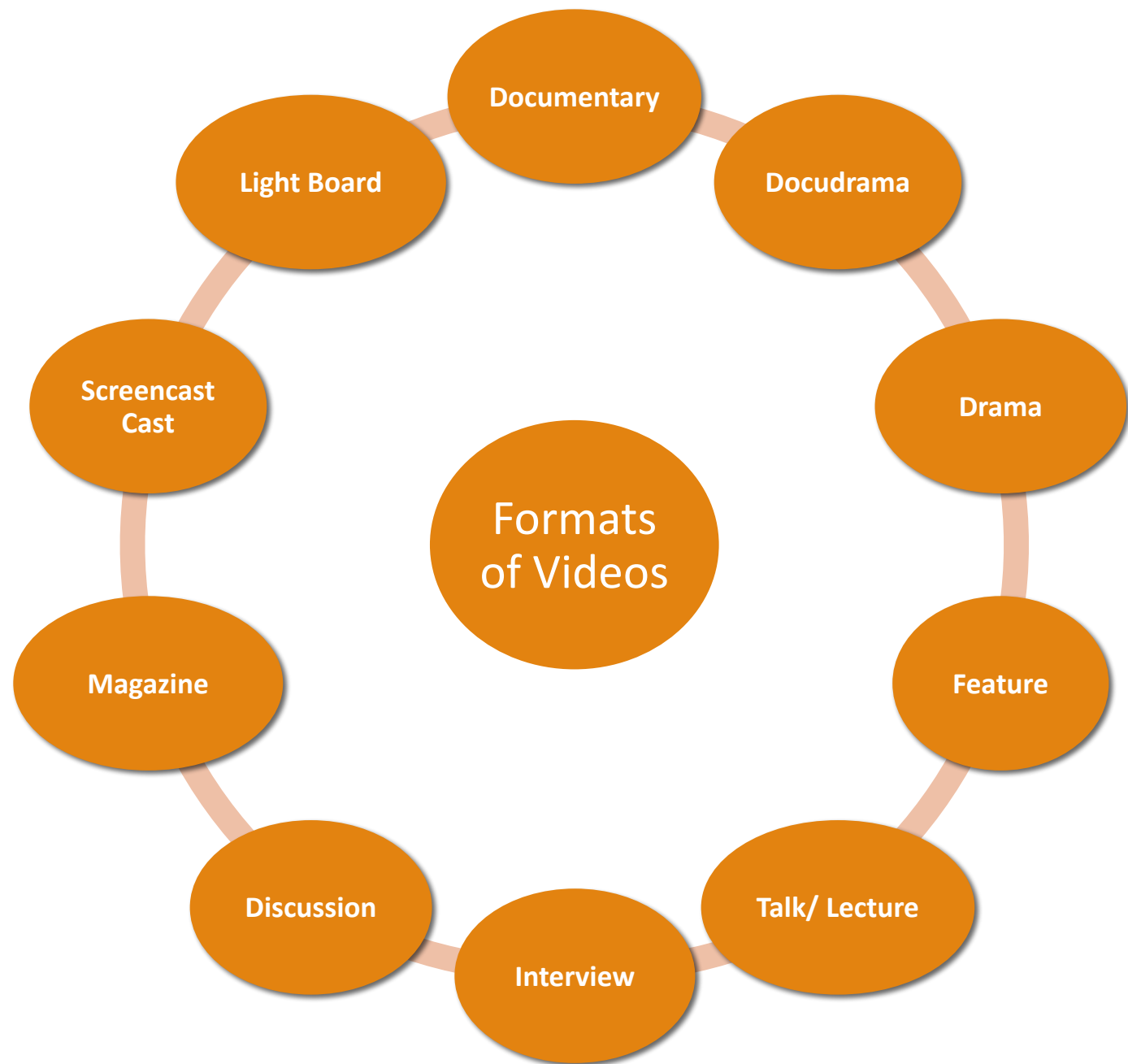
- Learn subject matter
- Develop skills and competencies
- Variety in presentations
- Sustain motivation and interest
- Student engagement
- Active learning
- Anywhere, anytime learning
- Improve digital skills
- Knowledge retention

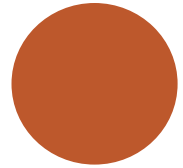


Scope of eTutorials in Online Courses

- Teaching -learning of all subjects
- Developing Skills and Competencies
- Medium for assessment
- Catering to Diverse learners
- Useful for Specially abled Learners

Presentation Formats of Video





Presentation Formats

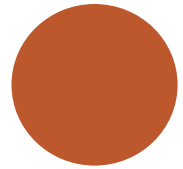
Documentary- This format needs documentation. No fiction, imagination and speculation is allowed in this format but only the facts which are duly authenticated by research and factual elements.

