

EDUCATIONAL TECHNOLOGY AND ICT

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Week-12

Lecture-57

Module-57: Digital Content Creation Tools: Audio

Hello dear learners, welcome to the SWAYAM-NPTEL course on Educational Technology and ICT. I am your course coordinator, Dr. Sarita Anand from the Department of Education, Vinaya Bhavana, Visva-Bharati, Santiniketan, West Bengal, India. Today, we will talk about Module 57 on digital content creation tools, especially for audio content. This is Lecture 57. Before going into the lecture, we will review the concepts covered.

Earlier, we covered digital content creation tools, especially for text content. We discussed Google Docs and MS Word. We also explored AI-powered digital content creation tools for text content creation. Additionally, we practiced hands-on text content utilization through Slidesgo. Not only PPT generation but also text utilization and SlideShare, as I mentioned earlier, and ResearchGate, where you can properly share text content for learners' benefit.

Now, we will discuss digital content creation tools, especially for audio content generation. We know that audio content is in high demand due to its small file size and minimal storage requirements. Audio books and podcasts are easy to listen to. Online courses use this type of audio content, and various digital tools enable users to create, edit, and enhance audio files efficiently. These tools cater to different learner needs, especially for visually impaired learners, who benefit greatly from audio content created by teachers and researchers. What are the benefits or features of audio content?

Definitely these are multi tracking editing are available with the audio content, noise reduction and audio enhancement facilities there if you are using the proper tool and voice modulation is there and you can add the music with your audio content and text to speech or AI voice generation is also available and I had mentioned that maybe I forgot to mention

that a NotebookLM is there which can be utilized for the audio generation from the text. Then the podcast and streaming integration definitely there are podcast generation platforms are available which are providing the live streaming like Podbean is providing the live streaming for the learners. Now the digital audio content creation tools I have mentioned few of them.

For your benefit, whatever tool will be suitable for you, you can go for it like Audacity, Adobe Audition, GarageBand, Logic Pro X and many more I have mentioned here Descript and Euphonic. And I always suggest that you should try to use it and after using you can decide that yes this is good for me. not only by my suggestion or any other one's suggestion. So, what are the advantages? It enhances the creativity, because you are a teacher and you are only providing the text material that will not go for our VI student, visually impaired students. So, it will be enhancing our productivity, creativity, accessibility for the different learners and also the professional quality will be increasing that yes that teacher educator or the teacher is having efficiency to provide all kind of content for the learners. Easy Distribution if you are creating the content audio content and you can use it you can embed it on your website you can share it in the social media or any other audio platform then the challenges definitely there are, if the advantages are there, challenges will be there. Every technical field is having similar kind of challenge like technical training is required, cost is high, hardware dependency is there and the ethical concerns are also there.

Like if you are using overlapping your text content in the audio form and utilizing the music freely available, then okay. Otherwise, the copyright issue will be there regarding the use of music. So, I will not take much time on the lecture part, but I will go for the practical audio content creation. These ideas are suggestive.

Especially me as a teacher, I always go for the short voice notes with the help of WhatsApp. Every time I am instructing my students, giving some kind of information, some orientation. If there is not required large number of size or the time for the audio, then I always go for the instant audio recording with the WhatsApp. It is providing the maximum 10 minutes recording and for the daily purpose classroom teaching learning process, you are instructing, telling something, elaborating, giving the answer for the student's query in the students group. Definitely you can go for the audio content creation with the help of audio recording or what we call it voice messaging with the help of WhatsApp type of your instant messaging apps.

OK, then comes the smartphone voice recorder and record which not only can record, but you can easily share it with the students and there will be no limit. It depends on your memory of your mobile. If you are having enough memory, then you will record half an hour, one hour lecture and you can share with your student. I always suggest that go for the small videos or audio. Otherwise, students become bored.

