Hello and welcome.

My name is Russell D'souza and today

we will be learning about visual

media that's projected media Part B.

you would learn about

the concept of projected media,

followed by the types of projected media,

namely the digital visualizer and

films at the end of this session

you should be able to explain

the concept of projected media.

You should be able to name the two types

of projected media tools and list the

advantages of media tools when we look

at visual Media we can categorize it into.

Four different kinds,

so the first kind is print media.

The second one is projected media,

the third one is non projected

media and the 4th is.

3D media or three-dimensional media.

In this session we will be

looking only at projected media.

Let us take the short phrase

projected media and break it down

into those two separate words.

So we have media and projected media

are the means for transmitting or

delivering instructional messages.

To the learners so as to achieve

effective learning while projected,

means the use of a device that operates

on electricity and cast text images,

real objects of films on a screen.

And if you put these two terms together

and look at the phrase once again,

then projected media are forms

of media which could be visual.

Audio or audio visual in nature.

That requires projection and electricity

in their use now under projected

media we have different kinds,

for example.

We have the slides which are projected

through a slide projector and I'm

pretty sure that most of you may

have not seen a 35M slide projector.

That's something outdated.

Films and then films we could look at

film strips, motion picture movies.

Then we have the opaque and

overhead projection.

That's the OHP which is no longer in vogue,

and we have the digital visualizer.

So what is the purpose

of using projected media?

Projected media basically helped

teachers to simplify, clarify,

analyze,

synthesize and even magnify

relationships between objects or ideas.

The very first one that we're going to

look at is known as the digital visualizer.

So a digital visualizer.

Is also known as a document camera,

which is also known as a visual presenter,

which is also known as a visualizer.

So there are different words or

terms used for the same device.

So a digital visualizer or a visualizer

captures images of objects in real time.

It makes use of a higher resolution

camera that captures the image and

projects it so that an audience

can see what the object is.

Now,

one thing that you need to remember

here is that this particular

device needs to be connected to

an LCD projector for projection.

Right now,

let us look at the different

paths of the digital visualizer.

So this is the device.

And you will find a small

little Oval that is marked OK.

Now right here we have the

high definition camera.

OK, so the camera is right here and.

That's the label for it.

The next one is. The document bed,

so the document bed is the place where

you would place your object, right?

So that's known as the document bed.

Than the third part is

known as the swinging arm.

So if you look very carefully this

swinging arm, you can raise it.

You can lower it.

OK, so that is for adjustments that

helps you to capture the object, right?

And the next one are the LED lamps.

OK, so you'll have two lamps.

The one that is indicated

and exactly opposite that.

So these are the two LED lamps and

if you look very carefully this

document bed is white in color,

and under this there is also LED

strips which illuminate this bed right?

So this means that there are

two sources to eliminate.

One are the LED lamps.

On the sites that you can

move in and move out OK,

they move in this way and they move

out so you can adjust depending

on how you want to illuminate the

object and the second one is the

document itself gets illuminated.

So you have three settings.

One is no illumination.

Second is only the document that gets

illuminated and the third setting

is when those those two lamps on

either side get illuminated OK.

I'm going to present this for you,

so you will see the image AB&C.

Now if you look at image A.

That is no illumination OK.

If you go to image B you will see

that the document bad is illuminated

alright and if you go to the image

C you will see that the document

bed is not illuminated but rather

the the two lamps on either side

of the document bed are lighted.

Alright,

so these are the settings for

this particular device.

Now what can we make this device?

Or how can we use this particular

device when I have transparent

objects or transparent media?

All that you need to do is get the

media and place it on the document bed.

And if you look very carefully here,

I have a graph.

I have a graph which is photocopied

on a transparency and this is

mounted on the document bed OK.

So this is for transparent objects.

Let me just show you what the

projection would look like,

not with the same object with another object.

OK, this is the projection of a protractor.

This is the screen and this is

the image of a protractor that

was placed on the document bed.

Now this is projected by using

the LCD projector.

OK, so this is the first one.

Let's go to the second one.

When you have translucent objects.

Well,

when I say translucent objects

they are neither transparent

nor are they opaque.

They lie somewhere in between

and here what I have is.

A paper a four size paper that has a

print of a cockroach and the different

paths which are labeled alright.

So in this case what is done is that

the document bed is illuminated.

