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**SELF-LEARNING PACKAGE IN**

# **ICT 10**

Quarter 2 | Week 1

## **Shutter and Aperture Priority Modes**

### **Learning Competency:**

**Identify the difference between shutter priority and aperture priority.**

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## Ready to Launch!

Aperture and Shutter Priority are semi-automatic, or we can call them semi-manual camera modes. These two modes can help you get away from the fully automatic modes (P, Auto) and at the same time get you a step closer to using Manual Mode.

Aperture priority enables you to manually adjust your camera's Aperture( or f-number) and ISO. Base on this, and the available light, your camera makes the best guess on how to control shutter speed in order capture a properly-exposed image.

Shutter priority enables you set your camera's shutter speed. This governs the time your camera has to greater information about the scene. Shutter Priority is helpful when it comes to both freezing action and capturing motion.



## Aim at the Target!

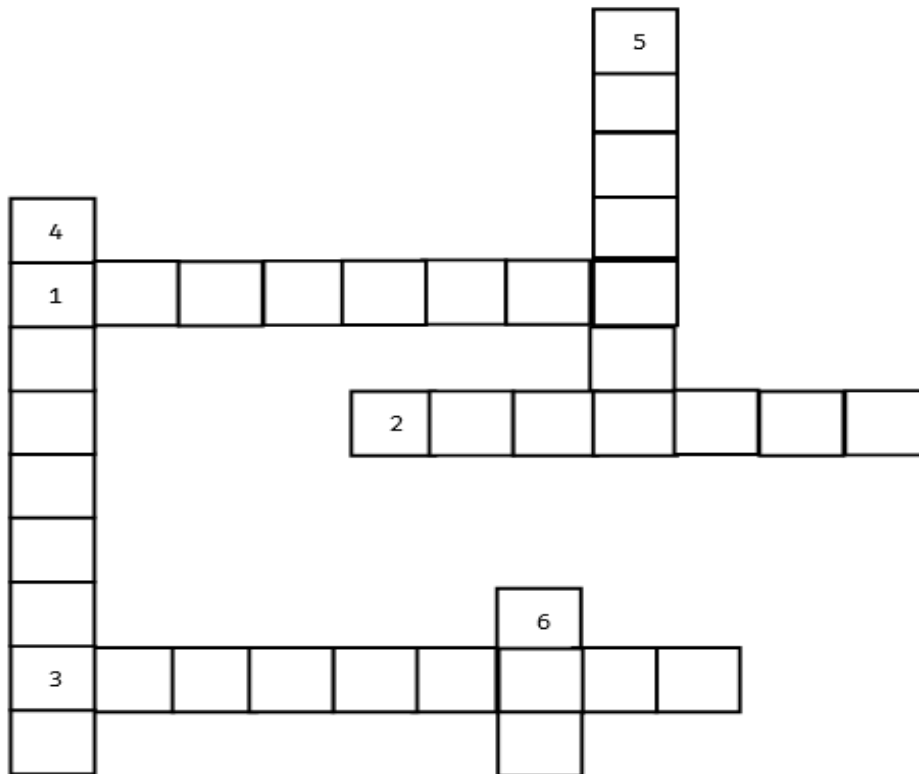
*At the end of this module you are expected to:*

1. Identify the difference between shutter priority and aperture priority.



## Try This!

Solve the crosswords using the list of words and the clues.



SUBJECT  
PORTRAITS  
SHUTTER  
LANDSCAPE  
APERTURE  
DIM

## ACROSS


1. This mode allows to control depth of field and shooting in low light conditions.
2. This mode is use to freeze or blur a motion.
3. This type of photography shows how the background and the person's position would help to emphasize his or her key characteristics and features.

## DOWN

4. The art of capturing pictures of nature and the outdoors in a way that brings your viewer into the scene.
5. It is the focus on the image, both literally as the sharpest point in the photograph and in a more figurative sense.
6. Offers low light photography.



### Keep This in Mind!

Direction: Mark  if the picture uses Aperture priority and  if it uses Shutter priority.

### Activity 1. What's in a picture?

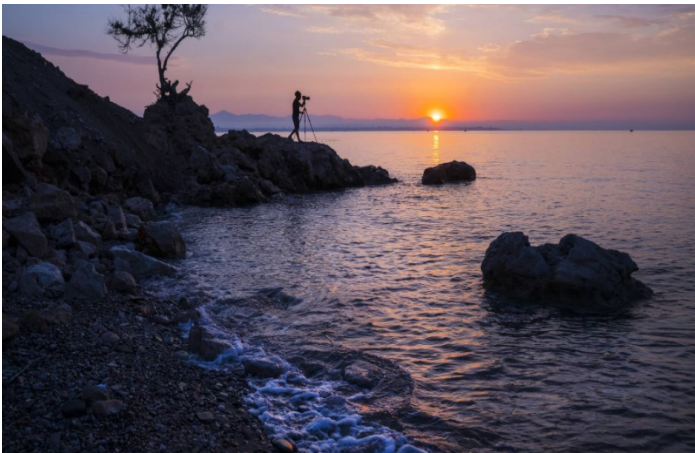
1.



2.



3.



4.





# Abstraction and Generalization

## What is Aperture Priority Mode?

The Aperture Priority shooting mode allows you to take control of the aperture, whereas the shutter speed and ISO (if you are set on Auto-ISO) are still controlled by your camera. This means that you can adjust the amount of light entering into the camera through the lens. So using Aperture Priority you can set the aperture value as per your need and control the depth of field.



Unlike the automatic modes, this mode gives you the freedom to adjust the aperture value and set the amount of blur effect that you want in your photo.