Then if you want to record, I am suggesting this is the screenshot of my smartphone and this is the left side you can see that I have given the name of that audio I have generated this audio and I will try to show you by just to, first you listen then you can understand that what I am talking about, ok. I have recorded now. I will play for you and you can listen that how we can use the smartphone. Welcome to SWAYAM NPTEL course on Educational Technology and ICT and today I am talking about the digital content creation or especially on audio content and for the audio content creation, there are several apps but right now I am talking about the practical audio content creation.

First, we can use the WhatsApp audio recording like other recording apps where properly we can record and instantly we can share the audio content to our students. The second way is the smartphone. Now we can go for the other platform for the podcasting. Earlier we were using the term podcast but nowadays you will see that for the audio content they are not using the podcast but also the videos are there for the podcast. So, I will suggest that you can use it for a podcast or podcaster app.

Here I have mentioned the one app that is called Podbean and this is the very good platform because this is not only providing the easy way to create the audio content but also you can go for the live sharing and live streaming also. So, this podcast is very good, in my opinion, and I have created my own content here. Lots of content is available there, and here you can see the plus sign. You just have to go and click on this, and your recording will start. You can name it just like I have given: EdTalks SaritaAnand EdTalks. You can create your own podcast website, and we're using this Podbean, and you can utilize it. So, I will show you how it works for the audio content. Okay, you can see that there is lots of content available here, but I will just show the first one. I will play this. This is the content created for my M.Ed. students on research methodology, so I will just show you that. The content is not only audio but also music, and you can see that it is playing beautifully. Namaskar, I am Dr. Sarita Anand, Assistant Professor, Department of Education, Vinaya Bhavana, Visva-Bharati, Santiniketan, West Bengal, India.

Today, we will talk about the types of sampling. Basically, there are two types of sampling: random sampling and non-random sampling and the third type is mixed sampling. This is all for now, and now we will go to the next topic.

This is all about Podbean. If you are interested in using it, you can go and click on the Podbean website, and you can generate your own ID. And you can start working. Now, this is another platform to share your audio content, like the content I have generated. I showed you in the earlier slide that you can see here. You can see the same content I have shared here for the greater interest of the learners because if you are sharing the audio content with your learners on their mobile phones in audio form then only that will be included to your students who are in your class. But if you want to share on the large scale then that same audio can be shared with the other platforms like I am using. creators Spotify. Spotify, you are very much aware and this Spotify is also providing the option for creating the podcast. Earlier they were only using the term podcast for audio but now they are providing the facility to change our audios in the video form mp3 to mp4 and also, they are allowing the mp3 only.

So, they are giving the to create the URL, not only the URL, if you will upload your content, they will provide the embedded option also. If you are having your website, you can copy this code and you can embed it on your website like I am using the Google sites and I can embed this code on my Google site. Also, if you are using your LMS, I am using Google classroom so I can embed this code to my Google classroom for the use of my students also. So, we will see that how it works same audio which you have listen on the audio on the phone that will be here on the Spotify.

So, let us listen. Hello, dear learners. Welcome to SWAYAM NPTEL course on Educational Technology and ICT and today I am talking about the digital content creation, especially on audio content. audio content creation there are several apps but right now I am talking about the practical audio content creation first we can use the whatsapp audio recording like other recording apps where properly we can record and instantly we can share the audio content to our students the second way is the use of mobile phone audio recording options where we can record and instantly share

Then I will play this audio, which I had made earlier. As you can see, this also has music mixed in. So that you can compare. Namaskar, this is Dr. Sarita Anand from Visva-Bharati, Santiniketan, West Bengal, India. Today we will talk about partial and multiple correlations in educational research.

First, we have to understand under which conditions we use these types of correlations. While conducting studies in the field of education and psychology. I hope you can understand that there is a difference. So, if you are interested in generating audio content, you can definitely do it. Edit it with some apps.

I have used Music, free music available on platforms like Flickr or Pixabay, which I have used. These platforms allow you to download free audio or music. So, I have utilized that. I hope you will also try it.