If you look very carefully you

will see some brightness here,

so the document bed is illuminated

and what you see on screen is

the image that is projected.

All right, and the third one is

when you have opaque objects.

Now what do I mean by opaque objects?

Opaque objects are objects that do

not allow light through pass to them.

So in this case I cannot use the

illumination of the document bed.

So in such case what I need to do

is make use of the of the two arms.

OK, that is the LED arms.

So you have one and One South.

These two you need to adjust

and illuminate the objects.

And the objects what I have

here are three kinds of leaves.

All right.

Let's have a look at the projection.

So this is the image of the

objects on the document bed,

and this is the projection on screen.

All right?

So most of you would be would be

relatively new to this particular device,

but this device is very interesting and it

helps teachers a lot in teaching, right?

So what are the advantages of?

The visualizers,

or a document camera,

so a document camera is able to project

the images of actual 3 dimensional objects.

As well as transparent materials

and translucent materials too,

magnification is possible.

All right now.

When I say magnification,

let me just take you to the previous slide.

Now if you look very carefully

at these objects,

the leaves which are here I have magnified.

The magnification is 2X.

So this means that I can

magnify objects all right,

so magnification is yet another

power of this particular device.

Close up detailed observation of objects.

In other words,

it means that I can have a

very close look at the object.

Let me take you to the slide back again.

If you look very carefully here,

you know these leaves.

My focus here is to talk about the leaf

venation and if you look at the projection.

You also see the projection of the of

the leaf per se and the Venetian also.

So in other words.

I want to explain to the class the

concept of the lamina and the leaf.

Venation.

Then photographs of mounted objects

can be captured and stored.

If you want to store these images,

then you need to connect either

a laptop or a desktop to the

document reader and so it is saved

straight away on such devices.

And most important is manipulatives

and color can be projected.

For instance,

you know you want to talk about

the human heart and you have

the model of the human heart.

So all that you can do is just place it

on the document bed, put the camera on,

illuminate it using the two arms

which have the LED lamps and you

can project this on the screen and

the students can see you know the

different colors which are marked.

On the model of the heart that talks

about you, know the oxygenated blood

and the deoxygenated blood, and so on.

So it makes learning a little more

concrete for learners and the next one

we're going to talk about is films.

So we know that films can provide

an entertaining and unique way

of addressing cognitive as well

as the affective attributes.

Movies can be used as a pretty thing

or an interest building exercise.

Adding a movie can build interest

in a topic that is being learned

while providing a small break

from normal classroom activities.

Children enjoy watching movies and

movies can be used to address different

learning styles and in particular the

learning styles of visual learners.

The audio visual learners they enjoy.

This films can develop students

ability to also analyze what they see.

Synthesize,

that is to bring together ideas and

also offer criticism by connecting

what they see to reality.

Sociological concepts and also theories.

They can understand cultures gain insights

into the lives of the great personalities.

Films for example.

That is this from Earth to the universe.

This is a stunning 30 minute

voyage through space and time.

Our full Dome planetarium movie,

which conveys through

sparkling sights and sounds.

The universe revealed to us by science.

If you get an opportunity to view this movie,

you can also watch a trailer of

this on YouTube then other movies

like the man who knew Infinity,

that is the life of the genius Ramanujan.

A brilliant young mind X + y.

So this particular film was inspired

by the documentary beautiful Young

Minds and focuses on a teenage English

mathematics prodigy named Nathan,

who actually had difficulty

understanding people but finds

comfort in numbers when he chosen to

represent the United Kingdom at the

International Mathematical Olympiad.

I'm not going to tell you more than this.

I want you to view to know more about it.

Then there's another interesting mathematical

mathematics movie known as the Cube.

If you get an opportunity to view this,

and for the students of physics,

a beautiful movie called a Beautiful Mind.

So films also have their advantages.

Films are great for visual learners.

Every student has their own learning

style and films can impress learners.

Foods allow students to see

life through different lenses.

Different perspectives open

up before I learn.

Now,

films provide a visual aid to

understanding historical events,

movements, etc.

Foreign films can also help teach language.

Foreign language films can motivate

students and even inspire them,

and films can also be used

to create awareness.

So projected media can

make learning interesting,

engaging and active.

But how you make use of it.

Depends on your creativity.

Thank you. These are my references.