

# **E.M.G.YADAVA WOMEN’S COLLEGE, MADURAI-14.**

**(An Autonomous Institution – Affiliated to Madurai Kamaraj University)**

**(Re-accredited with ‘A’ Grade by NAAC)**

**CBCS**

**DEPARTMENT OF PHYSICS-B.Sc**

**ADD ON COURSE**

**COURSE STRUCTURE**

**(w.e.f.2021-2022 onwards)**

**Contact hours: 30 hrs**

**Credit: 1**

<b>S.NO</b>	<b>SEM</b>	<b>SUBJECT CODE</b>	<b>TITLE OF THE PAPER</b>
<b>1.</b>	<b>I</b>	<b>21PAOC</b>	<b>Fundamentals of photography</b>
<b>2</b>	<b>I</b>	<b>21PAOCP</b>	<b>Practical</b>

**E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.**  
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)  
Re-accredited (3<sup>rd</sup> Cycle) with Grade A<sup>+</sup> and CGPA 3.51 by NAAC

**CBCS**  
**DEPARTMENT OF PHYSICS-B.Sc**  
**ADD ON COURSE**  
(w.e.f.2021-2022 onwards)

**Title of the paper : Fundamentals of Photography                      Contact hours: 30 hrs**  
**Semester : I**  
**Subject Code : 21PAOC**

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**Objectives**

1. Understand the basics of camera
2. Learning the different types of lens
3. Gain the knowledge about the modern techniques
4. To know more about the adobe photoshop
5. To study the more techniques using photoshop

**Unit- I CAMERA**

Camera-Basic parts of Camera- Important controls of Camera-Types of Camera-  
Video Camera- Digital Camera.

**Unit-II THE LENS & FOCUSING**

Focal length –wide angle lens-Telephoto lens- Close up lens-m Zoom lens- f- number-  
Lighting-contrast-exposure-illumination and use of Flash light.

**Unit-III MODERN TECHNIQUES**

Using digital camera- Charge coupled device- transfer to computer --Handling a  
Video Camera – Composition – Initial Preparation – Lighting – Panning – Starting &  
ending.

**Unit-IV Adobe photoshop I**

Navigation and zoom-Pixels and Image resolution-cropping-Rotating-Image  
adjustments

## **Unit-V Adobe photoshop II**

Image Adjustments (Black and white balance)- Colour correction-Dodhge and burn-Selection tools-Clone stamp tool-filters

### **Text Books:**

1. Practical Photography by Thiagarajan 4<sup>th</sup> Edition ENNES publications. [unit I,II and III]
2. Begining Photoshop by Professor Brad Shirakawa, San Jose State University [unit IV and V]

### **Reference Books:**

1. DSLR for Beginners, 2015, Well Being Publishing House, Kindle Edition.
2. AL Judge, 2014, Understanding DSLR Lenses, Subtle Vision Media, Kindle Edition.
3. AL Judge, 2013, The Art of Photography, Subtle Vision Media, Kindle Edition.
4. AL Judge, 2014, Mastering Digital Cameras, Subtle Vision Media, Kindle Edition.
5. Scott Kelby, 2013, The Digital Photography, Second Edition Peach pit Press, USA.
6. Adobe photoshop cc Classroom in a book (2018 release) Kindle Edition, 22 December 2017.

## **PRACTICAL**

**Title of the paper: Lab in Fundamentals of Photography**

**Subject Code: 21PAOCP**

### **List of Experiments**

1. Adjust the image for levels and color. Change modes from RGB to grayscale and create duotones.
2. Dodge and burn specific areas of a photo.
3. Use selection tools to further adjust and enhance the image.
4. Use the clone tool to repair and manipulate the image.
5. Use filters to change the image in artistic and unreal ways.