Docudrama- Here there is no compromise with the fact but mode of presentation is speculative.

Interview- Experts are invited in this format and an interviewer asks questions from them. Questions can either be framed earlier to interview with consultation of the expert or it can be asked ex tempore.

Feature- Feature is a format where some particular attribute is specifically focused in a program. It covers only one feature or specialty of an aspect.

Lecture/ Talk: Lecture videos are instructor directed on screen or the voice over of instructor is heard explaining a visual like presentation, map or an infographic on screen.



Presentation Formats

Magazine- When various kinds of contents are covered altogether.

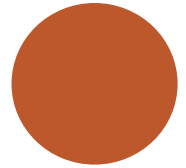
Screencast: Screencast or screen capture is video recording of the computer screen using an application installed in the computer.

Light Board: Lightboard is a glass chalkboard pumped full of light. It's for recording video lecture topics. You face toward your viewers, and your writing glows in front of you.

Micro: Micro video or bite sized video is a short video. The formula for creating these micro videos is Hook-Prep-Message-Review-Next.

Explainer: The explainer video or the tutorial is for explaining a topic. It is generally used to explain a complicated process using visuals or demonstrate some action.

Storytelling: Explain concepts, making the content more relatable and memorable. This can be particularly effective for historical events, ethical dilemmas, or even complex theories.



Video File Formats

- Moving Picture Experts Group (MPEG-4) or MP4
- Quick Time Format or MOV
- Windows Media Video (WMV)
- Flash Video Format (FLV)
- Audio Video Interleave (AVI)

Process of Developing Video Tutorials

Pre-Production Stage

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Production Stage

A light orange arrow pointing downwards from the bottom right corner of the Production Stage box to the top right corner of the Post Production Stage box.

Post Production Stage

Pre-Production

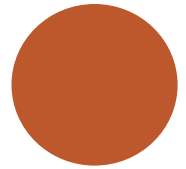
- Need Analysis
- Selection of the Content/Topic
- Formulating Objectives (Learning Outcomes)
- Development of Programme Brief
- Script Writing and Review
- Preparation of Storyboard and Review
- Interaction between Academic and Technical team
- Selection of Production Team

Production

- Recording/Shooting
- Own devices (Video Software)
- Video Studio

Post Production

- Technical Design
- Visual Design
- Editing- Integration of Resources, Effects, etc.
- Academic Preview
 - i. Technical
 - ii. Content
 - iii. Pedagogical
 - Try out
 - Packaging
 - Development of Metadata
 - Dissemination



Pre-production Stage

Identify Learning Objectives: Define what the learners should know or be able to do after watching the video.

Analyze the Audience: Understand the demographics, prior knowledge, learning preferences, and specific needs of the target audience.

Determine Content Requirements: Identify the key topics and information that need to be included to meet the learning objectives.

Assess Resources: Evaluate the available resources, including time, budget, equipment, and expertise.

Select Media and Tools: Choose the appropriate tools and media formats (Documentary, explainer video, Micro, screencast...) that will effectively convey the content.

Create a Detailed Script: Write a script that outlines the content, dialogue, and visual elements. Write a detailed script including dialogue, instructions, sound effects, background music and visual



Programme Brief- Example

Programme Brief - Format

Title of the programme:

Class :

Objectives:

Target Audience:

Content coverage

Media: Video

Presentation Format: Discussion/ Demonstration/ Interview/ drama/ role play/ documentary/ docudrama/ feature/ lecture/ vox-populi (voice of the people) / story tell/ cultural activities – dance/ singing/ recitation/ model reading etc....

Description of the programme:

- Story Line
- The purpose of the video: Ways it can be used for teaching -learning- assessment to be described

Production Team:

