

BASIC DIGITAL PHOTOGRAPHY WORKSHOP

Teacher: Roberto Ruiz de Zafra (Image Workshop technician)

OBJECTIVES

Teaching photography basics to students who have no prior knowledge of this field. Differences between chemical and digital photography.

Light treatment and features. How to capture and compose images.

METHODS

This course will be based upon a series of theoretical and practical sessions. Theory will be taught in class, using audiovisual support materials (presentations, videos, etc.) and photography equipment. Materials will be made available to students via DropBox.

Practical sessions will be held in class and on location in the San Vicente campus. Practical works will be shown and assessed in class.

ADDRESSED TO:

Anyone interested in getting acquainted with the fundamentals of photography.

NECESSARY EQUIPMENT:

Digital reflex (DSLR) camera

OPTIONAL EQUIPMENT:

Angular lens, regular lens and zoom lens. Cable release. Tripod.

PROGRAMME

1.- The eye Darkrooms Cameras

- Types of camera: depending on vision and format
- Parts How they work.
- Exposition control: diaphragm, shutter and sensitivity.
- Focusing and optics.
- Accessories
- Image.
- Resolution and bit depth
- Chemical and digital photography.
- Formats.
- Sensitivity. Exposure latitude. Photographic grain. Noise.

2.- The shutter

- Types of shutter: front, central and focal plane.
- Speed scaler.
- Shutter effect on movement.

Practical activity 1.- Using the shutter

3.- Diaphragm and depth of field

- No. of frames / opening diameter / focal length.
- Concept. Hyperfocal point. Hyperfocal distance.
- relation between hyperfocal distance, diaphragm, focal length and distance to the person to photograph.
- depth of field pre-visualisation
- depth of field scale

Practical activity 2.- Depth of field

4.- Lenses. Focal length and image size.

- Lenses. Focal length and image size.
- Types of lenses: fixed and zoom lenses. Lens assembly. Adapters. Areas to work on:
- Parts of a camera: focus ring, distance scale, zoom ring, focal length scale, diaphragm ring, depth of field scale and focus index.
 - Coverage capacity.
 - Perspective and visual angle.
 - Filters.

Practical session 3: lenses. On-site session to analyse the UA campus' architecture

5.- Light. Lighting. White balance. Exposure.

- Exposure.
- Exposure values: diaphragm and shutter
- How to measure light. Reflected and incident light.

Practical session 4: outdoors lighting.

ASSESSMENT: Students must attend at least 80% of the sessions and complete all practical activities.