And the next one is audio content creation with the help of NotebookLM. This NotebookLM is also with the research based. Actually, this website is good for the researchers and its motto is that think smarter, not harder. So, if you are having the book hard copy PDF. of 200, 300, 500 pages and you are interested to make its gist and you do not have the time to read the gist then you can go for the content creation in the form of audio. So, I will suggest you just you have to go for this NotebookLM.

Go enter in and upload your PDF document and ask this platform to do what you want to do, that I had just uploaded one document there is a research book of Creswell's "Quantitative Qualitative and Mixed Method Research" and I had uploaded, it is almost 500 pages book and Instructed NotebookLM that please prepare the PDF, one minute I will see to it. Now it is opening. It will take little time. So, dear learners, you can see that this was the book Designing Qualitative, Quantitative and Mixed Method Research by Creswell.

I had uploaded and you can see this app is so wonderful app that more than 500 pages book, it has created the audio of 36 minutes. You can imagine that how they are prepared their apps, the softwares, the wonderful software. And I will maybe the accent problem is there because the software is made by the foreign people. So, accent will be different. But definitely if you will listen carefully, you can understand that gist is being provided in the audio form in a discussion mode.

So, we can easily understand the concept given in this book. So, I will play. I will not disturb you for one minute at least. All right. So, we're diving into research design today. Sounds good. We've got, looks like, some excerpts from a research design textbook here. Okay. Creswell, I think, is the author. Yeah.

We're going to try to unpack this, get to those core concepts, the stuff that I think helps you really feel like you can design good research without, you know, years of grad school.

Absolutely, yeah. So, ready to dive in? Yeah, let's do it. So, first off, what even is research design?

I know we kind of throw it out there live. Absolutely. Absolutely. Right, like their sense of community or their daily routine. Exactly, yeah.

It gives a voice to those lived experiences. Okay. Which really enriches the understanding in a way that numbers alone can't. I like that. That's really insightful.

Yeah! and then you have this mixed-methods approach. Right. Is it literally just... and their research? So, like, even if two people are studying the same topic...

Their findings could differ depending on their worldview. Absolutely. And that's why it's really important to understand those different worldviews so we can critically evaluate research. Okay, let's talk about that then. What are some of the different worldviews out there?

Yeah, so there are four prominent worldviews. Post-positivist, constructivist, transformative, and pragmatic. Okay, break it down for me. What's post-positivist? Yeah, so think of a post-positivist researcher as kind of like a detective searching for the objective truth.

So, dear learners, I hope you can understand the importance of this kind of apps and software. So, I suggest you all to please go ahead and use these kinds of platforms for your better learning and working in your workplace. Now we will conclude that definitely, the digital audio content creation tools have changed the scenario of e-content in audio form, the way of sound production, editing, and sharing options. Nowadays, these audio contents or podcasts are the need of inclusive classes, especially for our visually impaired students. Not only visually impaired students but ourselves also.

Whether for the personal use, professional music production or the content production, educational content or these tools are empowering the creators to produce the high-quality audio content efficiently. I have given the example of Podbean. Podbean is a versatile digital content creation tool for audio creation and to diverse range of the users and independent podcasters to large organizations also. So, anyone can utilize it. It simplifies the podcast creation and distribution making.

It is an essential platform for anyone looking for the audio contents. Spotify is similarly quite famous and so you can go for it also for the educational purposes because creators

Spotify is not only allowing the audio but also the video podcast. So, both facilities are there here on the Spotify and due to the new apps and websites there are advanced technology and we have seen on the NotebookLM that audio content creation is much easier and much faster. useful for the learner's teachers and other people who want to utilize the text to speech and speech to text facility with our mobile phones to create the digital audio content which I have shown with my mobile phone so for this I have given the some references for your further reading I hope you will go through it and find this lecture useful for you keep learning thank you.