



**KERALA UNIVERSITY COLLEGE OF TEACHER EDUCATION  
KARIAVATTOM**

**B.Ed. COURSE 2023-2025**

**SEMESTER – 3**

**E – CONTENT DEVELOPMENT**

NAME OF TRAINEE : B.S Shilpa Nair

OPTIONAL SUBJECT : Physical Science

REGISTER NUMBER : 18223972005

  
**PRINCIPAL**

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# E-content

E-content, short for electronic content refers to any type of digital media that can be accessed and consumed online. This can include text, image, videos, audio and interactive multimedia such as e-learning courses, interactive games and simulations. E-content can be created by a variety of purposes, such as education, entertainment, marketing or information dissemination. It is often distributed through various digital channels such as websites, social media platforms and mobile applications. E-content has become increasingly popular in recent years due to the widespread adoption of digital devices and the internet, which has made it easier and more convenient for people to access and consume content online.

## Features of e-content

- Digital format
- Interactive
- Accessible
- Customizable
- Scalable
- Multimedia
- Searchable
- Up-to-date
- Cost-effective
- Mobile-friendly

# Phases of e-content development

A systematic and a scientific approach are needed to develop quality e-content. The e-content development aspects comprise of six phases.

## Analysis Phase

It is the foundation for all other phases of instructional design. It analyses target audience goal and objectives, views of subject experts.

## Design Phase

In this phase provides a complete design of the learning solution it involves planning, use of relevant software, required skills etc.

## Development phase

The output of the design phase will be the input of this phase. Here begins the actual production of the e-content design.

## Teaching Phase

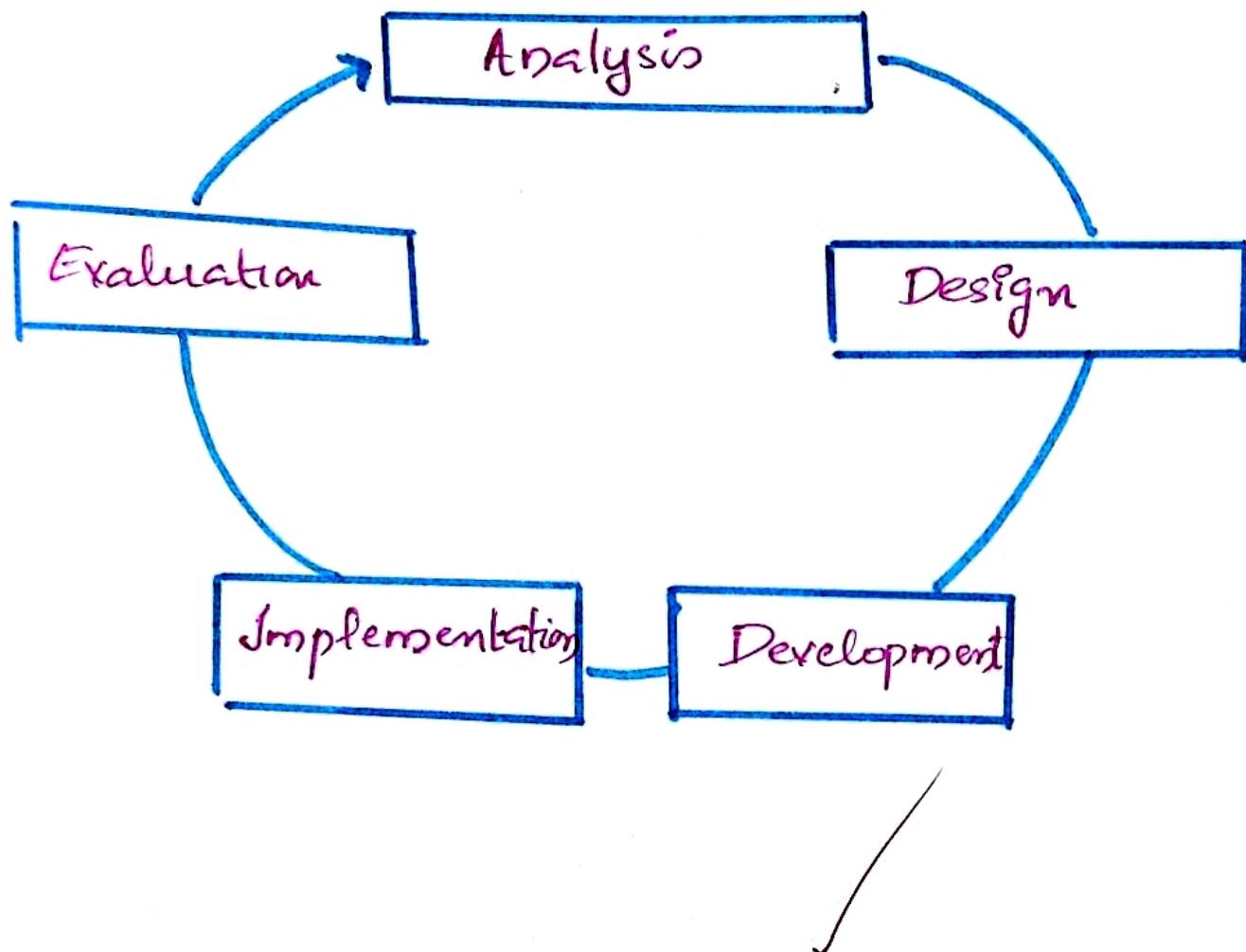
In this phase administrator the e-content in the actual educational field. Test the spelling mistakes, hyperlinks, content errors, clarity of the picture etc.

