

## **PHOTOGRAPHY**

Degree in Graphical Design

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Code: 11801

Main Scientific Area: Audiovisuais

Lecturer: Maria da Graça Fernandes Pinheiro da Silva

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 60h Total Workload: 100h

ECTS: 6,0

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### **Objectives**

Sensitize students to approach the photographic image, since the advent of photography to the present. Raising awareness of the historical context of photography.

Show and understand the importance of process analog to the digital.

Provide students with the exploration of analog process combined with the digital. dimension.

Combining the concepts of technical and visual observation - Concepts of light, camera, lenses, lighting the subject, composition, framing, composition, perspective and scale, rule of thirds, exposure, darkroom techniques, capturing images with cameras and analog digital.

Develop the principles of editing and post - production of digital image by edition software.

### **Learning Outcomes**

Know and explore the relationships between the visual and technical aspects of photography.

Apply the fundamental principles of photographic practice.

Knowing how to recognize and apply the concepts of analog photographic image and digital.

Apply with the exploration of analog process combined with the digital. dimension. Combining the concepts of technical and visual observation - Concepts of light, camera, lenses, lighting the subject, composition, framing, perspective and scale, rule of thirds, exposure, darkroom techniques, capturing images with cameras and analog digital.

Apply and develop the principles of editing and post - production of digital image by edition software.

### **Course Contents**

Brief reference to the history of photography

From the beginning to present time Digital photography and its application

Image Formation

Photometry

Light: properties, characteristics and direction

Types of light

Natural light/Artificial light

Define and calculate the adequate exposition

Reciprocity law  
Overexposure and underexposure

Opening diaphragms

Depth of field

Shutter speed  
Exposure calculation

ISO sensitivity  
Composition

Perspective and range  
Background and content

Rule of Thirds

Composition  
Photography techniques

Rules of the golden section and of the golden spiral

Image reading and proportions

Analogue Photography

Equipment  
Cameras and their equipment  
Analogue lab:  
Photo printing and enlargement

Digital Photography

Equipment

Cameras and image scanners

Lenses and focal length

Filters and applications

Light measuring mode  
Matrix  
Centre-weighted  
Partial Specific  
Histogram

Interpretation

Focus modes Shooting modes  
Live View mode  
Flash – Types of flash  
Flash range, guide number and High shutter synchronization  
Flash: spread, reflection and direction

Image registration in digital devices  
Types of files – JPEG and RAW  
White balancing  
Resolution of images  
Exposure modes Program  
Auto Shutter /priority Aperture /priority Manual and BULB Photography studio

Photographic equipment  
Lighting equipment and accessories  
Photography backgrounds and scenarios

Image record

Image Edition and Post-production

Positive and negative image scanning  
Scanners  
Resolution

PPI /DPI  
Digital photography edition softwares  
Interface, tools, menus and panels

Processing modes  
Crop and straighten  
Contact Sheet  
HDR  
Image processing  
Panoramic photography  
Selection methods and image cutting  
Tool selection  
Alpha Channel selection  
Colour settings and profiles  
Adjustment Layers  
Solid Colour  
Selective Colour  
Hue e Saturation  
Brightness e Contrast  
Levels  
Curves  
Color Balance Black White Photo Filter  
Matrix, Saturation e luminance  
Image sharpness adjustment  
Noise reduction  
Cropping masks

Mask fitting Image retouching  
Image recording files: GIF/BMP/JPEG/PNG/TIFF/PSD

### **Recommended Bibliography**

ADAMS, Ansel. A Câmera: Editora Senac São Paulo, 1981.

ADAMS, Ansel. A Cópia : Editora Senac São Paulo, 1981.

ADAMS, Ansel . O Negativo: Senac São Paulo, 1981.

AMAR, Pierre-Jean. História da Fotografia : Arte Comunicação: Edições 70, 2007.

ADES, Dawn. Fotomontaj e : (New York, 1988) Barcelona: Editorial Gustavo Gili, 2002.

BAURET, Gabriel. A Fotografia : Arte Comunicação: Edições 70, 2006; BERGER, John. Modos de Ver, Arte Comunicação : Edições 70, 1972.

CENTRO PORTUGUÊS DE FOTOGRAFIA. Guia de Fundos e Coleções Fotográficas 07 : Porto, 2007.

FRIZOT, Michel. A New History of Photography . Éditions Adam Biro. 1994;

LANGFORD, Michael - Fotografia Básica : Lisboa. Dinalivro, 2002.

MACLEOD, Steve – Black White : London. An AVA Book, 2008. PRÄKEL, David – Composition : London. An AVA Book, 2006.

ROLAND, Barthes. A Câmara Clara : Edições 70, 2008.

SANTOS, Joel. O Guia Essencial de Pós-Produção com photoshop Lightroom e Adobe Camera Raw: Centro Atlântico, 2012.

SANTOS, Joel. Foto Edição : Centro Atlântico, 2012.

SANTOS, Joel. Fotografia - Luz, exposição, composição, equipamento : Centro Atlântico, 2010.

SENA, António. Uma História de Fotografia : Porto. Porto Editora, 1991.

SONTAG, Susan. Ensaio Sobre Fotografia : Lisboa. Publicações Dom Quixote, 1986.

SOUGEZ, Marie. Loup. História da Fotografia : Lisboa: Dinalivro, 1996.

TOM, Ang. Manual de Fotografia Digital : Civilização Editora.

KABILI. - Adobe Lightroom and Photoshop for Photographers Classroom in a Book . Adobe Press, 2014.

A bibliografia será completada com indicações online.

### **Learning and Teaching Methods**

Students are always motivated and oriented in the development of all the tasks, as well as, in all technological and artistic experiments.

### **Assessment Methods**

Given the nature of the regime of periodic and thorough evaluation of this course, ARE NOT PROVIDED:

FINAL EXAM, EXAM FOR IMPROVEMENT OF NOTE; EXAM SEASON SPECIAL, as decided by the disciplinary group of audiovisual.

The grade improvement is possible frequency of one-third of the classes and the realization of a project determined by the / a teacher (a) of the course at the beginning of the semester and duly agreed with the disciplinary group of audiovisual.