

Online Certificate course in  
**VIRTUAL EXPOSURE CONTROLS**  
(CODE: PRMCJCC0121)



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## Course structure and syllabus

### Minutes of the Board of studies meeting held on 22.06.2021 Tuesday 10.00 am

A meeting of the board of studies was held in Google meet to discuss and implement the certificate course on Virtual Exposure Controls for the Post Graduate Students in Mass Communication and Journalism. Following faculty members (Internal and External) were present in the meeting.

Sl	Name	Designation	Signature
1	<b>Dr. Jobin Joy, MCJ, PhD</b>	Chairman	
2	<b>Mr Shobin Mathew, MCJ, Mphil</b>	Faculty Member	
3	<b>Mr. Jibin Varghese, MCJ</b>	Faculty Member	
4	<b>Mr. Lithin Mathew, MCJ</b>	Faculty Member	
5	<b>Ms. Christina, MCJ</b>	Faculty Member	
6	<b>Dr. Seena J,</b> Assistant Professor and HoD Jain University	External member	

### Agenda

The primary objective of the meeting of the board of studies was to begin a certificate course for the Post Graduate students in Virtual Exposure Controls with the available resources (DSLR Camera, Mobile phones or Open source applications). Various aspects were discussed in the meeting. They are listed below in the minutes.

1. The board proposed to begin a certificate course that is skill based for the post graduate students, and it is decided to be in photography
2. The syllabus is approved with changes suggested by the internal and external members,
3. The external suggested including additional sessions on the beginning of the photography and historical aspects, and therefore they are added in the first module.
4. The classes will be starting from 29.06.2021 and it can be either online or offline based on the student availability for the sessions.

## **Introduction**

*Photography* is the process of recording visual images by capturing light rays on a light-sensitive recording medium (e.g. film or digital CCD). It can be thought of as two pursuits: **Technical**: The science of setting up the camera and the recording medium to take images in a controlled way and **Creative**: The art and aesthetics of composing good images to capture. This course is designed in such a way that it can be taught both in online and offline mode for the beginners in photography. This course doesn't require the possession of a DSLR Camera, rather it uses open source online simulator. It makes learning effective. This certificate course will give the basics of photography to the learners starting from the technical aspects, exposure triangle and ends with a handful of assignments and projects that can be completed even with a mobile phone camera.

## **Objective**

- To introduce the nuances of photography to the students
- To enable the students to take pictures on various circumstances with the available gadget
- To train the students on the technical aspects of photography
- To engage in students in learning the management of lighting – natural and artificial

## **Learning outcome**

By the end of the course, the students will be able to;

- Photograph people, objects, landscapes etc. effectively with the available cameras
- Comprehend how today's photographic camera works and records images
- Understand the exposure triangle and use the camera controls effectively
- Effectively use the available light sources for the photography
- Choose the right camera and lens according to the situations
- Transfer and process the captured images for print/web publishing

### Virtual Exposure Controls

Sl	Modules	Theory		Practical		Week
		Marks	Credit	Marks	Credit	
1.	Introduction to Photography	10	1	10	1	1
2.	Exposure triangle	10	1	20	1	2
3.	Introduction to open source simulator	10	1	10	1	3
4.	Transfer the image for print/web publish	10	1	20	1	4
<b>Total</b>		<b>40</b>	<b>4</b>	<b>60</b>	<b>4</b>	<b>4</b>
<b>*Total Marks</b>		<b>100</b>				
<b>*Total Credits</b>		<b>8</b>				

*\*1 Credit= 5 hours (for theory)*

*1 Credit= 5 hours (for practical)*

*4x5 hours= 20 hours for 40 marks*

*4x5 hours= 20 hours for 60 marks*

*Total 40 hours in 20 weeks*

## **Syllabus**

Module: 1- Introduction to Photography

Module: 2- Exposure triangle

Module: 3- Introduction to open source simulator

Module: 4- Transfer the image for print/web publish

## **Syllabus**

### **Module: 1- Introduction to Photography**

Basics of Photography, History of photography, Emergence of Photography, Basic camera controls, How to handle a camera, Types of cameras, TLR, SLR, DSLR, Mirror less camera, Full frame camera, Types of lenses, Flash, Light sources

### **Module: 2- Exposure triangle**

Aperture, Shutter, ISO, Aperture Priority, Shutter priority, Focusing techniques, Composition techniques, light management, Over exposed, under exposed, Motion blur, Bulb mode, Light meter, Photographing in different light conditions.

### **Module: 3- Introduction to open source simulator**

Introduction to CANON Play simulator, Capturing images using the simulator, changing the exposure controls, Setting up priorities, Evaluation of images, understanding the capturing techniques.

### **Module: 4- Transfer the image for print/web publish**

Capturing the images from a camera, different file formats, JPEG, TIFF, BMP, RAW, TGA, PNG, GIF etc., Image processing applications, Printing images, publishing, RGB, CMYK Compatibilities.