Script Writer -

Content expert -

Technical expert -

etc



Format of Script

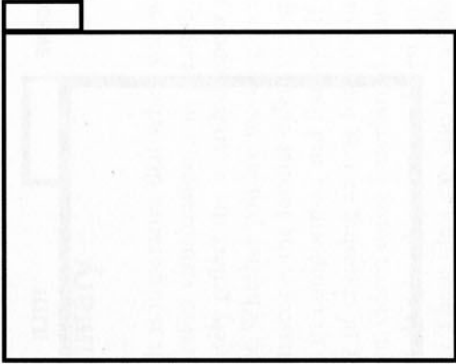
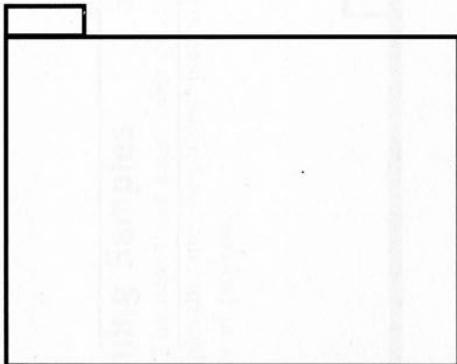
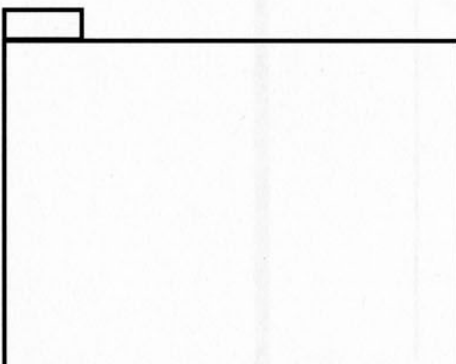
Audio	Video	Text	Background



Format of Script

Audio	Video (Visuals)
Dialogues are written here	Instructions related to video shooting are given here.
Dialogue is generally written in double space in upper and lower case letters	Instructions and camera shots are on the Video side and specific instructions can be made ALL CAPS.
CHARACTER names are given prior to each dialogue	Physical movements are shown on the video side.
Everything else is in Caps: CHARACTER NAMES, SOUND EFFECTS AND MUSIC.	Any specific focus visual elements is mentioned here
SOUND EFFECTS AND MUSIC ARE EACH GIVEN IN SEPARATE LINES and are shown on the audio side.	Any Images, captions, slides, maps, infographic to be added are shown in the visuals column.

Story Board Format

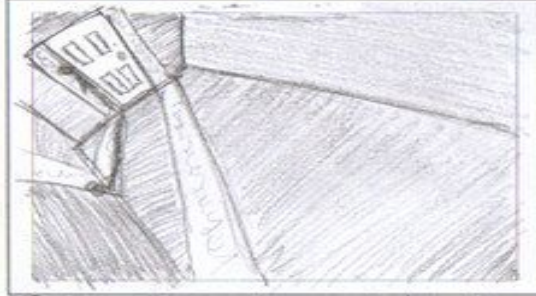
SCENE		PAGE
SHOT #	SHOT #	SHOT #
		
ACTION	ACTION	ACTION
DIALOGUE	DIALOGUE	DIALOGUE
FX	FX	FX

Source: Wikimedia Commons

Story Board Sample

Russ Fan
CA3D-431-062

ID: Scene: 1 Sequence:



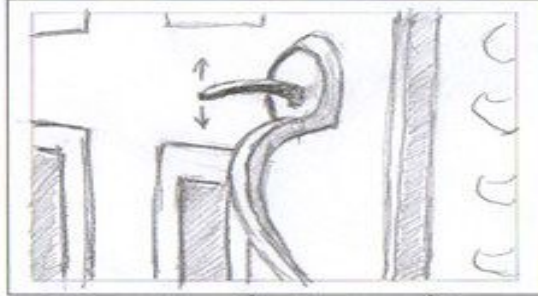
Est. Park Foyer Light streaming through windows flanking the door. Silhouette passes in front of the window. (Flip frame, dar on right, light on far wall?)

ID: Scene: 4 Sequence:



Silhouette of an large imposing man, camera at foot level. Man looks steady but in ominous music

ID: Scene: 2 Sequence:



Cut to Door Handle See/Hear Door Jiggle. Then Hear Key Jangle and Key Enter Lock. Turn, Click, Thumb stretch Moves down

ID: Scene: 5 Sequence:



Character's knees buckle, slumps stage right. Camera zooms in slowly to follow hand holding bottle

ID: Scene: 3 Sequence:



Door slams open

ID: Scene: 6 Sequence:



Hand fumbles up and down over the light switch we hear a click as the light switch is flipped.

Production Stage

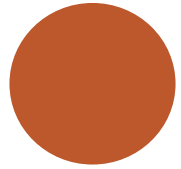
- Recording/Shooting
 - Own devices (Video Software)
 - Video Studios



Camera Shots and Angles



Source: <https://www.pinterest.com/pin/503418064574114740/>



Post-production Stage

- Technical Design: (Accessibility, Usability, Adaptability, Scalability, Sustainability, Interoperability)
- Visual Design: (Graphical User Interface (GUI), Fonts, Layout, Colour)
- Editing- Integration of resources, effects, etc.
- Academic Preview
 - ❖ Technical
 - ❖ Content
 - ❖ Pedagogical
 - ❖ Try out
- Packaging-
 - ❖ Development of metadata
 - ❖ Dissemination