## Implementation phase

It is the actual delivery of instruction to the target audience. It checks product quality and accuracy.

## Evaluation Phase

In this stage help to collect feedback from both learners and instructors evaluating the effectiveness of a product.



## LESSON TRANSCRIPT

Name of the teacher: B.S Shilpa Naik  
Name of the School: MGSS Primary school  
Standard: IX  
Subject: Physics  
Unit: Work Energy  
Topic: Positive and Negative work

- Theme: To make students understand the concept of positive work and negative work.
- Learning Outcomes:
1. Remembering: Students can recall and remember the basic fact about work, such as the definition of work, unit of work.
  2. Understanding: Students can explain the key concept related to the positive and negative work such as when do a work is said to be positive and negative work.
  3. Applying: Students can apply this knowledge of positive and negative work to the real-world scenarios.

**4. Analyzing:** Students can analyze the effects of positive and negative work when applied on the object.

**5. Evaluating:** Students can evaluate the real-life examples of positive and negative work and consider the implications of effects of positive and negative work.

**6. Creating:** Students can create their own e-content related to positive and negative work, such as multimedia presentation, video and infographics, to demonstrate their understanding of the topic and share it with others.

### Process Skills:

- 1. Observing:** Students can observe the effect of positive and negative work on object
- 2. Comparing and contrasting:** Student can compare and contrast the causes and effects of positive and negative work on object

## AUDIO

### INTRODUCTORY PHASE

"Welcome to today's lesson.  
On the content of positive  
work and negative work.  
This is an exciting topic  
where we explore how  
forces interact with motion  
to create energy transfer.  
By the end of this session  
you will understand the  
difference between positive  
and negative work,  
identify examples from  
daily life and solve  
related problems.  
Let's dive in!"

## VIDEO

### TEACHER / LEARNER ACTIVITY

Teacher gives the  
video input

## DEVELOPMENTAL

### PHASE

Let's start by watching a short video that explains the positive work.

Positive work occurs when the force applied to an object results in displacement in the same direction as the force.

Let's look at the diagram of person pushing a box forward.

Video showing of a man pushing a load in front of him

Let's see another video, Negative work happens when the Force applied opposes the distance of the object

Look at the diagram given below.

Next, let's play an interactive game. It challenges you to find out positive and negative work

Video of Tug of war

Two cases of positive and negative work

- Ball inclined surface
- Bicycling

Finally let's discuss the effect of these types of work from real-life scenarios

After this, let's do another online quiz game to test your knowledge

Learners will participate in the game.

Learners will attend the Quiz

## CONCLUDING PHASE

Great job, students!

You have learned a lot about positive and negative work in the e-content lesson

"Positive and negative work surround us, from lifting objects to applying brakes to vehicles. Remember, understanding these concepts help analyze energy transformations in our surroundings!"

~~Thank you~~

Teacher's voice  
input