## When should you use the Aperture Priority Mode?

As we discussed, Aperture Priority mode allows you to control the aperture value, which ultimately affects the depth of field. This shooting mode is ideal if you wish to adjust the depth of field as per your desire, whereas leaving the shutter speed and ISO value selection up to the camera.

### 1. Portraits

While taking portrait or close-up shots, you would want to keep the subject in focus and blur out the background by choosing a large aperture (small aperture value). Using Aperture Priority Mode you can manually choose the required aperture value such as f/1.8 or f/2.8 to achieve a shallow depth of field.



### 2. Landscape

While shooting landscapes or cityscapes, you might want to have both the foreground and the background very much in focus. This is only possible if you manually choose a small aperture (high aperture value). Aperture



### 3. Low lighting

Suppose you are in a dim lighting condition and your photos are coming out underexposed. By increasing the size of the aperture opening (selecting a smaller aperture value like  $f/1.8$ ), you can allow more light into the camera and capture a better-exposed photo.

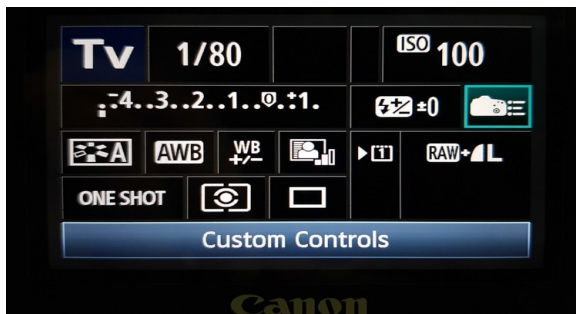
### 4. Midday bright sunlight

If you are shooting in broad daylight and are getting overexposed photos while shooting in automatic mode, you can close the aperture opening. This means that by using a higher aperture number (like  $f/16$ ), you can minimize the amount of light entering the camera through the lens.



### What is Shutter Priority Mode?

As the name suggests, Shutter Priority mode allows you to take charge of the shutter speed. Just to brainstorm, shutter speed is the duration for which the camera shutter remains open for the light to enter the camera and hit the sensor. The slower the shutter speed is set on the camera, the more the light is received by the image sensor. Similarly, the faster the shutter speed the less light would hit the image sensor.



While you are shooting in Shutter Priority mode, you have the freedom to adjust the shutter speed as per your requirement while the camera chooses the ap-

### When should you use Shutter Priority Mode?

If you want to take full control of the shutter speed and experiment with your camera then this is the ideal camera mode. Let's look at two situations when you are most likely to shoot in Shutter Priority mode.

#### 1. Freeze a moving subject

If you want to freeze a fast moving bird, animal, or car in your photo, using Shutter Priority mode will allow you to do so by setting a fast shutter speed. A shutter speed of anything faster than  $1/500$ th of a second is considered ideal for freezing an object, but this may vary depending on the speed of the subject. Your camera will judge the required aperture and ISO values as per the available light.



## 2. Showing movement

If you are out and planning to capture star trails, light trails, or blue hour photos or blur motion, you would have to select a slow shutter speed so that the subject's movement is well captured in the single photo. To capture long exposure photos,



## 3. Dim lighting

If you are in dim lighting conditions you might get underexposed photos while shooting in automatic mode. By simply reducing the shutter speed (e.g. from 1/200th to 1/50th), you can allow more light into the camera and capture a well-exposed photo.

**Note:** Watch out for the shutter speed going too slow as to introduce camera shake into your image;

## 4. Broad daylight

Let's suppose you are shooting in broad daylight and your camera is capturing overexposed photos while shooting in automatic mode. Here you can increase the shutter speed. This means that by using a faster shutter speed (e.g. from 1/200th to 1/1000th), you can minimize the amount of light entering the camera sensor.



### Remember:

Using Aperture and Shutter Priority camera modes enables you to get familiar with how the lens's aperture and the camera shutter works. These modes ensure that you get well-exposed photos with your desired selection of aperture value or shutter speed, unlike automatic mode (where the camera makes all the choices for you).

So if your utmost priority is to manually choose the desired aperture value in order to get a particular depth of field, then you must shoot in Aperture Priority Mode. Otherwise, if your priority is to choose a specific shutter speed to capture something creative with the available light (freeze or blur motion), then you must go with Shutter Priority camera mode.



## Application.

Direction: Identify what type of priority mode was used to capture the pictures below.

1



2



3



4



5



## Reflect

Complete the statements below.

I understand \_\_\_\_\_

I don't understand \_\_\_\_\_

I need more information about \_\_\_\_\_



## Reinforcement & Enrichment



direction: Answer the question below.

1. During this time of COVID-19 Pandemic, express your thoughts or opinions based on the sample picture.



## Assess Your Learning

I. **Multiple Choice.** Read each item very carefully. Select the **letter** of your choice.

1. What priority mode is use to freeze motion?  
a. Aperture                      b. Shutter                      c. ISO                      d. All of the above
2. What type of shutter speed is use to blur motion?  
a. slow                      b. fast                      c. both A and B                      d. None of the above
3. Which is TRUE about aperture priority?  
a. It is use to control depth of filed  
b. Can be used during a broad daylight shooting  
c. It is use best to freeze movements  
d. All of the above
4. What priority mode is use to blur motion?  
A. Shutter                      b. ISO                      c. Aperture                      d. None of the above
5. Which is TRUE about shutter priority?  
a. It is help when it comes to freezing action  
b. It is use for dim lighting shooting.  
c. It is best for capturing blurred motion  
d. All of the above

II. Explain how do you differentiate Aperture priority and Shutter priority. ( 5 points)



## References & Photo Credits

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