Tips for Developing Effective Video Tutorials

- A well-designed plan, script and storyboard
- Quality Digital resources (camera, video recorder, lights, etc.)
- Adequate lighting (Natural, Studio, etc.)
- Powerful video recording and shooting software
- Choose appropriate presentation format
- Select appropriate style, pace, etc.
- Make presentation interactive
- Avoid sensitive discussions
- Target Audience
- Short and simple sentences
- Script
- Good Orators
- Quality of shots
- Music
- Sound effects
- Video editing Facility



Digital Tools for Developing eTutorial

FOSS

Openshot Video
Editor

Kdenlive

OBS

Freemium

Canva Movie Maker

Loom

Animoto

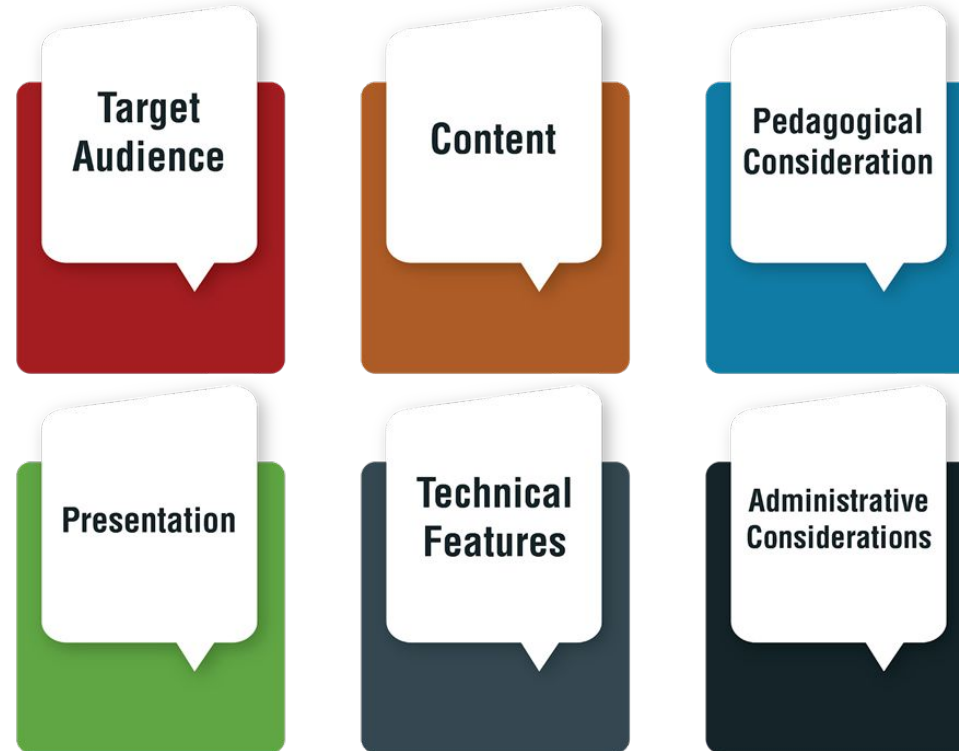
Premium

Adobe After Effects

Adobe Premiere
Pro



Criteria for Evaluation of Video Tutorials



Content

- Accuracy
- Relevance
- Content coverage
- Updated
- Aligned with curriculum
- Spatial contiguity
- Temporal contiguity
- Scope and depth appropriateness to target audience
- level of difficulty
- Integration of real-world experiences etc.

Target Audience

- Age group
- Previous knowledge
- Social / cultural background
- learning styles
- language
- Demographic information
- Emotional development
- Ability level
- Social development etc.

Pedagogical Consideration

- Objectives
- Method of delivering content
- Media selection
- Presentation format
- Free from bias
- Contextual to local needs
- Scope for interaction
- Use of relevant images/ examples/ illustrations
- Support continuous learning
- Multiple modes of assessment
- learner engagement
- Skill development etc.

Presentation

- Aesthetics
- literary and social values
- Motivation
- Innovative/ creative
- Universal design of learning
- Font
- Effects
- Coherence in media elements
- Chunking and organisation
- Scope for personalisation
- Inherent interactivity
- Suitability to learner with special Needs
- Addressing gender equality
- Multiculturalism etc.

Technical Features

- File format
- Architecture
- Usability
- Interaction
- Navigation
- Adaptation
- Reusability
- Metadata
- Interoperability compliance
- Accessibility
- loading Time
- license
- Duration etc.

Administrative Considerations

- Cost
- Delivery mechanism
- Support
- Services
- Training
- Maintenance
- Infrastructural and technological requirement
- Source of procurement/access etc.

Let's take some question???